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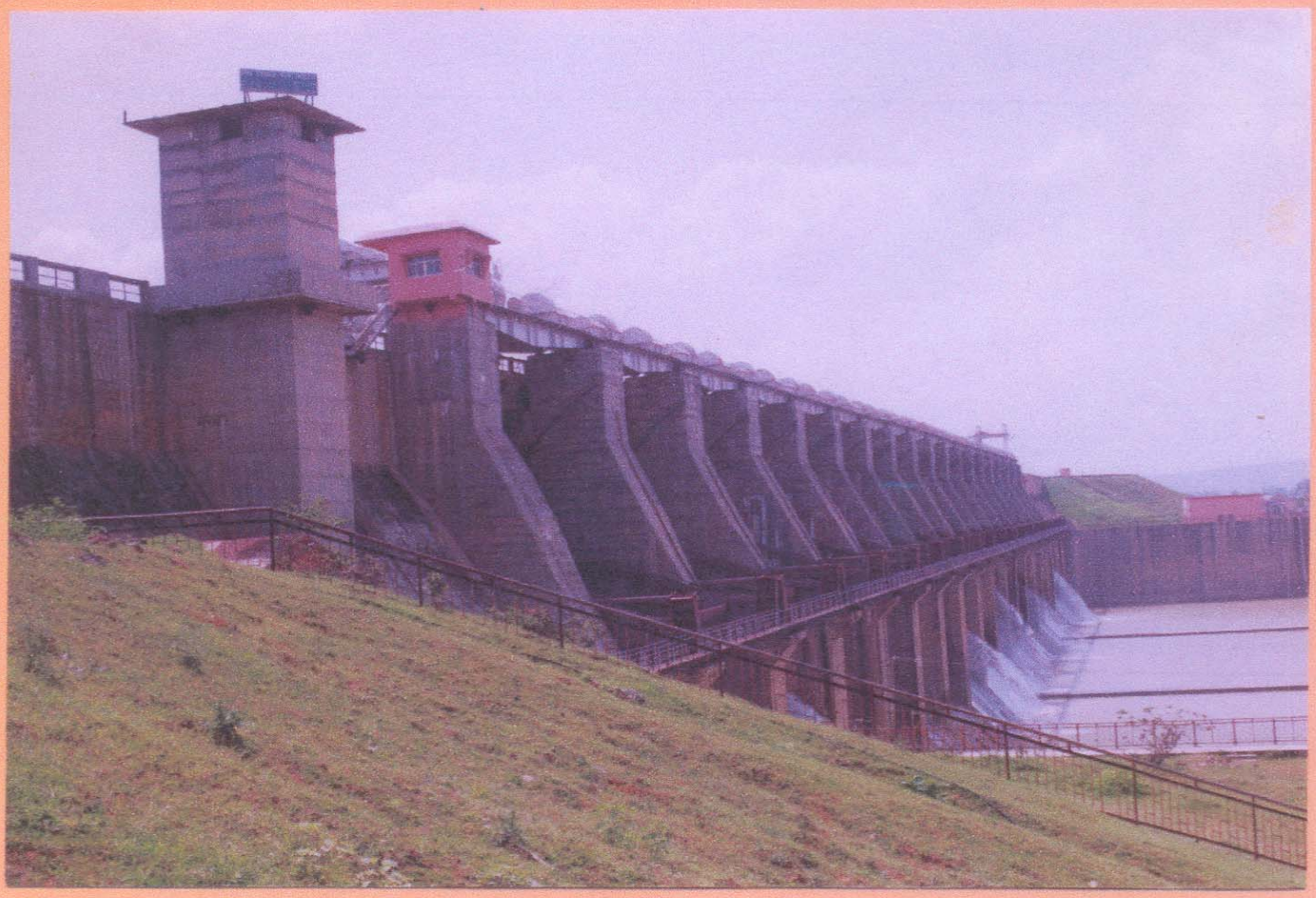
GOVERNMENT OF INDIA
MINISTRY OF WATER RESOURCES

Report of the Working Group On Water Resources For the XI Five year Plan (2007-2012)



New Delhi, December, 2006

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For the XI Five Year Plan
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FOREWORD

The Working Group on Water Resources had the onerous task of finalizing its recommendations in respect of targets and outlay for irrigation, flood control, and command area development and related activities in view of the overall water resources scenario in the country and particularly the following concerns:

a. Urgent need for creation of irrigation potential at relatively higher rate but a relatively poor achievement in X Plan – Expected irrigation potential creation being only about 8.82 mha as against the target of 16.74 mha during X Plan.
b. Need for immediate attention to flood management works in view of State Governments' inability to provide adequate funding.
c. The need to close the increasing gap between irrigation potential created and irrigation potential utilized.
d. Need for improvement in water resources management.

Keeping in view all aspects i.e. present scenario of water resources, existing issues related to development in water sector, future needs, the commitment (in the form of targets under Bharat Nirman and those for agrarian distress districts etc.), the Working Group has made an effort to project a realistic and realizable target giving due emphasis to developmental activities, management practices and research and development efforts.

The Working Group has set a target of creation of 16.00 mha of irrigation potential and providing protection to about 2.18 mha of flood prone area. Due emphasis has been laid on (a) putting in place a water resources information system, (b) development of on-line monitoring system, (c) research and development activities for improving the efficiency and (d) Information, Education and Communication with a view to create awareness among all stakeholders.

Necessary provision has also been made for important issues like repair, renovation and restoration of water bodies, ground water recharge, dam safety measures and better coordination in water resources related activities. An outlay

of Rs. 2,31,800 crore (Rs. 1,82,050 crore in state sector and Rs. 49,750 crore in central sector) has been proposed.

With a view to ensure that the objectives of XI Plan are fully realized, the report also emphasizes a more active participation of the central government by way of providing incentive support to State Governments and closer monitoring of the progress.

I would like to place on record my appreciation and thanks to all the members of the Working Group. A number of officers and staff members of the Ministry and Central Water Commission have provided valuable contribution during the course of preparation of the report. I acknowledge the efforts made by all of them and would particularly like to mention Smt. Sushma Singh, the erstwhile Additional Secretary, Ministry of Water Resources and Chairman of Sub-Group on Minor Irrigation, Shri B.S. Ahuja, Chairman of Sub-Group on Major and Medium Irrigation, Shri S.K. Aggarwal, Chairman of Sub-Group on Flood Control and Shri R.C. Jha, Convener of the Working Group on Water Resources.

(Gauri Chatterji)

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EXECUTIVE SUMMARY

The Planning Commission vide Order No. 25 (1)/05-WR, dated 17.02.06 constituted a Working Group on Water Resources Sector for the XI Five Year Plan (2007-2012) under the chairmanship of Secretary, Ministry of Water Resources (Annexure-A). Subsequently the Working Group, in accordance with the provisions under ToR, constituted three Sub-Groups namely Sub-Group (1) : Major and Medium Irrigation, Sub-Group (2): Minor Irrigation, CAD & Private Sector and Beneficiaries Participation and Sub-Group (3): Flood Management, as well as, co-opted for other additional official and non-official Members (Annexure B to E). The final composition of the Working Group is given at Annexure-F. The Working Group held all together four meetings (Annexure-G to J) and after deliberations and discussions, the Report has been finalized. The important items/recommendations covered under different chapters are brought out as under:

Chapter-I: An Overview of Irrigation Development & Flood management

This chapter deals with the aspects of water availability & sectoral demand, flood management, provisions under national water policy, food grain requirement, sustainable development, environmental flow releases in rivers (EFR), impact of likely climate change, improvement in water quality, status of CAD & WM, participatory irrigation management, issues involving public private participation, etc.

Status of overall anticipated development up to end of X Plan has been indicated as under:

Irrigation Sector:

	Ultimate Pot.	Pot. Created	Pot. Utilisation
MMI :	58.47 mha.	42.35 mha.	34.42 mha.
MI :	81.43 mha.	60.42 mha.	52.81 mha.
Total :	139.9 mha.	102.77 mha.	87.23 mha

Plan-wise expenditure in irrigation with respect to total Plan expenditure has also been indicated in this Chapter.

During the plan period, a total of 368 major and 1087 medium projects were taken up, out of which, it is anticipated that cumulatively 202 major and 865 medium projects are likely to be completed upto end of X Plan. In addition, 215 ERM projects have also been taken up so far, of which, cumulatively 126 projects are likely to be completed by the end of X Plan.

Command Area Development (CAD)

About 19 mha is likely to be covered under this programme for micro level distribution system including field channels, field drains, etc., till the end of X Plan.

Flood Management

A total of 18.22 mha is likely to be provided with reasonable protection against flood by the end of X Plan.

Chapter-II: Performance review of the X Plan

The present Chapter briefly discusses the pattern of development over the successive plan periods reflecting the gradual change from total thrust on construction of new projects in the early plan periods to completion of ongoing projects, command area development, renovation and modernization of the existing projects. Presently, further dimensions such as micro irrigation development, conjunctive use of surface and ground water, etc. are being added. Declining trend in budget allocation in Irrigation Sector and increasing gap between potential creation and utilization have also been incorporated as a matter of concern. As per the performance review, the anticipated achievement during X Plan has been indicated as under:

		Physical	**Financial**
MMI Sector:	Creation of potential	5.30 mha	Rs.66450 crore
MI Sector:	Creation of potential	3.518 mha	Rs.13775 crore

Command Area Development:		**Central Sector**	**State Sector**
i) Field channels:	2.044 mha	Rs.826 crore	Rs.1592 crore
ii) Field drains:	0.584 mha		
Area under Flood protection coverage:	1.78 mha	Rs.657 crore	Rs.3811 crore

The position of completion of projects under major and medium irrigation sector has been as under during X Plan.

	Major	Medium	ERM
Projects spilled into X Plan	171	233	86
New projects taken up in X Plan	49	84	46
Projects likely to be completed in X Plan	48	91	39
No. of projects deferred/merged/reclassified etc.	- 6	-4	- 4
Spillover projects into XI Plan *	166	222	89

Chapter-III: Strategy for XI Plan

Under this chapter overall objectives, thrust areas and strategy for the XI Plan have been discussed.

The main objectives of the XI Plan are:

- Creation of additional potential of around 16 mha
- Reducing gap between Potential created & its utilization,
- Mitigation of flood damages,
- Promotion of mass awareness on water related issues.

The thrust areas identified in order to achieve the objectives are as under:

- Completion of ongoing irrigation projects.
- Extension, Renovation & Modernisation (ERM) of old schemes.
- Improvement in the efficiency of irrigation system.
- Command Area Development and Water Management.
- Participatory Irrigation Management.
- Sustainable Ground Water Development and Management.
- Recharging of Ground Water.
- Research and Development activities on priority areas.
- Dam Safety Measures.
- Establishment of River Basin Organizations/ Authorities.
- Water Resource Information System.
- On line monitoring system.
- Flood management.
- On line flood forecasting information system.
- Information, Education and Communication for mass awareness.

The strategies for irrigation development, command area development and flood management have been brought out separately for each of them. Besides, the following issues have been dealt with exclusively.

i) Storage requirement and strategies,
ii) Strategy for improving irrigation efficiency,
iii) To examine whether CAD activities can be part of Major & Medium Irrigation Projects,
iv) Strategies for improving revenue returns
v) Strategies for reviving/improving traditional water storages,
vi) Strategy for minor irrigation through groundwater development and management,
vii) Strategies, comprehensive approach and action plan for flood management.

Some important suggestions are as under:

- Creation of more storage is absolutely essential for future requirements. The State Governments may be provided with incentives for creation of additional storage, if necessary. ERM projects should be given due priority where the eroded potential can be restored with moderate expenditure.

- A separate plan fund may be provided as irrigation maintenance fund. Project authorities should adopt O&M cost norm of Rs 600/ha for utilized potential and Rs 300/ha for unutilized potential as suggested by 12th Finance Commission. Similarly, a percentage of outlay for flood sector should be earmarked for O&M of flood protection works.

- National Rural Employment Guarantee Act (NREGA) may be linked with development of Minor Irrigation Schemes, particularly Ground Water Schemes.

- There is need to reorient the approach from ground water development to management and a comprehensive act for regulation of ground water development on sustainable basis. Artificial recharge to ground water and rain water harvesting should be implemented in identified areas through participatory approach.

- The WALMIs, Agricultural Universities and reputed NGOs to be supported for improved water management at micro level.

- The CAD programme may be considered for inclusion under project proposals in MMI sector. This program needs to be implemented at faster pace on a large scale.

- The formation of WUAs under PIM is mandatory for implementation of CAD & WM. The states which have not enacted PIM acts should be pursued to do the needful at the earliest. Incentives may be provided for activities of WUAs.

- The WUAs should include women members from land owning house holds in the command area, irrespective of their ownership of land.

- Practice of night irrigation should be popularized and introduced as policy in irrigation management.

- State Governments may institute Water Regulatory Authorities for fixing water rates.

- While undertaking construction of dams, adequate flood cushion may be provided in reservoirs. If required, the Central Government may provide necessary support for the same.

- Setting up of National Flood Management Commission/Board to oversee overall flood management in the country.

- Projects on interlinking of rivers should be expedited.

- Training and capacity building scheme for State/Central Govt. officials may be made comprehensively.

Chapter-IV: Sector reforms for optimal benefits

This chapter has mainly addressed the issues relating to planning and implementation of projects. Need for periodic performance review of irrigation sector through internal establishment as well as external agencies has been emphasised in this chapter which should be the basis for initiating sectoral reform process. Some important suggestions in this chapter are as under:

- ✓ The planning model for water resources development may be shifted from zonal planning to basin wise planning, for which River Basin Organizations should be constituted.

- ✓ Project Appraisal should be made mandatory before execution of projects.

- ✓ In view of inordinate delay in completion of project, the following suggestions may be given due consideration;

  i. Project Authorities may go for turn-key contracts.
  ii. There should be more balanced conditions and arbitration clauses.
  iii. State Govts. may create separate non-lapsable funds, different from the main capital fund of the State, against the projects contracted for fast track completion.

- ✓ There should be proper legislation for dam safety measures.
- ✓ The water resources projects must be considered as national assets and there should be a platform such as Water Regulatory Authority to timely and effectively settle all inter-state issues in national perspective.
- ✓ Institutional strengthening in irrigation and flood control sectors is essential.

Chapter-V: Size of the XI Plan

Under this chapter overall size of the XI Plan has been summarized after incorporating each sectoral demand exclusively. Summary of allocations is given below:

The overall outlay for the XI Plan has been proposed as under:

	Rs.in crore.
State Plan	**182050**
Central Plan	**49750**
Total	**231800**

The physical targets set to each sector are as follows:

A . MMI Sector

Creation of irrigation Potential - 9.00 mha

B. MI Sector:

Creation of irrigation potenial

i) Surface Water - 1.5 mha
ii) Ground Water - 4.5mha
iii) Restoration of Water Bodies etc. - 1.0 mha
Total - 7.0 mha

C. CAD Sector:

i) Development of CCA (CADWM Programme) - 3.5 mha
ii) Correction of Conveyance Deficiency - 6.25 mha
ii) Reclamation of waterlogged Saline & Alkaline Lands - 0.5 mha.

D. Flood Control & Drainage Sector:

Area to be protected against Flood - 2.178 mha

Cost of Creation of Irrigation Potential in XI Plan:

MMI		
Outlay under State sector (Rs. cr.)	**153000**	
Targeted potential creation (mha)	**9.00**	
Cost of creation of irrigation potential (Rs./ha)		**170000**
MI		
Surface Water		
Outlay (Rs. cr.)	**13500**	
Targeted potential creation (mha)	**1.50**	
Cost of creation of irrigation potential(Rs./ha)		**90000**
Ground Water		
Outlay (Rs. cr.)	**20250**	
Targeted potential creation (mha)	**4.50**	
Cost of creation of irrigation potential (Rs./ha)		**45000**
RRR of Water Bodies		
Outlay (Rs. cr.)	**11000**	
Targeted potential creation (mha)	**1.00**	
Cost of creation of irrigation potential (Rs./ha)		**110000**

Employment Generation:

The scope of employment generation including both direct and indirect employment has been assessed to be as under:

(Million person–years)

	Direct employment	Indirect employment
MMI	2.1	10.1
MI	5	1.05
Flood Control	2.5	-
Total :	9.6	11.15

Growth in Food Grain Production:

Growth in food grain production after creation of irrigation potential as per the target set in XI Plan and its subsequent utilization is likely to be about 25 million tonne.

CHAPTER - 1

AN OVERVIEW OF IRRIGATION DEVELOPMENT & FLOOD MANAGEMENT

1.1 Introduction:

Irrigation, whether major, medium or minor – from surface water sources or from ground water; flood control; and hydro-power generation – of any size; all are essentially interventions in the land based component of the hydrologic cycle. The requirements of water for various uses and the necessity of flood control determine the need for such interventions; whereas natural parameters, availability of funds, environment and social factors, considerations of sustainability and ideological issues, are the constraints to the interventions. In India, irrigation has always been, and will always remain, the largest user of water. Therefore, water resources development and management is largely dictated by the needs of irrigation.

The history of irrigation development in India dates back to prehistoric times as recorded in Vedas and other ancient Indian scriptures. The modern method of irrigation development started in India during British rule. The net irrigated area in the Indian sub continent at the time of independence was about 28.2 million hectare **(mha**). However, at the time of independence, India was still a land of flood and famine. In the British regime, there was no concerted effort ever attempted to tackle these twin evils in the water resources sector. After commencement of the planned developments only since 1951, the problems of flood and famine got duly addressed.

In the initial phase of water resources development during the plan period after independence, rapid harnessing of water resources was the prime objective. The State Governments were encouraged to expeditiously formulate and develop water resources projects for irrigation, flood control, hydro-power generation, drinking water supply, industrial and other miscellaneous uses, and a large number of dams, barrages, hydro-power structures, canal network etc. were constructed all over the country in successive Five Year Plans. The storage backed projects provide *assured* irrigation, hydro-power generation, water for domestic and industrial use, and also enabled flood moderation. The net impact of all these measures are: despite a three fold increase in the population since independence, India is now self sufficient in food production, has sufficient buffer stock of food grains to be able to bear the brunt of consecutive years of drought; and is also moderately exporting food grains. The target now is to grow enough food and fiber for a population of over 1000 millions now, and around 1600 millions in the year 2050. It is also important that agriculture provides livelihood for 65% of the population, and irrigated agriculture is essential for poverty alleviation.

1.2 Water Availability:

Water resources potential of the country has been assessed from time to time by different agencies. The assessment of 1869 km^3 (or **Billion Cubic Metre i.e. BCM**) of Central Water Commission (**CWC**) carried out in1993 is generally considered as reliable. The different estimates are shown in Table 1.1. It may be seen that since 1954, the estimates have stabilized and are within in proximity of the currently accepted estimate of 1869 km^3.

Table 1.1: Estimates of Water Resources of India

Agency	Estimate in **km^3**	Deviation from 1869 **km^3**
First Irrigation Commission (1902-03)	1443	- 23 %
Dr. A.N. Khosla (1949)	1673	-10%
Central Water & Power Commission (1954-66)	1881	+ 0.6%
National Commission on Agriculture	1850	- 1 %
Central Water Commission (1988)	1880	+ 0.6 %
Central Water Commission (1993)	1869	

1.3 Utilizable Water Resources Potential:

Within the limitations of physiographic conditions, socio political environment, legal and constitutional constraints and the technology available at hand, the utilizable water resources of the country have been assessed at 1123 km^3, of which 690 km^3 is from surface water and 433 km^3 from ground water sources. Harnessing of 690 km^3 of utilizable surface water is possible only if matching storages are built to the required extent. Trans-basin transfer of water, if taken up to the full extent as proposed under the National Perspective Plan, would further increase the utilizable quantity by approximately 200 km^3. The irrigation potential of the country has been estimated at around 139.9 **mha** without inter-basin sharing of water, and 175 **mha** with inter-basin sharing.

The Central Ground Water Board (CGWB) has estimated that it is possible to increase the ground water availability by about 36 km^3, by taking up rainwater harvesting and artificial recharge over an area of 45 mha through non-committed surplus monsoon runoff. Thus the groundwater availability may correspondingly increase. In July 2006 the Ministry of Water Resources (**MoWR**) has constituted an Advisory Council for Artificial Recharge of Ground Water to advice the Central Ground Water Board in all the related matter.

1.4 Sectoral Demand of Water:

Water requirement for various sectors as assessed by MoWR's "Standing Sub-Committee for assessment of availability and requirement of water", (year 2000), and by the NCIWRD, is shown in the **Table-1.2**.

Irrigation requirement estimated by NCIWRD is on a lower side as compared to that estimated by the Standing Sub-Committee because NCIWRD assumed that the irrigation efficiency will increase to 60% from the present level of 35 to 40%.

Table 1.2: Water Requirement for Various Sectors

Sector	Water Demand in km^3 (or BCM)					
	Standing Sub-Committee of MoWR			NCIWRD		
Year	2010	2025	2050	2010	2025	2050
Irrigation	688	910	1072	557	611	807
Drinking Water	56	73	102	43	62	111
Industry	12	23	63	37	67	81
Energy	5	15	130	19	33	70
Others	52	72	80	54	70	111
Total	**813**	**1093**	**1447**	**710**	**843**	**1180**

In view of likely improvement in irrigation efficiency, the recommendation of NCIWRD has been accepted.

1.5 Flood Problem:

Flood is one of the natural calamities that India faces almost every year in varying degree of magnitude. The frequent occurrence of flood can be attributed to various factors, including wide variation in rainfall over time and space and inadequate carrying capacity of rivers. The problems get accentuated due to silting, bank erosion, landslide, poor natural drainage, glacial lake outburst, etc. Indiscriminate development and encroachment of flood plain areas, improper planning & construction of roads, railway lines, etc. have also been responsible for increase in flood damages. Total flood prone area in the country, as per the Report of Rashtriya Barh Aayog (RBA) of 1980, is 40 mha. This has now been reassessed to 45.36 mha. On an average, an area of 7.55 mha is affected by floods every year and the average annual flood damage is Rs. 1,805 crore.

Flood management, ideally, does not aim at total elimination or control of floods or providing total immunity from the effects of all magnitudes of floods, which is neither practicable from economic considerations nor even necessary, keeping in view other realities that are faced in the Indian context. Thus, a multi pronged strategy ranging from modifying the floods by means of structural measures to learning to live with the floods by means of other non structural measures is well within pragmatic realism in flood management. Measures for protection against extreme floods of low frequency are seldom economically feasible. The term `flood management' may rationally be expected to refer to the provision of a reasonable degree of protection against floods by structural/non-structural measures to mitigate the recurring havoc caused by floods.

During the five decades of plan period, different methods of flood protection, both long term and short term, have been adopted by different States depending upon the nature of problem and local conditions. As at present, total area of about 18 mha has been provided with reasonable degree of flood protection through various structural/non-structural measures.

Apart from the direct flood control works, reservoirs with specific flood cushion have been constructed on the Damodar river to provide protection to areas in the downstream. In addition, storages constructed across Mahanadi (at Hirakud), Sutlej (at Bhakra), Chambal (at

Gandhi Sagar), Brahmani (at Rengali) and Tapi (at Ukai) as also a number of other major and medium reservoirs, have helped greatly in reducing the intensity of flood and flood damages.

In addition to the structural flood protection measures, non-structural measures like flood forecasting and warning of incoming floods have also played a significant role in reducing the loss of life and movable property apart from alerting the civil and engineering authorities in-charge of various works to take appropriate advance action to fight the onslaught of floods. The Central Water Commission manages a major network of such flood forecasting stations on inter-state rivers in 18 states. The techniques of observation of hydrological and hydro-meteorological data and their transmission to the forecasting station have been constantly under review and updation. Similarly, inflow forecasting activity is also constantly being reviewed for making necessary improvements to make the forecasts more accurate and also to give higher lead time.

1.6 National Water Policy:

As per List-II – State list, Seventh Schedule of the Indian Constitution, water is a State subject. Therefore, water resources projects for irrigation and flood control are formulated, designed, executed, owned and operated by the State Governments. However, this is subject to the provisions of entry of List-I – Union List, wherein Union Government has been given powers to regulate and develop inter-State rivers and river valleys to the extent such regulation and development under the control of Union is declared by Parliament by Law to be expedient in public interest. Further Economic and Social Planning has been included in List-III – Concurrent List, Item 20. The **National Water Resources Council** was set up in March 1983 to frame policy and coordinate action at the central level. The Prime Minister is the Chairman of NWRC, Union Minister of Water Resources is the Vice-Chairman and concerned Union Ministers, Chief Ministers of all the States and Administrators or Lt. Governors of the Union Territories are Members. Secretary, Ministry of Water Resources is the Secretary of NWRC. One of the functions of the NWRC is to formulate the **N**ational **W**ater **P**olicy (**NWP**) and to review it from time to time. Accordingly, the first NWP was adopted in 1987 and was revised in April 2002. Full text of the NWP can be read at http://wrmin.nic.in/policy/nwp2002.pdf. Some salient features of the NPW 2002 are:

- The NWP defines water as a prime natural resource, a basic human need and a precious national asset, to be planned, developed, conserved and managed in an integrated and environmentally sound basis, keeping in view the socio-economic aspects and the needs of the States. It recognizes water as a crucial element in developmental planning, to be managed in a sustainable manner and guided by the national perspective. Water as a resource is one and indivisible: rainfall, river waters, surface ponds and lakes and ground water are all part of one system.
- It acknowledges integrated and coordinated development of surface and ground waters and their conjunctive use, the socio-economic, environmental and sustainability issues in water resources development; need for appropriate resettlement and rehabilitation of project affected people; problems of time and cost over runs in project construction; problems of salinity and water logging in some irrigation commands; and issues of equity and social justice in water distribution; and stipulates that all these concerns need to be addressed on basis of common policies and strategies.
- It acknowledges the importance of all types of practices, the traditional practices like rainwater harvesting, preservation of forests; the modern conventional practices like

water shed management, soil conservation; and the modern non-conventional methods like inter-basin sharing of water, artificial recharge of ground water and desalination of sea water.

- It emphasizes multi-sect- oral, multi-disciplinary planning with participatory approach, for the entire river basin.
- The water allocation priorities are drinking water, irrigation, hydro-power, ecology, industrial use and navigation, in that order. It specifically stipulates that drinking water requirement shall be first charge on any available water.
- It encourages participation of private sector in planning, development and management of water resources projects with a view to introduce innovative ideas, generate financial resources, and bring in better management practices. All models of private sector participation, *viz.* build, own, operate and transfer, are acceptable.
- It recommends water sharing and distribution amongst States guided by a National perspective with due regards to the availability and needs within a basin.
- It stipulates that there is an urgent need for paradigm shift from creation of new projects to improvement of the performance of existing projects.

In the context of flood control and management, the NWP of 2002 has recommended the following guiding principles:

- There should be a master plan for flood control and management for each flood prone basin.
- Adequate flood-cushion should be provided in water storage projects, wherever feasible, to facilitate better flood management. In highly flood prone areas, flood control should be given overriding consideration in reservoir regulation policy even at the cost of sacrificing some irrigation or power benefits.
- While physical flood protection works like embankments and dykes will continue to be necessary, increased emphasis should be laid on non-structural measure such as flood forecasting and warning, flood plain zoning and flood proofing for the minimization of losses and to reduce the recurring expenditure on flood relief.
- There should be strict regulation of settlements and economic activity in the flood plain zones along with flood proofing, to minimize the loss of life and property on account of floods.
- The flood forecasting activities should be modernized, value added and extended to other uncovered areas. Inflow forecasting to reservoirs should be instituted for their effective regulation.
- The erosion of land, whether by the sea in coastal areas or by river waters inland, should be minimized by suitable cost-effective measures. The States and Union Territories should also undertake all requisite steps to ensure that indiscriminate occupation and exploitation of coastal strips of land are discouraged and that the location of economic activities in areas adjacent to the sea is regulated.

- Each coastal State should prepare a comprehensive coastal land management plan, keeping in view the environmental and ecological impacts, and regulate the developmental activities accordingly.

1.7 Population Growth and Food Grain Requirement:

The National Commission for Integrated Water Resources Development (NCIWRD) has adopted figures of 1581 million and 1346 million as the high and low projection of population by the year 2050 where it is assumed will get stabilized. In their estimate urban population in the year 2050 is likely between 646 million and 971 million. The total food requirement for the country has been estimated as 449 million tonne (high demand scenario) and 382 million tonne (low demand scenario). Feed requirement, losses in storage and transportation, seed requirement and carry over for years of monsoon failure have been estimated at 12.5% of food grain production. Thus the food grain production is required to be double to about 420 million tonne from the present level of about 210 million tonne to meet the projected requirement. Thus on an average, food grain production needs to be enhanced by around 5 million tonne per year. Accordingly targeted growth of 25 million tonne in food grain production is to be achieved in XI Plan.

1.8 Sustainable Development:

Sustainable use is defined as one where the present generations utilize a natural resource in a manner that will not compromise the ability of the future generations to use the same resource. Few human activities are sustainable in the long term. All mineral resources, coal, petroleum, metal ores and others, exist in finite quantities and any use of these resources, no matter how miniscule, will eventually leave some future generations without coal, petroleum, or metal ores. In case of some resources, like fossil fuels, the end is being placed as close as 50 years from now. If sustainability was sacrosanct, then mankind should immediately stop using any of these resources. This is clearly impossible. It follows that sustainability is not to be seen as an end in itself, and any discussion on sustainability can only be in the context of a definite time frame, e.g. it may be possible to achieve sustainable use of coal for a specified duration, say next 50 years, or 75 or 100 years, but it may not be possible to achieve sustainable use of coal for all times to come.

Water is a renewable resource and it is possible to develop sustainable water use provided the quality of water is not compromised. The life of a project is, however, not sustainable indefinitely, but the span of sustainability can be prolonged for a reasonably long period with judicious operation and maintenance of the system.

A water use practice that is sustainable under one climatic regime may become unsustainable in the likely event of climate change, causing fluctuations in water tables and stream flows depending on the quantity of rainfall and its temporal distribution. If there are major and long term changes in the climate, the resulting changes in the environment can not be prevented. And it is obviously not possible to plan our water use now so as to achieve sustainability in a future regime that is not yet known.

1.9 Water For Nature:

The question of a tradeoff between competing uses of water becomes most intransigent in the context of ecological requirement. The NWP places ecology in the fourth place in order of priorities for water use. Yet, there is a general agreement amongst all that any water diversion

needs to take care of river ecosystem downstream. The problem is quantifying the flow required for ecosystems, the Environment Flow Releases (EFR).

Any attempt to preserve the river ecology in its totality amounts to saying that there should be no abstraction from the river, because life forms tend to develop in every possible niche and even the smallest abstraction will affect some niche. But “no abstraction” is clearly an untenable proposition. Some part of the river ecology will have to be traded off against the development needs. However, it is difficult to predict what must be protected at all costs, and what can possibly be traded off. Consequently, all over the world, EFR is determined on ad hoc assumptions.

In 2004-05, the Ministry of Environment and Forests appointed a committee headed by Member (RM), CWC to develop guidelines for determining the EFR. The committee submitted its report in 2005. Depending on what the final accepted recommendation is, the minimum flow required for maintaining the river regime and environment will be decided and considered in water resources development and management. With the creation of reservoirs it will be possible to maintain the desired minimum flow even in non-perennial rivers.

1.10 Climate Change:

The impending climate change, caused by the green house gases emissions, is now an established fact. The meteorologists have developed a set of mathematical models known as General Circulation Models (GCM). These models can be used to simulate the behavior of the atmosphere and paint “what if” scenarios for various levels of GHG emissions. Using these models, the weather experts have predicted that global warming will intensify the hydrologic cycle; more intense rainfall will occur in fewer spells; the floods and droughts both will become more intense; the floods will be more frequent; the rainfall will shift towards winter; and there may be a significant reduction in the glaciers mass, resulting in increased flows in the initial few decades but substantially reduced flows thereafter.

So far, the discussion on climate change is mostly taking place in the domain of atmospheric physics. The hydrologists are yet to translate what it means for the water availability, its distribution in time and space, and changes in demand. An increase in mean temperatures would increase the energy flux for evapo-transpiration. The increased potential evapo-transpiration in the forests could trigger major changes in the environment, and in the farms it would result in an increased crop water requirement. The changes in seasonal temperatures could change the crop seasons. The discussion on climate change is now emerging out of descriptive phase and entering the quantitative phase. Enough data is now available to paint “what if” scenarios for different possibilities, and to formulate some tentative plans to respond to these possibilities.

It is an accepted fact that even in the post climate change scenario, systems that are more controlled will fare better than systems that are less controlled. In water resources parlance, control means engineering infrastructure that enables the water managers to store and transfer water with greater certainty, thus reducing the impact of uncertainty. Therefore, dealing with climate change is going to require more infrastructures.

1.11 Water Quality :

It is the water quality, and not merely the quantity, that is more crucial in the context of sustainability. The water quality in many rivers is very poor due to discharge of untreated

sewage and industrial effluents in the river. The pollution makes any existing flow also useless. Pollution of ground water is even more serious because if the aquifer is polluted, it is extremely difficult to clean it. Therefore, there should be no compromise on the issue of prevention of pollution and improvement in Water Quality.

1.12 Financial Sustainability:

A number of projects are in dilapidated states for want of adequate maintenance. As per the National Water Policy and also the recommendations of various financial committees set up by the Government from time to time, irrigation water rates should be adequate to cover at least the annual O&M costs of the facility. This is a complex issue that needs to be tackled more at the political and administrative levels. Presently, it needs to be noted that O&M of the infrastructure deserves more attention than what it presently receives.

1.13 Present Status of Planned Development:

1.13.1 Ultimate Irrigation Potential, Potential Created and Utilized:

As per the reassessment of the Committee constituted by MoWR in May 1997, the currently accepted figures of Ultimate Irrigation Potential (UIP) and Potential Created (PC) & Potential Utilized (PU) up to IX Plan are given in Table 1.3.

Table 1.3: Ultimate Irrigation Potential, Potential Created and Potential Utilized in mha

Sector	Ultimate Irrigation Potential	Potential Created		Potential Utilized	
		Till IX Plan	Anticipating in X Plan	Till IX Plan	Anticipating in X Plan
Major & Medium Irrigation (MMI)	58.47	37.05	5.3	31.01	3.41
Minor Irrigation (MI)					
(a) Surface Water	17.38	13.6			
(b) Ground Water	64.05	43.3			
Sub Total:	81.43	56.9	3.52	49.99	2.82
Total	139.9	93.95	8.82	81.00	6.23

The assessment of Ultimate Irrigation Potential needs to be periodically reviewed to account for care of revision in scope, technological advancement, inter basin transfer of water, induced recharging of ground water, etc.

1.13.2 Plan-wise creation/utilization of irrigation potential :

The Plan-wise potential created and utilization is shown in **Table 1.4.**

Table 1.4 : Plan-wise Position of Irrigation Potential Created and Utilized (mha)

Plan		Potential created					Potential Utilised				
		Major & Medium	Minor			Total	Major & Medium	Minor			Total
			S.W	G.W	Total			S.W	G.W	Total	
Upto 1951 (Pre-Plan)	Cumulative	9.70	6.40	6.50	12.90	22.60	9.70	6.40	6.50	12.90	22.60
I Plan (1951-1956)	During	2.50	0.03	1.13	1.16	3.66	1.28	0.03	1.13	1.16	2.44
	Cumulative	12.20	6.43	7.63	14.06	26.26	10.98	6.43	7.63	14.06	25.04
II Plan (1956-1961)	During	2.13	0.02	0.67	0.69	2.82	2.07	0.02	0.67	0.69	2.76
	Cumulative	14.33	6.45	8.30	14.75	29.08	13.05	6.45	8.30	14.75	27.80
III Plan (1961-1966)	During	2.24	0.03	2.22	2.25	4.49	2.12	0.03	2.22	2.25	4.37
	Cumulative	16.57	6.48	10.52	17.00	33.57	15.17	6.48	10.52	17.00	32.17
Annul Plans (1966-1969)	During	1.53	0.02	1.98	2.00	3.53	1.58	0.02	1.98	2.00	3.58
	Cumulative	18.10	6.50	12.50	19.00	37.10	16.75	6.50	12.50	19.00	35.75
IV Plan (1969-1974)	During	2.60	0.50	4.00	4.50	7.10	1.64	0.50	4.00	4.50	6.14
	Cumulative	20.70	7.00	16.50	23.50	44.20	18.39	7.00	16.50	23.50	41.89
V Plan (1974-1978)	During	4.02	0.50	3.30	3.80	7.82	2.70	0.50	3.30	3.80	6.50
	Cumulative	24.72	7.50	19.80	27.30	52.02	21.16	7.50	19.80	27.30	48.46
Annual Plans (1978-1980)	During	1.89	0.50	2.20	2.70	4.59	1.48	0.50	2.20	2.70	4.18
	Cumulative	26.61	8.00	22.00	30.00	56.61	22.64	8.00	22.00	30.00	52.64
VI Plan (1980-1985)	During	1.09	1.70	5.82	7.52	8.61	0.93	1.01	4.24	5.25	6.18
	Cumulative	27.70	9.70	27.82	37.52	65.22	23.57	9.01	26.24	35.25	58.82
VII Plan (1985-1990)	During	2.22	1.29	7.80	9.09	11.31	1.90	0.96	6.91	7.87	9.77
	Cumulative	29.92	10.90	35.62	46.52	76.44	25.47	9.97	33.15	43.12	68.59
Annual Plans (1990-1992)	During	0.82	0.47	3.27	3.74	4.56	0.85	0.32	3.10	3.42	4.27
	Cumulative	30.74	11.46	38.89	50.35	81.09	26.31	10.29	36.25	46.54	72.85
VIII Plan (1992-1997)	During	2.21	1.05	1.91	2.96	5.17	2.13	0.78	1.45	2.23	4.36
	Cumulative	32.95	12.51	40.80	53.31	86.26	28.44	11.07	37.7	48.77	77.21
IX Plan (1997-2002)	During	4.10	1.09	2.50	3.59	7.69	2.57	0.37	0.85	1.22	3.79
	Cumulative	37.05	13.60	43.30	56.90	93.95	31.01	11.44	38.55	49.99	81.00
X Plan (2002-2007)*	During	5.30	0.71	2.81	3.52	8.82	3.41	0.56	2.26	2.82	6.23
	Cumulative	42.35	14.31	46.11	60.42	102.77	34.42	12.00	40.81	52.81	87.23

** Tentative*

1.13.3 Plan-wise expenditure incurred in Irrigation and Flood Control Sectors**:**

The Plan-wise expenditure incurred on Irrigation and Flood Control Sectors is shown in **Table 1.5.**

Table 1.5 : Plan-wise expenditure on Irrigation & Flood Control Sectors

Sl.No.	Plan Period	Major & Meidum Irrigation (Rs.in crore)	MI/ MI &CAD	Total Irrigation (Rs.in crore)	Flood Control	Total Plan Expenditure All Sectors (Rs. in crore)	Percentage expenditure on Irrigation
1	First (1951-56)	376.2	65.6	441.8	13.2	1960	22.54
2	Second (1956-61)	380.0	161.6	541.6	48.1	4672	11.59
3	Third (1961-66)	576.0	443.1	1019.1	82.1	8577	11.89
4	Annual (1966-69)	429.8	560.9	990.7	42	6625	15.04
5	Fourth (1969-74)	1242.3	1173.4	2415.7	162	15779	15.31
6	Fifth (1974-78)	2516.2	1409.6	3925.8	298.6	28653	14.22
7	Annual (1978-80)	2078.6	1344.9	3423.5	330	22950	14.27
8	Sixth (1980-85)	7368.8	4159.9	11528.7	787	109292	10.55
9	Seventh (1985-90)	11107.3	7626.8	18734.1	941.6	218730	8.56
10	Annual (1990-92)	5459.2	3649.5	9108.7	460.6	123120	7.4
11	Eighth (1992-97)	21071.9	13885.3	34957.2	1691.7	483060	7.59
12	IX Plan (1997-02)	49289.0	13760	63049.0	3038	941041	6.7
13	X Plan (2002-07) Outlay	71213.0	24521.4	95734.4	5965	1525639	6.28

1.13.4 Plan-wise proliferation of Schemes:

The numbers of major & medium projects taken up and completed in different plan periods are given in **Table 1.6**.

Table 1.6: Plan-wise proliferation of Schemes in MMI Sector

	Major Projects		Medium Projects		ERM Projects		Total Projects	
	Taken Up	Completed	Taken Up	Completed	Taken Up	Completed	Taken Up	Completed
Pre Plan	74	74	143	143	0	0	217	217
I Plan (1951-56)	44	5	165	34	12	3	221	42
II Plan (1956-61)	33	20	102	85	5	5	140	110
III Plan (1961-66)	32	11	44	61	7	7	83	79
Annual Plan (1966-69)	11	5	27	43	1	3	39	51
IV Plan (1969-74)	33	15	74	62	7	4	114	81

	Major Projects		Medium Projects		ERM Projects		Total Projects	
	Taken Up	Completed	Taken Up	Completed	Taken Up	Completed	Taken Up	Completed
V Plan (1974-78)	68	6	303	70	20	1	391	77
Annual Plan (1978-80)	11	2	55	18	3	2	69	22
VI Plan (1980-85)	31	30	89	138	37	4	157	172
VII Plan (1985-90)	11	14	36	137	24	15	71	166
Annual Plan (1990-92)	2	7	0	12	0	8	2	27
VIII Plan (1992-97)	19	9	72	48	30	22	121	79
IX Plan (1997-2002)	32	30	38	66	27	13	97	109
Project shifted from Maj. to Med.	-2		+2					
Projects deferred/ shifted as New	-6		-4		-4			
X Plan (2002-07)*	49	48	84	91	46	39	179	178
Total	442	276	1230	1008	215	126	1887	1410

* Anticipated Figures

1.13.5 Flood Management Works:

In India, embankment as a measure to provide protection against inundation, has been resorted to for centuries. Since these embankments were mostly constructed on small scale and in piecemeal manner to give relief to specific localities, these were often neither systematically planned nor scientifically designed. The area protected prior to 1954 by works which were existing in some of the States was around 3 mha. After the disastrous floods experienced in the country in 1954, a National Programme of Flood Management was launched. During the five decades since then, different methods of flood protection, both long term and short term, have been adopted in different States depending upon the nature of problem and local conditions. The available information compiled from details furnished by the States relating to length of embankment and drainage channels indicates that 33929 km of embankments and 38810 km of drainage channels have been constructed. In addition, 2,458 town protection works have been completed and 4,716 villages raised above flood levels. Barring occasional breaches in embankments, these works have given reasonable protection to an area of about 18.22 mha. In addition to the specific structural works, the flood cushion and flood routing through the existing reservoirs have also been playing significant role in flood moderation.

1.14 Command Area Development and Water Management:

It was observed during late sixties that a gap between potential creation and potential utilization had been persistently continuing. So, in order to close-in the gap, the Command Area Development Programme (CAD) initiated in 1974 and subsequently restructured as Command Area Development and Water Management (CADWM) Programme during 2004 aims to optimize agriculture production and productivity through efficient land and water management in the irrigated commands. The objective of the CADWM Programme continues to bridge the gap between irrigation potential created and utilization thereof. During the last three decades of its

operation at micro level, an area of around 17 million ha has been covered under this programme and warabandi has been carried out in about 11 million ha for equitable distribution of water among all the land holders, till the end of IX Plan. Another 2 mha of benefited areas is likely to be added by the end of X Plan. Under the restructured CADWM Programme, new components like correction of system deficiency, renovation and de-silting of minor irrigation tanks, and reclamation of water logged areas through bio-drainage techniques have been added. The CADWM needs to be implemented at a faster pace and on a larger scale.

1.15 Participatory Irrigation Management:

National Water Policy, 2002 has emphasized that the management of water resources should incorporate a participatory approach by involving not only the Government agencies but also all stakeholders in various aspects of planning, design and management. Recognizing the need for legal framework for Participatory Irrigation Management (PIM), the Ministry of Water Resources (MoWR) has brought out a model act to be adopted by the States for this purpose. So far 11 States namely Andhra Pradesh, Assam, Bihar, Goa, Madhya Pradesh, Maharashtra, Karnataka, Kerala, Orissa, Rajashtan and Tamil Nadu have either enacted new act or amended the existing irrigation act to facilitate PIM. Presently more than 61,000 Water Users' Associations (WUAs) have been formed in 23 States covering an area of about 12.55 million ha. Some of the remaining States have been encouraging participation of farmers in Irrigation Management at outlet level under cooperative/society acts. Despite this progress, PIM is not working effectively in all States. The constraints in implementing the PIM effectively like deficiencies in the irrigation supply system, lack of training and leadership, cooperation of Irrigation Departments, etc. need to be addressed adequately.

1.16 Public Private Partnerships:

The National Water Policy of 2002 (NWP) recommends private sector participation i.e. Public-Private–Partnership. In this regard paragraph 13 of the NWP is reproduced below:

> "Private sector participation should be encouraged in planning, development and management of water resources projects for diverse uses, wherever feasible. Private sector participation may help in introducing innovative ideas, generating financial resources and introducing corporate management and improving service efficiency and accountability to users. Depending upon the specific situations, various combinations of private sector participation, in building, owning, operating, leasing and transferring of water resources facilities, may be considered".

This involves some complex issues, e.g. controlling the private operator's access to water; protecting the interests of other competing users from the same source of water; guarding the interests of the poor at the supply end; ensuring stated quality of service under monopoly conditions; limiting the profit made by the private operator to reasonable levels; defining what are reasonable levels of profit; etc.

CHAPTER-2

PERFORMANCE REVIEW OF THE X PLAN

2.1 Pre-X Plan Status of Developments:

2.1.1 Irrigation:

In India, with the constitution of the Planning Commission in 1950 and the advent of planning process, in the first five year plan (1951-56) the country launched a major irrigation programme. A number of multipurpose and major projects such as Bhakra Nangal, Nagarjunasagar, Kosi, Chambal, Hirakund, Kakrapar and Tungbhadra were taken up. Simultaneously, minor irrigation schemes including ground water were given emphasis under the Agricultural Sector, along with financial assistance from the Centre.

During the period of Second Five Year Plan (1956-61), Third Five Year Plan (1961-66) and the Three Annual Plans (1966-69), irrigation programmes continued with addition of new projects.

During the Fourth Five Year Plan (1969-74), the emphasis was shifted to the completion of ongoing projects, integrated use of surface and ground water, adoption of efficient management techniques and modernization of existing schemes. However, new projects continued to be added.

During the Fifth Plan (1974-78), Command Area Development Programme was launched as a Centrally Sponsored Scheme with the objective of reducing the lag between potential created and optimum utilization of available land and water. Initially, 60 major and medium projects were covered with a CCA of 15 mha.

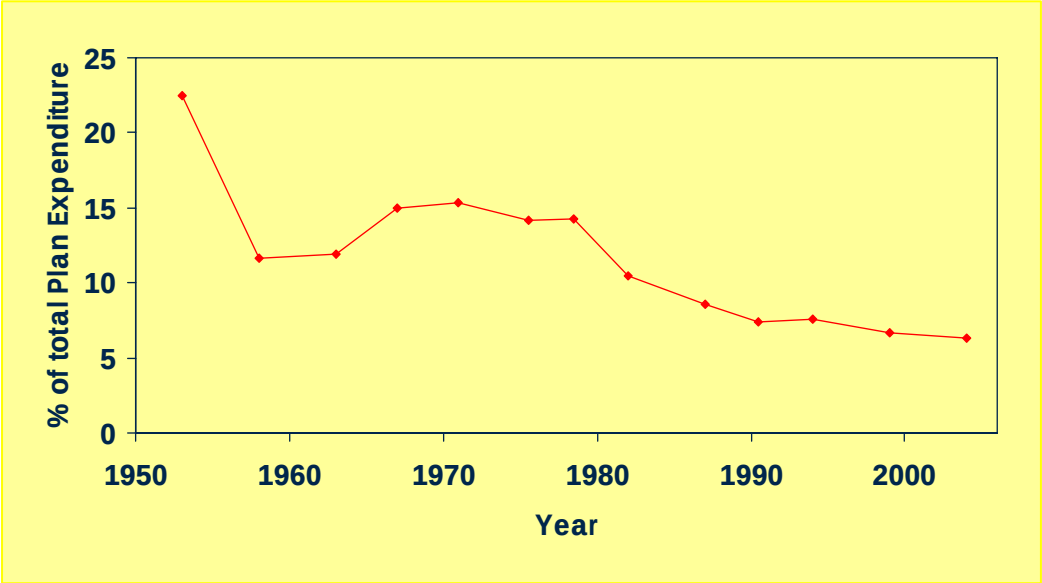
During the Annual Plans of 1978-80 and the Sixth Five Year Plan (1980-85), 'new starts' continued and at the end of Seventh Plan, there were as many as 182 major and 312 medium ongoing projects requiring an estimated amount of Rs. 39,044 crore at the 1990-91 price level for their completion. 'New starts' were, therefore, restricted considerably and greater emphasis was laid on completion of projects, which were in the advanced stages of completion (those with an expenditure of 75 percent or more). This was continued during 1990-91 & 1991-92 Annual Plans, VIII Plan (1992-97) and IX Plan (1997-2002).

For speedy completion of ongoing projects in advance stage of construction Accelerated Irrigation Benefit Programme (AIBP) was launched in 1996-1997. During VIII Plan period irrigation potential of 2.22 mha was created under major and medium sector at an annual rate of 0.44 mha per annum. During IX Plan period this increased to 4.12 mha out of which 1.65 mha (nearly 40%) was through AIBP. Renovation, Modernization and Rehabilitation of old irrigation schemes gained momentum. User's participation in major and medium irrigation schemes received greater attention. Repairs and improvement to the minor irrigation projects, as a part of integrated micro-development, also received encouragement. Similarly, sprinkler and drip irrigation programmes and the conjunctive use of surface and ground water gained momentum. The projects completed, along with minor irrigation and ground water development, have created an estimated potential of about 93.95 mha by the end of the IX Plan.

Although plan expenditure on irrigation has increased from Rs.441.8 crore in the Ist Plan to Rs. 95743.42 crore (outlay) in the X Plan, the share in total plan expenditure has decreased

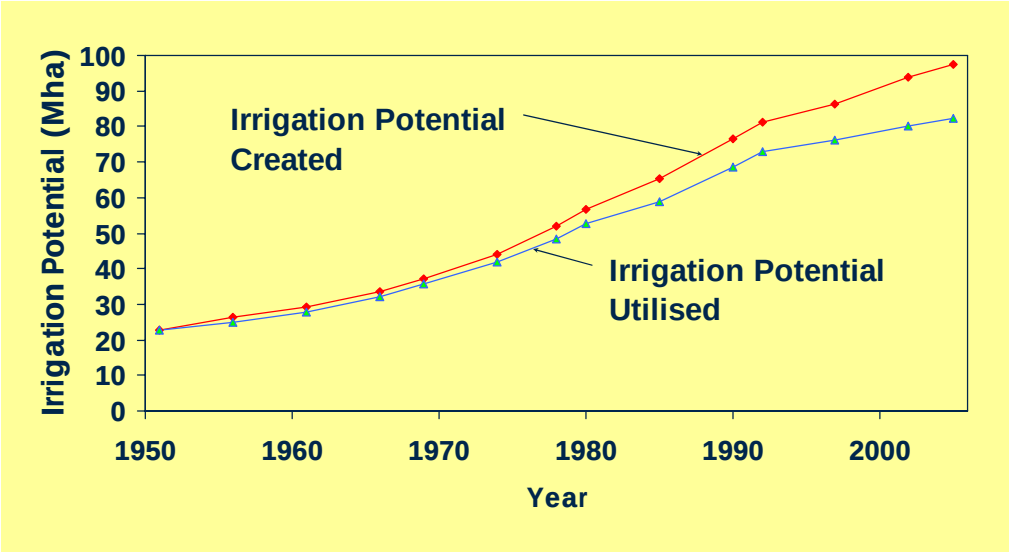
from 23% in the Ist Plan to 6.3% in the X Plan. The trend in change of percent of total plan expenditure on irrigation sector is shown in **figure 2.1.**

Figure 2.1 :Expenditure on Irrigation



The created irrigation potential increased from 22.6 mha (9.7 mha through major & medium and 12.9 mha through minor irrigation) in preplan period to 93.95 mha (37.05 mha through major and medium and 56.9 mha through minor including ground water schemes) upto the end of IX Plan with an annual average growth of 1.4 mha. In the corresponding period the potential utilization has been from 22.6 mha period to 81.00 mha. The pattern of irrigation potential creation and its corresponding utilization during the plan period is shown in **figure 2.2**.

Figure 2.2: Irrigation Potential – Created & Utilised



2.1.2 Flood Control/Management**:**

The area protected from floods prior to 1954 was around 3 mha only. National Programme of Flood Management was launched after the disastrous flood experienced in 1954 and different methods of flood protection have been adopted in different States depending upon the nature of problem and local conditions. The National Flood Commission (RBA) was constituted in 1976 to study in depth the systematic approach towards programmes of flood control measures, effectiveness of the works so far carried out and to recommend future measures and National Policy to be adopted to progressively mitigate the miseries of floods. The RBA made 207 recommendations. Some of the measures recommendations are brought out as under:

- Data collection for providing information on their long term performance and their impact on various socio-economic factors.

- Legislation and enforcement by States to prevent unauthorized river bed cultivation and encroachments into drains, management of flood plains etc.

- Separate reporting of flood damage for (i) Unprotected areas (ii) Protected areas and (iii) Areas situated between the embankments.

- A comprehensive dynamic and flexible approach to the management of floods as a part of a comprehensive approach for the utilization of land and water resources.

- Priority for measures to modify the susceptibility of life and property to flood damage.

- Priority for completion of continuing schemes.

- Adequate funds for maintenance.

- States to enact legislation amending section 17 (II) of land acquisition act, to make the existing provisions for emergent situations, applicable for flood control works.

- Intensifying studies on sedimentation of reservoirs.

- Forming a national council for mitigating disaster.

Task Forces were set up time to time to review the impact of implementation of RBA recommendations in different regions. An expert Committee under the chairmanship of Shri R.Rangachari was set up by the MoWR, Government of India in October 2001 to review the implementation of recommendations of RBA. The Committee observed slow pace of implementation of RBA and highlighted difficulties expressed by different States/Central agencies which are broadly as under:

- International dimensions of water resource development and management to be solved by the Centre taking a lead role.

- A number of inter state issues in the most of large river basins need to be effectively resolved by an active role being taken by the centre. Major flood affected states like Assam; Bihar etc. want the subject of flood control to be a concurrent or even a central responsibility.

- Lack of requisite funds, either for new planned works or for maintaining completed works is a serious problem.

- Uncontrolled, serious incursion is taking place into the flood plains and river beds due to population pressure.

- Lack of infrastructure

2.2 Targets & Achievements in MMI Sector:

2.2.1 Physical & Financial Performance:

The working group for formulation of X Plan recommended an outlay of Rs.1,09,025 crore for anticipated potential creation of 11.14 mha. In the report it was estimated that likely potential creation would be 8.35 mha and 6.68 mha corresponding to 75% and 60% level of funding respectively. The outlay provided for X Plan by the Planning Commission was Rs.95,734.4 crore, out of which Rs.71,213 crore was for MMI sector. In this sector original target to create additional potential kept by Planning Commission was 9.93 mha, which was revised to 6.5 mha during Mid Term Appraisal. State-wise likely physical achievement in MMI Sector upto end of X Plan is given at **Annex.2.1.**

The performance during the first three years of the X Plan and anticipatory performance for remaining two years is given in **Table 2.1**.

Table 2.1: Physical and Financial Performance of MMI Sector during X Plan

Year	Physical (in mha)		Financial (in Rs. crore)	
	Potential created	Potential utilised	Revised outlay	Expenditure
2002-03	0.812	0.532	13131.51	9655.68
2003-04	0.922	0.639	12334.79	11046.40
2004-05#	1.064	0.685	15483.05	15483.05
2005-06#	1.069	0.625	30263.83	30263.83
2006-07*	1.428	0.928		
Total	**5.295**	**3.409**	**71213.18**	**66448.96**

anticipated * targeted

2.2.2 Completion of projects:

As per the Working Group report of X Plan, 490 projects spilled into X Plan from previous plans, and another 231 projects were to be taken up during X Plan. Besides, it was also anticipated, based on the current financial and physical status of the projects that 103 major, 210 medium and 62 ERM projects could be completed with adequate provision of funds.

The Sub-Group for major and medium irrigation programmes for XI Plan has now assessed that 179 New Projects have been taken up in X Plan, while 178 projects including 48 major, 91 medium and 39 ERM projects are likely to be completed during X Plan, list of which is appended as **Annex.2.2**. The reasons for non-completion of the projects from the projected level are on the similar line as in the cases of previous plans, which include inadequate fund, revision in the estimated costs, change in scope of the works, unforeseen bottlenecks involving other agencies, opposition by the PAPs etc.

2.2.3 Spillover projects into XI Plan:

In course of analyzing status of the ongoing projects likely to spillover, it is observed that a number of previously unreported projects have now been reported; some of the ongoing projects deferred while some of the projects have been interchanged among the classified heads of major, medium & ERM projects. After accounting for the number of new projects taken up in X Plan, projects likely to be completed in X Plan, and other factors inducing changes in the number of projects, the number of spilled over projects into the XI Plan works out to 477 including 166 major, 222 medium and 89 ERM projects. The State-wise break-up of the spill over projects is given at **Annex. 2.3,** while the status thereof according to plan of start is given in **Table 2.2**.

Table 2.2: Spillover Major, Medium and ERM Projects into XI Plan

Plan of Start	Major	Medium	ERM	Total
I	0	0	0	0
II	2	0	0	2
III	5	1	0	6
1966-69	2	0	0	2
IV	8	5	4	17
V	33	19	1	53
1978-80	2	9	3	14
VI	25	19	6	50
VII	10	13	11	34
1990-92	2	2	0	4
VIII	19	48	11	78
IX	20	40	17	77
X	38	66	36	140
Total	166	222	89	477

Around 63% of the above 477 projects are unapproved; it is desirable to emphasize the concerned State Governments to take up needful steps for their early clearance. Subsequently Central Assistance/Funding can be provided for their early implementation.

2.2.4 Major & Medium Projects in Drought Prone Areas:

About one third of the total geographical area of the country is recognized as drought prone. There are 99 districts in 14 states identified as drought prone districts. These districts have cultivable area of about 77 mha which is about 42% of the country's total cultivable area of 184 mha. Among the States, Gujarat and Rajasthan are the most droughts prone followed by Karnataka and Maharashtra.

In the beginning of X Plan, 148 major and 195 medium projects envisaged benefits to drought prone districts. Among these, 76 major and 102 medium projects benefit tribal areas as well. During X Plan, 25 major and 55 medium projects are likely to be completed. State wise number of major and medium ongoing projects in drought prone areas and likely completion thereof during X Plan is given in **Table 2.3.**

Table 2.3 : Ongoing MMI Projects in Drought Prone Areas

State	Projects benefiting Drought Prone Areas			
	Ongoing projects of X Plan		Likely completion during X Plan	
	Major	Medium	Major	Medium
Andhra Pradesh	30	6	7	5
Bihar	3	1	-	-
Chhattishgarh	2	8	-	1
Gujarat	2	16	-	5
Haryana	4	-	4	-
Himachal Pradesh	-	1	-	-
J&K	-	1	-	1
Jharkhand	6	3	-	-
Karnataka	14	31	-	5
Madhya Pradesh	14	5	3	-
Maharashtra	58	90	10	28
Orissa	5	6	1	3
Rajasthan	4	9	-	4
Uttar Pradesh	4	1	-	3
West Bengal	2	17	-	-
Total	148	195	25	55

2.2.5 Major and Medium Projects in Tribal Areas:

Tribal population in the country which is about 8% of the total population is spread over in almost all the states except Haryana, Punjab, Chandigarh, Delhi and Pondicherry. North-eastern States of Mizoram, Nagaland, Meghalaya, and Arunachal Pradesh and Union Territories of Lakshadweep and Dadra & Nagar Haveli are having highest concentration of tribal population, while other states with sizeable tribal population are Chhatisgarh, Jharkhand, Madhya Pradesh, Orissa, Gujarat and Maharashtra.

In the beginning of X Plan, 99 major and 148 medium projects envisaged benefits in the tribal districts. Among these, 76 major and 102 medium projects serve drought prone areas as well. During X Plan, 22 major and 41 medium projects are likely to be completed, of which 14 major and 23 medium projects will benefit drought prone areas as well. State wise no. of ongoing major and medium projects in tribal areas, and likely completion of the projects are indicated in **Table 2.4.**

Table 2.4 : Ongoing MMI Projects in Tribal Areas

Name of State	Ongoing projects of X Plan		Likely completion during X Plan	
	Major	Medium	Major	Medium
Andhra Pradesh	19	19	5	7
Assam	4	4	2	1
Chhatisgarh	4	10	1	3
Gujarat	3	10	-	1
Jharkhand	4	15	-	6

Name of State	Ongoing projects of X Plan		Likely completion during X Plan	
	Major	Medium	Major	Medium
Karnataka	-	1	-	1
Kerala	2	3	-	-
Madhya Pradesh	10	4	2	1
Maharashtra	40	50	8	15
Manipur	2	1	-	-
Meghalaya	-	1	-	-
Nagaland	-	1	-	-
Orissa	7	8	3	3
Rajasthan	1	1	1	-
Tripura	-	3	-	-
West Bengal	3	17	-	3
Total	99	148	22	41

2.2.6 Unapproved Projects:

The schemes under Plan sector require formal investment clearance from Planning Commission before execution. Accordingly, major schemes are scrutinized for techno-economic feasibility, inter-state and international aspects, ecology and environmental aspects, and, rehabilitation aspects by the concerned Central Ministries. Recommendations of various expert agencies are then considered by the Advisory Committee of the MOWR before further recommendation to Planning Commission for investment clearance. In case of MMI projects, the State Planning Boards are empowered to clear the proposals if inter-state issues are not involved. In spite of well-defined policy and guidelines are in place, a large number of major and medium projects have been under execution without investment clearance from Planning Commission. In many cases, the clearance from Technical Advisory Committee has also not been obtained. The unapproved projects in the X Plan comprising of 90 major, 136 medium and 74 ERM projects are likely to spill over into XI Plan. State wise break-up of spilled over unapproved projects is given at **Annex.2.4.** Expenditure likely to be incurred on these projects up to X Plan will be about Rs.41128 crore with the break-up as in **Table 2.5:**

Table 2.5: Unapproved Major, Medium and ERM Projects.

	Number of unapproved (U.A) projects	Latest estimated cost	Expenditure up to X Plan	Ultimate Potential	Potential created up to X Plan
			(Rs. in crore)		(th.ha)
Major projects	90	100017.85	31004.66	5960.58	930.85
Medium projects	136	12947.09	5943.78	809.82	153.16
ERM	74	9095.30	4234.31	1177.07	135.10
Total	**300**	**122060.24**	**41127.75**	**7947.47**	**1219.11**

2.2.7 Externally Funded Projects:

Externally funded projects are given priority in plan resources allocation in view of the commitment made to the donor countries for completion of the projects in a fixed time frame. There have been seven externally aided projects during X Plan among which four projects have

been under World Bank while the other three received funds from JBIC of Japan. The Status of expenditure and reimbursement in respect of these projects are given at **Table 2.6**:

Table 2.6: Externally Funded Projects

S.No.		Latest estimated cost (in Rs.crore)	Cumulative expenditure upto 3/06 (%)	Reimbursement done (%)	Time elapsed
World Bank Funding					
1.	Andhra Pradesh Economic Restructuring Project	962.25	915.0(95%)	Credit-98.6% Loan-92%	100%
2.	Rajasthan WSRP	830.50	319.5(43.46%)	Credit-37.8%	75%
3.	Uttar Pradesh WSRP	835.10	113.13 (13.81%)	Credit-18.18%	77%
4.	Madhya Pradesh WSRP	2040.22	2.82 (0.17%) (upto 9/05)	Loan-5.69%	33%
Under JBIC Funding					
1.	Rajghat Canal I.P. Madhya Pradesh	592.96	690.76 (125%)	Loan-100%	100%
2.	Rengali I.P. Left Bank Canal Ph.II, Orrisa	591.54	401.54(67.9%)	Loan Tranche-I-100%	Closed on 31.12.04
				Tranche-II-19.28%	57%
3.	K.C.Canal Mod.Project, A.P.	1107.00	922.91(83%)	Loan Tranche-I-98%	Closed on 26.2.05
				Tranche-II-38.62%	42%

It can be noted from the above that two projects under World Bank Funding are quite lagging in financial progress with respect to time elapsed.

2.2.8 Central Assistance under AIBP:

During IX Plan period irrigation potential of 1.65 mha was created through AIBP at an average rate of 0.33 mha per annum. During the first three years of X Plan the potential creation in major and medium irrigation sector through AIBP is around 1.4 mha @ 0.47 mha per annum. In spite of rationalizing completion schedule of projects under AIBP, several projects are lying behind schedule. It is desirable to work out realistic time frame and cost to completion for projects to be considered under AIBP. It is pertinent to mention that the spirit of the programme i.e. completion of last mile projects should not get diluted in the enthusiasm of inclusion of large number of projects under this programme. As reported by the State Governments, out of total 200 projects presently under AIBP, 95 projects would be completed by the end of X Plan.

The Central Assistance under AIBP as loan and grant provided up to March 2006 is Rs.19437.90 crore, out of which Rs.18830.10 crore has been provided in Major and Medium irrigation sector. An overview of assistance under AIBP, expenditure including State share and reported potential creation is shown in **Annex-2.5.**

2.2.9 Progress in R&D Activities:

Financial support has been provided for 180 research schemes under the R&D programme of MoWR till the end of IX Plan period. Out of these 102 schemes were completed upto the end of IX Plan and 6 schemes were closed.

The physical and financial progress of the major activities under the R&D programme during the X plan is shown in **Table 2.7:**

Table 2.7 :Physical & Financial Progress in R&D Programme

a. Research Schemes	
Number of Schemes Carried over from IX Plan	72
Number of Schemes Sanctioned during X Plan	83*
Number of Schemes Completed during X Plan	30
b. Performance Evaluation Studies	
Number of Schemes Carried over from IX Plan	5
Number of Schemes Sanctioned during X Plan	9
Number of Schemes Completed during X Plan	5
c. Environmental Impact Studies	
Number of Schemes Sanctioned during X Plan	3
Number of Schemes Completed during X Plan	NIL
d. Water Use Efficiency Studies	
Number of Schemes Sanctioned during X Plan	43
Number of Schemes Completed during X Plan	NIL
Total expenditure	Rs.39.45 crore**

**This does not include in-house research activities of different organizations of MoWR.*

***The above expenditure includes the anticipated expenditure during 2006-07 but does not include the number of schemes expected to be sanctioned or completed during this year.*

2.3 Targets & Achievements in MI Sector:

2.3.1 Physical & Financial Performance:

The working group for formulation of X Plan recommended outlay of Rs.36,200 crore for anticipated potential creation of 8 mha. The outlay provided for X Plan by the Planning Commission was Rs.13,873 crore for a target of 6.8 mha. The outlay has been subsequently revised to Rs.14,764 crore and during mid term appraisal of Planning Commission the target was revised to 4.0 mha. However, it is now anticipated that the achievement may be around 3.5 mha, out of which 2.81 mha is anticipated through ground water development. The anticipated statewise position of creation of irrigation potential in MI Sector is given at **Annex.2.6.**

The performance during the first three years of the X Plan and anticipatory performance for remaining two years is given in **Table 2.8**

Table 2.8: Physical and Financial Performance of MI Sector during X Plan

Year	Physical (in mha)		Financial (in Rs. crore)	
	Potential Created	Potential Utilised	Revised outlay	Expenditure
2002-03	0.687	0.548	1950.45	1639
2003-04	0.628	0.502	2634.63	1957
2004-05	0.740	0.592	2780.35	2780.35
2005-06#	0.545	0.440	7398.75	7398.75
2006-07*	0.918	0.734		
Total	**3.518**	**2.816**	**14764.18**	**13775.1**

*# anticipated * targeted*

The broad reasons for low performance are as under:

- Poor economic status of small and marginal farmers.
- Non-availability of assured power supply.
- Highly subsidized water rates in canal command, whereas, no provision of subsidy for development of ground water.
- In hard rock areas, probability of targeting ground water resource is low.
- Over drafting in critical areas which has caused depletion of water tables resulting failure of wells.

2.3.2 Pilot Scheme on Repair, Renovation & Restoration of Water Bodies:

Restoration of water bodies has been taken up in 24 districts of 14 states namely Andhra Pradesh, Chhattisgarh, Gujarat, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Rajasthan, Tamilnadu and West Bengal. Ministry of Water Resources has already sanctioned proposals with total estimated cost of Rs.299.8 crore, received from the states under the Scheme. An amount of Rs.99.3 crore has been released to the states as Central Assistance till April, 2006.

2.3.3 Central Assistance under AIBP:

AIBP for MI Projects is going on since 1999 in Special category States (NE States, hilly States and KBK districts of Orissa). From 2005-06, the scheme has been extended for implementation in all the States preferably for schemes in tribal and drought prone areas which wholly benefit dalits and adivasis. During X Plan (till March 2006), a loan of Rs.161.2 crore and a grant of Rs.284.41 crore have been released under the Programme to special category States. No funds could be released so far to the non-special category States.

2.3.4 Schemes of Central Ground Water Board (CGWB):

Eight schemes of CGWB were taken up during X Plan. Total X Plan outlay for these schemes were Rs.483.57 crore against which the anticipated expenditure till end of the X Plan is Rs.352.8 crore. The component of scheme on artificial recharge amounting to Rs. 132 crore could not be taken up.

2.3.5 Institutional Investment:

Development of MI is largely dependant on institutional investment. NABARD has been serving as an apex financing agency providing ground level credit flow through various rural

financing institutions. NABARD has reported that during IX Plan, total ground level credit of Rs.9384 crore was provided out of which Rs.2998 crore was from NABARD. The corresponding investments in the X Plan are expected to be Rs.14720 crore and Rs.2726 crore (till 2005-06) respectively.

2.4 Targets & Achievements in CAD & WM Sector:

2.4.1 Physical & Financial Progress:

Under the CAD Programme, 311 projects (with total CCA of 28.58 mha) have been included so far. Till end of March 2006, the construction of field channels has been completed in an area of 17.43 mha. The Programme is presently going on in 136 projects with total CCA of 17.06 mha.

Details of physical progress achieved in respect of core components under the CADWM Programme during X Plan till end of March, 2006 and likely to be achieved till end of X Plan are given in the Table 2.9 below.

Table 2.9: Physical progress under CADWM Programme in X Plan

(mha)

S.No.	Item	Progress till end of March, 2006	Anticipated Progress during 2006-07	Total Anticipated Progress for X Plan
1.	Field Channels	1.671	0.373	2.044
2.	Field Drains	0.476	0.108	0.584
3.	Warabandi	0.929	0.124	1.053
4.	Land Leveling *	0.050	-	0.050

** This component was discontinued w.e.f. 1.4.2004*

An amount of Rs.629.65 cores has been released to the State Governments as Central assistance under the CADWM Programme during X Plan till end of March, 2006. It is anticipated to release Rs.196.5 cores during 2006-07 and thus, total anticipated central assistance release for the X Plan is Rs.826.15 crore. Under the State Sector, an expenditure of Rs. 521.44 crore has been reported for the first two years of the X Plan. The revised outlay for 2004-05 and outlay for 2005-06 are Rs.392.28 crore and Rs.338.38 crore respectively. Taking the anticipated state sector expenditure for 2006-07 same as outlay for 2005-06 i.e. Rs.338.38 crore, the total anticipated state share expenditure for the X Plan under the CADWM Programme works out to Rs.1591.57 crores. State-wise Physical and Financial progress is appended as **Annexure-2.7**.

2.5 Targets & Achievements in Flood Management:

2.5.1 Outlays & Expenditure :

Outlay for the Tenth Plan (2002-07) approved by the Planning Commission was Rs 5965 crore (Rs 4562 crore under the State Sector and Rs 1403 crore under the Central Sector) against Rs 10631.84 crore (Rs 7624 crore under the State Sector and Rs.3008 crore under the Central Sector) recommended by the Working Group on Flood Control Programme for Tenth Plan. The year-wise outlays of the state and central sectors for X Plan and the actual/anticipated expenditures are given in **Table 2.10.**

Table 2.10: Financial Performance in Flood Management during X Plan

(Rs. crore)

Year	Approved/Revised Outlay			Expenditure(actual/anticipated)		
	States	Centre	Total	States	Centre	Total
2002-03	624	151	775	698	86	785
2003-04	496	156	652	523	96	619
2004-05	669	184	853	644	100	744
2005-06	933	232	1165	830	181	1011
2006-07	1034	680	2520	1116	194	1310
Total	**4562**	**1403**	**5965**	**3811**	**657**	**4468**

The State-wise and Plan-wise break-up of expenditure on flood management works are given in **Annex.2.8**.

2.5.2 Flood damages and Relief:

During the first three years of the X Plan, the flood damages as reported by the States and the relief fund released are given in **Table 2.11.** Year-wise status of flood damages in the country is given at **Annex.2.9.**

Table 2.11:Flood Damage and Relief in X Plan

(Rs. crore)

Year	Flood Damage Reported	Recommended Calamity Relief Fund
2002-03	2575	1600
2003-04	4434	1587
2004-05	3337	1286

The aforementioned relief funds also includes for cyclones and other such natural calamities.

It would be seen from the above table that during the first three years of X Plan, the expenditure on relief was significantly high and corresponding Plan outlays was inadequate. It is necessary that a more rational approach and optimum programme of works is adopted for flood management.

2.5.3 Physical Achievements**:**

At the beginning of the Tenth Plan (2002), the area benefited or the area provided with a reasonable degree of protection was about 16.44 mha. The Working Group on Flood Management for the X Plan had proposed benefits for 2.781 mha., The Planning Commission approved an outlay of Rs.4619 crore for State Sector to benefit 1.93 mha. The area likely to be benefited as reported by the States in their respective annual plan document is 1.78 mha. Thus, total area reasonably protected against flood by end of X Plan is likely to be 18.22 mha. The physical achievements per unit investment follow a reducing trend because of Cost escalation and increased allocation for stabilizing existing works. The State-wise break-up of the achievements for area benefited, length of embankments, length of drainage channels, villages raised/protected, town/village protection works and raised platform up to March 2006 is indicated in **Annex-2.10**.

CHAPTER - 3

STRATEGIES OF XI PLAN

3.1 Objectives:

Summary of the main objectives in the area of Water Management and Irrigation identified in the Approach Paper and discussed in the Working Group of XI Plan are given below:

- **Creation of Irrigation Potential -**

  To create around 16 mha of irrigation potential during the XI Plan period with target of bringing at least 6.4 mha of new area under irrigation through:

  - timely completion of major and medium & minor irrigation projects;
  - extension, renovation and modernization of MMI projects;
  - minor irrigation projects (both through development of surface water as well as ground water resources); and
  - restoration of existing water bodies.

- **Reducing gap between PC and PU -**

  - through improvement of the efficiency of the irrigation system.
  - Introduction of the system of Micro Irrigation with fertigation, crop diversification and multiple use of water, etc.

- **Mitigation of Flood Damages –**

  - by taking up appropriate flood control measures; and
  - by putting in place an State-of-the-Art Flood Forecasting and warning System.

- **Promotion of Mass Awareness on Water Related Issues –**

  - through Information, Education and Communication. (media, school curriculum, exhibition, etc.)

3.2 Identified Thrust Areas:

In order to achieve the objectives, the thrust areas identified for the XI Plan are brought out as under:

- Completion of ongoing irrigation projects.
- Extension, Renovation & Modernisation (ERM) of old schemes.
- Improvement in the efficiency of irrigation system.
- Command Area Development and Water Management.
- Participatory Irrigation Management.
- Sustainable Ground Water Development and Management.

- Recharging of Ground Water.
- Research and Development activities on priority areas.
- Dam Safety Measures.
- Establishment of River Basin Organizations/ Authorities.
- Water Resource Information System.
- On line monitoring system.
- Flood management.
- On line flood forecasting information system.
- Information, Education and Communication for mass awareness.

3.3 Strategies for formulation of XI Plan:

3.3.1 Irrigation:

The Working Group on major and medium irrigation programme for the X Plan brought out several suggestions in order to expedite completion of the projects. Besides, some other issues relating irrigation sector were also addressed. The present Working Group also endorses those recommendations in general. The strategies adopted for XI Plan proposal are summarized as below:

1. Ongoing projects which have already achieved 90% or more of the ultimate potential should be considered as completed. Critically review all such projects which are having only marginal benefit left or are near impossible to complete because of various problems, and declare them completed or curtailed or deleted. The balance cost of the remaining projects should be updated realistically for consideration under XI Plan.

2. *Inter-se* priority should be decided considering various aspects such as externally aided projects, interstate projects, projects benefiting drought prone or tribal areas, etc. as per the guidelines prepared by National Commission for Integrated Water Resources Development Plan.

3. High priority should be accorded to the Pre-seventh and Seventh Plan Projects for funding under AIBP with emphasis to complete these projects during XI Plan. List of such projects is appended as **Annex.3.1**. Fund allocation under AIBP should be enhanced for this purpose, if necessary.

4. Foremost priority should be given for completion of ongoing projects and new projects should be taken up very selectively keeping in view the necessity for removal of regional imbalances and development of drought prone and tribal areas.

5. Since the fund requirement for medium/minor irrigation projects are less, adequate fund may be made available for completion of these projects, without jeopardizing programme for important major projects. ERM Projects should be given due priority where the eroded potential can be restored with moderate expenditure.

6. A separate budget head up to 15% of Plan fund may be provided as Irrigation Maintenance Fund (IMF) and full amount of irrigation revenue as collected should be credited to IMF.

7. In addition to liabilities of completed projects and provision for ongoing and new projects, the State plan proposals should incorporate provisions for special repairs of existing

irrigation systems, dam safety measures, improved water management and water development aspect encompassing survey and investigation, research and development, training and National Hydrology Project.

8. Substantial higher outlay should be provided in Central Plan to bring out effective role in plan activities of the Central Institutions by way of suitably strengthening them and provide adequate funds for taking new initiatives under Central Plan.

9. The existing regional/state level institutions such as WALMIs should be strengthened and brought into mainstream activities for irrigation management improvement.

10. Dam safety measures should be taken up all over the country which is essential for Disaster Prevention and Management. 5% of Plan fund may be allocated for undertaking Dam Safety Activities to ensure that dams in distress get special attention.

11. The performance evaluation of completed projects needs to be continued for benchmarking and improvement in irrigation efficiency.

In addition to above, recommendations on Minor Irrigation Sector are given as follows:

1. Renovation/Restoration of old tanks as well as old diversion channels in hilly regions along with improving efficiency of the projects. Besides surface lift schemes may also be given due consideration, particularly, in hilly regions for irrigating high terraces.

2. Expansion of irrigation facilities through a time bound programme for exploiting the huge ground water potential in the Eastern Region.

3. Promotion of Micro Irrigation System in water deficit areas.

4. Promotion of Ground Water Development in areas having untapped/unutilized potential.

5. National Rural Employment Guarantee Act (NREGA) may be linked with Minor Irrigation/ Ground Water Development.

6. A comprehensive act for regulation of ground water development on sustainable basis.

3.3.2 Command Area Development:

In respect of command area development works for performance improvement of the projects following recommendations are made by the Working Group for consideration:

a) Central funding for CAD works may be enhanced from present level of 50:50 to 75:25 for all the States, while for States of North Eastern Region and Hilly/ Special Category States the funding may be 90% from Government of India. For software activities like trainings, adaptive trials, demonstrations, monitoring and evaluation, etc., 100% Central funding may be considered in place of the existing pattern of 75:25 between the Centre and the States. Funds can be directly given to WALMIs and other State/Central agencies for carrying out such activities.

b) It is proposed to increase the functional grant from Rs.600 per ha to Rs.1000 per ha which is to be shared in the ratio of Rs.675:225:100 between the Centre, State and the farmers,

while keeping all cost norms unchanged. The State Governments may also be allowed to raise fund for its share through institutional funding or public borrowings through bonds on the pattern of Krishna Bhagya Nigam of Karnataka Government.

c) As per the existing system of release of Central Assistance, the funds are transferred to the pool of State Finance Department, which in turn releases funds to the implementing departments. This procedure is not amenable for timely availability of the funds to the CADAs. Therefore direct funding to CADAs from the Ministry in a mission mode can be considered to alleviate this problem. For instance the Ministry of Rural Development has a system of direct release of Central share of funds to the District Rural Development Authorities (DRDA) / Jilla Parishads for implementing the schemes of the Central Ministry.

d) To ensure optimum utilization of created irrigation potential, the CADWM should be made a part of the new major and medium projects.

e) Formation of WUAs under PIM Act is mandatory for implementation of CADWM Programme. Transition time of 2 years (up to the end of financial year 2008-09) may be allowed to those States which have not enacted their PIM Acts so far. Further relaxation may only be allowed with the approval of CCEA.

f) WUAs should be involved in planning, budgeting, implementation and management of irrigation systems to be transferred to them. There is a need to enforce a regime whereby farmers pay the water rates to meet the O&M expenditure rates. Conditions of reforms should be imposed before handing over the projects to WUAs.

g) Volumetric supply of irrigation water to WUAs should be introduced.

h) Reputed NGOs with requisite skills may be involved for promotion of WUAs, Rehabilitation of Canal Systems and Water Management for at least 2-3 years. The estimated expenditure of Rs.600-800 per ha on account of this may be provided by the Central Government in the form of Grant.

i) Autonomy of WUAs should be maintained in regard to Water Management. However, there may be linkages with Panchayati Raj Institutions through cross representation. It may be considered to provide support to WALMIs, Agriculture Universities and reputed NGOs for improved water management at micro level. It may also be considered to provide incentives for activities of WUAs.

j) The WUAs should include women members from the land owning/holding house holds in the Command Area, irrespective of their ownership of the land.

k) Periodic evaluation of CAD Projects should be undertaken and suitable corrective measures may be taken if necessary.

l) Components for reclamation of waterlogged areas, as well as, correction of conveyance deficiencies with enhanced scope may be implemented to cover all the projects in the country, details of which could be approved in consultation with expert organizations such as CWC, CSSRI, CGWB, etc.

m) Water Resources/Irrigation Departments need to undertake assessment periodically (at least once in 5 years) to determine the training needs at different levels of personnel deployed

in water resources development and management. Facilities available for capacity building are to be considered instead of establishing new training centers. There has to be networking of existing training facilities so that training will be effective and economical. It is desirable to have a separate scheme for training and capacity building for State Governments as well as Central Government.

3.3.3 Flood Management:

In regard to Flood Management, the strategies recommended are given here under:

a) Undertake construction of dams and reservoir schemes with adequate flood-cushion for long term solution of flood problems. Efforts should also be made for utilizing the existing reservoirs in the country for flood moderation to the extent possible. Even in Reservoirs constructed for power/other purposes, the rule curves may be framed in such way that effective flood moderation is achieved.

b) Flood Forecasting and flood warning network of CWC be extended and integrated with similar networks of the state governments so as to get real time information at a central point, say in central flood control room under FMO, CWC. This activity should be extended to cover rivers originating from or flowing to the neighbouring countries.

c) To take up development of digital elevation model of flood prone areas for taking up schemes for inundation forecast, preparation of flood risk maps, planning of flood management schemes etc.

d) Identification of appropriate location for spilling sections/sluices in the flood embankment for the controlled flooding of the protected areas for restoring fertility, recharge of soil moisture and ground water. Drainage sluices should be integral part of embankments to prevent water-logging in the protected areas.

e) Integrating flood management schemes with other infrastructural development programmes in the sectors of roads, railways, inland waterways and canal/command area development works as well as recently declared Rural Employment Guarantee Programme.

f) Watershed management in the hilly catchments of the rivers originating in Nepal, Bhutan and hilly areas of India should be selectively chosen and funded fully. Implementation should be done through a joint mechanism. Ministry of Agriculture, who is the nodal Ministry for the watershed management works should work out a detailed program in consultation with the Ministry of Water Resources.

g) To give adequate emphasis on the operation and maintenance (O&M) of the flood protection measures already created, a percentage of outlay of the flood sector should be earmarked for this purpose.

h) Raising and strengthening of the existing embankments, if required after detailed studies of hydrological, morphological, topographical and developmental aspects, to stabilize the benefits of these measures.

i) Natural swamps and lakes to be developed into detention basins and capacity of existing depressions be improved for absorbing flood waters. Special drives for development of Tal and Diara areas.

j) Erosion of land either by sea or rivers to be minimized through suitable cost effective measures. Centre should continue to assist the States in Ganga and Brahmaputra Valleys through Plan Funds to counter land erosion by river action.

k) Flood proofing program such as raised platform and quick drainage facilities to be taken up in all the flood prone states.

l) Drainage improvement in critical areas in the country to be given priority.

m) Dredging at selective locations i.e. outfalls etc. in the rivers and the tributaries as a way to reduce flood levels in low lying areas and help in quick drainage.

n) Encourage R&D activities for improved flood management.

o) To encourage people's participation.

p) To expedite projects on interlinking of rivers for helping in attenuating flood peaks.

q) Steps to ensure implementation of action plan prepared by NDMA for flood management should be taken.

r) On-going schemes of earlier plans be completed expeditiously. All the on-going schemes spilling over to the XI Plan, in which at least 50% execution has taken place should get first priority on fund allocation during the XI Plan.

s) The cost for flood component in a multi-purpose water resources development projects as a long term solution to flood problem should be funded by Government of India.

t) Maintenance of existing flood management works to optimize its benefits.

3.4 Storage Requirement & Strategies:

In India, the rainfall pattern is widely varying in time and space. Bulk of the precipitation occurs during four monsoon months which amounts to about 75% of the total annual rainfall. As a result, the Indian rivers, particularly the non-perennial ones, carry very meager discharge during non-monsoon months. This situation warrants for creation of storages as much as possible to hold the excess flow of monsoon months, in order to offset the imbalance arising out of skewed pattern of rainfall. In the process of planned development of water resources since independence, live storage in the country has been built up from 15.6 km^3 at the time of independence to present level of about 213 km^3. Even after attainment of such storage position, the per capita storage in the country is only about 210 m^3, which is way behind the achievement in many of the developed and developing countries, such as, Russia (6103 m^3), Australia (4733 m^3), Brazil (3145 m^3), USA (1964 m^3), Turkey (1739 m^3), Spain (1410 m^3), Mexico (1245 m^3), China (1111 m^3) and South Africa (753 m^3). The global scenario is definitely a pointer towards need for creation of more storage to cope up with temporal and spatial variation in rainfall in the country and erratic climatic change. Harnessing of 690 km^3 utilizable surface water will only be possible if sufficient storages are built up across the country.

3.4.1 Conventional approach:

The NCIWRDP has estimated that the total demand of water for various uses, by 2050, would be around 973 km^3 per year (low projection) or 1180 km^3 per year (high projection). Considering average demand scenario, a large surface and ground water use of about 700 km^3 per year and 380 km^3 per year respectively would be necessary, assuming additional return flows of about 214 km^3 per year (low projection) or 259 km^3 per year (high projection) would be available. This surface water use, in the phase of the large temporal variability would approximately require live storage of around 450 km^3. A rough estimate of the live storage, which would have to be created to meet this need, would be as follows:

Major & Medium Projects (Existing)	-	213 km^3
Major & Medium Projects (under construction)	-	76 km^3
Minor Storages (existing and under construction)	-	70 km^3
Total Live Storages in projects, existing and under construction	-	359 km^3
Likely loss in live storage due to sedimentation, up to 2050 which has to be compensated for	-	53 km^3 (say)
Balance available live storage from the above in 2050	-	359-53=306 km^3, say 300 km^3
Therefore, further new live storage to be created to have a live storage of 450 km^3, by 2050	-	150 km^3

Of this new live storage of 150 km^3 which may have to be created by 2050, projects presently identified would be able to provide only about 108 km^3 of live storage.

So far, the developments have been carried out on zonal basis which may not be able to equitably meet the requirements of the country as a whole. A scenario may emerge in which there would be surplus water in some regions whereas drought like situation may continue or may aggravate in some other regions. The proposal under inter-basin transfer of water may increase additional utilization of around 200 km^3, but still there may be a number of pockets which will face scarcity of water unless comprehensive planning is resorted.

Further, attention has to be paid to changing population dynamics, changing patterns of human settlements, climate change causing change in pattern of spatial and temporal variation in rainfall, deterioration in water quality, etc.

Thus, in our future planning serious consideration has to be made for the following aspects:

i) Policies should aim at reducing water requirement to the low demand scenario and inculcating utmost efficiency in water use. Conservation consciousness should be promoted through education, incentives and disincentives.

ii) It is high time to aim at basin/sub-basin-wise development instead of zonal development.

iii) Creation of additional storage should be continued through implementation of techno-economically viable projects formulated on the basis of comprehensive planning.

iv) There are many schemes of interlinking of rivers, the best aspects of which are required to be consolidated in the shape of cost effective project reports and implemented in a mission mode. To begin with interlinking of local rivers particularly east and west flowing rivers may be planned for early results.

v) More attention should be given for preserving water quality. A phased programme should be undertaken for improvement in water quality.

vi) Since planning, design and implementation of large water projects take around 15-25 years, developmental activities should be planned with due regard to changed scenario and constraints imposed by the configuration of water availability and water quality.

Thus, in future, creation of more storage is absolutely essential in order to avoid severe domestic crisis on water issues. Until and unless storages are built up, utilization

of the available potential of the surface water to the extent of 690 km^3 is in no way possible in meaningful manner. It is, therefore, necessary to encourage the State Governments to undertake construction of more storage through appropriate incentives. It is also imperative to emphasize creation of more storage in Brahmaputra Barak System and arriving at a consensus with India's concerned neighbours on the development and management of Ganga Brahmaputa Megna Waters.

3.4.2 Conjunctive use of Sea Water:

The country is surrounded by sea, on three sides, which itself is a mega reservoir of water. It is possible to economically utilize sea water in arid areas near the sea coast. Of course, desalination of sea water is a relatively high cost alternative requiring a lot of power input. However with continuous improvements in membrane technology the cost of desalination is getting reduced to a great extent. Further conjunctive use of good quality water and saline sea water is also possible to reduce the cost of water required for irrigation. In case extraction and purification of saline sea water are commercially done deploying non-conventional source of power viz. solar, tidal and wind-powers, water can be conveniently made available for different purposes, particularly in coastal areas. Water supply can be further extended to the extent it is economically viable and cheaper as compared to other propositions. This alternative may be more viable as compared to canal water brought through interlinking of rivers or such costly endeavors like tanker-supply. It is desirable to consider this parameter also in the comprehensive planning in the water resources sector.

3.5 Strategies for improving irrigation efficiency and measures for efficient irrigation water delivery through appropriate systems:

3.5.1 General Strategies:

Deficiencies of the irrigated agriculture in India have been a cause of concern and a huge amount of thinking and analysis has been done to devise ways and means to improve it. The Working Group Report for Major and Medium Irrigation for the X Plan commented extensively on improving the performance. These recommendations are not repeated for the sake of brevity. However, summary of some important recommendations considered by the Working Group of XI Plan is as under:

1. Standardized definitions of irrigation efficiencies need to be evolved for use in India, after reviewing available material. All water resources of a basin form a unified resource and hence the basin efficiency concept which integrates all surface water and ground water uses, as well as reuse & recirculation is important. The basin efficiency also needs to be estimated along with project related efficiencies.

2. Conjunctive use of water to be given higher priority particularly in alluvial areas, as a very effective means of improving water use & basin efficiency, and of saving possible water logging & salination. For giving an encouragement to conjunctive use, Irrigation Act may be amended, if required. The policy of favoring selective lining of canals should be continued. Low water allowances & somewhat inadequate conveyance capacities lead to better efficiencies & less water logging related problems. These need to be encouraged.

3. Memorandum of Understanding (MOU) with Water Users' Associations (WUAs) should include a standard clause which binds the users for effective conjunctive use of surface

and ground water for optimum utilization. On continuous rising of ground water table, the MOU should allow the department to cut the surface water supply.

4. Where there are minor irrigation tanks, minor surface lifts etc in the command, these should be integrated with major project works and not to be treated as separate entity. Such tanks should be filled with canal water as per requirement. Also, such works will allow reuse of the seeped water.

5. Each major irrigation system authorities should annually prepare the water budget, accruing for all water stored or diverted, all losses, all reuse of lost waters, estimated evaporation etc.

6. Sufficient funds for operation and maintenance work to be provided. Creation of Irrigation Maintenance Corporation as provided in the irrigation management policy is considered, so that a linkage between revenues from water and O&M funds is established. Water rates may accordingly be increased in a phased manner.

7. Priority may be assigned to ERM schemes for projects where water distribution systems are to be handed over to WUAs. Where total ERM scheme is not contemplated, one time maintenance / deferred maintenance of a project may be allowed as a plan scheme. Operation & Maintenance budget to be decided in consultation with the farmers and walk through survey to assess what is appropriate and achievable within the available fund.

8. All the schemes more than 25 years old should be studied in details to bring out the status of schemes in respect of structural safety and performance and ERM schemes may be formulated and taken up based on such studies.

9. Drip / sprinklers are mostly for horticulture/vegetable crops (and sugarcane) in the present major & medium surface irrigation system. These may be encouraged for other crops also. Any compulsion for a particular cropping pattern needs to be removed, whenever WUAs are formed & volumetric water rates come into practice. Use of sprinkler or drips or rotational surface supplies requires additional on farm storage (either as dug out ponds or elevated storage with pump). This becomes essential since supply rotates **are 10 daily or fortnightly** whereas drips & sprinkler require daily **or 1 in 2 day's** operation. Such storage creation needs to be within the ambit of subsidies for drips & sprinklers.

10. As automation is a costly affair, it is to be adopted for pilot schemes and not for larger area. However, preferably this should be introduced for water stressed areas to economize the use of ground water.

The actual improvement is, however, much short of expectations, and very little as compared to the thinking that has gone into improving it. It is difficult to pinpoint why that is so. Obviously, the efforts to implement the recommendations have not been adequate. The exhaustive recommendations made in the X Plan document remain valid even in XI Plan. Not much has changed since then and no useful purpose will be served by examining the question *ab initio*, all over again. What is required now is to analyze why the recommendations already made have not yielded adequate results and incorporate new ideas, if any.

In the background of recommendations cited above, following four main aspects have been covered here under:

a) Concept of Target efficiency of the water delivery system
b) Timely and equitable distribution of water
c) Increasing production per unit area and per unit volume of water used
d) Financial sustainability of the water delivery infrastructure

3.5.2 Target efficiency of the water delivery system:

Efficiency of the water delivery system is a combination of two indices, the Conveyance Efficiency (Ec) which is a measure of the efficiency of the system from the river diversion works to outlet; and the Distribution Efficiency (Ed) is a measure of the efficiency of the system from outlet head to the field. These are defined as:

Ec=Volume of water delivered to the distribution system/ Volume of water drawn from the Canal head
Ed= Volume of water delivered to the field/ Volume of water drawn from the distribution system

Poor Ec and Ed are due to losses in conveyance and distribution systems due to leakage, seepage, and evaporation and improper operation. Lining in the main canal, (and also in the distributaries, and minors) reduces the conveyance and distribution losses due to seepage and leakage. However, the water which is lost by seepage in an unlined canal system is not a total loss and most of it recharges the aquifer, and is recovered. Allowing somewhat low conveyance efficiency, deliberately allowing seepage, and then lifting and using this water through conjunctive use has the distinct advantage of storing the water as ground water. This may be very important in basins like the Ganga, where available surface storages are limited. Lining affects the ground water availability and therefore the advantage of lining needs proper evaluations in context of total surface and ground water system performance.

In general, continuance of the present policy of not going in for extensive lining but to restrict it to a few problem reaches is recommended. However, a deliberate decision for not lining the canal will show up as poor overall system efficiency. **Therefore, target efficiency need be defined for each project,** depending on the decision to line the canals, or on the deliberate decision to not line them, and other similar decisions that constitute a trade-off between improving efficiency and ground water recharge. **Thereafter, any performance evaluation of the system should be compared to the target efficiency**, which would be different for different projects.

3.5.3 Timely and equitable distribution of water:

Design and operation of the conveyance and distribution systems is in such a way that inequity and indiscipline prevails in the command. The cross regulators, head regulators are so designed that an off taking branch can draw full supply even when the flow in parent channel is having partial supply. In primary channel there is better control over control structures, while in the secondary system, various manipulations in head reaches take place, where branches take larger share of water from the parent channel and much higher shortages passed to the lower branches.

Poor communication in the operation, absence of control structures, absence of night irrigation, insufficient monitoring and evaluation, and pond-age in channels are some other reasons for poor and inequitable distribution.

One remedy is to remove the controls like cross regulators and head regulators in the secondary system and replace them with proportionate distribution system which will ensure that any reduction in the flow in the parent channel will automatically cause proportionate reduction in the withdrawal in the secondary system. This method has been successfully tried in Bhakra canals and in the IWM Madurai.

It has been said in the past that Irrigation efficiency can be improved by using automation in canal operation. Several seminars have been held on this topic. However, in the few places where only a limited automation was tried, the outcome has not been satisfactory. The main reasons for this are absence of dedicated players for design, supply and maintenance of the hardware, poor and unreliable electricity supply along the canal, procedural and administrative difficulties in ensuring proper O&M of the hardware, etc.

Thus till reliable automatic control system is introduced, the objective should be restricted to installing MIS-DSS to aid decision making for timely distribution of water with equity.

PIM is emerging as an important tool for ensuring better equity in distribution of water, which in turn also results in better O&M, better on farm management, and increased productivity. Towards this objective, some of the Working Group members visited the work done by the Development Support Center in Dharoi irrigation project near Ahmedabad and held extensive consultation with the DSC team. It is expected that introduction of PIM would result in substantial improvement in system management. The success story of DSC's work in Dharoi project only emphasizes the need for strong institutional "hand-holding" support. The institutional support, of required quality, is required to be provided on the scale it is required.

3.5.4 Increasing production per unit area and per unit volume of water used:

The low productivity of irrigated agriculture in India, with yields ranging from around 1.5 tonne per ha to 4 tonne per ha for cereal crops as compared to an achievable target of about 5 tonne per ha, has been a subject of much analysis. The Working Group for the X Plan had extensively commented on this. However, in August 2006 the MoWR has constituted a committee to address this very issue – how to generate more crop and more income per drop of water. Prof. M S Swaminathan is the chairman of the committee and the members include reputed agricultural scientists from R & D institutions and agricultural universities. The committee has already submitted its report in October 2006. The recommendations regarding modernization of tertiary canals with controls, restoration of traditional water bodies, promotion of water harvesting, decentralized water control, micro irrigation with fertigation, crop diversification and multiple uses of water, etc. need be considered.

3.5.5 Bridging gap between potential created and potential utilized:

There may be various reasons for increase in the gap between potential creation and potential utilized. Some of these are:

i) Likely over estimation and double counting of potential creation and inaccuracies/discrepancies in reporting of potential utilized.

ii) Loss of potential due to siltation in reservoirs, ponds, etc. and deterioration of water distribution system.

iii) Time gap between potential creation and command area development.

iv) Assumption of optimistic cropping pattern in economic analysis and deviation in cropping pattern as compared to that envisaged during planning.

v) Over-drawl of water in head reaches depriving potential utilization by Tail Enders.

vi) Unused canal flow during night hours.

It is desirable to introduce more reliable and accurate system of assessment for potential created and utilized. There should be a coordinating statistical organization in each State for reporting the figures of potential created and utilized. The Remote Sensing Technique can also be effectively utilized for counter verification of figures reported. The loss in potential due to siltation, ageing of various distribution systems, etc. needs to be periodically assessed and accounted.

The productivity of irrigated crop as assumed in economic analysis often seem to be optimistic and are not based on experience of nearby irrigation projects. Use of water for irrigation and selection of crops have been left to the discretion of users/farmers. The adverse consequences of such freedom have been manifested as water logging in some commands. Somewhere overexploitation of ground water has been leading to progressive fall in ground water level. It is, therefore, necessary that a regulatory mechanism is brought into practice by which undesirable or unsuitable crops are discouraged and tendency to over-use of irrigation water is checked. Similarly in areas where ground water is being used for irrigation a regulatory mechanism should be in place to deter over-exploitation of ground water beyond allowable limit.

Sometimes apprehension of scarcity of water and non-availability of water when needed also lead to over withdrawal by head end users. Since extraction of ground water is costly, farmers tend to take water more than their requirements when that is available through canals. Higher cost of ground water is primarily because of cost of power required for lifting of water. In case source of solar power is created for lifting of water, the cost of ground water will get substantially reduced. This may facilitate and give farmers option to use surface water and ground water without any extra cost. Once this option is available and known to farmers that they are aware that use of more water than the optimal requirement is likely to reduce the yield, certainly there would be reduction in overdraw of water by head-enders. Thus there is a need to extend user friendly system and increase awareness and cooperation among farmers through Participatory Irrigation Management. Water Users Associations need to be empowered to look into these aspects. Further, the piped distribution system and micro-irrigation should be adopted as far as possible.

In India night irrigation is not practiced in general. As a result waters flowing in canals during night hours either pass unutilized or wasted on account of uncontrolled flooding. It is desirable that the night irrigation is introduced in policy and practice.

3.5.6 Financial sustainability of the water delivery infrastructure:

Before independence, the irrigation projects were treated like any other commercial venture and irrigation rates charged were generally adequate to meet the working expenses and

the interest on the capital invested. After independence the emphasis shifted to viewing irrigation projects as a necessity for increasing the agricultural output as a social benefit. The earlier concept of evaluating economic viability of the project was on the basis of Financial Rate of Return (FRR), which was used as a guide for deciding the water rates. Subsequently though the project authorities have to give the FRR calculation statement also in the project report, sanction was not held up if the project did not satisfy the FRR criterion and the criterion of cost benefit ratio only was used for according financial approval to the projects. After the independence, the State Governments failed to enhance the water rates periodically, commensurate to the rising capital cost of the project and O&M needs. As a consequence there has been progressive deterioration in the financial return from irrigation projects, imposing a growing burden on the general finances of the States.

The operation and maintenance expenditure of irrigation projects is by and large, being met with from non-plan funds of the State Government and the Govt. of India does not have a direct control over the allocation and earmarking of such funds. Typically, up to 80% of the O&M cost is towards salaries. The water rates being charged at present by the State Governments are low and are not able to meet even the O&M charges of the irrigation projects. The water charges vary from State to State, project to project, and crop to crop. The rates vary widely for the same crop in the same state depending on irrigation season, type of system etc. There are no uniform set principles in fixing the water rates and a multiplicity of principles are followed such as recovery of cost of water supply, capacity of irrigators to pay based on gross irrigated area or net benefit of irrigation, type of crops, sources of water supply and its assurance, classification of land linked with land revenue system and combination of various elements. Consequently, the maintenance of most of the irrigation projects is far from satisfactory.

It is therefore necessary that water rates are rationalized. Revision of water rates should go hand in hand with measures to improve the quality of services and to keep a check on costs. In the light of a detailed assessment, rates for non- agricultural uses such as domestic and industry should be revised so that the costs are fully recovered and arrangements built into supply contracts for ensuring full and prompt recovery of dues. Rates should be based on O&M norms and capital charges (interest and depreciation). Some sort of averaging of rates by region and/or category of projects is desirable. There should be two part tariff: a) a flat annual rate on per hectare basis and b) variable rate linked to actual expenditure on service (Volume or area). Rate as per volumetric basis could be assessed for only group of farmers. The Vaidyanathan Committee has also suggested rationalization of fixing of water rates etc. in three stages.

The objective of the first stage should be to rationalize and simplify the existing system of assessment (based on crop wise irrigated area on an individual basis) to a system of season specific area rates. It is possible to estimate the relative water consumption per hectare irrigated in different seasons. The variable part of the tariff in the cost of major and medium projects should be fixed on this basis. In the second phase the aim would be to shift to a fully volumetric system. Additional investment to modify the distribution system for effective regulation of volume delivered at outlets will be needed. As system efficiency and productivity improve, the targets of cost recovery can be progressively increased. Volumetric system of charging is best decided in consultation with the Water Users' Associations. Phase III which will be spread over much longer period should need to extend and consolidate the system of Farmers Group Management and implement with the involvement and participation of such groups, a programme for upgrading the system to a higher level of efficiency in water use and therefore, of productivity. Besides substantial investment in conjunctive use and distribution networks, the techniques of water management will have to become tighter and more sophisticated.

The Working Group for X Plan had extensively quoted from the Vaidyanathan committee report and the 11th Finance Commission report, who have investigated the issue of water rates and O&M costs in great detail. It is generally accepted that the case for rationalization of water rates, meeting the O&M expenditure through water rates, reducing the salary component in O&M costs, and improving the quality of service and water delivery is well established. What is lacking is the will power to implement the recommendations. In the above background it is emphasized that financial sustainability is required to be ensured for maintaining and improving irrigation efficiencies.

3.6 To examine whether the CAD can be the part of MMI Projects:

3.6.1 As per the present arrangement an irrigation project is considered to have been completed after the distribution network has reached the outlet level. Thereafter responsibility of the Project Authorities remains limited to release of water through the irrigation outlets only, but in reality much is left for harnessing the created irrigation potential after completion of the structural components of the projects. It requires proper planning for field channels and field drains, construction of micro level structural works, land leveling and shaping, orientation of the farmers towards irrigated agricultural, etc. before actual utilization of created potential. In order to address the second phase of the irrigation projects CAD programme was launched in the year 1974-75. Although CAD has covered about 17 mha of CCAs in regard to field channels and undertaken other activities like introduction of warabandi system, field drains land leveling, etc. It is felt that a more full proof mechanism is necessary to integrate all the activities for irrigation development under one umbrella which is the Project Authority itself. It is possible to synthesize CAD activities under the Project Authorities by way of suitably strengthening the organizational set up of the projects.

In light of above, the Working Group recommends that the activities pertaining to CAD&WM may be brought under the scope of MMI/MI projects in XI Plan.

3.7 Strategies for improving Revenue Returns:

3.7.1 Background:

River Valley Projects are capital intensive. Huge investments are made by the States in construction of irrigation projects. Financial sustainability of these projects, particularly the water delivery infrastructures is essential for their upkeep and maintenance to ensure that they efficiently provide services till their economic life. It is a well recognized fact that water is both economic and social good and its logical pricing is a key to improving water allocation and encouraging conservation. Presently there are no uniform criteria in fixing the water rates and water charges vary from State to State, project to project and crop to crop. The water rates being charged at present are very low and are not able to meet even O&M costs. Under-pricing of water adversely affects the availability of resources for efficient management and thus there is an urgent need of increasing revenue returns from the irrigation infrastructures maintaining the criteria of social benefits.

The Vaidyanathan Committee set up by the Planning Commission in October 1991 had recommended that the irrigation charges be raised in a phased manner over a period of five years to cover full O&M costs duly accounting inflation. For domestic and industrial uses the Committee recommended that the costs of supply of water should be fully recovered through appropriate volumetric rates and arrangements should be built into the supply contracts for ensuring full and prompt recovery of dues.

In the report of NCIWRD (1999) the following ways to increase the returns have been suggested:

i) Reduction in working expenses by modernizing the system, better water management, organizational reforms and improvements in infrastructure.

ii) Establishing participatory management, providing better communication facilities, reduction in establishment cost and thus reduction in O&M costs.

iii) Increase in reliability and efficiency with increase in water tariff.

The National Water Policy (2002) had addressed this issue in Para 11 which states as under:

"Besides creating additional water resources facilities for water uses, adequate emphasis needs to be given to the physical and financial sustainability of the existing facilities. There is, therefore, a need to ensure that the water charges for various uses should be fixed in such a way that they cover at least the operation and maintenance charges of providing the service initially and a part of the capital cost subsequently. These rates should be linked directly to the quality of service provided. The subsidy on water rates to the disadvantaged and poorer sections of the society should be well targeted and transparent".

However, there are many aspects of pricing techniques that make implementation difficult. Inherent problems involved are quantification of uses, realistic estimate of benefits and costs, multi-dimensionality and period specificity. Uniform formula of water pricing for the entire country could have no practical value. **It may be desirable to constitute independent States Regulatory Authority for rationalization of water rates by each State/UTs**.

The National Conference on Water Resources and Irrigation Ministers considered the action plan for implementation of the National Water Policy, 2002 during its 12th Meeting held in February, 2003. Consensus on the identified action point for rationalization and implementation of water rates was that:

"States will be urged to progressively rationalize the water rates improvement of collection of water charges by linking them with the agricultural support price. States Regulatory Authority shall have to be established for the purpose".

3.7.2 Recommendations of Working Group of X Plan:

The Working Group for X Plan had thoroughly analyzed the problem of poor financial performance, and had made valuable recommendations for improving revenues from irrigation works and for optimum utilization of the existing assets. The measures for improving revenues from Irrigation Works suggested in Working Group Report for X Plan are as under:

1. For optimal utilization of existing irrigation facilities, it is necessary to maintain and improve the created infrastructures. For this the irrigation systems are required to be financially self-sustainable.

2. Full O&M cost of irrigation system should be recovered in a phased manner. State Governments should initiate appropriate action to enhance the water rates to cover 1% of capital cost in addition to complete realization of O&M cost.

3. State Governments should follow strict financial discipline with regard to non-plan expenditure in fund earmarked for operation and maintenance. The establishment costs in O&M needs to be limited after careful case studies.

4. State Government should concentrate on maintenance of main water distribution system leaving the sub-distribution systems to Water Users' Association in order to reduce cost on staff and for better Farmers'/Users' participation and for better water management. Water Users' Associations should be made responsible for collection of water charges from the beneficiaries and O&M of Secondary distribution systems.

5. States may be encouraged to take up Water Resources Consolidation Project (WRCP) and NWMP. It is also required to strengthen CAD programme.

3.7.3 Status of Implementation:

In spite of strong recommendations most of the States and Project Authorities/ Corporation remained unsuccessful in realizing even the O&M costs of irrigation systems despite initiatives taken by the Union Government. With a view to encourage the States for bringing out the reforms in irrigation sector, in particular to increase the water rates so as to meet O&M costs of various irrigation projects, incentive have been provided under AIBP. Under the AIBP, the States which agreed to rationalize water rates in phases over a period of 5 years to recover full O&M costs were termed as Reforming States. These States were given more attractive offer of assistance under AIBP. Seven States namely Gujarat, Maharashtra, Andhra Pradesh, Madhya Pradesh, Orissa, Rajasthan and Jharkhand were declared reforming but Gujarat could only meet the requirements. Reforms have also been made for fixing water rates to a good extent in Maharashtra. In Maharashtra, Water Regulatory Authority has been created and it is expected that this would help in achieving the desired overall progress in water sector. It is a better option to recommend instituting Water Regulatory Authorities in all States as Maharashtra has done without giving any special treatment of reforming states under AIBP.

3.7.4 Recommendations of 12th Finance Commission :

Main recommendations of 12th Finance Commission regarding maintenance of irrigation works are as under:

i) In major and medium irrigation sector an O&M cost norm of Rs.600 per ha for utilized potential and Rs.300 per ha for unutilized potential may be considered based on normative expenditure requirements for maintenance of irrigation works. This norm for minor irrigation works should be half of those for major and medium irrigation projects. Being insignificant, for minor irrigation works it was decided to ignore the unutilized potential.

ii) For hill states 30% higher rate of O&M expenditure has been suggested.

iii) On the base year estimates so worked out, 5% annual rate of growth has been suggested to generate projected levels in the forecast period.

3.7.5 Recommendations for XI Plan:

Since all the recommendations of the Working Group of X Plan, with minor changes, stand valid even for XI Plan, it is proposed to continue the initiatives suggested in X Plan report and accordingly following recommendations are made for needful action in XI Plan:

i) Project Authorities should adopt an O&M cost norm of Rs.600/- per ha for utilized potential and Rs.300/- per ha for unutilized potential as per the recommendation of the 12th Finance Commission. The subsidy on water rates to the disadvantaged and poorer sections of the society should be well targeted and transparent.

ii) Full O&M cost of irrigation system taking into account the inflation rate should be recovered in a phased manner at the earliest in XI Plan starting from 2007. Motivation policies like giving concessions and incentives can be considered by the State so as to improve the water use efficiency and recovery of water charges.

iii) State Governments may also initiate appropriate action to enhance the water rates to cover 1% of capital cost in addition to achieving O&M cost fully. Wherever practically possible, water should be saved to meet the rising demand for non irrigation purposes like drinking water, industry, thermal power generation, etc. Water rates for non agricultural use should also be carefully rationalized. For the storage requirement for non irrigation purpose, the agency demanding water for non irrigation use should provide full funds enabling the use of such storage. For Lift Irrigation Schemes water charges needs to be evolved based on non subsidized electricity charges.

iv) State Governments may institute Water Regulatory Authorities and adopt the Maharashtra model for fixing water rates.

v) State Governments should follow strict financial discipline with regard to non-plan expenditure earmarked for major and medium irrigation projects. A high powered committee should review every quarter the allocation and utilization of funds provided for maintenance.

vi) State Government should concentrate on maintenance of main water distribution system leaving the sub-distribution systems to Water Users' Association in order to reduce cost on staff and for better Farmers'/Users' participation and for better water management. However, before handing over the minor level systems to Farmers' Association, they should be in reasonably good shape and running conditions.

vii) Water Users' Associations to take responsibility of collection of water charges from the beneficiaries.

viii) The salient features of WRCP project which have been formulated and implemented in Haryana, Orissa, and Tamil Nadu may be taken by other states as a model project in enlisting farmer's participation and as a self-financing project.

ix) CAD programme should be strengthened and NWMP should be taken up in the XI Plan.

x) The aspect of limiting the establishment costs in O&M needs to be studied along with the possibility of redeployment of surplus staff presently charged to O&M expenses to some other fields like local watershed development programmes, etc.

xi) The possibilities for private sector participation in management of distribution system need to be explored further. Paragraph 13 of the National Water Policy of 2002 explicitly encourages private sector participation. The Ministry of Water Resources has a special cell for the PPP. However, there has been instances, elsewhere and also in India, where PPP has not worked satisfactorily. This, however, is not a sufficient reason to

reject PPP. What is required is to analyze the reasons for the failures and ensure that these are not repeated. With that, PPP needs to be explored further, as a means for better financial performance of irrigation systems.

3.8 Strategies for reviving/improving traditional water storage system:

A pilot scheme, "National Project for Repair, Renovation and Restoration of Water Bodies directly linked to Agriculture" has been taken up in January, 2005. The aims and objectives of the Pilot Scheme are to augment the storage capacities of water bodies and to recover the lost irrigation potential and to extend wherever possible. Presently the scope of the scheme has been restricted to Water Bodies with irrigation potential of 40 ha and above but less than 2000 ha. with priority to drought-prone districts and tribal habitation. Restoration of water bodies has been taken up in 24 districts of 14 states namely Andhra Pradesh, Chhattisgarh, Gujarat, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Rajasthan, Tamilnadu and West Bengal. The pilot scheme envisages active community participation for implementation of the projects. A total of 1116 water bodies are included under the scheme with a target of restoration of potential of 1.48 lakh ha. It needs to be kept in view that the tank storages occupy more area per unit volume of storage in comparison to large storages. Besides, the losses in the tank storages are also very high. However, the storage tanks serve well for the community purposes including drinking water, bathing, water for animals, community activities, etc. So it is suggested that the restoration of old water bodies should be taken up selectively in XI Plan Period giving due consideration for community requirement as well as their efficacy in serving the purpose of irrigation, particularly, in drought prone and tribal areas.

3.9 Strategy for Minor Irrigation through Ground Water Development and Management:

The ultimate irrigation potential through ground water resources has been assessed to be about 64 mha in the country out of which 43.3 mha has been created upto the end of IX Plan. During X Plan another 2.73 mha is likely to be added through ground water resources. However, the Ground Water Development in the country is not uniform. The exploitation is very much high in alluvial tracts of Indo-Gangetic Plain of Punjab and Haryana while it is very much low in many States including Bihar, West Bengal, Orissa, North Eastern States, etc. as ground water occurrence is highly uneven due to diversified geological formations, a region wise strategy needs to be taken as mentioned below:

(i) Alluvial areas of the east and north-east regions (particularly Assam, Bihar, West Bengal and Uttar Pradesh) with low stage of GW development – It is possible to create a potential of around 2.7 mha by tapping the unconfined aquifers.

(ii) Hard rock areas of peninsular India – It is possible to create a potential of around 0.8 mha by judicious and scientific development of GW in AP, Chattisgarh, Jharkhand, Kerala, Maharashtra, Orissa, Tamil Nadu and part of MP.

(iii) Hilly areas of the north and northeast – a marginal creation of potential of around 0.04 mha is possible in Arunachal Pradesh, HP, J&K, Manipur, Tripura and Uttaranchal.

(iv) Deeper confined aquifers in the alluvial plains of U.P. Haryana & Punjab – a target of potential creation of 1.0 mha can be kept by tapping deeper confined aquifers from these

States. However, there is need to undertake detailed studies to establish the "Safe Yield" eliminating any adverse environmental impacts.

(v) Floodplain aquifers in the vicinity of rivers – The flood plains in the vicinity of rivers are good repositories of ground water. A planned management of ground water in the flood plain aquifers offers an excellent scope of its development to meet the additional requirements of water. The development of ground water in Yamuna flood plain area in Delhi is an example of scientific management of water resources. During rainy season, the flood water spreads over the plains but due to very shallow water table the rejected recharge result in river out flows. Central Ground Water Board constructed 95 tubewells in Palla Sector in the depth range of 38-50 m for Delhi Jal Board. The total pumpage during the pre-monsoon period of 2002 was 40 M.G.D. which created a regional drawdown of about 5 m in the flood plain area. It was observed that immediately after rainy season, the depleted aquifer fully recouped. Thus over-development of shallow aquifers in flood plains creates the necessary subsurface space for augmentation of groundwater from the river flows during the monsoon. Induced recharge is an effective management tool to meet the gap of demand and supply in areas adjacent to rivers with active flood plains.

There are number of ground water abstraction structures in the country which are very old, outlived their working life and not functional. These structures are though counted during census but in reality not contributing to irrigation potential. Such structures need replacement for restoration of old/already created potential. As suggested by NABARD, replacement may be planned at 0.5 mha during XI Plan in only safe and semi critical blocks/units. It is evident that this 0.5 mha is not additional potential creation but restoration of old/already created potential.

Sustainable ground water development and management need to be taken up by incorporating the studies on artificial recharge to ground water and rain water harvesting, management of salinity ingress in coastal regions, management in areas with high stage of ground water development, conjunctive use of surface and ground water and regulation of ground water development.

Minor Irrigation/Ground Water Development provides plenty of scope for employment of unskilled labor forces. It is, therefore, very important to link National Rural Employment Generation Act (NREGA) with Minor irrigation/Ground Water Development.

3.10 Strategies, Comprehensive approach and Action Plan for Flood Management:

The strategies for flood management for the XI Plan have already been listed out at Para 3.3.3. In addition, it is necessary that the States and Central Government undertake action along the path suggested below:

- Preparation of Master Plans supported by long term hydrological and meteorological data, field investigations and detailed studies of various alternatives. This needs to be done on priority and without delay, particularly in the chronically flood affected basins of the Ganga, the Brahmaputra, the Indus, the Mahanadi and the Godavari. In order that this work be taken up seriously, specific allocations of funds should be made to each State. The GFCC, the Brahmaputra Board which are entrusted with this task in their respective jurisdictions, should expedite necessary planning and investigations and ensure preparation of the Master Plans during the Eleventh Plan period.

- The Central Governments should ensure that the funds earmarked for flood management programme are not diverted to any other sector of development. The Central Water Commission, Ganga Flood Control Commission, Brahmaputra Board and the Planning Commission while scrutinizing/approving Five Year/Annual Plans may ensure that funds are not diverted and that the inter-State schemes suffering due to lack of matching allocations of funds by the concerned States receive priority both by the Centre and States.

- Monitoring of flood management was initiated by the Central Water Commission during the Sixth Plan period. This needs to be activated further.

- The Central Government needs to set up Flood Plain Management units to prepare flood risk maps and Flood Plain Zoning laws as necessary. The Central Water Commission should also set up similar flood plain zoning units not only to undertake surveys but also coordinate with the States in preparing flood risk maps and zoning regulations.

- Evaluation of completed flood management schemes to assess the areas actually protected against the investment made should be undertaken by the Central Government through credible independent agencies. The States should also take up this work independently for selected schemes under each category.

- Maintenance of flood management works frequently suffers due to inadequate allocation of funds under 'Non Plan'. It is suggested that a "Flood cess" be imposed on the beneficiaries in the areas provided with protection, on a certain minimum percentage basis (RBA's recommendations in this regard could be taken as a guide). Most of the States already have necessary legislation for this purpose.

- Generally it should be incumbent on States to maintain their flood related structures and assets. The Planning Commission may evolve a pro forma which will indicate the funds allocated for maintenance by the State under `Non-Plan'. Unless this figure matches with the recommendations made by the Finance Commission or the Expert Committee, the Planning Commission may not release the full allocation of Plan funds under the Flood Management Sector. The Resources Division of the Planning Commission could associate the Ministry of Water Resources and the Central Water Commission to evolve a suitable pro forma and policy decisions in the matter.

In order to implement the action plan and investment priority has been worked out which is brought out as under:

- On-going schemes of earlier plans be completed expeditiously to realize the benefits from the investments made so far, particularly where partial completion is fraught with serious damages during floods rendering the protected area prone to more flooding. All the on-going schemes spilling over to the XI Plan, in which at least 50% execution has taken place, should get first priority on fund allocation during the XI Plan.
- The cost for flood component in a multi-purpose water resources development projects as a long term solution to flood problem should be funded by Government of India.
- Maintenance of existing flood management works to optimize its benefits.

CHAPTER - 4

SECTOR REFORMS FOR OPTIMAL BENEFITS

4.1 Performance Evaluation of Irrigation Sector:

The strategy adopted through five year based planning process since 1951 has enabled the country to make considerable achievement in water resources development including irrigation, flood control, drinking water supply, hydro power generation, etc. As a result, the country, once a deficit State has now become marginally surplus in food production**.** This has inculcated a sense of food security in the country. However, the food grain production is required to be doubled to meet the requirement of about 420 million tonne in 2050 from the present level of about 210 million tonne. Irrigation Sector in the country, in general, has been facing multifarious problems which call for suitable sectoral reforms so that 'yet untapped irrigation potential' can be harnessed as early as possible in order to meet the challenge for food grain production in the coming years. In this connection periodical performance review of the irrigation sector is recommended. The internal performance review should be carried out every three years, while an external review, not involving the State owned institutions can be taken up every five years. Both of these reports should be published and debated in the legislatures and outside. This would be in addition to in-depth analysis of physical, economic, social and environmental post-project performance evaluation and the Central Government should provide all funds required for such studies.

4.2 Project Planning:

The development of river valley projects is a vital component in National Five Year Plan. In the beginning, several project proposals were considered, appraised and implemented in isolation without detailed consideration of long term overall development of water resources of the concerned river valley. Despite publication of guidelines for preparation of detailed project reports of irrigation and multipurpose projects and guidelines for preparation of river-basin master plan by Central Water Commission (CWC), Ministry of Water Resources, the same practice is more or less continued. Since every river basin has its own characteristics and its own developmental requirements, neither step by step approach for general planning is possible nor is the same desirable. Most developmental decisions are multi-objective in nature, involving physical, economic, social and environmental inputs. The planner has to coordinate existing water resources, developments, future requirements and aspirations of various stakeholders. Hence, before implementing individual projects the following aspects are required to be reconsidered in detail after project specific detailed surveys, investigations and studies:

- The Project as an Integral Part of the Basin Plan
- Objectives and Priorities
- Alternative Options for Project Concepts, Size, Needs and Benefits
- Technical, Financial, Environmental Sustainability and Reliability
- Special Considerations for Geographical and Social Factors

The optimum water plan of basins must address the following items:

- Inventory of selected water control and utilization works;
- Co-relation of existing projects in a basin;
- Co-ordination of system reservoirs;

- ❖ Co-ordination of ground water and surface water projects including projects for conjunctive use of sea water and artificial recharge of ground water;
- ❖ Co-ordination of water plan with other developments; and
- ❖ Outline of a phased programme of water resources development.

While deciding the programme of water resources development it is essential to consider priority uses of water viz. immediate needs of the region, priority of immediate needs, long range needs and reservation of water for such uses, type of structures required, alternative proposals for immediate and long term needs and alternative proposals for rehabilitation of population and environs. The aspects of multiple reuses and recycling of water need also be considered. The optimal planning should be attempted taking care of aspirations of all the basin states. This is likely to reduce inter-State disputes within the Basin. If so required setting up of a Joint regulatory/monitoring mechanism can be developed to take care of the interest of all the basin States.

The first requirement in this direction is collection and digitization of all available quality data regarding basin features, availability and utilization level of land, water and other resources of the basin, various legal, technical, environmental restraints, etc. Various data collected in past are though available but they are yet to be placed in a system mode, digitized and preserved in such a way that they can be readily retrieved as and when required. Thus high priority must be assigned for creation of Water Resource Information System.

To achieve the above objectives, the planning model for water resources development may be shifted from zonal planning to planning based on hydrological unit i.e. River Basin and for the same River Basin Organizations (RBOs) represented by all stakeholders should be constituted. In case of likely delay in constitution of RBOs, organizational set up of CWC in basins should be strengthened and given the task of creation of Regional Water Resource Information System and comprehensive basin planning in consultation with basin states and to the extent possible other stakeholders.

4.3 Project Appraisal:

The complex process of investment approval of Planning Commission preceded by techno-economic clearance after examination by Central Agencies is a procedural requirement for obtaining the plan finance and not a statutory requirement. As a result unmanageable number of unapproved projects has been taken up by the States for implementation.

As per List-II – State List, Seventh Schedule of Constitution Water is a State subject. However, this is subject to the provisions of List-I – Union List, where Union Government has given powers to regulate and develop interstate rivers and river valleys to the extent to which such regulation and development under the control of the Union is declared by Parliament by Law to the expedient in Public interest. Thus techno-economic appraisal and investment approval of the Planning Commission are not statutory requirements. However, in List-III, Concurrent List, Item-20, Economic and Social Planning has been indicated. Item-20(A), Population Control and Family Planning were added by a constitutional amendment in January 1977. It would, therefore, be appropriate to include investment clearance for interstate irrigation projects under Item-20 as Item-20(B) to give constitutional backing for Central clearance. Appraisal should necessarily be made mandatory to bring all water projects under the process of TAC/investment clearance, possibly through legislative measures in order to put hold on mushroom growth of unapproved projects, being carried through plan to plan, causing thin spreading of resources and inordinate delay in completion of projects.

Secondly at present, detailed documentation regarding examination of alternative options to optimally meet the overall objectives and aspirations in the light of basin plan is not given in the Feasibility Report/DPR. A detailed chapter analyzing the available options, even not involving large dams, should preferably be included in the DPR of future project proposals. Further costs to all and benefits to all, need to be considered in the economic analysis. All goods and services which are part of the project need to be valued in terms of real economic cost. Indirect benefits accruing to the economy need to be evaluated and considered. The benefit cost analysis procedures for flood control and erosion control projects need considerable improvements. The present procedures is, by and large, based on the "Before and After" Principle, whereas the "With and Without" Principle needs to be followed. The loss of an opportunity of development to an area affected due to floods is not reflected in the present procedures. Similarly the perpetual loss of land and its productivity needs to be reflected in the procedure of analyzing erosion control projects.

While the system has to be corrected to ensure that no project is grounded without statutory clearance of environment and forest aspects, it is desirable to simplify the procedure of environmental/forest clearance. The decision regarding sustainability of the project proposals in the background of environmental norms must be communicated within a compressed time frame in order to obviate precious loss of time and money.

Faster land acquisition procedures based more largely on negotiated settlements for increased satisfaction may have to be practiced. R&R Policies need to be documented in light of broad national guidelines and more detailed state guidelines should be readily available. These guidelines, inter-alia, need to be provided for a machinery for continuous monitoring of R&R and for quick quasi-judiciary settlement of grievances, by making small adjustments in the package to suit local conditions. It is important to ensure participation of project affected people, along with benefited people in the benefits derived.

4.4 Completion of projects:

Major Irrigation Projects have normal gestation period of 15-20 years while Medium Projects take 5-10 years for completion. Against these general normal, a large number of major as well as medium projects continuing as ongoing projects since last 30-40 years or more even. Among them, a number of projects have already achieved 90% or more of the targeted potential since long, but not declared complete yet. Such projects should be taken out from the list of ongoing projects. Besides there are a number of projects where pace of progress is very slow which need to be reviewed for further continuance. It is a common experience with most of the State Governments that the Irrigation projects are delayed/held up on account of several reasons, most agonizing among them are i) pending environmental and forest clearance, ii) land acquisition, iii) R&R Settlement issues & iv) Contractual litigation.

In order to save the projects from the vicious cycle of time and cost over-run, the following approach may be considered:

a) Project Authorities may go for multi-trade or turn-key type contracts,
b) There should be more balanced conditions and arbitration clauses,
c) State Governments may create separate non-lapsable funds, different from the main capital fund of the State, against the projects contracted for fast track completion,
d) When giving grants, the Central Government may ensure the States are committed to the above suggestions and the conditions and milestones may be fixed as is done in

case of externally aided projects. There may be problems in implementing such disciplining measures. But, in order to achieve the goal of National Progress, a mechanism should be in place such as formation of Irrigation Finance Board comprising of Professional Board of Directors with members drawn from various areas of expertise such as Irrigation, Management, Finance etc.

4.5 Dam Safety:

Although dam safety procedures are more or less well defined, there is no dam safety legislation. Since, in future, dam ownership may be diversified, such legislation may become necessary.

4.6 Interstate Problem:

In India all the major river basins and some among the medium river basins covering about 83% of the geographical area are inter-state. Water Resources Development Projects are planned and implemented by the respective State Governments as per their needs and priorities. Since, the development of the projects by one state on an inter-state river may affect the interests of other basin states, Inter-state co-operation is needed in the area of sharing of water in general and sharing of cost and benefit in case of projects in particular.

In past, many interstate agreements have been reached between co-basins states regarding equitable share of water resources through discussions and negotiation exhibiting interstate cooperation keeping national interest in the background. However, in case of some of the river basins where the issues could not be readily solved through negotiation, awards of Water Dispute Tribunals have formed the basis of water sharing. So far, about 114 interstate agreements have been entered into between the states and water sharing of three river basins has been decided by Water Disputes Tribunals. However, the process of adjudication through a tribunal is a long-drawn process.

Apart from sharing of water, cost and benefit, the issue of submergence often delays a negotiated settlement. There are two situations so far as submergence due to projects is concerned.

i) The project and benefit are lying in one state but submergence is extending to another state.
ii) The project and submergence are in one state with nominal benefits but major benefits are being derived by downstream state.

The points to be considered are:

- Whether only compensation is to be paid to the affected state from the project cost to meet the expenditure on land compensation and cost of R&R or
- A reasonable portion of benefit should also be shared with the State suffering major submergence to take care of the socio-economic/political aspects of the population coming in the area of submergence.

There is no set guidelines for dealing with the situations mentioned above. Mostly in case of partial submergence in the upstream states, only the cost of land acquisition and the cost of R&R are being made from the project estimate. However, in the second situation when location and submergence are in upstream state and irrigation benefits are derived in the

downstream state, benefits like power generation, drinking water supply, etc. are derived by the upstream state. As a result, interest of the upstream state in the project is being maintained. In the first situation, however, the upstream state is not interested in the project and the clearance of implementation of the project are often delayed; e.g. the issue of submergence in the territory of Orissa and Chattisgarh due to contemplated Polavaram Project in Andhra Pradesh is yet to be resolved.

It is suggested that water and water resources projects must be considered as National Assets and there must be a platform such as Water Regulatory Authority to timely and effectively settle all such interstate issues in a National perspective. In case a part of the benefit is extended to the upstream state to take care of their socio-economic/political compulsions, it will be possible to expedite implementation of a number of valuable projects in National interest. Though the interstate issues are to be resolved within the same country, lesson can be taken from the Columbia River Treaty between United States of America and Canada (1961) vide which both United States of America and Canada developed their water resources (hydropower) separately but Canada allowed the United States the use of Canadian soil for the storage of water for the production of hydroelectric power and control of floods and Canada in return receives compensation in the form of electricity and dollars.

4.7 Institutional re-orientation and strengthening:

In the changing scenario of irrigation sector in the country, role of government institutions need to be redefined, re-oriented and suitably strengthened wherever necessary. Formation of RBOs as brought out in Para 4.2 is considered to be a step in the right direction. However, till such institutions are set up, reorganization of the existing framework and setting up of cohesive, autonomous self contained authority in Brahmaputra Valley as North East Water Resources Authority may be considered. In view of the random nature of occurrence of floods being experienced in the recent years, setting up of National Flood Management Commission/Board (NFMB) may be considered which will coordinate and oversee all the activities relating to flood management in the country. Existing central institutions in flood control sector will be brought under NFMB, and, simultaneously, these institutions should also be suitably strengthened to take more active role in the domain of flood management.

There is need for strengthening of ground water organizations in different states for effective ground water management. An appropriate mechanism may be developed for proper coordination among CGWB and State Ground Water Organizations.

CHAPTER - 5

SIZE OF THE XI PLAN

5.1 State Plan proposals:

Size of the XI Plan for Irrigation, Flood Control and Command Area Development has been worked out on the basis of information collected from the State Governments as well as the concerned Central Institutions. All the State Irrigation/Water Resources Departments were requested to send their XI plan proposals along with position of likely financial and physical performance of X Plan in prescribed formats. While requisite data/information has been received from most of the States, some of the States have not furnished the same. Data received from the State Governments and those available in CWC/ MoWR have been utilized for working out the State plan proposals.

5.1.1 MMI Sector:

The state-wise position of fund requirement and proposed physical achievement is given at **Annex.5.1**. The proposals received from the States have been analyzed and requirement of fund for various segments under MMI have been worked out based on the guiding principles as stated below:

a) Guiding Principles

While analyzing available data, following criteria have been adopted in respect of MMI Sector:

- New proposals of X Plan with expenditure less than 5% have been treated as new proposals of XI plan.
- Outlay equal to spillover cost has been considered for the projects spilled over from X plan and due for completion in XI plan with due consideration of likely grant components for projects under AIBP.
- Proportionate outlay has been kept for projects likely to spill from XI plan to XII plan.
- Provision for liabilities for completed projects has been kept as indicated by the concerned State Governments.
- Major projects for which expenditure incurred so far is more than 70% of LEC and medium projects with expenditure incurred more than 50% of LEC have been considered completing in XI Plan. However, for ERM projects the completion target set by the State Governments have been accepted without any change.

Based on the above guiding principles, the Working Group has analyzed the number of projects likely to be completed in XI Plan; the list of such projects is given at **Annex.5.2**.

b) Liability of the completed project:

Altogether, 178 projects including **48 major, 91 medium and 39 ERM projects** are likely to be completed during X Plan, for which the State Governments have indicated carry over

financial liabilities on account of minor left-out works, disputed claims, etc. in XI Plan. Though precise amount required for such purposes is not available at this stage, a provision of Rs.2200 crore has been made in the XI plan proposal towards liabilities of the completed projects.

c) Ongoing Projects:

Total number of ongoing projects is likely to be 477 including 166 major, 222 medium and 89 ERM projects in the XI Plan. From the present financial and physical status of the ongoing projects, it is anticipated that **72 major, 133 medium and 132 ERM projects** (including 58 new ERM projects of XI Plan) may be completed during XI Plan with adequate provision of funds. The proposed outlay for ongoing projects in the XI plan is kept at Rs.83,750 crore excluding the funds to be available under AIBP.

d) New Projects:

There are proposals for 7**8 major, 145 medium and 86 ERM new projects** in the XI plan. A total of Rs.30,670 crore have been provided for the new projects of the XI plan. However, it is recommended that emphasis should be laid on completion of more number of ongoing projects instead of taking up new projects resulting in thin spreading of the scarce resources.

e) Special repairs of Existing Irrigation System:

Apart from normal maintenance works, special repair of structures become necessary at times due to unforeseen eventualities. Such repairs are normally to be undertaken on exigency basis. Accordingly, an overall provision of Rs.490 crore has been made in the XI plan for Special Repairs of Existing Irrigation System.

f) Dam Safety Measures:

Safety of Dams and water related structures are very important from disaster prevention point of view. In India, works on dam safety measures is in developing stage at present. In recognition of the fact that dam safety measures need to be adequately developed in the country, Rs.2010 crore has been provided in the XI plan towards 'Dam Safety Measures'.

g) Improved Water Management:

The purpose of improved water management is increased agriculture productivity, improved irrigation systems based on optimal targeted efficiency and equity, realistic assessment of potential created and utilized using State of Art Technology, bridging the gap between potential created and utilized, providing software support to farmers' organizations, etc. Adequate and timely maintenance of an irrigation system is imperative for proper irrigation management. The minimum essential works necessary for implementation of operational plan for old system suffering from operational deficiencies include repairs and renovations to existing structures, field channels and drains, measuring devices, upgrading of O&M facilities and equipment. Modernization and up gradation of State Organizations are required to increase institutional capabilities in order to translate improved water management strategies. A tentative amount of Rs.350 crore for all the states are provided in the XI plan for this purpose. This includes provision for modernization/up gradation of State Organizations, strengthening of their survey and design capabilities, organizational set up to reduce the gap between potential created and utilized.

h) Water Development:

Outlay for construction stage consultancy/transfer of technology, Designs, Surveys & Investigations, Research & Development and Training has been provided under the head of "Water Development". Besides, a proposal for National Hydrology project has also been made.

Overall provision under "Water Development" with subhead-wise break-up is given as under:-

	(Rs. in Crore)
*Construction stage consultancy/ Transfer of technology,	Rs. 100.00
*Designs, Surveys & Investigations	Rs. 350.00
*Research & Development	Rs. 140.00
*Training	Rs. 40.00
*National Hydrology Project	Rs. 150.00
*Total	*Rs. 780.00*

i) Irrigation Maintenance Fund:

In view of the inadequate maintenance of existing irrigation projects due to paucity of funds for maintenance works, it has been decided to provide adequate fund for the purpose. Accordingly, a provision of Rs. 7000 crore has been kept under State Sector.

j) Online Monitoring of Projects:

Monitoring is considered a very effective management tool in any developmental activities. In irrigation sector also the same method is applicable in pursuing progress and achievement. It has been quite often experienced that information on actual level of progress of the ongoing projects are not readily available. It is, therefore, necessary that online monitoring system should be developed at the State level with appropriate linkage with Central Government. Accordingly, a provision of Rs.5750 crore has been kept in the outlay for development of online monitoring system.

k) Physical Achievements:

As indicated by the State Governments, irrigation potential of 12 mha will be added in the XI Plan through completion of the projects as well as advancement of the other ongoing projects. However, in view of the past trend and the level of achievement in X Plan and outlay proposal for the XI Plan, the Working Group has rationalized the target to **9.00 mha**.

The total budget demand for MMI Sector has been kept as 1,33,000 crore under the State Plan. The anticipated physical achievement will largely depend on timely and adequate flow of fund assuming that other associated factors remain favourable.

5.1.2 MI Sector

a) Surface water

The Land Use Surveys conducted in different States reveal that there is a scope for development of irrigation using surface water in about 0.9 mha area in North East, large part of which is likely to be taken up under minor irrigation. There is also a scope of development of

minor irrigation in AP, Chhatisgarh, MP, Karnataka, Maharashtra, WB, Gujarat and Rajasthan. The priority is to be given for identification and implementation of minor irrigation projects in drought prone and tribal dominated areas. Further, as per MI census 2001, there is a potential gap of 5 mha in minor surface water scheme; about 72000 tanks and storages have gone into disuse, accounting for a loss of irrigation potential of about 0.94 mha. These water bodies need to be revived and performance of surface MI Projects is required to be enhanced by improving inflow, augmentation of storages, improving the efficiency of conveyance systems etc. Thus, a provision of Rs.6600 crore has been kept in State sector excluding the funds available under AIBP for development of surface water target potential of 1.5 mha and a provision of Rs.7500 crore has been kept for restoration of water bodies and ERM schemes in this sector in XI Plan. In addition, a provision of Rs.1500 crore has also been kept as Irrigation Maintenance Fund for Projects under Minor Irrigation using Surface Water.

b) Ground water

Looking at the overall stage of Ground Water Development in the Country (58% appox.), there is a good scope of Ground Water Development. It is proposed to create irrigation potential of 4.5 mha through Ground Water Development in XI Plan. Out of this 3.5 mha is to be created from the unconfined aquifers (i.e. active recharge zone) mainly underlying alluvial areas of Assam, Bihar, UP and West Bengal States where the stage of Ground Water Development is very low and rest of country covering hard rock and hilly areas where the aquifers are under unconfined to semi-confined condition. The remaining 1.0 mha is to be created by tapping deeper unconfined aquifers mainly from the areas where over exploited/critical blocks is large such as Punjab, Haryana, Gujarat etc. Accordingly, a provision of Rs.15750 crore has been kept for Ground Water Development and a provision of Rs.3000 crore has been kept for schemes on Micro Irrigation, artificial recharge and rainwater harvesting under State sector for XI Plan. In addition, a provision of Rs.1500 crore has also been kept as Irrigation Maintenance Fund for Ground Water Projects under Minor Irrigation Sector.

5.1.3 Command Area Development:

It has been estimated that there will be a balance executable CCA of about 7 mha in the ongoing projects under the CADWM Programme by the end of X Plan. It has been proposed to complete this balance CCA in next two Five Year Plan Periods. It has also been considered to keep a lump sum provision of 50% for new projects which are likely to be included under the programme during this period. Accordingly, a provision of Rs.2000 crore has been made for CAD & WM programme in the State Sector. Besides provisions of Rs.650 crore and Rs.350 crore have been respectively kept for the schemes on correction of conveyance deficiencies and schemes on reclamation of water-logged, saline and alkaline lands in the State sector under this programme for the XI Plan.

5.1.4 Flood Control:

After assessment of the extent of flood problem as well as perusal of data and information received from the State Governments, the Working Group has proposed a total outlay of Rs.10200 crore, excluding the central funding, to benefit an area of about 2.18 mha. State-wise break-up of the proposed allocation of fund is given at **Annex.5.3.**

5.2. Central Sector Plan:

At present 58 plan schemes are under operation in MoWR which include 51 Central Sector Schemes, 3 centrally sponsored schemes and 4 State sector schemes. Since the objectives of several schemes are overlapping, clubbing of the schemes of similar functions and objectives into a few distinct and broad based generic schemes has been recommended. The schemes which have achieved the set targets should be discontinued and some of the schemes continuing from Plan to Plan should be transferred to Non-Plan. It is also proposed to redefine the broader areas of activities/sectors. Accordingly, generic schemes emerged are discussed as under.

5.2.1 Accelerated Irrigation Benefit Programme (AIBP):

This existing scheme under State sector is proposed to be included in central sector as incentive support scheme. In view of contemplated increased pace of creation of irrigation potential and to provide additional grant to projects serving tribal/drought prone areas, projects in States where irrigation development is below national average and projects to be provided assistance under PM package, a provision of Rs.25400 crore has been kept for this programme under central sector of XI Plan inclusive of both MMI and MI sectors.

5.2.2 CAD & WM Programme:

This existing centrally sponsored scheme for "Command Area Development and Water Management Programme" is proposed to be continued. However, due emphasis has to be given on Participatory Irrigation Management (PIM) and capacity building to users under this programme. Keeping this in view and the enhanced Central Share of 75% in the funding pattern, provisions of Rs. 7500 crore have been made for CAD &WM programme, the schemes on correction of conveyance deficiencies and schemes on reclamation of water-logged, saline and alkaline lands in the central sector for the XI Plan.

5.2.3 Repair, Renovation and Restoration of Water Bodies:

This scheme, presently a State sector scheme, is proposed to be included in central sector as incentive support scheme. A provision of Rs.3500 crore has been kept for this scheme under central sector in XI Plan.

5.2.4 Flood management programme:

This centrally sponsored scheme includes the continuing schemes related to Flood Management Works in Ganga Basin/Brahamaputra & Barak Basin and improvement of drainage in Brahamaputra, flood management and anti erosion works being executed by Brahamputra Board, feasibility studies of channalisation of Brahamputra etc. This scheme will also include activities to be taken up in all the other basins throughout the country such as Flood proofing programme, critical flood control and anti erosion works including sea erosion, improvement in drainage in critical areas, inundation modeling of flood disaster preparedness, Grant-in-Aid to Brahamputra Board and Ganga Flood Control Commission, Strengthening of Flood Management Organisation, CWC, setting up of National Flood Management Commission, share cost for flood component in multi-purpose water resources development projects etc. A provision of Rs. 8500 crore has been kept for this scheme under Central sector in XI Plan. Out of this Rs.7000 crore is for the Centrally Sponsored Programme and Rs.1500 crore is meant for the Central Sector Schemes of GFCC, Brahamputra Board and CWC.

5.2.5 Development of Water Resources Information System:

Planning of water resources development and management improves with the availability of data. Water resources projects were planned and executed even when long term rainfall or runoff data was not available. With the availability of modern computing technology, the State of the Art of technologies such as GPS, GIS, Remote Sensing, Telemetry, RDBMS, MIS, DSS, Expert Systems, SCADA etc. it is possible to further improve the planning and operation of the projects. But this requires substantial amount of spatial and time series data on all aspects including water quality data, data related to snow hydrology, sedimentation, river morphology, minor irrigation etc. As emphasized in the National Water Policy, a standardized National Information System should be established with a network of data banks and databases, integrating and strengthening the existing central and State level agencies and improving the quality of data and the processing capabilities. Often there is a considerable time lag between the developmental activities and reporting of physical and financial progress. It is considered essential to have "On-line monitoring system" for having up to date information of physical and financial progress of ongoing projects in different states. This can be achieved by strengthening the present monitoring mechanism, introduction of remote sensing technique in the monitoring system and providing Central Assistance to projects for time bound communication of monitoring related information. It is in this background all the activities of data collection including monitoring have been merged under this Central sector scheme of "Development Water Resources Information System" and a provision of Rs.230 crore has been kept under Central sector in XI Plan for this scheme.

5.2.6 Hydrology project:

The system being established under Hydrology Project need to be developed as operational Management System rather than creation of the hydrological system alone. The project component should include decision support system (DSS) – real time, operational management system, etc. involving hardware, software and appropriate training need to be established in all the States including the States in Ganga and Brahmaputra River Systems.

The scheme of "Hydrology Project" is proposed to cover all activities identified under World Bank Assistance for the project and will include the continuing schemes of the hydrology related to MoWR, CWC, CGWB, CWPRS and NIH. A provision of Rs.180 crore has been kept for this scheme under Central sector in XI Plan.

5.2.7 Ground water management and regulation:

The scheme will cover all activities related to ground water management studies with an objective to evolve sustainable strategies including exploration, investigations, artificial recharge to ground water,conjunctive use of surface and ground water resources, geogenic contamination etc. The scheme will include existing scheme of Ground Water Survey, Exploration & Investigations, Artificial Recharge of ground water and Central Ground Water Authority. A provision of Rs. 515 crore has been kept for this scheme under Central sector in XI Plan

5.2.8 Investigation of water resources development schemes:

This scheme will cover the activities related to survey, field investigation and preparation of DPR and feasibility reports, and will include the continuing schemes related to Kirthai and other multipurpose project in Indus basin, Investigation of water resources development in North

eastern states, Investigation for Teesta HEP, Ranjeet HEP-II and IV and Manas Teesta Link, schemes for feasibility studies for Inter Basin transfer of water etc. A provision of Rs.290 crore has been kept for this scheme under Central sector in XI Plan.

5.2.9 River management activities in Border Rivers:

This scheme will cover all activities to be taken up in Co-operation with neighboring countries and will include investigation of projects in Nepal and Bhutan, the schemes relating to Hydrological Observations of rivers originating from Bhutan, joint observation of rivers common to Bangladesh and neighboring countries, flood forecasting in rivers common to India and Nepal, survey and investigation of Kosi High Dam, pre construction and other activities of Pancheswar Project, maintenance of flood protection work of Kosi and Gandak project, and extension of embankment on Lal Bakeya, Kamla, Bagmati and Khando rivers. A provision of Rs.1250 crore has been kept for this scheme under Central sector in XI Plan. This includes share cost of Flood Management component of Tipaimukh Dam.

5.2.10 Research and Development:

This scheme will cover all activities related to Research and Development pertaining to MMI, MI, CAD & WM, continuation and strengthening of NIH and INCOH, specialized unit in CWC, Review of Basin-wise studies of water availability and sectoral demands, Geo-technical investigation for river valley project, applied/basic research in structures, advance research and consultancy, up gradation of laboratory and field testing facilities, remote sensing techniques, off shore data, earth science laboratory etc, modernization and up gradation of research facilities at CWPRS, strengthening of regional centers of NIH, morphological studies and performance evaluation of flood management, science and technologies schemes, studies and monitoring of glaciers and glacier lakes in Himalayas, ground water system behaviour; coastal aquifer systems; Rain water harvesting and artificial recharge to ground water; ground water modeling; geogenic contamination in ground water; radio-isotope applications, etc. A provision of Rs.295 crore has been kept for this scheme under Central sector in XI Plan.

5.2.11 National Water Academy:

This scheme will cover the activities related to training to in-service engineers from State and Centre organizations in the area of Water Resources Development, particularly Integrated River Basin Planning and Management and other subjects related to Water Resources Development and Management. A provision of Rs.15 crore has been kept for this scheme under Central sector in XI Plan.

5.2.12 Rajiv Gandhi National Institute of Training & Research:

This scheme will cover the activities to provide a base for organizing and upgrading the knowledge and skills of ground water professionals in Planning, Investigation, Development, Management, Augmentation, Conservation and Protection of Ground Water Resources. A provision of Rs.25 crore has been kept for this scheme under Central sector in XI Plan.

5.2.13 Information, education and communication:

The importance of public awareness on issues related to water cannot be over emphasized. Past decade has seen increasing resistance to river valley projects. Not only that, the voice of the dissent is getting louder and shriller and more ill-informed. It is therefore necessary to educate the masses about various aspects of water resources. Further, the

message of water conservation and its judicious use is also required to reach common people. Towards this objective, it is proposed to take up/continue the following activities:

- Dissemination of water related information to public at large.
- Incorporation of water related information in school curriculum to impart basic knowledge of water resources to children and youths.
- Participation in events like IITF, Krishi Expo etc,;
- Participation in Republic Day Parade through tableau;
- Publication of publicity material:
- Advertisement through print media including newspaper magazine etc.;
- Specific awareness programmes for women;
- Distribution of awards;
- Institution of quiz competitions for school students;
- Organizing World Water Day, Water Resources Day etc.;
- Campaign though electronic media;
- Grant-in-Aid to NGOs for mass awareness purposes; and
- Developmental and Public-Private Partnership activity.

Major thrust on mass awareness and media related activities are envisaged during the XI Plan. A new scheme for information, education and communication is therefore proposed and a provision of Rs.100 crore has been kept under Central sector for this scheme in XI Plan.

5.2.14 Pagladia dam project:

This is a continuing scheme of Brahamputra Board and a provision of Rs.850 crore has been kept for this scheme in XI Plan.

5.2.15 River Basin Organization/Authority:

Creation of River Basin Organization/Authority has been under consideration since long. It is proposed to initiate the activities in this direction in the XI Plan. The Working Group recommended reorganization of field formation of Central Water Commission in the line of river basin concept as a first step for initiation of systematic basin wise studies and subsequent continuity till such time the River Basin Organizations are formed. It is proposed to constitute RBOs in at least three river basins including setting up of North Eastern Water Resources Authorities during XI Plan. This is a new scheme being proposed for implementation and a provision of Rs.150 crore has been kept in the XI Plan proposal for this purpose.

5.2.16 Flood Forecasting:

The scheme will include the activities of collection of Hydro-meteorological data and issue of Flood Forecasts in India and will include the continuing scheme related to Strengthening & Modernization of FF & HO network in Brahamaputra & Barak basin and Establishment and Modernization of flood forecasting network in India including inflow forecasts. A provision of Rs.150 crore has been kept for this scheme under Central sector in XI Plan.

5.2.17 Infrastructure development:

This scheme will include the activities related to lands & building and IT Development and will include the continuing schemes related to Land and Buildings of CWC, Lands and Buildings of GFCC, Lands and building of CGWB, IT Development of MoWR, Upgradation and

Modernisation of Computerisation and Information system of CWC etc. A provision of Rs.125 crore has been kept for this scheme under Central sector in XI Plan.

5.2.18 Dam rehabilitation and improvement project:

India has about 4525 dams and 475 out of them are under construction. Dam safety is considered an inherent function in the planning, design, construction, maintenance and operation of dams. "National Committee on Dam Safety" (NCDS) was constituted by Government of India in October 1987 by broad-basing the existing Standing Committee to included all States having significant number of large dams and some of the agencies/organizations having sufficient large dams.

The dam safety practices at the Centre as well as in the States is a continuous process requiring regular improvement and up gradation of technical knowledge to be in line with the latest state-of-art techniques and international practices and techniques, which are being upgrades and improved continually. Only a beginning has been made for an active dam safety programme in the country and lot more is essentially required to be achieved as structural and hydrological safety of about 4050 constructed dams is to be assessed in accordance with the present dam safety practices and standards for which the State Governments are ill equipped both in expertise and analytical tools and are looking forward to the Centre for technical expertise. It was with this object and in order to give a boost to the dam safety activities in the country that the World Bank assisted DSARP was taken up at the Centre and four States, which helped in institutional strengthening as well as enhancement of safety status at selected dams through rehabilitation and provision of basic dam safety facilities.

It is proposed to avail further assistance from the World Bank or other international agencies to further upgrade the dam safety environment in the country.

The Project would have the following broad objectives:

a) to strengthen and further consolidate the institutional framework of Dam Safety Assurance in CWC and the participating States.

b) to upgrade the physical features in and around selected dams to enhance their safety status as required through remedial works, basic facilities improvements and additions.

c) to prepare disaster management plans as per dam risk management guidelines, for the areas downstream of the dams as these are seen to be under high risk at the time of passing design floods over the spillways.

The scheme will include the existing scheme of up-gradation of facilities and skills in CWC regarding Dam safety and rehabilitation and will also include the related activities in respect of proposed World Bank assisted project for dam rehabilitation and improvement. A provision of Rs.510 crore has been kept for this scheme under Central sector in XI Plan.

5.2.19 Farraka barrage project:

It is proposed to continue this scheme in XI Plan in its present form. A provision of Rs.165 crore has been kept for this scheme under Central sector in XI Plan.

5.3 Overall size of XI Plan

5.3.1 Outlay

Summary of the proposals as discussed above is brought out here under with corresponding proposed outlay.

STATE PLAN OUTLAY			
Sector	**Sl. No.**	**Item**	**Amount**
MMI	1	Liabilities of completed projects	2200
	2	Ongoing Projects	83750
	3	New projects	30670
	4	Special repairs of existing irrigation system	490
	5	Dam safety measures	2010
	6	Improved Water Management	350
	7	Water Development	780
		STATE PLAN OUTLAY	
		Amount	
		* Construction stage consultancy/Transfer of technology — 100	
		* Designs, Surveys & Investigations — 350	
		* Research & Development — 140	
		* Training — 40	
		* National Hydrology Project — 150	
		* Total — 780	
		Provision for Irrigation Maintenance Fund	7000
		Online Monitoring of Projects	5750
		Sub Total	**133000**
MI	1	Surface Water	6600
		Provision for Irrigation Maintenance Fund	1500
		Sub Total	**8100**
	2	Ground Water	15750
		Provision for Irrigation Maintenance Fund	1500
		Schemes on Micro Irrigation, artificial recharge & rainwater harvesting.	3000
		Sub Total	**20250**
	3	Restoration of water bodies & ERM schemes	7500
		Sub Total	**35850**
CAD &WM	1	CADWM Programme	2000
	2	Scheme on correction of conveyance deficiencies	650
	3	Scheme on reclamation of water logged, saline and alkaline lands	350
		Sub Total	**3000**
FC	1	Flood Control	**10200**
		Grand total	**182050**

CENTRAL PLAN OUTLAY			
Scheme	**Sl. No.**	**Item**	**Amount**
CSS	1	C A D and W M Programme	7500
	2	Flood Management Programme	8500
		Sub-Total	**16000**
CS	1	Accelerated Irrigation Benefit Programme (AIBP)	25400
	2	Repair, renovation and restoration of water bodies	3500
	3	Development of Water Resources Information System	230
	4	Hydrology projects	180
	5	Ground Water Management and Regulations	515
	6	Investigation of water resources development schemes	290
	7	River management activities in border rivers	1250
	8	R & D	295
	9	National Water Acadamy	15
	10	Rajiv Gandhi National Institute of Traning and Research	25
	11	Info. Edu. And Communication	100
	12	Pagladia dam project	850
	13	River basin organisation/authority	150
	14	Flood forecasting	150
	15	Infrastructure development	125
	16	Dam rehabilitation and improvement project	510
	17	Farraka barrage project	165
		Sub-total	**33750**
		Total	**49750**

The overall outlay for the XI Plan is as under:

	Rs.in crore.
State Plan	1,82,050
Central Plan	49,750
Total	2,31,800

5.3.2 Physical target:

1. Completion of projects:

	Major	Medium	ERM
No. of projects included in XI Plan			
Ongoing projects of XI Plan	166	222	89
New projects of XI Plan	78	145	86
Total	244	367	175
Projects likely to be completed in XI Plan	72	133	132

2. Creation of potential (in mha):

MMI Sector		9.00
MI Sector		7.00
▪ Surface water	1.50	
▪ Ground water	4.50	
▪ Restoration of water bodies and ERM	1.00	

3. Physical Targets for CAD&WM (in mha):

Development of CCA	3.5
Correction of conveyance deficiency	6.25
Reclaimation of water logged, saline and alkaline lands	0.5

4. Physical Target under Flood Control Works (mha):

Area to be benefited against flood : 2.18

5.3.3 Cost of creation of irrigation potential

MMI		
Outlay under State sector (Rs. cr.)	**153000**	
Targetted Potential Creation (mha)	**9.00**	
Cost of creation of irrigation potential (Rs./ha)		**170000**
MI		
Surface Water		
Outlay (Rs. cr.)	**13500**	
Targetted Potential Creation (mha)	**1.50**	
Cost of creation of irrigation potential(Rs./ha)		**90000**
Ground Water		
Outlay (Rs. cr.)	**20250**	
Targetted Potential Creation (mha)	**4.50**	
Cost of creation of irrigation potential (Rs./ha)		**45000**
RRR of Water Bodies		
Outlay (Rs. cr.)	**11000**	
Targetted Potential Creation (mha)	**1.00**	
Cost of creation of irrigation potential (Rs./ha)		**110000**

5.4 Employment generation:

Water Resources Projects, particularly, irrigation development and flood control works generate significant employment opportunities during construction period as well as in the post-project phase. These sectors provide for both direct and indirect employment for both skilled and unskilled labor forces. Direct employment generation include highly skilled, semi-skilled and unskilled personnels during construction stage. High-end jobs include engineers, technicians,

administrative personnels, service sector professionals, etc. Indirect employment opportunities expand in i) Farm sector, ii) Live stock sector, iii) Rural non-farm sector. Besides, in the post project phase of major projects, the secondary and tertiary stage developments lead to immense and wide scope for employment generation in a pattern of snowballing effect.

5.4.1 MMI Sector:

The Working Group for X Plan worked out a norm for direct employment as 100 Person years (pys) per crore of investment. The norm for indirect employment was taken as 65 Person days per ha for farm employment, 10 Person days per ha for live stock segment and 25 Person days per ha for rural non-farm segment. In the present report same norms are adopted for indirect employment while for direct employment adjustment due to inflation at the rate of 5% per year has been made. Accordingly, the direct employment is taken as 75 pys per crore of investment during XI Plan. Assuming the existing man power will contribute similar turn over corresponding to Rs.71,000 crore provided in MMI sector during X Plan (current value as Rs.92,000 crore assuming 5% as annual rate of inflation), the additional investment in the XI Plan will be about Rs.28000 crore (1,20,000 – 92,000). On this consideration, additional direct employment in XI Plan is estimated to be 2.1 million person years.

Creation of indirect employment is dependent on additional potential utilization in XI Plan. Since there is a time lag between potential creation and potential utilization, the potential utilization in XI Plan will comprise of harnessing the potential already created in the X Plan as well as part utilization of the potential likely to be created in XI Plan. The Working Group sets a target of about 9 mha of new potential during XI Plan. It is anticipated that potential of about 6 mha will be created in the X Plan. Assuming additional utilization of potential in the XI Plan will be 3 mha, 4.25 mha, 5.5 mha, 6.75 mha, 8 mha in the successive years of the plan period, total indirect employment will be about 2750 million person days i.e. about 10 million person years. In addition, pisciculture in the created water bodies will also add to about 0.1 million person years as assessed by the Working Group of X Plan. Thus, total indirect employment will be about 10.1 million person years.

5.4.2 MI Sector:

The minor irrigation sector predominantly provides employment opportunity for the unskilled labour forces which account for about 80% of the labour cost. Keeping in view the existing position of employment created during X Plan, the additional employment generation in the XI Plan corresponding to a proposed outlay of about Rs.40,000 crore has been estimated to be 5 million person years for direct employment and 1.05 million pys in farm segment through indirect employment.

5.4.3 Flood Control:

As against the outlay of Rs.15,773 crore proposed for XI Plan, the direct employment generation has been assessed to be about 0.5 million pys. Thus, during XI Plan employment potential through flood control works will be about 2.5 million pys.

5.4.4 Overall employment potential:

(Million pys)

	Direct employment	Indirect employment
MMI	2.1	10.1
MI	5	1.05
Flood Control	2.5	-
Total :	9.6	11.15

5.5 Growth in Food Grain Production:

Presently the average yield rate of food grains in the country is considered as about 2.5 tonne per ha in irrigated command and about 1.0 tonne per ha in rain-fed areas. Therefore, with introduction of irrigated agriculture, it can be presumed that there will be a net increase in food grain production by about 1.5 tonne per ha. As per the target set for the XI Plan at around 16.5 mha for creation of irrigation potential, it is likely that the food grain production will enhance by about 25 million tonne when the created potential will be put into actual utilization.

Annex – A

25(1)/05-WR

Planning Commission
Water Resources Division

Yojana Bhavan,
Sansad Marg,
New Delhi 110001.

Dated: 17.2.06

ORDER

Subject: Constitution of the Working Group on Water Resources for the Eleventh Five-Year Plan (2007-2012).

With a view to formulate the Eleventh Five Year Plan (2007-2012) it has been decided to set up a Working Group on Water Resources Sector with the following Composition and Terms of Reference:

1. Secretary, Ministry of Water Resources	Chairman
2. Additional Secretary, Ministry of Water Resources	Member
3. Chairman, Central Water Commission	Member
4. Member (Water Planning and Projects), Central Water Commission	Member
5. Member (River Management), Central Water Commission	Member
6. Adviser (Water Resources), Planning Commission	Member
7. Joint Secretary and Financial Adviser, Ministry of Water Resources	Member
8. Commissioner (Policy and Planning), Ministry of Water Resources	Member
9. Commissioner (Projects), Ministry of Water Resources	Member
10. Commissioner (CAD&WM), Ministry of Water Resources	Member
11. Commissioner (Ganga), Ministry of Water Resources	Member
12. Commissioner (B&B), Ministry of Water Resources	Member
13. Commissioner (GW), Ministry of Water Resources	Member
14. Secretary (Irrigation &Flood Control), Government of Tripura	Member
15. Principal Secretary (Water Resources), Government of Madhya Pradesh	Member
16. Principal Secretary (Water Resources), Government of Karnataka	Member
17. Secretary (Water Resources), Government of Rajasthan	Member
18. Chief Engineer, Project Monitoring Organization, Central Water Commission	Member-Convener

Non Official Members

19. Shri A.D.Mohile, Former Chairman, Central Water Commission	Member
20. Shri R.S.Saksena, Former Chief Engineer (Minor Irrigation), Ministry of Agriculture &Irrigation	Member
21. Shri Anil C.Shah, Chairman, Development Support Centre, Ahmedabad	Member
22. Dr Tushaar Shah, International Water Management Institute, Vallabh Vidhya Nagar, Gujarat	Member

Terms of Reference

1. Maior& Medium Irrigation

(i) To review the physical and financial performance of the sector during the Tenth Plan, suggest strategies and Plan size for Eleventh Plan.

(ii) To suggest strategies for improving irrigation efficiencies, revenue returns and sector reforms for optimum benefits from the .sector.

2. Minor Irrigation

(i) To review the physical and financial performance of the sector during the Tenth Plan, suggest strategies and Plan size for Eleventh Plan. . .

(ii) To suggest strategies for reviving/improving the traditional water storage systems, which are directly linked to agriculture and their sustainability.

(iii) To suggest strategy for minor irrigation through ground water development keeping in view the ground water situation in the country.

3. Command Area Development

(i) To review the physical and financial performance of the sector during the Tenth Plan, suggest strategies and Plan size for Eleventh Plan.

(ii) To examine whether the CAD can be the part of the major & medium project; suggest measures for efficient irrigation water delivery through appropriate systems.

4. Flood Management

(i) To review the physical and financial performance of the sector during the Tenth Plan, suggest strategies and Plan size for the Eleventh Plan.

(ii) To suggest strategies for flood management. and action plan for comprehensive approach for the same.

5. Private Sector and Beneficiaries Participation

. (i) To review the present status of farmers participation programme including the existing legal, organizational and institutional arrangements for Participatory Irrigation Management (PIM), the physical and financial achievements, suggest strategy and action plan for Eleventh Plan.

(ii) To suggest ways and means of sustaining the PIM with special reference to involvement of NGO's and Self Help Groups.

(iii) To examine the extent of privatization of irrigation projects and suggest areas where immediate implementation is possible.

6. The Working Group is empowered to constitute Sub-Groups for specific subjects viz. one each for irrigation and flood management.

.

7. Expenditure of the Members on TA/DA in connection with the meetings will be borne by the respective Departments -/Ministries/ Organizations. Expenditure in respect of non-official Members will be borne by the Planning Commission as per rules and regulations of TA/DA as applicable to Group A Officers of the Government of India.

8. The Working Group shall submit its final report to the Planning Commission by July 31st, 2006.

Sd./-
(K.K.Chhabra)
Under Secretary (Administration)

To

1. Chairman and all Members of the Working Group.
2. PS to Deputy Chairman, Planning Commission
3. PS to all Members/Minister of State, Planning Commission
4. Sr. PPS to Member-Secretary, Planning Commission
5. AII Advisers/Heads of Division, Planning Commission. 6.Director (PC), Planning Commission
7. For general information in Yojana Bhawan through email.

Sd./-
(K.K.Chhabra)
Under Secretary (Administration)

Annex-B

25(1)/05-WR
Government of India
Planning Commission
(Water Resources Division)

Yojana Bhavan, Sansad Marg,
New Delhi 110001, Dated 7.3.06

ORDER

Sub: Working Group on Water Resources for the Eleventh Five-Year Plan (2007-2012).

In continuation of Planning Commission's Order of even number dated 17.2.06, it has been decided with the approval of the Competent Authority to include Joint Secretary (Administration), Ministry of Water Resources also as a Member of the aforesaid Working Group.

Sd./-
(K.K.Chhabra)
Under Secretary (Administration)

To
1. Chairman and all Members of the Working Group
2. P.S to Deputy Chairman, Planning Commission
3. P.S. to all Members/Minister of State, Planning Commission
4. P.S to Member-Secretary, Planning Commission
5. Adviser (Agri.), Planning Commission
6. Director (PC), Planning Commission

Sd./-
(K.K.Chhabra)
Under Secretary (Administration)

Annex – C

No.8/10/2006-P&P/205-234
Government of India
Central Water Commission
Project Monitoring Organisation
****

Room No.510(S), Sewa Bhawan,
R. K. Puram, New Delhi-110066.

Dated 28th April, 2006.

Memorandum

Sub: Constitution of Sub-groups to assist the Working Group on Water Resources for XI Five year Plan (2007-2012).

In the First Meeting of the Working Group on Water Resources for XI Five Year Plan (constituted by Planning Commission vide Order No.25(1)/05-WR dated 17.02.06) held on 5th April 2006, three sub-groups, one for Major & Medium Irrigation, one for Minor Irrigation, CAD and private sector and beneficiaries participation and one for Flood Management were constituted to go into the details of related terms of reference considering various suggestions emerging in the First Meeting. The composition of sub-groups and their broad functions are as under :

Sub-group (1) – Major and Medium Irrigation

Composition

(1)	Member (WP&P), CWC	- Chairman
(2)	Commissioner (PR), MoWR	- Member
(3)	Shri A. D. Mohile, Former Chairman, CWC	- Member
(4)	Principal Secretary (WR), Govt. of Karnataka	- Member
(5)	Secretary (WR), Govt. of Andhra Pradesh	- Member
(6)	Secretary (WR), Govt. of Maharashtra	- Member
(7)	Shri Anil C. Shah, Chairman, Development Support Centre, Ahmedabad	- Member
(8)	JS&FA, MoWR	- Member
(9)	Shri S. P. Singh, Director, PP(N&S), CWC	-Member-Convener

Broad Functions:

(i) To review the physical and financial performance of the sector during the Tenth Plan, suggest strategies and Plan size for Eleventh Plan.

(ii) To suggest strategies for improving irrigation efficiencies, revenue returns and sector reforms for optimum benefits from the sector.

Sub-group (2) – Minor Irrigation, CAD & Private Sector and Beneficiaries participation.

Composition

(1)	Additional Secretary, MoWR	- Chairman
(2)	Commissioner (CAD&WM), MoWR	- Member
(3)	Commissioner (GW), MoWR	- Member
(4)	Commissioner (B&B), MoWR	- Member
(5)	Principal Secretary (WR), Govt. of Madhya Pradesh	- Member
(6)	Secretary (WR), Govt. of Rajasthan.	- Member
(7)	Shri R. S. Saxena, Former Chief Engineer (Minor Irrigation), Min. of Agriculture & Irrigation.	- Member
(8)	Secretary (WR), Govt. of Karnataka.	- Member
(9)	Dr. Tushaar Shah, International Water Management Institute, Vallabh Vidhya Nagar, Gujarat.	- Member
(10)	Prof. S. T. Patil, Director, WALMI, Dharwad, Karnataka.	- Member
(11)	Shri R. K. Jain, Sr.J.C.(CAD), MoWR.	- Member-Convener

Broad Functions

(1) Minor Irrigation :

(i) To review the physical and financial performance of the sector during the Tenth Plan, suggest strategies and Plan size for Eleventh Plan.

(ii) To suggest strategies for reviving/improving the traditional water storage systems which are directly linked to agriculture and their sustainability.

(iii) To suggest strategy for minor irrigation through ground water development keeping in view the ground water situation in the country.

(2) Command Area Development :

(i) To review the physical and financial performance of the sector during the Tenth Plan, suggest strategies and Plan size for Eleventh Plan.

(ii) To examine whether the CAD can be the part of the major and medium project; suggest measures for efficient irrigation water delivery through appropriate systems.

Private Sector and Beneficiaries Participation :

(i) To review the present status of farmers participation Programme including the existing legal, organizational and institutional arrangements for Participatory Irrigation Management (PIM), the physical and financial achievements, suggest strategy and action plan for Eleventh Plan.

(i) To suggest ways and means of sustaining the PIM with special reference to involvement of NGO's and Self Help Groups.

(ii) To examine the extent of privatization of irrigation projects and suggest areas where immediate implementation is possible.

Sub-group (3) – Flood management

Composition

(1)	Member (RM), CWC	-Chairman
(2)	Commissioner (Ganga), MoWR	- Member
(3)	Commissioner (B&B), MoWR	- Member
(4)	Secretary (Irrigation & Flood Control), Govt. of Tripura.	- Member
(5)	Secretary (WR), Govt. of Assam.	- Member
(6)	Secretary (WR), Govt. of Bihar.	- Member
(7)	Secretary (WR), Govt. of Orissa.	- Member
(8)	Chairman, GFCC, Patna.	- Member
(9)	Chairman, Brahmaputra Board, Guwahati.	- Member
(10)	Shri B. P. Singh, Chief Engineer (FMO), CWC.	- Member-Convener

Broad Functions

(i) To review the physical and financial performance of the sector during the Tenth Plan, suggest strategies and Plan Size for the Eleventh Plan.

(ii) To suggest strategies for flood management and action plan for comprehensive approach for the same.

All the sub-groups are requested to finalise their reports within a period of two months and submit the same to the Chairman and Member Convener of the Working Group i.e. Secretary (WR) and Chief Engineer (PMO), CWC respectively. It would be very useful if the interim reports of the sub-groups are ready for discussions during the Second Meeting of the Working Group likely to be held in the first week of June 2006. Smt. Rugmini Parmar, Director Planning Finance Division-II, Deptt. Of Expenditure, has been proposed to be included as a member of the Working Group. She may also be invited to attend the meetings of the subgroups as and when held.

Expenditure of the Members on TA/DA in connection with the meetings of the sub-groups will be borne by the respective Departments/Ministries/Organisations. Expenditure in respect of non-official Members will be borne by the Planning Commission as per rules and regulations of TA/DA as applicable to Group "A" Officers of the Government of India.

Sd/-
(R. C. Jha)
Chief Engineer (PMO), CWC
& Member Convener

To

1. The Chairman & Members of the Sub-groups.
2. The Chairman & Members of the Working Group.
3. Advisor (WR), Planning Commission, New Delhi.
4. Sr. P.P.S to Secretary (WR), MoWR.

Annex-D

Tel. No.26109425
Fax No.26109231

F.No.8/10/2006-P&P/451-452
Government Of India
Central Water Commission
Planning and Progress Directorate
****

415 (S), Sewa Bhavan,
R.K.Puram, New-Delhi-66
Dt. 12 -07-2006.

To,
The Advisor (WR),
Planning Commission,
Water Resources Division,
Yojana Bhawan,
Sansad Marg,
New Delhi-110011.

***Sub*.:- Inclusion of additional Members in the Working Group of Water Resosurces for XI Five Year Plan.**

Ref:- Letter No. 8/10/2006-P&P/235-256 dated 28th April, 2006.

Sir,

As you are aware, the Ist meeting of the Working Group was held on 05-04-2006 in which three Sub Groups, Sub-Group (1) on Major and Medium irrigation, Sub-Group(2) on Minor Irrigation,CAD and Private Sector & Beneficieries Participation and Sub-Group (3) on Flood Management were costituted under the Chairmanship of Member (WP&P), CWC, Additional Secretary (WR), MOWR and Member (RM), CWC respectively. It was also decided to co-opt following officials/non-officials as members of the Working Group:-

i Director, NIH, Roorkee, Uttaranchal.
ii. Director, CWPRS, (Post) Kharakwasla, Research Station, Pune – 411024.
iii. Director (CSMRS), Olof Palme Marg, Hauz Khas, New Delhi –110016.
iv Chairman (CGWB), NH-IV, Faridabad-121001.
v Smt. Rugmini Parmar, Director, Plan Finance Division –II, Deptt. of Expenditure.
vi Dr. C.D. Thattte (Former Secretary MOWR), C-16, Pranali Co-op. Housing Society, Limited, Damble Path, Opp. Law College Road, Erandewane , Pune-400005.
vii Shri V.B. Patel (Former Chairman, CWC), Multi Mantach International Pvt. Ltd., Intelligence floor, Multi House near C.N. Vidyalaya , Ambawadi, Ahmadabad – 380006.
Viii Sh. R. Rangachari (Former Member, CWC), M-31, Swati Apartments, 12 IP Extension, Patparganj , Delhi-110092.

Further, the Planning Commission has desired vide letter No.25 (1)/2005- (WR) dated 31st May, 2006 to refer the issues of reexamination of PIM legislation with a view to involve PRIs, set reservation for women and empowerment of WUAs to Sub-Group(2) . Accordingly, it has been decided to co-opt the following additional members in the Sub-Group (2):

i) Shri T.R. Raghunadan, Joint Secretary, Ministry of Panchayati Raj, Govt. of India, New Delhi.

ii) Ms. Vidya Purandare, Assistant Professor, WALMI, Aurangabad.

iii) Ms. Seema Kulkarni, Society for Promoting Participative Eco-System Management (SOPPECOM). Pune.

It is, therefore, requested that inclusion of the above co-opted members may kindly be confirmed.

It is further intimated that the 2nd Meeting of the Working Group was held on 27.06.2006. In this meeting, Chairmen of the three Sub-groups were requested to finalise their reports in August, 2006, so that draft final report of the Working Group may be finalised by middle of September, 2006. It is therefore, requested to kindly extend the date of submission of final report of the Working Group accordigly.

Yours faithfully,

Sd./-

(R.C. Jha)
Chief Engineer (PMO),CWC
& Member-Convener of the
Working Group

Annex-E

25(1)/05-WR
Government of India
Planning Commission
(Water Resources Division)

Yojana Bhavan, Sansad Marg,
New Delhi 110001,
Dated : July 21, 2006

ORDER

Subject: Working Group on Water Resources for the Eleventh Five-Year Plan (2007-2012) – Amendments thereto.

In continuation of Planning Commission's Order of even number dated 17th February, 2006 constituting the Working Group on Water Resources for the Eleventh Five Year Plan (2007-2012), it has been decided to include the following officials and other experts also in the Working Group:-

Officials:

1) Director, National Institute of Hydrology, Roorkee.
2) Director, Central Water and Power Research Station, Pune.
3) Director, Central Soil and Materials Research Station, New Delhi.
4) Chairman, Central Ground Water Board, Faridabad.
5) Smt.Rugmini Parmar, Director, Plan Finance Division II, Department of Expenditure (included at the request of Finance Secretary).
6) Shri John Kurien, Chief General Manager, NABARD, Mumbai.

Non-Officials/Experts:

7) Dr.C.D.Thatte, Former Secretary, Ministry of Water Resources, Pune.
8) Shri V.B.Patel, former Chairman, Central Water Commission, Ahmedabad.
9) Shri R.Rangachari, Former Member, Central Water Commission, Delhi.

2. The Working Group will be empowered to constitute three sub groups instead of two as already indicated in para 6 of the order dated 17.2.200.

3. The date for submission of Report by the Working Group is extended from 31st July, 2006 to 30th September, 2006.

4. All others terms and conditions as contained in the earlier order dated 17.02.2006 will remain unchanged.

Sd./-
(K.K.Chhabra)
Under Secretary (Administration)

To
1. Chairman and all Members (including Member-Convenor) of the Working Group.
2. P.Ss to Deputy Chairman/ MoS(Plg.)/Members/Member-Secretary,Planning Commission
3. All Principal Advisers/Advisers/JS(SP & Admn.), Planning Commission.
4. Director, Plan Coordination Division, Planning Commission.
5. For general information in Yojana Bhawan through e-mail.

Sd./-
(K.K.Chhabra)
Under Secretary (Administration)

Annex-F

List of Final Composition of Working Group on Water Resources for XI Plan:

1	Secretary (WR), MoWR	- Chairman.
2	Additional Secretary, MoWR	
3	Chairman, CWC	
4	Member (Water Planning & Projects), CWC.	
5	Member (River Management), CWC.	
6	The Adviser (WR), Planning Commission.	
7	Joint Secretary and Financial Adviser, MoWR.	
8	Joint Secretary (Admn.), MoWR.	
9	Commissioner (Policy and Planning), MoWR.	
10	Commissioner (Projects), MoWR.	
11	Commissioner (CAD&WM), MoWR.	
12	Commissioner (Ganga), MoWR.	
13	Commissioner (B&B), MoWR.	
14	Commissioner (GW), MoWR.	
15	Secretary (Irrigation & Flood Control), Govt. of Tripura, Agartala.	
16	Principal Secretary (Water Resources), Govt. of Madhya Pradesh, Bhopal.	
17	Principal Secretary (Water Resources), Govt. of Karnataka, Bengalore.	
18	Secretary (Water Resources), Government of Rajasthan, Jaipur.	
19	Shri A.D.Mohile, Former Chairman, CWC, New Delhi.	
20	Shri R.S.Saksena, Former CE (Minor Irrigation), New Delhi.	
21	Shri Anil C.Shah, Chairman, Development Support Centre, Ahmedabad	
22	Dr.Tushaar Shah, International Water Management Institute, Gujarat.	
23	Smt. Rugmini Parmar, Director, Plan Finance Division –II, Deptt. of Expenditure	
24	Director, NIH, Roorkee.	
25	Director, CWPRS, Pune.	
26	Director (CSMRS), New Delhi	
27	Chairman (CGWB), Faridabad.	
28	Dr. C.D. Thattte (Former Secretary MoWR).	
29	Shri V.B. Patel (Former Chairman, CWC).	
30	Sh. R. Rangachari (Former Member, CWC).	
31	Sh. John Kurien, Chief General Manager, NABARD, Mumbai .	
32	Chief Engineer (PMO), CWC.	- Convener

Annex-G

Minutes of the First Meeting of the Working Group on Water Resources for XI Five Year Plan (2007-2012) held on 5-4-2006 at 1100 Hrs.

The First Meeting of the Working Group on Water Resources for the XI Five Year Plan was held on 5th April 2006 under the chairmanship of Secretary, Ministry of Water Resources. List of the participants is at Annexure I.

2. Secretary (WR) and Chairman of the Working Group welcomed the participants. In his opening remarks, the Chairman pointed out that a single Working Group on Water Resources has been constituted for the XI Plan whereas there were different working groups for various sectors (major & medium, minor etc.) for the earlier Five Year Plans. He suggested that the Working Group should go beyond listing of completed, ongoing and new projects and their investment forecasts and should suggest ways and means to support construction activities taken up by the State Governments, modernization/up gradation of the Organizations of the State Governments, strengthening their survey and design capabilities, etc., and indicate alternative ways for assessment of irrigated area such as aerial photography, satellite maps for improved revenue drills and realization of water cess. He further added that various concerns of water management such as collection and delineation of quality data, determination of dynamic and optimal demands of agricultural, domestic and industrial sectors, improvement in water use efficiency, reduction in the gap between potential created and potential utilized, etc. need to be addressed. The Chairman also stressed the need of River Basin Organizations. He suggested reorganization of the field formations of CWC in line of river basin concept as a first step for initiation of systematic basin-wise studies and subsequent continuity till such time the RBOs are formed. He further expressed that the concerns should not be limited to the dams to be built, rather various aspects related to comprehensive planning, up keeping and health of the existing dams need be reviewed. He then requested the Members for their views.

3. Shri Arvind Joshi, Principal Secretary (WR), Madhya Pradesh suggested review of existing financial arrangements, relaxation of norms wherever possible to ensure better flow of finance to the project in a user friendly manner.

4. Commenting on composition of the Working Group on Water Resources for the XI Plan, Shri Niranjan Pant, JS & FA, MOWR stated that due representation of the Ministries of Agriculture, Rural Development, Programme Implementation, Finance, etc. should have been considered. Various suggestions for co-option of members from Ministry of Agriculture, NABARD, CSMRS. CWPRS, CGWB, Members in individual capacities were made. After brief discussions it was decided to co-opt Director (CWPRS), Director (CSMRS) and

Chairman (CGWB) in the Working Group.

5. Shri Arvind Joshi, Principal Secretary(WR), Madhya Pradesh proposed consideration of a dynamic MIS on National level and Multi-disciplinary capacity building.

6. Shri A.P.Joshi, Principal Secretary (WR), Karnataka suggested that the Working Group should consider issues related to Water Resources in a holistic manner including aspect of Drinking Water Supply. Shri A. Sekhar, Adviser (Water Resources), Planning Commission explained that separate groups have been formed to take care of the specific issues and the present Working Group is to submit report only on the defined terms of reference. The Chairman added that the Working Group may, however, suggest strategies on wider issues such as Basin approach, Sector reforms for optimal benefit.

7. In view of target of creation of 10 million ha. of irrigation potential by 2008-2009, Shri A.P.Joshi requested that some concerted steps for finance and resource mobilization need be suggested. In his opinion instead of broad basing, the AIBP has been constrained by delinking release of loan component.

8. Shri Anil C.Shah, Chairman, Development Support Centre, Ahmedabad stated that a separate major group is required to overview, entire scenario in Agriculture since we are looking into only one factor that is Water. For common issues on Major & Medium Irrigation, Minor Irrigation viz. efficiency, capacity, utilization, water not reaching tail ends, he suggested special attention. He stressed specific mention of the need of organizing farmers, provision of software support to Farmers' Organization and imparting well-oriented training to them. In his opinion given same package of incentive, NGOs would be more useful than Government agencies in such matters. For Monitoring and Evaluation of Farmers' related programme he stressed the need of well-equipped, competent and independent agencies. He also opined that revenue collection should also be left to the farmers. Shri S.T.Patil, Director, WALMI, Dharwal, Karnataka suggested to cover institutional reforms, revamping of CADWM and forum for sharing experience. The Chairman stated that presently there is no system to monitor water use efficiency. Though some of the States like Maharashtra and Karnataka have attempted water auditing, several issues such as who should do water auditing, at what periodicity, etc. are not very clear. He, however, suggested that NWA may create forum for sharing experiences.

9. Secretary, Government of Rajasthan, suggested separate fund provision for survey and investigations, thrust for varabandhi system and pressure techniques should find place in Plan document. He suggested inclusion of sprinkler in CAD, which in turn should be a part of Major & Medium Irrigation.

10. Shri R.S.Saxena, Former Chief Engineer, Minor Irrigation, Ministry of Agriculture &

Irrigation suggested that due importance may be given for revival of traditional water bodies. In his opinion in the case of North-eastern region, Project providing irrigation up to a CCA of 500 ha., should be treated as Minor Project.

11. Shri Tushaar Shah, International Water Management Institute suggested emphasis on private party involvement without loosing necessary control. In his opinion, WALMIs should take more proactive role.

12. Shri A.D.Mohile, former Chairman, CWC suggested some modifications in Concept Paper on Irrigation development during XI Plan. Since sediment removal is costly and evaporation loss is high in surface minors, he suggested to consider recharge tanks which may have a future. He suggested to note that although the potential creation rate has declined the gap between potential created and potential utilized has increased, which indicates that the gap was not merely due to time delay rather there is a strong possibility that this is not a gap but over-estimation.

13. Member (WP&P), CWC suggested formation of three sub-groups – One for Major & Medium Irrigation, one for Minor Irrigation, CAD and private sector and beneficiaries participation and one for Flood Management. He suggested that these sub-groups may go into the related terms of references considering various suggestions emerging in this First Meeting. The suggestion regarding formation of three sub-groups was accepted and aforementioned sub-groups were formed under the chairmanship of Member (WP&P),CWC, Additional Secretary, MOWR and Member (RM), CWC. Composition of these sub-groups as decided in the meeting is at Annexure-II. It was left to the Chairman of the sub-groups to decide conveners of the respective sub-groups. The Chairman desired that the sub-groups may hold three meetings - one each in April, May & June in order to finalize the final report by the end of July 2006. It was decided to hold the Second Meeting of the Working Group in first week of June to review the progress made by various sub-groups and Third meeting by mid of July to finalize the report.

The meeting ended with the vote of thanks to the Chair.

List of Participants of the First Meeting of the Working Group on Water Resources for XI Plan

Members

S/Shri/Smt.

1. **J. Hari Narayan, Secretary, MOWR - In Chair**

1. **Sushma Singh, Addition Secretary, MOWR**
2. **B.S.Ahuja, Member (WP&P), CWC**
3. **S.K.Agrawal, Member (RM), CWC**
4. **A.Sekhar, Adviser (WR), Planning Commission**
5. **Niranjan Pant, JS&FA, MOWR**
6. **K.S.Ramasubban, JS(A), MOWR**
7. **M.E.Haque, Commissioner(PP), MOWR**
8. **A.S.Dhingra, Commissioner(CAD&WM), MOWR**
9. **M.L.Goyal, Commissioner(Ganga), MOWR**
10. **S.K.Chaudhuri, Commissioner (B&B), MOWR**
11. **C.S.Ramasesha, Commissioner (GW), MOWR**
12. **Arvind Joshi, Principal Secretary(WR), Govt.of M.P.**
13. **A.P.Joshi, Principal Secretary (WR), Govt. of Karnataka**
14. **S.K.Gupta, Chief Engineer (WR), Govt. of Rajasthan**
    For Secretary (WR), Govt. of Rajasthan
15. **R.C.Jha, Chief Engineer (PMO), CWC.**
16. **A.D.Mohile, Former Chairman, CWC**
17. **R.S.Saksena, Former Chief Engineer (Minor Irrigation)**
    Ministry of Agriculture & Irrigation
18. **Anil C.Shah, Chairman, Development Support Centre, Ahmedabad**
19. **Dr.Tushaar Shah, International Water Management**
    Institute, Vallabh Vidhya Nagar, Gujarat.

Other Participants

S/Shri/Smt.

1. **Veer Pal, Sr.Joint Commissioner(CADWM), MOWR**
2. **L.A.V.Nathan, Sr.Joint Commissioner(MI), MOWR**
3. **H.S.Nehria, Director (PP), MOWR**
4. **Prof.S.T.Patil, Director, WALMI, Dharwad, Karnataka.**
5. **D.D.Sahoo, Director (P&P), CWC**

Annex-H

MINUTES OF THE 2ND MEETING OF WORKING GROUP ON WATER RESOURCES FOR XI FIVE YEAR PLAN (2007-2012) HELD ON 27th JUNE, 2006 AT 15:00 HRS.

The second meeting of the Working Group on Water Resources for the XI Five Year Plan was held on 27th June 2006 in the Committee Room, Ministry of Labour, Shram Shakti Bhawan, New Delhi, under the Chairmanship of Secretary, Ministry of Water Resources, Government of India. List of the participants is enclosed at **Annexure-I.**

2. Secretary (WR) and Chairman of the Working Group welcomed the participants and intimated that two members Sh. Anil C Shah and Dr. Tushaar Shah, although would not be able to attend this meeting, they had sent their notes for the meeting and requested the concerned Sub-group to consider their views. He expressed happiness over completion of the Ist round of meetings by each of the Sub–groups and 2nd meeting by Sub-group (3) and requested the Chairmen/ Member Secretaries to indicate the developments.

3. Shri Chetan Pandit, Member Convener of Sub-group –(1) briefly narrated the progress made by the Sub-group. He stated that the formats for requisite data / information had been sent to the State Governments and regional offices of CWC and these formats are also being made available in the web site of CWC. He further informed that various decisions like updating of estimated cost, priority to be assigned to projects started during or before VII Plan and ERM projects, which are to be handed over to Water Users' Associations after completion of rehabilitation etc, have been taken in the Ist meeting, and the aspects of creation of a regime wherein O&M costs are completely recovered, capacity building, technological up gradation and training, norms of irrigation efficiency, benchmarking of the projects, problems being faced due to unapproved projects etc. would be further discussed in the 2nd meeting, which would be held in 3rd week of July,2006.

Views /Suggestions

(i) The Chairman stated that, letters to Chief Secretaries, Irrigation Secretaries and Resident Commissioners of States for expediting data collection would be addressed by him, while he desired that the Chairman, CWC could write to his Regional Offices to expedite the same.

(ii) The Chairman advised the Member Secretary, Sub-group-(1) to indicate a practical time frame of the submission of their report after discussion with Chairman of the Sub-group (1).

4. Mrs Sushma Singh, Additional Secretary (WR) and Chairperson, Sub-group (2) briefly

mentioned the progress made by the Sub-group (2). She stated that during the Ist Meeting of the Working Group certain issues had been identified which would be discussed in details in subsequent meetings of the Sub-group (2). These issues were elaborated by her as below:

(A) Issues related to CADWM and PIM

(i) Revamping of CADWM Programme:

A note on revamping of CADWM Programme keeping in view the budget announcement by the Finance Minister was sent to Shri Anil C. Shah of Development Support Centre. Shri Shah has sent a note giving his suggestions on the same. The note of Shri Shah was circulated during the meeting which was proposed to be discussed in more detail in the Sub-group(2).

(ii) Involvement of Punchayati Raj Institutions (PRIs) and Women in PIM :

It was informed that the Planning Commission has desired to refer the issue of reexamination of PIM legislation (with a view to involve PRIs, set reservation for women and empower WUAs to collect and set tariff and retain part of it) to the Sub-group (2). Besides, Hariyali guidelines of Ministry of Rural Development, presently being studied to find out how to maintain the centrality of PRIs, will also be discussed in the Sub-group (2). Two women members one each from WALMI, Aurangabad and SOPPECOM, Pune and one Joint Secretary of Ministry of Panchayati Raj are being associated with the Sub-group (2) for providing inputs on these aspects.

(iii) Approval of CADWM Proposals:

it was informed that during the 1st meeting of Sub-group (2), State Government representatives had strongly expressed that the requirement of submission of multiple proposals for each component under the CADWM Programme should be done away with and the approval for execution of all the components should be based on single consolidated DPR for the entire project. Modalities in this regard have to be finalized after further discussions in the Sub-group (2).

(iv) Role of CADWM in bridging the gap between PC and PU :

On the issue of gap between Potential Creation (PC) and Potential Utilization (PU), it was expressed that a number of reasons for the gap between PC/PU were not entirely within the purview of CADWM Programme. Thus, the main objective of the programme, which is hitherto being considered as bridging the gap between PC and PU need to be changed to an objective which is based on water use efficiency at various levels within the system. This issue will also to be discussed in detail in Sub-group (2).

(iv) Modalities for implementation of CADWM Programme have to be worked out after discussions in the Sub-group (2) both for the States where PIM legislation have been enacted and for the States where it has not been done so far.

(v) Separate schemes for reclamation of waterlogged areas and correction of system deficiencies are being proposed. Modalities are to be finalized for implementation of these schemes after discussion in the Sub-group (2).

(vi) The other general issues which have been identified for discussion in Sub-group (2) are related to revision of funding pattern and cost norms, farmers' contribution, Strengthening of WALMIs and direct funding to them, involvement of NGOs etc.

(B) Issues related to Minor Irrigation :

(i) The Chairperson, Sub-group (2) informed that the target for creation of additional potential under Bharat Nirman Programme has been kept 4.8 million ha (both for surface and ground water development) in a period of 4 years i.e. 1.2 million ha per annum. The targets for XI Plan has thus been finalized at 6.00 million ha (for 5 years at the same rate of 1.2 M ha per annum) which comprises of 1.5 M ha (i.e. 25%) under surface water and 4.5 M ha (i.e. 75%) under ground water development with proposed outlays of Rs.12000 crore and Rs.18000 crore respectively. An additional potential of 1.5 M ha has also been proposed to be developed under the scheme on restoration of water bodies with outlay of Rs.6000 crore. Thus total proposed outlay would be about Rs.36000 crore for the XI Plan.

(ii) Involvement of the beneficiary community and stakeholders in the planning, implementation, monitoring and maintenance of the systems would be the main strategy for the XI Plan.

(iii) During 1st meeting of Sub-group (2), the State Government representatives desired that procedure for clearance of AIBP proposals for drought prone and tribal areas should be cleared by the Ministry as per Planning Commission guidelines.

(C) Private Sector Participation :

Chairperson, Sub-group (2), briefly described about the initiatives taken by the Ministry for involvement of Private Sector participation in irrigation sector. She briefly mentioned about the High Level Committee under Shri P. V. Rangayya Naidu, the then Union Minister of State for Water Resources (which recommended introduction of the concept on a pilot basis

for selected projects), about the National Commission for Integrated Water Resources Development (which expressed that the private sector participation is feasible only if adequate return is ensured and that it is practicable only in projects involving industrial or urban water supply), and the Group of Experts headed by Additional Secretary (WR) which has identified possible areas/projects that could be considered for implementation of Public Private Partnership.

She also informed that the issue of establishment of a State Water Regulatory Authority as done by Government of Maharashtra would be discussed in detail in Sub-group (2).

Views/Suggestions :

(i) Secretary (WR) and Chairman, Working Group referred to the Water use efficiency studies being done by CWC and desired that a library of all the studies should be built up. He also desired that reports of Water use efficiency, if timely available, should be considered by the relevant Sub-group to incorporate the results of these studies in the Working Group Report.

(ii) Shri S. T. Patil, Director, WALMI, Dharwad intimated that the National Commission on Farmers has already taken a view on the issue of involvement of PRIs in management of irrigation projects. The same might be considered by the Working Group before finalizing the recommendations in this regard. He agreed to send further details in this regard to the Chairperson of Sub-group (2).

(iii) Shri A. Sekhar, Adviser (WR), Planning Commission intimated that the Hon'ble Prime Minister had taken a meeting on 14/02/2006 to review some selected action points that emerged from the Mid-Term Appraisal (MTA) of the X Plan. The follow-up actions to be taken by MoWR in consultation with Planning Commission, inter alia, includes modification of CAD scheme from XI Plan with an objective to upscale the grant component significantly for the State Governments to respond positively to bring in reforms in Water sector. Shri Sekhar suggested that this issue might as well be discussed by the Sub-group (2).

(iv) Secretary (WR) suggested that under the CADWM Programme, the entire project should be considered as one unit for implementation of efficient water management practices instead of considering only the area below outlet. This aspect may be discussed further in the Sub-group (2).

(v) The issue of O&M cost of irrigation projects including the recommendations of the 12th Finance Commission in this regard and the draft report circulated by the Planning Commission to the States were discussed. Sub-group (2) may further elaborate on the issue including the issue of fixing norms for establishment component in O&M.

(vi) It was also suggested that the Sub-group (2) might look into the aspect of implementation of National Employment Guarantee Programme for maintenance of Projects

and also development of MI Projects.

(vii) On the issue of Private Sector Participation, Secretary (WR) suggested a mechanism on the pattern of road sector. He suggested that the private sector companies might be given a guarantee for the minimum return in the form of an annuity from the Government and also toll collection. It was suggested that the issue could be further discussed in the Sub-group (2), in order to finalize suitable recommendations in this regard.

5. Sh. N.J. Singh, Director (FMP) briefed the progress of sub –group (3) on Flood Management :-

The Sub-group on Flood Management held its first meeting on 16.5.06. During the meeting ways and means for collection of data from the States as well as Central Government agencies as per the TOR of the Sub-group were discussed. The draft outline of the report of the Sub-group was also discussed and approved. Minutes of the meeting were circulated among all the State Governments as well as Central Government Organizations to expedite the information. In addition letter enclosing Proforma and guidelines for reporting information were also sent to the State Governments.

The Sub-group held its second meeting on 20th June, 2006. The information from the States of Assam, Arunachal Pradesh, Tripura, West Bengal, Bihar, Uttar Pradesh, Orissa, Himachal Pradesh, Rajasthan, Karnataka and Kerala and also from Brahamputra Board had been received by then. With a view to give emphasis on sea erosion, the representatives from coastal states like West Bengal, Gujarat, Kerala, Tamil Nadu and Andhra Pradesh were invited as special invitees during the second meeting. UP was also a special invitee in view of severe flood problem in the State. The information received from above States as well as Brahamaputra Board were reviewed and plan size in respect of above States as well as Brahmaputra Board were decided. The draft chapters I to IV were circulated during the meeting for comments/views of the Members. Chapters V to VIII are being drafted for circulation.

Views/Suggestions:

(i) Sh. A. Sekhar, Adviser (WR), Planning Commission suggested for considering Employment Guarantee as one of the issues considering Rural area employment guarantee programme launched by Government. This was agreed to be incorporated by the Sub-group.

(ii) He further added that the Sub-group should consider the recommendation of Chairman's Task-Force. Secretary (WR) added that the action plan for NDMA should also be considered. At this juncture, it was informed by Sh. N.J. Singh that these were already under consideration of the Sub-group.

(iii) Secretary (WR) desired that CWC should identify all the reservoir projects in the country for which rule curves, taking into consideration the flood management aspects, have either to be formulated or to be modified. He further added that these should be prioritized followed by listing out the various steps/inputs to achieve the objectives and the agencies to follow up the action.

6. General Issues :

(i) Secretary (WR) opined that there was a need for quality enhancement in Irrigation Departments including modernization of methods of surveying, standardization of designs, up gradation of technology and skill etc. The modalities for providing central assistance to the State Governments in improving performance of concerned departments may be considered by the respective Sub-groups.

(ii) Under the Government Employment Guarantee Schemes of 100 days of manual labour, where not less than 60% of the works manually and the remaining works mechanically has been accepted, the relevant components under all the Sub-groups should be addressed to.

(iii) A draft approach paper dated 14/6/2006 of Planning Commission entitled "Towards faster and More Inclusive Growth" was circulated during the meeting. Adviser (WR), Planning Commission desired that the Members/Sub-groups might give their suggestions/views on the same.

(iv) At the end, the Chairman explained the action points to be taken by the different subgroups to expedite the assigned task within the stipulated time frame. He also advised different subgroups to finalize their respective draft reports as early as possible so that the draft final report of the Working Group could be finalized by middle of September 2006.

7. The meeting ended with the vote of thanks to the chair.

LIST OF PARTICIPANTS WHO ATTENDED THE SECOND MEETING OF THE WORKING GROUP ON WATER RESOURCES FOR

THE ELEVENTH FIVE YEAR PLAN (2007-2012) HELD ON 27th JUNE, 2006.

Sl. No.	Name	Designation
	Members	
1	Sh.J.Hari Narayan	Secretary (WR)-In chair.
2	Sh. R.Jeyaseelan	Chairman, CWC.
3	Smt.Sushma Singh	Additional Secretary (WR)
4	Sh. A. Sekhar	Advisor (WR) , Planning Commission.
5	Sh. R.C.Jha	Chief Engineer (PMO), CWC.
6	Sh. Indra Raj	Commissioner (PR), MOWR
7	Sh. S.K.Chaudhuri	Commissioner (B&B), MOWR
8	Sh. A.S.Dhingra	Commissioner (CAD&WM), MOWR.
9	Sh.Ramasesha	Commissioner (GW), MOWR.
10	Sh. Lok Ranjan	Commissioner & Secretary, PWD(WR), Tripura
11	Sh. A.P.Joshi	Secretary(WR), Govt of Karnataka
12	Dr. Saleem Romani	Chairman, Central Ground Water Board, Faridabad.
13	Dr. A.K. Dhawan	Director,CSMRS, Hauz Khas, New Delhi.
14	Dr. K.D. Sharma	Director, National Institute of Hydrology, Roorkee.
	Other Participants	
15	Sh. S.M. Sood	Chief Engineer (IMO), CWC.
16	Sh. M. Bangara Swamy	Chief Engineer, Minor Irrigation (N).
17	Sh. K.N. Agrawal	Chief Engineer , Project Director, PICU, M.P., WRD, Bhopal.
18	Sh. C.L. Mathur	Chief Engineer (QC), WR, Jaipur on behalf of Secretary (WR), Govt. of Rajashthan.
19	Prof. S.T.Patil	Director, WALMI, Dharwad (Karnataka).
20	Sh. Chetan Pandit	Director (WM), CWC.
21	Dr. Veer Pal	Jt. Commissioner (CAD&WM), MOWR.
22	Sh. R.K. Jain	Sr.Jt.Commissioner(CAD&WM), MoWR
23	Sh. H.S.Nehria	Director (PP), MOWR.
24	Sh. N.J. Singh	Director (FMP),CWC
25	Sh. Narendra Kumar	Director, Monitoring (East), CWC.
26	Sh. P.S. Kutiyal	Dy. Director (P&P) Dte., CWC.
27	Sh. Kishore Kumar	Dy. Director (PP), MOWR.
28	Sh. N. Jha	Dy. Director (P&P) Dte., CWC.

Annex.I

MINUTES OF THE 3rd MEETING OF THE WORKING GROUP ON WATER RESOURCES FOR XI FIVE YEAR PLAN (2007-2012) HELD ON 27th OCTOBER, 2006 AT 15.00 HRS

The Third meeting of the Working Group on Water Resources for the XI Five Year Plan was held on 27th October, 2006 in the Committee Room, Ministry of Labour, Shram Shakti Bhawan, New Delhi, under the Chairmanship of Secretary, Ministry of Water Resources, Government of India. List of the participants is enclosed at **Annexure-I.**

2. At the outset, Secretary (WR) and Chairman of the Working Group welcomed the participants. She expressed her happiness over completion of the reports of the three Sub-Groups and requested Shri R.C. Jha, Member Secretary to make a presentation of brief summary of the XI Five Year Plan proposals as emerging from the Sub-Group reports.

3. Shri Jha indicated in his presentation that overall target of 12.5 m.ha. for creation of irrigation potential is being proposed in the XI Plan out of which new area will be at least 6.25 mha. He intimated state-wise cost allocation under State Plan and Central Plan. He stated that in the XI Plan proposal a provision of Rs.25,000 crore has also been made for AIBP funding. In this connection, it was clarified that a higher allocation for grant component of AIBP has been proposed in view of major thrust being given to irrigation and Prime Minister's package for distressed agrarian districts. In the context of rate of creation of irrigation potential, the Secretary (WR) pointed out that the shortfall of first two years under 'Bharat Nirman' would have to be made up as well in the remaining two years of the programme which is overlapping with the first two years of XI Plan. After the presentation, the Secretary (WR) invited suggestions and views from the Members.

4. Shri Avinash Mishra, Deputy Advisor, Planning Commission opined that in view of the focus on irrigation, a higher target for creation of irrigation potential could be considered. He stated that as emphasised by the Hon'ble Prime Minister the focus should be more on the outcome of matter than mere outlays. Proposals should clearly spell out the outcome in concrete forms including food production or generation of employment, etc. The Secretary (WR) pointed out that in irrigation sector potential actually utilised should be the main focus. The Deputy Advisor, Planning Commission also mentioned the requirement of application of Remote Sensing Technique in monitoring of AIBP Projects, and GIS mapping for irrigation coverage indicating ground water table, which could facilitate planned conjunctive use of surface and ground water. He requested to study, analysis and consider viability of selective dredging and chanelizations of rivers as an option to reduce overtopping of banks by increasing water carrying capacity of the rivers. He also expressed concern in respect of (i) schemes for renovation and modernisation of irrigation system, (ii) Participatory Irrigation Management, and (iii) formation of WUA's etc. and requested that the Working Group may consider direct funding to the WUA's for the renovation and modernisation on the lines of DRDA and Forest Development Agency, which require registration under Society Act.

5. Shri A.S. Dhingra, Commissioner (CAD &WM) was of the view that Government funds should be spent through State Government Agencies while the funds generated / earned by the WUAs can be spent by them. Shri V.B Patel, Ex-Chairman, CWC stated that the command of about 20,000 ha. of Dharoi project has been transferred to WUAs which is functioning well. He, however, agreed that there were problems in regard to flow of funds to the WUAs/ NGOs. He suggested

that flow of funds to the NGOs should be favourably considered subject to their credibility. Shri Niranjan Pant , JS & FA, MOWR expressed that any sanction to WUAs/ NGOs has to be followed by monitoring for which the MOWR does not have the appropriate mechanism.

6. Shri Niranjan Pant , JS & FA, MOWR also emphasised that the monitoring responsibility of AIBP project should rest with MOWR instead of involving a third agency. The Deputy Advisor, Planning Commission suggested that at least 5 to 10 percent of the projects could be considered for monitoring by using Remote Sensing Technique for cross check / comparison.

7. Sh. A.D. Mohile, Ex-Chairman, CWC stated that new look should be given to the Working Group Report considering changes that has taken place in water sector and aspiration of the people at large. He further indicated that the gap between created potential and its use as projected is not a real gap since the erosion / loss of created potential in many cases and more so in minor irrigation projects have never been accounted for. Therefore, in his opinion the question of non- utilisation of created potential is not an issue to be deliberated in details and undue emphasis need not to be made for irrigation tanks or water bodies. According to him, role of these tanks has now withered away, as these tanks involve more losses as well as take away much higher land per unit storage. He also advised that detailed feasibility report on artificial recharging must be made available before any decision is taken in this regard. In regard to non-adoption of conjunctive use of water in the east and north-east region he observed that there has been no study made on the issue so far. He, therefore, suggested to undertake fact finding study in this regard. He suggested that the water managers now need to deal directly with new concepts such as ground

water quality, surface water quality, surface water regulation, inter-basin water transfer, reducing and changing role of government, external review of different water users sectors, different approach towards AIBP Programme etc.

8. Shri V.B. Patel, Ex-Chairman, CWC stated that the fundamental goal is of raising food production level to meet the food requirement for a population of about150 to 160 crore in 2050. He advised that all the related departments particularly, Agriculture and Irrigation Departments should act together to achieve this objective. For this, the aspect of creation of more storage, transfer of water from surplus to deficit areas, and creation / utilisation of irrigation potential may be emphasized in the Working Group Report.

9. Shri R. Ranghachari, Ex-Member, CWC stressed the need to focus on creation of new storages with flood cushion. He pointed out that in many cases the flood cushion in existing reservoirs have been diluted. He also mentioned that the recommendations of the RBA have hardly been implemented. He specifically referred to Flood plain zoning, Centre's role in flood management like that of USBR, performance evaluation, and provision of adequate fund for flood control sectors.

10. Shri Arvind Joshi, Principal Secretary (WR), Government of Madhya Pradesh stated that for enhancement of irrigation potential, funding through AIBP is a very important and effective mechanism. He suggested that the aspect of AIBP should be appropriately reflected in the report. He also suggested simplifications and increase in scope for funding under AIBP and expansion of CAD programme and requested to gear up the mechanism for timely release of fund. Shri Patil, Director (WALMI),

Dharwad, Karnataka, endorsed the views of Principal Secretary (WR), Govt. of Madhya Pradesh.

11. The Commissioner (CAD & WM), MOWR briefly outlined the contents of the Report of the Sub-Group-2 and suggested that the reports of the Sub-Groups should be made part of the main report. Secretary (WR) and Chairman of the Working Group desired that a combined and comprehensive report should be prepared highlighting State Plan and Central Plan Schemes.

12. In veiw of the pending works for the main report of the Working Group, Secretary (WR) desired that formal request for extension of time up to the end of Nov. 2006 should be sent to the Planning Commission. The Deputy Advisor, Planning Commission agreed to process the same as soon as the request is received. The Chairman further indicated that the next meeting of the Working Group may be held in 3rd /4th week of November, 2006 after circulation of the Draft Report at least three days in advance.

The meeting ended with vote of thanks to the Chair.

ANNEXURE-I

LIST OF PARTICIPANTS WHO ATTENDED THE THIRD MEETING OF THE WORKING GROUP ON WATER RESOURCES FOR THE ELEVENTH FIVE YEAR PLAN (2007-2012) HELD ON 27th OCT., 2006.

Sl.No.	Name	Designation	Tel. No.	E.mail Address
	Members			
1	Smt. Gauri Chatterji	Secretary (WR)-In Chair.	23714200	secy-mowr@ nic.in
2	Sh. R.Jeyaseelan	Chairman, CWC.	26108855	cwcchairman@netscape.net
3	Sh. S. Manoharan	Additional Secretary (WR)	23710619	adlsecy-mowr@nic.in
4	Sh. B. S. Ahuja	Member (WP&P), CWC	26108590	bsahujamemberwaterplanning@yahoo.com
5	Sh. S.K. Agarwal	Member (RM), CWC	26103221	ska_cwc2003@yahoo.com
6	Sh. R.C.Jha	Chief Engineer (PMO), CWC.	26109231	cepmo@hotmail.com
7	Sh. K.S.Ramasubban	JS(A), MOWR, New Delhi.		
8	Sh.Niranjan Pant	Joint Secretary FA/MOWR		
9	Sh. Indra Raj	Commissioner (PR), MOWR	23710107	commpr-mowr@nic.in
10	Sh. S.K.Chaudhuri	Commissioner (B&B), MOWR	24694752	commgwhp-mowr@nic.in
11	Sh. A.S.Dhingra	Commissioner (CAD&WM), MOWR.	23382256	commcadwm-mowr @ nic.in
12	Sh. C.S. Ramasesha	Commissioner (GW), MOWR.	23710170	commgw-mowr@nic.in
13	Sh. M.E.Haque	Commissioner (PP), MOWR, New Delhi.		
14	Dr. Saleem Romani	Chairman, Central Ground Water Board, Faridabad.		dr_romani@lycos.com
15	Dr. A.K. Dhawan	Director,CSMRS, Hauz Khas, New Delhi.		
16	Sh. John Kurien,	Chief General Manager, NABARD, Mumbai 26530039		
17	Sh. Arvind Joshi	Principal Secretary (Water Resources), Govt. of Madhya Pradesh, Bhopal	9448386889	patilst@gmail.com
		0753 -2741827	Fax-2486889	
18.	Sh. A.D.Mohile	Former Chairman, CWC, P3A06, DLF V, Gurgaon	9891154061	anildmohile@yahoo.co.in

Sl.	Name	Designation	Tel. No.	E.mail Address
	Members			
19.	Shri V.B.Patel	Multiman Tech International Pvt. Ltd, Intelligence Floor, Multi House Near C.N.Vidyalaya, Ambawadi, Ahmedabad-380006	079-26750515-6-7 R-079-2611762 M-9824023622	vbpatel@multimantech.com
20	Sh. R.Rangachari	M-31, Swati Apartments,12 IP Extension, Patparganj, Delhi-110092		
	Others:			
21	Sh. B.P.Singh	CE(Floods), CWC		
22	Sh. S.T. Patil	Director (WALMI), Dharwad.	0836-2486893 Fax-0836-2486887	patilst@gmail.com.
23	Sh. U.V.Purandare	CWPRS, Pune.		
24	Sh. A.D.Joseph	Regiional Director CGWB.		
25	Sh. A.Mishra	Dy.Advisor (WR), 449, Planning Commission, Yojana Bhawan, New Delhi.		amishra48003@ yahoo.co.in
26	Dr. K.K.S. Bhatia	NIH,Roorkee, Uttaranchal		
27	Sh. Ravi Shankar	Sr.Joint Commissioner (Ganga)		
28	Sh. C.Lal	Sr.Jt.Commissioner (Ganga), MOWR.	24360611	
29	Sh. U.K.Ghosh	Director (P&P) Dte., CWC.	26109425	ppdte@rediffmail.com
30	Sh. N.J.Singh	Director (FMP), CWC.		
31	Sh. P.S. Kutiyal	Dy. Director (P&P) Dte., CWC.	26109425	ppdte@rediffmail.com
32	Sh. T.D.Sharma	Dy.Director, CWC.		
33	Sh. S.L.Jain	Dy.Commissioner (MI), MOWR, New Delhi.		
34	Sh.Rajeev Singhal	Dy.Commissioner (Ganga), MOWR, New Delhi.		
35	Sh. A.K.Gupta	Dy.Director, FMP Dte., CWC.		
36	Sh. A.K.Mittal	AD(PP), MOWR		
37	Sh.G.M.Rao	EAD, P&P Directorate	26109425	

Annex.-J

MINUTES OF THE 4TH MEETING OF THE WORKING GROUP ON WATER RESOURCES FOR XI FIVE YEAR PLAN (2007-2012) HELD ON 5TH DEC. 2006 AT 1530 HRS.

The 4th meeting of the Working Group on Water Resources for XI Five Year Plan was held on 5th Dec. 2006 in the Committee Room, Ministry of Labour, Shram Shakti Bhawan, New Delhi. List of the participants is annexed.

2. Secretary (WR) and Chairperson of the Working Group welcomed the participants. It was observed that the minutes of the 3rd meeting were circulated vide letter dated 28.11.2006 and no comments were received on the same. Therefore, the minutes of the 3rd meeting were confirmed. Before initiating further discussions on the draft final report, the Chairperson requested Shri R.C. Jha, Member-Convener to make a brief presentation.

3. Shri Jha informed that the report has been divided into five chapters namely Overview, Performance Review of the X Plan, Strategies for XI Plan, Sector Reforms for optimal benefits, and Size of the XI Plan. In his presentation, Shri Jha broadly discussed the objectives, thrust areas, strategies and overall physical and financial targets and the size of the XI Plan indicating proposed outlays under both state and central plans. Thereafter, the Chairperson requested the members for their views and suggestions.

4. Principal Secretary, Water Resources Department, Government of Karnataka referred about the beneficiaries' contribution under CAD & WM programme and suggested that in view of the practical problems being faced by the State Governments, such contributions should not be made compulsory. Shri A.S. Dhingra, Commissioner (CAD&WM), MoWR clarified that the same has been duly taken care of in the report of the Sub-group.

5. Shri A.D. Mohile was of the view that the proposed outlay might not be sufficient for completing the target for the creation of irrigation potential of about 16.3 mha projected in the report. He expressed the view that in future the projects would be more difficult and hence would need higher allocations. He, therefore, suggested for adopting a higher rate for creation of irrigation potential. He also expressed his concern about the target of creation of irrigation potential through renovation of water bodies. It was clarified by Commissioner(PP), MoWR that due care had been taken while estimating the requirement of funds and that the assessment

was based on the balance fund required for completion of on-going projects as well as the estimate for new projects as informed by the respective State Governments. It was further clarified by the Joint Secretary (Admn), MoWR that the target for potential creation through repair, renovation and rehabilitation of water bodies was quite reasonable and achievable in view of projections made by several State Government and that these schemes would provide immediate benefit and relief to the beneficiaries.

6. Shri R. Rangachari, emphasized upon utilising the existing reservoirs in the country for flood moderation to the extent possible. He also stressed the need for flood plain zoning as an effective measure in controlling flood damages and suggested that these must be appropriately reflected in the report.

7. Shri R.S.Saxena suggested for renovation of the old diversion channels which were traditionally used for irrigation. He also suggested for addition of a few points and minor editing in the draft report.

8. Member (RM), Central Water Commission pointed out that the total outlay in flood management under the state plan has been kept on lower side in comparison to the demand made by the state governments. He suggested that the allocation for flood control in State Plan should be increased appropriately. He also suggested for incorporating state-wise break-up in the report. Besides, he suggested to revise the figure of Rs.8,500 crore under centrally sponsored programme of Flood Management to Rs. 7,000 crore while Rs. 1,500 crore be provided under the Central Sector Schemes of GFCC, Brahmaputra Board and Central Water Commission.

9. Secretary, MoWR welcomed the suggestions and held the view that proposed budget outlay under irrigation and flood control sector should be adequately stepped up to take care of these suggestions. In addition, she advised to highlight further the need for creating additional storage in the country.

10. The draft report was appreciated in general by all the members and accepted for submission subject to the minor modifications/additions as suggested in the meeting.

11. The meeting ended with a vote of thanks.

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LIST OF PARTICIPANTS WHO ATTENDED THE FOURTH MEETING OF THE WORKING GROUP ON WATER RESOURCES FOR THE ELEVENTH FIVE YEAR PLAN (2007-2012) HELD ON 5TH DEC , 2006.

Sl.No.	Name	Designation	Tel. No.	E.mail Address
Members				
1	Smt. Gauri Chatterji	Secretary (WR)-In Chair.	23714200	secy-mowr@ nic.in
2	Sh. S.K.Das	Chairman, CWC.	26108855	cwcchairman@netscape.net
3	Sh. S. Manoharan	Additional Secretary (WR)	23710619	adlsecy-mowr@nic.in
4	Sh. B. S. Ahuja	Member (WP&P), CWC	26108590	bsahujamemberwaterplanning@ yahoo.com
5	Sh.S.K.Agrawal	Member (RM), CWC		
6	Sh. R.C.Jha	Chief Engineer (PMO), CWC.	26109231	cepmo@hotmail.com
7	Sh. M.E.Haque	Commissioner (PP), MOWR, New Delhi.		
8	Sh. K.S.Ramasubban	JS(A), MOWR, New Delhi.		
9	Sh. Indra Raj	Commissioner (PR), MOWR	23710107	commpr-mowr@nic.in
10	Sh. S.K.Chaudhuri	Commissioner (B&B), MOWR	24694752	commgwhp-mowr@nic.in
11	Sh. A.S.Dhingra	Commissioner (CAD&WM), MOWR.	23382256	commcadwm-mowr @ nic.in
12	Sh. C.S. Ramasesha	Commissioner (GW), MOWR.	23710170	commgw-mowr@nic.in
13	Sh. S.P.Kakram	Commissioner (Ganga), MOWR, New Delhi.		
14	Sh. A.K.M.Nayak	Principal Secretary, (WR) Deptt., Govt. of Karnataka		
15	Dr. Saleem Romani	Chairman, Central Ground Water Board, Faridabad.		dr_romani@lycos.com
16	Dr. A.K. Dhawan	Director,CSMRS, Hauz Khas, New Delhi.		
17	Smt. V.M.Bendre	Director, CWPRS, Pune.		
18	Smt. .Jyotsna Verma Ray	Director, Deptt. Of Expenditure.Plan Finance -II, Ministry of Finance.		
19	Sh. A.D.Mohile	Former Chairman, CWC, P3A06, DLF V, Gurgaon	9891154061	anildmohile@yahoo.co.in

20	Sh. R.Rangachari	M-31, Swati Apartments,12 IP Extension, Patparganj, Delhi-110092		
21	Sh. R.S.Saksena	Former Chief Engineer , Ministry of Water Resources		

Others:

Sl.	Name	Designation	Tel. No.	E.mail Address
22	Sh. S.T. Patil	Director (WALMI), Dharwad.	0836-2486893	patilst@gmail.com.
23	Sh. A.D.Joseph	Member (SAM), CGWB		
24	Sh. A.N.Das	Director (Finance)		
25	Sh. U.K.Ghosh	Director (P&P) Dte., CWC.	26109425	ppdte@rediffmail.com
26	Sh. N.J.Singh	Director (FMP), CWC.		
27	Sh. R. K .Jain	Sr.Jt.Comm.(CAD)		
28	Sh. Veer Pal	Jt.Commissioner, MOWR,New Delhi.		
29	Sh. P.S. Kutiyal	Dy. Director (P&P) , CWC.	26109425	ppdte@rediffmail.com
30	Sh. S. L .Jain	Dy.Commissioner (MI), MOWR, New Delhi.		
31	Sh. Kishore Kumar	Dy.Director (PR), MOWR, New Delhi.		
32	Sh. Narmadeshwar Jha	Dy.Director (P&P) ., CWC.	26109425	ppdte@rediffmail.com
33	R. M. Mathew	Executive Engineer(WR), Office of Chief Engineer, Jaipur.		
34	Sh. A. K. Mittal	AD(PP), MOWR, New Delhi.		

Annex- 2.1

Statewise likely Physical achievement in MMI Sector upto end of X Plan

(Th.ha)

Sl. No.	Name of States & UTs	Ultimate Irrgn. Pot. For Major & Medium	Potential created till end of IX Plan	Potential utilised till end of IX Plan	Performance During X Plan												Cumulative Achievements Upto X Plan	
					2002-03		2003-04		2004-05		2005-06		2006-07 (Target)		Sub Total			
					PC	PU	PC	PU	PC	PU	PC	PU	PC	PU	PC	PU	PC	PU
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	Andhra Pradesh	5000.00	3303.22	3051.59	94.24	61.26	112.98	73.44	78.03	50.72	11.74	7.63	142.45	92.59	439.44	285.64	3742.66	3337.23
2	Arunachal Pradesh	0.00	0.00	0.00	0.8	0.52	0.3	0.2	0.1	0.07	0	0	0	0	1.2	0.79	1.20	0.79
3	Assam	970.00	243.92	174.37	5.5	3.58	0.62	0.4	47.65	30.97	2.5	1.63	12.71	8.26	68.98	44.84	312.90	219.21
4	Bihar	5223.50	2680.00	1714.83	27	17.55	45	29.25	45	29.25	37	24.05	125	81.25	279	181.35	2959.00	1896.18
5	Jarkhand	1276.50	354.47	230.45	58	37.7	47	78.62	59.5	38.68	50	32.5	35	22.75	249.5	210.25	603.97	440.70
6	Goa	62.00	21.17	15.33	1.72	1.12	3.15	2.05	2.22	1.44	4.29	2.65	5.1	3.32	16.48	10.58	37.65	25.91
7	Gujarat	3000.00	1430.37	1300.83	144	93.6	137.13	89.13	168	109.2	324	210.6	15	9.75	788.13	512.28	2218.50	1813.11
8	Haryana	3000.00	2099.49	1849.97	16.3	10.6	13.57	8.82	16.43	10.68	20.28	13.18	25.29	16.44	91.87	59.72	2191.36	1909.69
9	Himachal Pradesh	50.00	13.35	7.51	0.2	0.13	0.3	0.2	0.3	0.2	0.3	0.2	1	0.65	2.1	1.38	15.45	8.89
10	Jammu & Kashmir	250.00	179.69	168.75	3.56	2.31	4.82	3.13	0	0	15.23	9.9			23.61	15.34	203.30	184.09
11	Karnataka	2500.00	2121.12	1844.82	1.4	1.2	2.6	1.69			2.63	2.2			6.63	5.09	2127.75	1849.91
12	Kerala	1000.00	609.49	558.87	57.12	37.13	68.21	44.34	74.67	29.87	134.09	17.54	146.89	95.48	480.98	224.36	1090.47	783.23
13	Madhya Pradesh	4853.07	1386.90	875.63	10	6.5	15	9.75	15	9.75	10	6.5	15	9.75	65	42.25	1451.90	917.88
14	Chattisgarh	1146.93	922.50	760.74	101.75	66.14	125.32	81.46	147.76	39.5	170.17	110.61	343.18	223.07	888.18	520.78	1810.68	1281.52
15	Maharashtra	4100.00	3239.00	2147.24	24	15.6	115	74.75	115	74.75	1.15	0.75			255.15	165.85	3494.15	2313.09
16	Manipur	135.00	91.15	72.91			5.15	4.5	5.25	4	0	0	1.5	0.98	11.9	9.48	103.05	82.39
17	Meghalaya	20.00	0.00	0.00											0	0	0.00	0.00
18	Mizoram	0.00													0	0	0.00	0.00
19	Nagaland	10.00	0.00	0.00									1	0.65	1	0.65	1.00	0.65
20	Orissa	3600.00	1826.56	1794.17	29.92	19.45	67.4	43.81	27.75	18.04	5	3.25	33.34	21.67	163.41	106.22	1989.97	1900.39
21	Punjab	3000.00	2542.48	2485.99	2.19	5.03					30	19.5	30	19.5	62.19	44.03	2604.67	2530.02
22	Rajasthan	2750.00	2482.15	2313.87	44.8	29.12	68.85	44.95	92	92	71	46.15	131.55	85.51	408.2	297.73	2890.35	2611.60
23	Sikkim	20.00	0.00	0.00											0	0	0.00	0.00
24	Tamil Nadu	1500.00	1549.31	1549.29	4.25	2.76	5.14	3.34	2.36	1.53					11.75	7.63	1561.06	1556.92
25	Tripura	100.00	4.90	4.50					4.5	2.93	4.65	3.02	4.65	3.02	13.8	8.97	18.70	13.47
26	Uttar Pradesh	12154.00	7910.09	6334.00	145.34	94.47	74.72	38.63	145.2	130	162	105.3	344	223.6	871.26	592	8781.35	6926.00
27	Uttranchal	346.00	280.30	185.41	1.24	0.81	2.48	1.61	2.48	1.61	2.48	1.61	0.67	0.44	9.35	6.08	289.65	191.49
28	West Bengal	2300.00	1683.29	1527.12	39	25.35	7.52	4.89	15	9.75	10	6.5	15	9.75	86.52	56.24	1769.81	1583.36
	UTs	98.00	6.51	3.94	0	0	0	0	0	0	0	0			0	0	6.51	3.94
	Total	58465.00	36981.43	30972.13	812.33	531.91	922.26	638.95	1064.2	684.93	1068.51	625.26	1428.3	928.41	5295.63	3409.53	42277.06	34381.66

Projects Likely to be Completed in X Plan

(Rs.Crore/Th.ha)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
STATE-ANDHRAPRADESH																				
A	MAJOR PROJECTS																			
1*	NSP	NLG,KRN,KMM, GTR,PKSM	DPA/TA	APP	II	1407.26	1062.46	344.8	1407.26	0	0	0	0	895	859.63	9.02	868.65	26.35	26.35	Completed
2*	SRPS Stage-I	ADB, WGL, NZB, KRMR	DPA/TA	APP	III	2956	1992.39	962.68	2955.07	0.93	0.93	0.93	0.651	392	308.34	64.94	373.28	18.72	18.72	Completed
3	Pulivendula Branch canal	KDP	DPA	APP	IV	197.15	31.51	165.64	197.15	0	0	0	0	24.28	22.87	0	22.87	1.41	1.41	2007-08
4	Vamsadhara Stage-I	SKLM	DPA/TA	APP	IV	114.74	98.91	15.83	114.74	0	0	0	0	59.99	59.18	0.68	59.86	0.13	0.13	Completed
5	Singoor (Water supply scheme)	MDK	DPA	APP	V	213.29	164.13	49.16	213.29	0	0	0	0	--	--	0	0	0	0	Completed
6*	PJP	MBNR	DPA	UA	VI	888.94	448.12	440.82	888.94	0	0	0	0	41.3	24.41	16.89	41.3	0	0	Completed
7	Yeleru Projects Ph.-I	EG	TA	UA	VI	487.54	302.73	30.78	333.51	154.03	154.03	154.03	154.03	27.36	--	27.36	27.36	0	0	Stabilisation Achieved 27.36 Th.Ha
8	Chagalnadu LIS	EG	TA	UA	IX	71	44.29	22.02	66.31	4.69	0.469	4.69	4.69	14.168	--	14.168	14.168	0	0	2007-08
9	Guru Raghavendra LIS	KNL	DPA	UA	X	98.67		98.67	98.67	0	0	0	0		--	0	0	0	0	
10	Nizamsagar LIS			UA												0	0	0	0	
	a) Alisagar LIS	NZB		UA	X	224.14		224.14	224.14		0	0	0		--	0	0	0	0	2006-07
	b) Guthpa LIS	NZB		UA	X	211.45		141.03	141.03	70.42	70.42	70.42	70.42		--	0	0	0	0	2006-07
	SUB TOTAL (MAJOR)					6870.18	4144.54	2495.57	6640.11	230.07	225.849	230.07	229.791	1454.098	1274.43	133.058	1407.488	46.61	46.61	
B	MEDIUM PROJECTS																			
1	Tandava	VSPM	TA	APP	III	17.28	13.73	2.57	16.3	0.98	0.98	0.98	0.098	20.31	19.75	0	19.75	0.56	0.56	Completed
2*	Madduvalasa	VSPM	TA	APP	V	120.95	89.79	31.16	120.95	0	0	0	0	10	2.43	7.57	10	0	0	Completed
3	Cheyyeru	KDP	DPA	APP	V	65.26	52.76	12.5	65.26	0	0	0	0	9.1	2.02	7.08	9.1	0	0	Completed
4*	Maddigadda	EG	TA	APP	V	13	3.58	4.77	8.35	4.65	4.65	4.65	3.255	1.62	1.06	0.56	1.62	0	0	2006-07
5*	Yerrakaluva incl. LIS	WG	--	APP	V	125	4.39	47.52	51.91	73.09	73.09	73.09	51.163	13.9	3.04	10.86	13.9	0.00	0.00	2006-07
6	Maddileru	Anantpur	DDP	APP	VIII	61.24	50.64	2.72	53.36	7.88	7.88	7.88	0.788	5.21	3.84	1.37	5.21	0	0	Completed
7	Pedderu (Vizag)	VSPM	TA	UA	IX	42.35	21.1	21.25	42.35	0	0	0	0	7.07	2.02	5.05	7.07	0	0	2006-07
8	Upper Kalasnala	Nizamabad		APP	VIII															
9	Thorigedda Pumping scheme	EG	TA	UA	X	12.5	9.97	1.01	10.98	1.52	1.52	1.52	0.152		--	0	0	0	0	Completed
10	Veligallu	KDP	DPA	UA	X	182.65		151.16	151.16	31.49	31.49	31.49	31.49	9.91	--	6.07	6.07	3.84	3.84	2006-07

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
11	Yerravagu	ADB	DPA/TA	UA	X	55.52	13.13	19.39	32.52	23	23	23	23	4.45	--	4.05	4.05	0.4	0.4	2006-07
12	Suddavagu	ADB	DPA/TA	UA	X	129.91	10.8	71.89	82.69	47.22	47.22	47.22	47.22	5.66	--	5.66	5.66	0	0	2006-07
	SUB TOTAL (MEDIUM)					825.66	269.89	365.94	635.83	189.83	189.83	189.83	157.166	87.23	34.16	48.27	82.43	4.8	4.8	
C	ERM Projects																			
1	Godavari Barrage (Stab.)	EG, WG	TA	APP	IV	191.65	181.13	5.21	186.34	5.31	5.31	5.31	0.531			0	0	0	0	Completed
2	K.C. Canal (Modernisation) (Stab.)	KNL.,KDP	DPA	APP	VIII	1107	371.11	619.55	990.66	116.34	116.34	116.34	116.34			0	0	0	0	Completed
3	APERP (Projects closed by 3/06)			UA	IX	962.25	499.94	448.89	948.83	13.42	13.42	13.42	1.342			0	0	0	0	Completed by 3/06
4	Prakasam Barrage (Stab.)	KRN	DPA	UA	IX	23.85	18.69	5.16	23.85	0	0	0	0			0	0	0	0	Completed
5	Gosthamidi Drain cum Canal (Stab.)	EG	TA	UA	IX	3.8	3.18	0.28	3.46	0.34			0.34							Completed
6	RDS Link Canal (Stab.)	MBNR	DPA	UA	IX	29.31	15.37	13.94	29.31	0	0	0	0			0	0	0	0	Completed
	SUB TOTAL (ERM)					2317.86	1089.42	1093.03	2182.45	135.41	135.07	135.07	118.553	0	0	0	0	0	0	
	TOTAL-I					10013.7	5503.85	3954.54	9458.39	555.31	550.749	554.97	505.51	1541.328	1308.59	181.328	1489.918	51.41	51.41	
State: ARUNACHAL PRADESH																				
A	Major Projects	NIL																		
B	Medium Projects	NIL																		
C	ERM Projects	NIL																		
	Total-I	NIL																		
STATE: ASSAM																				
A	MAJOR PROJECTS																			
--	Sukla Flow Irrigation Project	Kannup/Beska		APP	III	4.90	4.90	0	4.9	0				15.64	15.64	0	15.64	0.00		
--	Jamuna Flow Irrigation Project	Nagaon		APP	III	4.34	4.34	0	4.34	0				31.00	31.00	0	31.00	0.00		
1*	Integrated Kallong Irrigation Project	Nagaon		APP	V	113.93	65.91	13.8942	79.80416	34.1258			34.1258	34.40	27.58	1.95	29.53	4.87		
2*	Bordikorai Irrigation Project	Sonipur		APP	V	49.97	46.22	3.75	49.97	0			0	34.00	32.45	0.203	32.65	1.35		
	Sub-total (Major)					173.14	121.37	17.64	139.01	34.13	0.00	0.00	34.13	115.03	106.66	2.15	108.81	6.22	0.00	
B	Medium Projects																			
--	Bhunka Flow Irrigation Project	Barpeta		APP	I									4.2	4.2		4.2	0		
--	Improvement of Kulsik Flow I.P.	Darrang		APP	II	0.14	0.14	0	0.14	0				3.00	3.00		3	0		

Projects Likely to be Completed in X Plan

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
--	Horgui Flow Irrigation Project	Kabi Anglong		APP	III	0.43	0.27	0	0.27	0.16			0.16	2.8	2.80		2.8	0		
--	Longa Flow Irriation Project	Kokrajhar		APP	IV	0.52	0.52	0	0.52	0				4.96	4.96		4.96	0		
--	Kaldya Flow Irrigation Project	Barpeta		APP	IV	9.77	9.77	0	9.77	0				16.5	16.36		16.36	0.14		
--	Dekodong Flow Irrigation Project	Barpeta		APP	IV	4.6	5.25	0	5.25	-0.65				6.05	6.05		6.05	0		
--	Kalabor Lift Irrigation Project	Nagaon		APP	IV			0	0	0				13.56	13.56		13.56	0		
--	Dekhari Flow Irrigation Project	Kabi Anglong		APP	IV	1.09	1.15	0	1.15	-0.06				2.86	2.86		2.86	0		
--	Rupahi Flow Irrigation Project	Barpeta		APP	V	10.69	7.04	0.279	7.319	3.371			3.37	3.99	3.99		3.99	0		
1*	Pahumara Flow Irrigation Project	Barpeta		APP	AP-1978-80	46.15	32.92	10.1801	43.1001	3.0499			3.05	12.95	10.85	0.90	11.75	1.2		2006-07
2*	Hawaipur Flow Irrigation Project	Kabi Anglong		APP	VI	14.93	11.82	2.26	14.08	0.85			0.85	3.89	2.39	0.64	3.03	0.857		
	Sub-total (Medium)					88.32	68.88	12.7191	81.5991	6.7209	0	0	7.4309	64.757	61.02	1.54	62.56	2.197	0	
C	ERM Projects	Nil						12.7191	81.5991	6.7209										
	Total					261.46	190.25	30.36	220.61	40.85	0.00	0.00	41.56	179.79	167.68	3.69	171.37	8.42		
STATE: BIHAR																				
A	Major Projects																			
1*	Upper Kiul	Katihar,Purnia Kishanganj, Saharsha	--	APP	V	159.16	126.22	17.23	143.45	15.71			15.71			0.00	0.00	0.00		
	Sub total (Major)					159.16	126.22	17.23	143.45	15.71	0	0	15.71	0	0	0	0	0	0	
B	Medium Projects																			
1*	Orni Res.	Bhagalpur	--	APP	V	74.89	58.2	1.25	59.45	15.44			15.44	9.72	5.5	4.00	9.50	0.22		
2	Sindhwani	Munger	--	APP	VI	48.32	10.72	0	10.72	37.6				9.38	0	0.00	0.00	9.38		
	Sub total (Medium)					123.21	68.92	1.25	70.17	53.04	0	0	15.44	19.1	5.5	4	9.5	9.6	0	
C	ERM Projects																			
	Sub total (ERM)	Nil																		
	Total					282.37	195.14	18.48	213.62	68.75	0	0	31.15	19.1	5.5	4	9.5	9.6	0	
STATE: CHHATTISGARH																				
A	MAJOR PROJECTS																			
--	Pairy & Others	Raipur			IV	16.11		16.11	16.11	0.00				73.736	73.736	0	73.736	0	0	
--	Kodar	Mahasamund			V	5.53		5.53	5.53	0.00				23.472	23.472	0	23.472	0	0	
--	Tandula	Durg			V	0		0.00	0.00	0.00				68.219	68.219	0	68.219	0	0	

Projects Likely to be Completed in X Plan

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1*	Jonk	Raipur			V	14.36		14.36	14.36	0.00				14.569	7.478	5.392	12.87	1.699	0	2005
	Sub Total					36		36.00	36.00	0.00				179.996	172.905	5.392	178.297	1.699	0	
B	Medium Projects								0.00	0.00										
--	Banki	Sarguja			V	0			0.00	0.00				3.441	3.441	0	3.441	0	0	
--	Shyam Ghunghutta	Sarguja			V	4.41		4.41	4.41	0.00				13.05	13.05	0	13.05	0	0	
--	Mand	R'garh, Janjgir			V	6.75		6.74	6.74	0.01				13.118	13.118	0	13.118	0	0	
--	Ghongha	Bilaspur			AP-1978/ 80	0.6		0.60	0.60	0.00				8.343	8.343	0	8.343	0	0	
--	Gej	Koria			VI	0.4685		0.47	0.47	0.00				4.416	4.416	0	4.416	0	0	
--	Kinkari	Raigarh			VI	0								4.048	4.048	0	4.048	0	0	
1*	Barnai	Sarguja		APP	VI	24.09	16.0994	5.99	22.09	2.00			2.00	2.82	1.335	1.285	2.62	0.2	0.2	2006-07
2	Uperjonk Canal	Mahasamund		UA	VII	9.89	1.007	6.99	8.00	1.89			1.89	0.86	0	0.86	0.86		0	2006-07
3*	Shivnath	Rajnandgaon		APP	VIII			0.69						5.87	5.17	0.7	5.87	0	0	
	Sub Total					46.2085	17.1064	25.8965	42.3081	3.9004	0	0	3.8886	55.966	52.921	2.845	55.766	0.2	0.2	
C	ERM Projects																			
--	Tandula Main Canal Lining, Ph-I	Durg			X	122.45	0	118.98	118.98	3.47			3.4695	13.896	0	13.896	13.896	0	0	2006-07
--	Tandula Main Canal Lining Ph-2	Durg			X	31.97	0	15.00	15.00	16.97			16.97	5.809	0	5.809	5.809	0	0	2006-07
	Sub Total					154.42	0	133.981	133.9805	20.4395	0	0	20.4395	19.705	0	19.705	19.705	0	0	
	Total					236.6285	17.1064	195.879	212.2907	24.3378	0	0	24.3281	255.667	225.826	27.942	253.768	1.899	0.2	

STATE: GOA

A	Major Projects																			
1*	SALAULI Irrigation Project	South Goa		APP	IV	170.23	146.48	23.75	170.23	0	0	0	0	14.326	7.734	6.592	14.326	0	0	2007
	Sub Total					170.23	146.48	23.75	170.23	0	0	0	0	14.326	7.734	6.592	14.326	0	0	
B	Medium Projects																			
	Sub Total																			
C	ERM Projects																			
1	Mod. Anjunem			UA	IX	5.29	2.06	0.86	2.92	2.37			2.37	0	0	0	0	0	0	
	Sub-Total	-	-	-	-	5.29	2.06	0.86	2.92	2.37	0	0	2.37	0	0	0	0	0	0	

Projects Likely to be Completed in X Plan

Annex. 2.2
(5/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Total of 1	-	-	-	-	175.52	148.54	24.61	173.15	2.37	0	0	2.37	14.326	7.734	6.592	14.326	0	0	
STATE - GUJARAT																				
A	Major Projects																			
--*	Watrak					0.5	0.00	0.00	0.00	0.50	0.50	0.63	0.50	0.00	0.00	0.00	0.00	0.00	0.00	
	Sub total-					0.5				0.50	0.50	0.63	0.50	0.00	0.00	0.00	0.00	0.00	0.00	
B	Medium Projects																			
1*	Mukteshwar (AIBP)	Banaskantha, Mehsana	DPA/TA	APP	VI	51.00	45.20	5.35	50.55	0.45	0.45	0.56.	0.45	5.88	3.30	2.58	5.88	0.00	0.00	2007
2	Und-II	Jamnagar	DDP	APP	VII	70.00	58.50	10.03	68.53	1.47	1.47	1.84	1.47	5.31	0.80	3.12	3.92	1.39	1.39	2007
3	Vartu -II	Jamnagar	DDP	UA	VIII	61.00	52.51	8.19	60.70	0.30			0.30	6.17	4.50	1.05	5.55	0.62	0.62	2007
4*	Aji-IV (AIBP)	Jamnagar	DDP	APP	IX	118.04	78.79	32.35	111.13	6.91	6.91	8.64	4.84	3.75	0.93	0.90	1.83	1.92	1.92	2007
5	Demi-III	Jamnagar/Rajkot	DDP	UA	IX	48.31	30.61	15.34	45.94	2.37	2.37	2.96	2.37	2.60	0.15	0.00	0.15	2.45	2.45	2007
6*	Brahmani-II			APP	IX															
	Sub total					348.35	265.61	71.26	336.85	11.50	11.20	13.44	9.43	23.71	9.68	7.65	17.33	6.38	6.38	
C	ERM Projects																			
1	KRBC			UA	IX	30.5	27.73	2.34	30.07	0.43				4.05	0.62	0.67	1.29	2.76		
2	Sabarmati Pickup Wier			UA	IX	70.0			70.00											
	Sub total					100.5	27.73	2.34	100.07	0.43	0	0	0	4.05	0.62	0.67	1.29	2.76	0	
	Total					449.35	293.34	73.6	436.92	12.43	11.7	14.07	9.93	27.76	10.3	8.32	18.62	9.14	6.38	
STATE - HARYANA																				
A	Major Projects								Nil											
1	Rewari Lift Stage II	Jhajhar,Rewari, Gurgaon	DDP	APP	III	43.25	33.53	9.72	43.25	0.00				8.00	0.00		8	0.00		
2	Loharu Lift	Bhiwani,Ambala	DDP	APP	IV	75.53	43.77	1.81	45.58	29.95			29.95	82.00	73.00		73	9.00		
3*	Gurgaon Canal	Gurgaon,Faridabad	DDP	APP	III													0.00		
4*	JLN Lift Irrigation	Rohtak,Bhiwani, Mahendragarh	DDP	APP	V	245.75	182.17	8.10	190.27	55.48			38.84	164.00	95.00		95	69.00		
	Total Major					364.53	259.47	19.63	279.10	85.43	0.00	0.00	68.79	254.00	168.00	0.00	176.00	78.00	0.00	
B.	Medium Projects	Nil							Nil											
C.	ERM Projects																			

Projects Likely to be Completed in X Plan

Annex. 2.2
(6/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1*	WRCP			APP	VIII	1993.170	1937.810	0.00	1937.81	55.36			55.36	155.500	107.660	6.22	113.88	41.618		
	Sub-total					1993.170	1937.810	0.000	1937.810	55.360	0.000	0.000	55.360	155.500	107.660	6.222	113.882	41.618	0.000	
	Total					2357.700	2197.280	19.630	2216.910	140.790	0.000	0.000	124.146	409.500	275.660	6.222	289.882	119.618	0.000	
State: HIMACHAL PRADESH																				
		Nil																		
	Total					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
STATE-JAMMU&KASHMIR																				
	Major Projects	Nil						Nil												
	Medium Projects																			
1*	Lethpora Lift	Phulwama	--	APP	IV	10.04	7.52	1.33	8.85	1.19			1.19	3.20	0.95	1.51	2.46	0.74	0.74	
2*	Igo-Phey Irrg. Project	Leh	DDP	APP	AP78-80	49.03	37.52	7.81	45.33	3.70			3.70	4.37	3.22	1.10	4.32	0.05	0.05	
	Total Medium					59.07	45.04	9.14	54.18	4.89	0.00	0.00	4.89	7.57	4.17	2.61	6.78	0.79	0.79	
	ERM Projects																			
1*	Mod. of Zaingir Canal	Baramula	--	APP	VII	13.660	9.890	1.29	11.18	2.48			2.48	5.290	4.930	0.36	5.29	0.00	0.00	
2*	Mod. of Kathua Canal	Kathua	--	UA(TAC)	VII	15.680	8.460	3.42	11.88	3.80			3.80	3.600	0.180	3.42	3.60	0.00	0.00	
	Total ERM					29.340	18.350	4.710	23.060	6.280	0.000	0.000	6.280	8.890	5.110	3.780	8.890	0.000	0.000	
	Total					88.41	63.39	13.85	77.24	11.17	0.00	0.00	11.17	16.46	9.28	6.39	15.67	0.79	0.79	
STATE- JHARKHAND																				
A	Major Projects																			
	Sub total																			
B	Medium Projects																			
1	Sakrigali			APP	V															
2*	Tapkara Res. Sch.	Gumla	TA	APP	VI	4.93	4.34	0.04	4.38	0.55			0.55	1.86	1.20	0.66	1.86			2002-03
3*	Kansjore Res. Sch.	Gumla	TA	APP	VII	52.97	40.61	1.24	41.85	11.12			11.12	4.50	3.00	1.50	4.50			2006-07
4	Katri Res. Sche	Gumla	TA	UA	VII	47.97	44.79	2.26	47.05	0.92			0.92	5.82	2.61	3.21	5.82			2006-07
5	Dhansingh Toli Res.	Gumla	TA	UA	VII	29.52	25.82	1.02	26.84	2.68			2.68	2.99		2.99	2.99			2006-07
6*	Latratu Res. Sch.	Ranchi	TA	APP	VII	41.06	41.02	0.04	41.06	0.00			0.00	9.90	7.00	2.90	9.90			2002-03

Projects Likely to be Completed in X Plan

Annex. 2.2
(7/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
	Sub total					176.45	156.58	4.60	161.18	15.27	0.00	0.00	15.27	25.07	13.81	11.26	25.07	0.00	0.00	0.00
C	ERM Projects																			
	Sub total																			
	Total	0	0	0	0	176.45	156.58	4.60	161.18	15.27	0.00	0.00	15.27	25.07	13.81	11.26	25.07			
STATE-KARNATAKA																				
A	MAJOR PROJECTS																			
--*	Ghataprabha I & II	Bijapur & Belgaum			Pre-Plan & I Plan	72.26	72.26	0	72.26	0				139.380	139.380		139.38			
--	Tunga Anicut	Shimoga			Pre-Plan	3.31	3.31	0	3.31	0				8.700	8.700		8.7			
--	Tungabhadra RB LLC	Bellary			Pre-Plan	4.53	4.53	0	4.53	0				37.504	37.504		37.504			
	Sub Total Major					80.100	80.100	0.000	80.100	0.000	0.000	0.000	0.000	185.584	185.584	0.000	185.584	0.000	0.000	
B	MEDIUM PROJECTS																			
1*	Maskinala	Raichur	DPA	APP	V	49.00	37.14	8.49	45.63	3.37	3.54	3.37	3.37	3.001	0.000	2.001	2.001	1.000		2007-08
--	Soudagar	Gulbarga & Bidar			V	5.57	5.57	0	5.57	0				1.417	1.417		1.417			
--	Nallur Ammannikere	Mysore			V	5.17	5.17	0	5.17	0				1.215	1.215		1.215			
2	Chulkinala	Bidar		APP	V	70.00	70.00	0	70	0				4.047	4.047		4.047			
3	Votehole	Hassan		APP	V	52.50	44.75	7.52	52.27	0.23	0.23	0.23	0.23	7.487	6.814	0.000	6.814	0.673	0.67	2006-07
--	F.C.to Ranikere	Chitradurga			AP-1978-80	9.49	9.49	0	9.49	0				0.590	0.590		0.59			
4	Uduthorehalla	Chamarajanagar		-	AP 78-80	235.00	128.83	73.29	202.12	32.88	32.88	32.88	32.880	6.602	1.983	4.602	6.585	0.017	0.02	2006-07
--	Chiklihole	Kodagu		-	AP 78-80	19.02	17.46	1.74	19.2	-0.18	0.00	0.00	-0.02	0.865	0.834	0.000	0.834	0.031	0.03	2006-07
5	Nanjapur L.I.S	Mysore, Mandya		-	IX	33.01	8.29	24.72	33.01	0	0.00	0.00		4.049	0.000	4.049	4.049	0.000	0.00	2006-07
	TOTAL B					478.76	326.70	115.76	442.46	36.30	36.65	36.48	36.46	29.27	16.90	10.65	27.55	1.72	0.72	
C	ERM	NIL																		
	TOTAL					558.860	406.800	115.760	522.560	36.300	36.649	36.480	36.462	214.857	202.484	10.652	213.136	1.721		
STATE-KERALA																				
	Major																			
--	Pazhassi	Kannur	TA	APP	III	162.00	157.11	0.00	157.11	4.89				23.66		23.66	23.66			
--	Kanhirapuzha (Winding up)	Palakkad	TA	APP	III	112.00	11.95	30.68	42.63	69.37			69.37	21.853		16.348	16.348	5.505		

Projects Likely to be Completed in X Plan

Annex. 2.2
(8/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1*	Kallada (Winding up)	Kallam, Pathnamthitta	--	APP	III	714.00	644.07	9.60	653.67	60.33				80.579		65.875	65.875	14.704		
	Total					988.00	813.13	40.28	853.41	134.59	0.00	0.00	69.37	126.09	0.00	105.88	105.88	20.21	0.00	
STATE - MADHYA PRADESH									Cost in Crore											
(A)	MAJOR PROJECTS																			
1	Kolar	Sehore		APP	IV	195.60	182.14	7.26	189.41	6.19	6.19	6.19	6.19	47.30	33.00	14.30	47.30	0	0	2007
2*	Sindh Phase-I	Gwalior		APP	IV	102.89	60.52	41.44	101.95	0.94	0.94	0.94	0.94	44.90	36.20	8.70	44.90	0	0	2007
3*	Upper Wainganga	Balaghat,Seoni		APP	V	285.00	247.38	31.98	279.36	5.64	5.64	5.64	5.64	105.30	87.00	18.30	105.30	0	0	2007
--	Thanwar	Mandla		APP	V	36.40	25.36	2.17	27.53	8.87	8.87	8.87	8.87	18.20	17.90	0.30	18.20	0	0	Completed
4*	Urmil	Chhatarpur		APP	V	28.08	24.93	3.15	28.08	0.00	0.00	0.00	0.00	7.70	6.90	0.80	7.70	0	0	Completed
--	Rajghat Dam Unit-I	Jhansi (U.P.)		APP	V	160.00	137.33	18.28	155.61	4.39	4.39	4.39	4.39	0.00	0.00	0.00	0.00	0	0	Completed
5	Rajghat Canal	Datia,Bhind Shivpuri, Ashoknagar		APP	V	819.22	433.23	383.98	817.21	2.00	2.00	2.00	2.00	121.45	19.30	102.15	121.45	0	0	Completed
	Total(Major)					1627.18	1110.88	488.25	1599.14	28.05	28.05	28.05	28.05	344.85	200.30	144.55	344.85	0.00	0.00	
(B)	Medium Project																			
--	Rampura Khurd	Sehore		APP	V	34.00	30.50	0.00	30.50	3.50	3.50	3.50	3.50	3.10	2.30	0.80	3.10	0	0	Completed
1*	Banjar	Balaghat		APP	AP 78-80	17.25	10.90	2.16	13.06	4.19	4.19	4.19	4.19	2.40	1.50	0.90	2.40	0	0	Completed
--	Barchar	Sidhi		APP	AP 78-80	23.00	17.10	3.28	20.38	2.62	2.62	2.62	2.62	2.40	2.30	0.10	2.40	0	0	Completed
--	Gopad LIS	Sidhi		APP	VI	24.66	19.56	4.99	24.56	0.10	0.10	0.10	0.10	5.70	4.90	0.80	5.70	0	0	Completed
2	Kaliasote	Bhopal		APP	AP 78-80	69.52	60.72	4.94	65.66	3.86	3.86	3.86	3.86	4.50	3.00	1.50	4.50	0	0	Completed
--	Chandora	Betul		APP	VI	19.93	16.95	1.13	18.08	1.85	1.85	1.85	1.85	3.80	3.30	0.50	3.80	0	0	Completed
	TOTAL(Medium)					188.36	155.73	16.50	172.23	16.12	16.12	16.12	16.12	21.90	17.30	4.60	21.90	0	0	
(C)	ERM Projects					0.00	0.00				0.00	0.00	0.00	0.00						
1	Chambal Phase-II	Gwalior,Morena Seopur,bhind		UA	VII	13.07	8.82	3.50	12.33	0.74	0.74	0.74	0.74	0.00	0.00	0.00	0.00	0	0	2008
	Total ERM					13.07	8.82	3.50	12.33	0.74	0.74	0.74	0.74	0.00	0.00	0.00	0.00	0	0	2008
	Total					1828.61	1275.44	508.26	1783.70	44.91	44.91	44.91	44.91	366.75	217.60	149.15	366.75	0.00	0.00	
STATE - MAHARASHTRA																				
A	Major Projects																			
1*	Khadakwasla	Pune	DPA/TA	APP	II															

Projects Likely to be Completed in X Plan

Annex. 2.2
(9/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
2	Upper Tapi	Jalgaon	DPA/TA	APP	IV															
--	Manjra Project(flow)	Beed/Latur/ Osmanabad	DPA	APP	IV	218.09	55.41	47.08	102.49	115.6	115.6	115.6	115.6	18.220	18.220	0	18.22	0	0.000	2009
3*	Chaskaman	Pune	DPA/TA	APP	V	388.13	206.99	152.05	359.04	29.09	153.61	153.61	20.363	44.17	13.666	26.817	40.483	3.687		
4*	Wan	Akola & Buldhana	DPA	APP	V	239.20	188.94	50.26	239.2	0.00		-		19.177	17.372	1.805	19.177	0		2007
5*	Jayakwadi Project St-II	Aurangabad-Ahmadnagar-Beed-Parbhani-Nanded	DPA/TA	APP	V	792.2	568.38	140.11	708.49	83.71	83.71	83.71	58.597	126.532	93.426	3.04	96.466	30.066	30.066	
6	Arunavati	Yavatmal	DPA/TA	UA	VI	224.16	176.60	39.51	216.11	8.05	8.05	8.855	8.05	24.003	21.441	2.562	24.003	0	0	2008
7*	Vishnupuri	Nanded	DPA/TA	APP	1978-80			0	0	0.00										
--	Lift Irrigation scheme on Lower Terna Project	Osmanabad & Latur	DPA.	APP	VI	158.60	97.83	34.55	132.38	26.22	0.00	0.00	26.22	0.000	0.000	0	0	0	0.000	X Plan
8	Lower Wuna	Nagpur	DPA/TA	UA(TAC)	VI	324.57	221.32	42.97	264.29	60.28	25.08	25.08	60.28	25.55	20.95	4.595	25.545	0	0.00	2006-07
9*	Lower Dudhana Project	Parbhani-Jalna	DPA.	APP	VIII	668.9	140.98	282.68	423.66	245.24	245.24	245.24	171.668	34.438	0.000	0	0	34.438	34.438	
10	Temghar	Pune	DPA/TA	UA	IX	323.52	255.01	27.99	283	40.52	25.05	25.05	40.52	1	1	0	1	0		2007-08
	Total					3337.37	1911.46	817.20	2728.66	608.71	656.34	657.15	501.30	293.09	186.08	38.82	224.89	68.19	64.50	6024.00
B	Medium Projects																0	0		
1	Adan	Yavatmal, Washim.	DPA/TA	APP	V	73.31	57.65	15.66	73.31	0.00	0	0		10.067	10.067	0	10.067	0	0	2007
2	Erdha	Ahmednagar	DPA/TA	UA	V			0.00	0.00	0.00										
3*	Jawalgaon	Solapur	DPA	APP	V	27.21	17.95	3.80	21.75	5.46	0.00	0.00	5.46	5.343	3.506	1.59	5.096	0.247	0.000	X Plan
4*	Kadavi	Kolhapur	--	APP in April 1979	V	71.26	50.61	20.65	71.26	0.00	0	0	0	13.740	10.530	3.21	13.74	0	0	2006
5*	Patgaon	Kolhapur	--	APP in May 1984	V	82.20	58.12	24.08	82.20	0.00	0	0	0	12.070	9.060	3.01	12.07	0	0	2007
6*	Kasari	Kolhapur	--	APP in April 1979	V	30.500	23.35	7.15	30.50	0.00	0	0	0	14.190	9.460	4.73	14.19	0	0	2006
7*	Kumbhi	Kolhapur	--	APP in May 1981	V	73.11	40.14	24.05	64.19	8.92	8.92	8.92	8.92	13.500	3.340	8.13	11.47	2.03	0	2006
8	Chikotra	Kolhapur	--	Submitted to CWC in May 1998	V	137.94	92.24	28.12	120.36	17.58	11.60	11.60	17.58	9.110	4.560	4.55	9.11	0	0	2006
9	Jangamhatti	Kolhapur	--	Submitted to CWC in March 1998	V	26.31	17.12	8.90	26.02	0.29	0.29	0.29	0.29	5.730	3.760	1.97	5.73	0	0	2007
10	Hivara	Jalgaon	DPA/TA	APP	V	16.29	10.29	0.00	10.29	6.00	0.00	0.00	6.00	3.460	2.570	0.89	3.46	0	0.000	Completed
--	Dham	Wardha	--	APP	V	57.85	55.32	0.18	55.50	2.35	2.27	2.27	2.35	9.50	9.50	0	9.5	0	0.00	2006-07
11*	Bahula	Jalgaon	DPA /TA	APP	V	54.97	25.34	21.63	46.97	8.00	8.00	8.00	5.60	4.654	0.352	3.914	4.266	0.388	4.302	2007
12	Wadiwale	Pune	DPA/TA	APP	AI-1978-80			0.00	0.00	0.00										
13*	Kasarsai	Pune	DPA/TA	APP	VI	33.15	24.38	4.20	28.58	4.57	4.57	4.57	4.57	6.590	0	6.59	6.59	0	0.000	Completed
--	Umarzari	Gondia	--	UA	VI	18.00	15.00	2.24	17.24	0.76	0.85	0.85	0.76	2.03	2.03	0	2.03	0	0.00	2006-07

Projects Likely to be Completed in X Plan

Annex. 2.2
(10/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
--	Pakadiguddam	Chandarpur	DPA/TA	PC	VI	30.12	26.00	1.46	27.46	2.66	2.66	2.66	2.66	3.71	3.71	0	3.71	0	0.00	2006-07
14	Katangi	Gondia	--	UA	VI	40.54	18.27	13.95	32.22	8.32	8.32	8.32	8.32	2.45	1.00	0.962	1.962	0.491	0.49	2006-07
15*	Amrawati	Dhule	DPA/TA	APP	VI	48.34	27.85	19.86	47.71	0.63	0.63	0.63	0.63	3.127	0.870	2.257	3.127	0	2.257	2006-2007
16	Purna Neopur	Aurangabad	DPA	APP	VI	19.96	13.81	2.60	16.41	3.55	3.55	3.55	3.55	1.470	1.470	0	1.47	0	0.000	2008
--	Tembhapuri	Aurangabad	DPA	APP	VI	46.18	25.10	8.86	33.96	12.22	12.22	12.22	12.22	4.784	4.784	0	4.784	0	0.000	2007
17	Bordhegaon	Aurangabad	DPA	APP	VI	28.12	24.68	1.65	26.33	1.79	1.79	1.79	1.79	1.600	1.600	0	1.6	0	0.000	2007
18	Anjana Palashi	Aurangabad	DPA	APP	VI	50.81	42.50	4.46	46.96	3.85	3.85	3.85	3.85	2.030	2.030	0	2.03	0	0.000	2007
19	Sonwad	Dhule	DPA/TA	TAC APP	VI	21.41	18.94	2.47	21.41	0.00	0.00	0.00	0.00	3.010	2.680	0	2.68	0.33	0.330	Completed
20	Mun	Buldana, Akola	DPA	II nd.RA 59.79/ 6-12-05	VI	60.85	49.58	3.33	52.91	7.94	7.94	7.94	7.94	8.285	8.285	0	8.285	0	0.000	Completed
21	Benthura	O'bad	DPA	APP	VII	42.00	19.23	7.19	26.42	15.58	15.58	7.19	15.58	2.293	2.293	0	2.293	0	0.000	--
--	Sakat	O'bad	DPA	UA	VII	18.60	14.96	1.15	16.11	2.49	2.49	1.15	2.49	2.355	2.355	0	2.355	0	0.000	--
22*	Madan	Wardha	--	PC	VII	88.02	29.98	49.50	79.48	8.54	8.54	8.54	8.54	3.28	0.00	3.28	3.28	0	0.00	2006-07
23	Chapdoh				VIII			0.00	0.00	0.00										
24	Pentakli	Buldana	DPA	II nd.RA	VIII	172.45	102.00	51.90	153.90	18.55	18.55	18.55	18.55	14.332	1.676	12.656	14.332	0	0.000	2007
25	Chitri	Kolhapur	--	Submitted to CWC in Oct. 1999	VIII	86.00	57.95	28.05	86.00	0.00	0	0	0.00	7.020	6.210	0.81	7.02	0	0	2005
26	Upper Manjra	Osmanabad	DPA	APP	VIII			0.00	0.00	0.00										
27	Sayaki	Nagpur	DPA	UA	VIII	17.89	19.75	1.56	21.31	-3.42	0.00	0.00	-3.42	2.32	2.32	0	2.323	0	0.00	2006-07
28	Navargaon	Yavatmal	DPA/TA	2IId R.A.APP for	VIII	50.83	35.20	15.63	50.83	0.00	0	0	0.00	2.878	2.47	0.408	2.878	0	0	2007
29*	Dongargaon	Chandarpur	DPA/ TA	PC	VIII	47.64	23.22	17.58	40.80	6.84	6.64	6.64	6.84	3.94	0.00	1.642	1.642	2.3	0.00	2006-07
30	Torna	Buldana	DPA	IIst.RA 18.1/ 23-08-05	VIII	18.10	14.71	2.90	17.61	0.49	0.49	0.49	0.49	1.428	1.428	0	1.428	0	0.000	Completed
31	Andra Khore	Pune	DPA/TA	APP	VIII	96.00	52.46	13.93	66.39	29.61	29.61	29.61	29.61	3.570	0	3.57	3.57	0	0.000	2006-07
32	Narangi	Aurangabad	DPA	UA	VIII	22.85	18.77	3.41	22.18	0.67	0.67	0.67	0.67	1.000	1.000	0	1	0	0.000	2007
33	Renapur	Latur	DPA	UA	VIII	72.19	52.14	20.05	72.19	0.00	0.00	0.00	0.00	2.445	2.000	0.195	2.195	0.25	0.000	2007
34	Kajala Wagholi	Osamanabad	DPA	UA	VIII	17.68	9.50	0.39	9.89	7.79			7.79	1.55	0.51		0.51	1.04		
35	Kiramiridarur LIS	Chandrapur	DPA/TA	--	IX	27.89	17.04	10.69	27.73	0.16	0	0	0.16	2.44	0	2.44	2.44	0	0	2007
36	Haranghat LIS	Chandrapur	DPA/TA	-	IX	49.21	20.75	25.87	46.62	2.59	2.59	2.59	2.59	4.82	0	4.82	4.82	0	0	2007
37	Muktainagar L.I.Scheme	Jalgaon	DPA/TA	UA	IX	34.45	25.04	4.46	29.50	4.95	9.41	9.41	4.95	4.199	4.199	0	4.199	0	0.000	3/2000 (exculuding O.E.D.
38	Zashinagar	Bhandara	--	UA	IX															
	Total					1910.23	1246.94	473.56	1720.50	189.74	172.03	162.30	187.34	200.33	121.63	71.62	193.25	7.08	7.38	36121.00

Projects Likely to be Completed in X Plan

Annex. 2.2
(11/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
C	ERM Projects																0	0		
1	Extension of Radhanagri	Satara	DPA	UA	V	13.84	6.44	0.00	6.44	7.40										
2	Extension of Bhatghar	Solapur	DPA	UA	V	7.56		0.00	0.00	7.56										
3	Extension of Ekrukh	Kohlapur	--	UA	VI	13.20	1.36	0.00	1.36	11.84										
--	Raising height of W.W. of Nalleshwar Project	Chandrapur	DPA/TA	UA	X	0.67	0	0.67	0.67	0.00							0	0		
--	Raising hght of Ghodazari Project	Chandrapur	DPA/TA	UA	X	0.73	0	0.73	0.73	0.00	0	0	0	2.03	0	2.03	2.03	0	0	2006
--	Raising height of Amalnalla project	Chandrapur	DPA/TA	UA	X	2.78	0	2.78	2.78	0.00	0	0	0	0.64	0	0.64	0.64	0	0	2007
--	Raising height of Dina Project	Gadchiroli	DPA/TA	UA	X	1.24	0	1.24	1.24	0.00	0	0	0	1.3	0	1.3	1.3	0	0	2007
	Total					40.02	7.80	5.42	13.22	26.80	0.00	0.00	0.00	3.97	0.00	3.97	3.97	0.00	0.00	
	TOTAL					5287.62	3166.20	1296.18	4462.38	825.25	828.37	819.45	688.63	497.38	307.70	114.41	422.12	75.27	71.88	
STATE - ORISSA																				
A	Major Projects																			
1	Potteru Irrigation Project	Malkangiri	TA	APP	IV	220.25	175.62	44.63	220.25	0.00	10.00	10.00	10.00	109.86	77.33	31.7	109.03	0.83	0.00	Completed
2*	Upper Kolab Irr. Project	Koraput	TA	APP	V	333.97	303.74	30.23	333.97	0.00				85.89	44.03	29.11	73.14	12.75	0.00	Completed
3*	Upper Indravati Irrigation Project																			
	a. Barrage , Left & Right Canal system	Kalahandi	DTA	APP	Ar-1978-80	459.39	417.06	42.33	459.39	0.00	0.00	0.00		125.09	74.60	50.49	125.09	0.00	0.00	Completed
--*	Rengali Left Bank Canal (RD 0.00 to 29.177 Km.)	Anugul & Dhenkanal	DPA	APP	VIII	237.23	156.12	81.11	237.23	0.00				8.48	5.36	3.12	8.48	0.00	0.00	Completed
4	Mahanadi Chitrotpala Island Irrigation	Cuttack,Kendrapada & J.S Pur	--	APP	VII	229.00	183.43	45.57	229.00	0.00				25.46	10.90	2.00	12.90	12.56	0.00	Partly completed due to
	Sub-Total					1479.84	1235.97	243.87	1479.84	0.00	10.00	10.00	10.00	354.78	212.22	116.42	328.64	26.14	0.00	
B	Medium Projects									0.00										
1	Hariharjore	Sonepur	DPA	APP	Ar-1978-80	86.40	79.24	7.16	86.40	0.00				13.70	9.95	3.75	13.70	0.00	0.00	Completed
2	Harbhangi	Gajapati & Ganjam	TA	APP	Ar-1978-80	146.84	132.98	13.86	146.84	0.00				13.79	9.15	4.64	13.79	0.00	0.00	Completed
3	Badanalla	Rayagada	TA	APP	VI	126.18	115.09	11.09	126.18	0.00	5.00	5.00	5.00	14.46	8.80	5.66	14.46	0.00	0.00	Completed
4	Upper Jonk	Nuapada	DPA	APP	VI	102.60	98.91	3.69	102.60	0.00				12.69	9.43	3.26	12.69	0.00	0.00	Completed
5	Baghua St-II	Ganjam	TA	APP	VII	73.19	60.24	12.95	73.19	0.00				3.69	3.69	0.00	3.69	0.00	0.00	Completed
6	Sapua Badjore	Dhenkanal	DPA	APP	VII	43.17	40.36	2.81	43.17	0.00				3.53	2.27	0.35	2.62	0.91	0.00	Completed
	Sub-Total					578.38	526.82	51.56	578.38	0.00	5.00	5.00	5.00	61.86	43.29	17.66	60.95	0.91	0.00	0.00
C	ERM & Other Projects																			

Projects Likely to be Completed in X Plan

Annex. 2.2
(12/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1*	Naraj Barrage	Cuttack	--	APP	VIII	215.96	173.24	42.72	215.96	0.00				No Direct Physical Benefit						Completed
2	WRCP (26 Projects) Except Scheme Completion	Whole State	DPA/TA	APP	VIII	517.27	382.87	134.40	517.27	0.00	-	-		Stabilisation of Existing						
3	Gobardhanpur Barrage	Puri	--	UA(TAC)	VIII	12.73	11.92	0.81	12.73	0.00	-	-		5.00	5.00	0.00	5.00	0.00	0.00	Completed
4	Salandi (Ambahata Canal)	Bhadrak	--	UA(TAC)	IX	9.69	1.47	8.22	9.69	0.00	-	-		3.65	0.00	3.65	3.65	0.00	0.00	Completed
5	Upper jonk Extn.(Kharakhara)	Nuapada	DPA	UA(TAC)	IX	24.42	6.03	18.39	24.42	0.00	-	-		1.70	0.70	1.00	1.70	0.00	0.00	Completed
-	Baghua Dhanei Doab	Ganjam	TA	UA(TAC)	IX	11.37	2.86	8.51	11.37	0.00	-	-		1.95	0.90	1.05	1.95	0.00	0.00	Completed
6	Gobakunda H.L Bridge	Puri	--	UA(TAC)	IX	6.71	5.35	1.36	6.71	0.00	-	-		No Physical Benefit						Completed
7	Budhabudhiani Extn.	Nayagarh	--	UA(TAC)	IX	5.31	4.56	0.75	5.31	0.00	-	-		1.00	1.00	0.00	1.00	0.00	0.00	Completed
8	Ghodahado Extn.	Ganjam	TA	UA(TAC)	IX	3.22	2.50	0.72	3.22	0.00	-	-		0.65	0.65	0.00	0.65	0.00	0.00	Completed
9	Dhanei Extn.	Ganjam	TA	UA(TAC)	IX	2.79	2.27	0.52	2.79	0.00	-	-		0.71	0.71	0.00	0.71	0.00	0.00	Completed
10	Hiradharbati Extn.	Ganjam	TA	UA(TAC)	IX	1.32	0.93	0.39	1.32	0.00	-	-		0.59	0.59	0.00	0.59	0.00	0.00	Completed
11	Kanjhari Extn.	Keonjhar	TA	UA(TAC)	IX	7.54	7.41	0.13	7.54	0.00	-	-		1.60	1.60	0.00	1.60	0.00	0.00	Completed
-	Sunder Extn.	Nuapada	TA	UA(TAC)	IX	1.99	1.63	0.36	1.99	0.00	-	-		0.63	0.63	0.00	0.63	0.00	0.00	Completed
12	Salia Extn.	Khurda	--	UA(TAC)	IX	3.48	3.43	0.05	3.48	0.00	-	-		1.01	1.01	0.00	1.01	0.00	0.00	Completed
-	Dumerbahal Extn.	Nuapada	DPA	UA(TAC)	IX	3.58	2.80	0.78	3.58	0.00	-	-		0.77	0.00	0.77	0.77	0.00	0.00	Completed
-	Guneimuhan Creek	J.S.Pur	--	UA(TAC)	IX	1.01	0.20	0.81	1.01	0.00	-	-		1.80	0.00	1.80	1.80	0.00	0.00	Completed
-	Prachi Kundei Creek	Puri	--	UA(TAC)	IX	2.99	1.77	1.22	2.99	0.00	-	-		No Physical Benefit						Completed
-	Alaka Hansua Drain	Cuttack	--	UA(TAC)	IX	6.71	4.89	1.82	6.71	0.00	-	-		No Physical Benefit						Completed
-	Ramiala	Dhenkanal	DPA	UA(TAC)	IX	1.85	1.56	0.29	1.85	0.00	-	-		No Physical Benefit						Completed
-	Nagarighat Creek	J,S.Pur	--	UA(TAC)	IX	1.40	1.03	0.37	1.40	0.00	-	-		1.95	1.95	0.00	1.95	0.00	0.00	Completed
-	Imp. to Sason Canal	Sambalpur	TA	APP	X	42.33	0.00	42.33	42.33	0.00	-	-		Stabilisation of Existing						
-	Imp. to Salki Project	Boudh	DPA	APP	X	12.41	0.00	12.41	12.41	0.00	-	-		Stabilisation of Existing						
13	Poichandia Canal (Bahuda Extn.)	Ganjam	TA	UA(TAC)	X	4.23	0.00	4.23	4.23	0.00	-	-		0.74	0.00	0.74	0.74	0.00	0.00	Completed
14	Imp. to Road of Saradapur Kaniabadi Disty.	Khurda	--	UA(TAC)	X	1.01	0.00	1.01	1.01	0.00	-	-		No Physical Benefit						Completed
-	Baldiha Diversion weir	Mayurbhanj	TA	UA(TAC)	X	2.32	0.00	2.32	2.32	0.00	-	-		No Physical Benefit						Completed
-	Taladanda Canal Bridge	J.S.Pur	--	UA(TAC)	X	0.47	0.00	0.47	0.47	0.00	-	-		No Physical Benefit						Completed
	Sub-Total					688.15	445.48	242.67	688.15	0.00	0.00	0.00	0.00	23.75	14.74	9.01	23.75	0.00	0.00	
	TOTAL					2746.37	2208.27	538.10	2746.37	0.00	15.00	15.00	15.00	440.39	270.25	143.09	413.34	27.05	0.00	0.00
STATE - PUNJAB																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
C	ERM																			
1	Extension & Improvement of Shahnahar Canal(Kandi canal) upto Hoshiarpur	Hashirpur	--	APP	VI	131.860	122.050	0.04	122.09	9.77	42.51	42.51	9.77	25.360	23.510		23.51	1.85		
2	Raising of Bhakra Main Line for providing free board	Patiyala, Ropar	--	TAC (UA)	VII	26.990	14.050	10.33	24.38	2.61	2.61	0.50	0.50							
3	Punjab Irrgn. Project-Lining of Channels ph.II (W.B. assistance) -I 20.7.00	7 Districts#	--	APP	VIII	371.230	256.730	74.02	330.75	40.48	40.48	40.48	40.48	70.000	62.925		64.43	5.58		
4*	remodelling of Channels of UBDC system to meet the revised water allowance	Amritsar,Gurdaspur	--	APP	IX	177.800	80.410	93.09	173.50	4.30	4.30	0.00	4.30	118.000	93.910	24.09	118.00			
	Sub Total					707.880	473.240	177.480	650.720	57.160	89.900	83.490	55.050	213.360	180.345	24.090	205.935	7.425	0.000	
	Total					707.880	473.240	177.480	650.720	57.160	89.900	83.490	55.050	213.360	180.345	24.090	205.935	7.425	0.000	
State - RAJASTHAN																				
A	Major Projects																			
--	Som Kamla Amba (SP)	Dunga			Comp.	211.30	204.68	4.02	208.70	2.60	1.76	1.76	1.76	18.79	18.79	0.00	18.79	0.00		
--*	Grugaon Canal (SP)	Bharatpur			III	35.40	27.10	3.01	30.11	5.29	5.00	5.00	5.00	28.20	22.77		22.77	5.43	0.00	
--	L.O.T.C.. Works (SP)	Kota	--		III	7.84	5.38	0.82	6.20	1.64	1.30	1.30	1.64	0.00		0.00	0.00	0.00		
--	Adustment of BBMB(SP)	IS	--			13.04	13.00	0.04	13.04		0.00	0.00		0.00		0.00	0.00	0.00		
--	Bhakra Nangal Project (SP)	IS	--		I	1.84	0.00	1.84	1.84		0.00	0.00		0.00		0.00	0.00	0.00		
--	Sidhmukh Nohar Project	Hanumangarh	DDP		VIII	309.00	276.58	0.00	276.58	32.42	0.00	0.00	32.42	93.00	49.89	43.11	93.00			
--	RPS	Kota	--		Comp.	10.49	10.01	0.00	10.01	0.48	0.00	0.00	0.48	0.00		0.00	0.00			
	JSDam	Kota			Comp.	8.50	8.18	0.00	8.18	0.32	0.00	0.00	0.32	0.00		0.00	0.00			
	Okhala Barrage	IS				2.27	0.20	0.00	0.20	2.07	0.00	0.00	2.07	0.00		0.00	0.00			
	Others Major(Comp)													799.94	703.78	0.00	703.78	96.16		
	Modernisation Projects																			
	Others (Meja, Jaisamand & Gambh)					236.68	51.20	0.23	51.43	185.25			185.25	69.72	17.93		17.93	51.79		
1*	Mahi (AIBP)	Banswara	TA		IV	865.38	671.00	194.38	865.38	0.00	0.00	0.00		83.75	60.20	23.55	83.75	0.00	0.00	2006-07
--	Ratanpura Distry (NABARD/SP)	Hanumangarh	DDP	UA	IX	27.53	10.07	13.48	23.55	3.99	3.30	3.30	3.99	18.00	0.00	18.00	18.00	0.00	0.00	2006-07
2*	Bisalpur (NABARD)	Tonk	--	APP	IX	657.00	196.68	156.52	353.20	303.80	0.00	0.00	0.00	81.80	17.45	63.35	80.80	1.00		2006-07
	Sub total					2386.27	1474.07	374.34	1848.42	537.85	11.36	11.36	232.92	1193.20	890.81	148.01	1038.82	154.38	0.00	
B	Medium Projects																			
1*	Panchanna (SP)	Karauli			Comp.	125.00	84.00	39.31	123.31	1.69	1.39	1.39	1.39	10.60	6.88	3.72	10.6	0.00		2004-05

Projects Likely to be Completed in X Plan

Annex. 2.2
(14/15)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
2*	Chhapi (SP)	Jhalawar			Comp.	102.38	72.90	29.48	102.38	0.00	0.50	0.50	0.50	10.00	5.50	4.50	10	0.00		2004-05
3*	Chauli	Jhalawar			Comp.	98.55	43.17	55.43	98.60		0.03	0.03	0.03	9.10	0.00	9.02	9.02	0.08		2006-07
4	Bethali(NABARD)	Baran			Comp.	50.74	38.47	12.27	50.74		0.00	0.00	0.00	4.32	0.00	4.32	4.32	0.00		2004-05
--	Parwan Lift (SP)	Baran			Comp.	41.34	37.29	2.16	39.45	1.89	1.90	1.90	1.90	9.53	9.53	0.00	9.53	0.00		
--	Sawan Bhadon)SP)	Kota			Comp.	39.00	35.78	3.14	38.92	0.08	0.28	0.28	0.28	5.85	5.85		5.85	0.00		
--	Bilas (Completed Project) (SP)	Baran			Comp.	21.73	21.35	0.39	21.74		0.02	0.02		5.12	5.12		5.12	0.00		
--	Others (Meja, Wagan, Bassi etc.)				Comp.	133.60	130.45	0.00	130.45	3.15	0.00	0.00	0.00	500.00	385.61		385.61	114.39		
	Sub total					612.34	463.41	142.16	605.58	6.82	4.12	4.12	4.10	554.52	418.49	21.56	440.05	114.47	0.00	0.00
C	ERM Projects																			
1	IGNP -I	Hanumangarh	DDP	UA(TAC)	VIII															
--	Jakham (SP)	Udaipur			Comp.	107.38	106.01	1.37	107.38		2.50	2.50	0.00	23.50	23.50		23.50	0.00	0.00	
--	E.R.M. (SP)					215.00	14.59	10.21	24.80	190.20	150.00	150.00	190.20	0.00	0.00	0.00	0.00	0.00		
	SUB TOTAL(ERM)					322.38	120.60	11.58	132.18	190.20	152.50	152.50	190.20	23.50	23.50	0.00	23.50	0.00	0.00	
	Total					3320.99	2058.09	528.09	2586.17	734.87	167.98	167.98	427.23	1771.22	1332.80	169.57	1502.37	268.85	0.00	
STATE-TAMIL NADU																				
A	Major Projects																			
B	Medium Projects																			
C	ERM Projects																			
1*	WRCP	Whole State	--	APP	VIII	1531.88	863.9	48.23	912.13	619.75				9	9	0	9	0	0	
	Total					1531.88	863.9	48.23	912.13	619.75	0	0	0	9	9	0	9	0	0	
		Nil																		
State - UTTARANCHAL																				
	Total					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
State - UTTAR PRADESH																				
A	Major Projects																			
1*	Tehri Dam Project	Saharanpur,Muzzafarnagar	--	APP	IV	1200.96	736.75	444.21	1180.96	20	20	20	20							
		Baghpat,Gaziabad																		

Projects Likely to be Completed in X Plan

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
2*	Rajghat Canal	Lalitpur, Jhansi, Jalaun	DPA	APP	V	398.38	230.3	167.2	397.5	0.83	0.83	0.83	0.83	138.66	80.27	136.66	138.66			
		Hamirpur																		
3	Madhya Ganga Canal	Bulnshr, Aligarh, Agra,Etah, Manpuri	--	APP	V	1645.31			1645.31					178	162.68	15.32	178	0		
4*	Eastern Ganga	Bijnor	--	APP	V	579.00			579					105	51.29	53.71	105			
5*	Rajghat Dam	Lalitpur, Jhansi,	DPA	APP	V	150.00			150					0						
6*	Providing Kharif Channel in H K Doab	Meeerut, Muzaffarnagar	--	APP	AP 78-80															
7*	Jarauli Pump Canal	Saharanpur, Muzzaffarnagar	--	APP	AP 90-92	52.35			52.35					39.75		39.75	39.75			
B.	Medium Projects	Nil																		
C.	ERM Projects																			
1*	Upper Ganga Irr.Mod.Project			APP	VI	879.33	831.1	48.23	879.33	0.00				9.00	9.00		9			
2	Dev.of Irr.Management of sarada Canal System			UA(TAC)	AP-90-92	136.00	93.74	13.62	107.36	28.64			28.64							
3	Linning of channel in Bundel Khand &Bhagel Khand Areas			UA(TAC)	VI	97.00	7.5	0.66	8.16	88.84				24.48	6.42	18.06	24.48	0		
	Total of 1					5138.33	1899.39	673.92	4999.97	138.31	20.83	20.83	49.47	494.89	309.66	263.5	494.89	0	0	
State -WEST BENGAL																				
(A)	Major Projects	Nil																		
(B)	Medium Projects																			
1*	Hanumata	Purulia	DPA/TA	APP	VII	8.80	5.58	0.4513	6.0313	2.7687		2.76866	2.76866	6.249	3.66	2.589	6.249			
2*	Tatko	Purulia	DPA/TA	APP	V	12.57	7.7800	0.5768	8.3568	4.2132		4.2132	4.2132	3.4	1.60	1.80	3.40			
3*	Patloi	Purulia	DPA/TA	APP	V	10.80	5.52	0.8662	6.3862	4.4138		4.4138	4.4138	3.3218	0.1568	3.165	3.3218		12.00	
	Sub Total(Medium)					32.17	18.88	1.89	20.77	11.40	0.00	11.40	11.40	12.97	5.42	7.55	12.97	0.00	12.00	
(C)	ERM Projects	Nil																		
	Total					32.17	18.88	1.89	20.77	11.40	0.00	11.40	11.40	12.97	5.42	7.55	12.97	0.00	12.00	
	Grand Total					35899.93	21753.67	8245.26	32494.87	3405.06	1766.09	1768.58	2131.80	6616.81	4854.14	1239.65	6025.02	591.80	142.66	0.00

Annex. 2.3

State-wise break up of Spilled Over Projects in XI Plan				
	Major	**Medium**	**ERM**	**Total**
Andhra Pradesh	26	19	6	**51**
Arunachal Pradesh	0	0	0	**0**
Assam	2	2	2	**6**
Bihar	10	2	5	**17**
Chhattisgarh	4	7	1	**12**
Goa	0	0	0	**0**
Gujarat	3	15	11	**29**
Haryana	1	0	1	**2**
Himachal Pradesh	1	3	0	**4**
Jammu & Kashmir	0	6	4	**10**
Jharkhand	6	16	0	**22**
Karnataka	15	27	5	**47**
Kerala	3	4	2	**9**
Madhya Pradesh	18	8	5	**31**
Maharashtra	53	83	3	**139**
Manipur	2	1	4	**7**
Meghalya	0	1	0	**1**
Mizoram	0	0	0	**0**
Nagaland	0	1	0	**1**
Orissa	7	10	14	**31**
Punjab	1	0	2	**3**
Rajasthan	2	7	2	**11**
Sikkim	0	0	0	**0**
Tamilnadu	0	2	3	**5**
Tripura	0	3	0	**3**
Uttar Pradesh	9	0	13	**22**
Uttaranchal	1	0	0	**1**
West Bengal	2	5	6	**13**
TOTAL	**166**	**222**	**89**	**477**

Annex. 2.4

State-wise breakup of unapproved spilled over projects in XI Plan				
	Major	**Medium**	**ERM**	**Total**
Andhra Pradesh	17	10	5	**32**
Arunachal Pradesh	0	0	0	**0**
Assam	0	0	1	**1**
Bihar	4	1	3	**8**
Chhattisgarh	2	5	1	**8**
Goa	0	0	0	**0**
Gujarat	1	8	11	**20**
Haryana	1	0	1	**2**
Himachal Pradesh	0	0	0	**0**
Jammu & Kashmir	0	0	0	**0**
Jharkhand	5	4	0	**9**
Karnataka	10	22	4	**36**
Kerala	2	2	2	**6**
Madhya Pradesh	6	4	5	**15**
Maharashtra	35	68	3	**106**
Manipur	0	0	4	**4**
Meghalya	0	0	0	**0**
Mizoram	0	0	0	**0**
Nagaland	0	1	0	**1**
Orissa	0	4	13	**17**
Punjab	0	0	1	**1**
Rajasthan	0	5	1	**6**
Sikkim	0	0	0	**0**
Tamilnadu	0	2	3	**5**
Tripura	0	0	0	**0**
Uttar Pradesh	7	0	10	**17**
Uttaranchal	0	0	0	**0**
West Bengal	0	0	6	**6**
TOTAL	**90**	**136**	**74**	**300**

Annexure 2.5

STATE-WISE STATUS OF COMPLETED AND ONGOING AIBP PROJECTS

Sl. No.	State	Major & Medium			Minor Irrigation Schemes			Pot created upto 3/2006 (Th ha)	Amount released (Rs crore)
		Completed Plan - VIII / IX / X	Likely to be completed in X Plan	Ongoing	Completed	Ongoing	Total		
1	2	3	4	5	6	7	8	9	10
1	**Andhra Pradesh**	4	3	11	0	0	0	233.357	1268.260
2	**Arunachal Pradesh**	0		0	1478	27	1505	32.338	79.500
3	**Assam**	2	3	5	52	88	140	169.949	172.057
4	**Bihar**	3		4	0	0	0	311.067	482.303
5	**Chhattisgarh**	2	1	3	0	0	0	126.819	275.870
6	**Goa**	1		1	0	0	0	9.494	131.050
7	**Gujarat**	10	2	3	0	0	0	382.223	4492.522
8	**Haryana**	2	1	0	0	0	0	105.133	87.370
9	**Himachal Pradesh**	0		3	43	104	147	7.180	100.417
10	**J&K**	4		7	1	81	82	119.336	133.486
11	**Jharkhand**	2	1	6	0	0	0	12.120	89.235
12	**Karnataka**	1		6	0	0	0	343.952	2491.289
13	**Kerala**	1		1	0	0	0	34.844	147.889
14	**Madhya Pradesh**	3	1	9	0	0	0	103.840	2189.801
15	**Maharashtra**	12	5	14	0	0	0	327.858	1300.052
16	**Manipur**	0		3	226	210	436	10.500	197.454
17	**Meghalaya**	0		1	39	7	46	3.636	18.583
18	**Mizoram**	0		0	51	26	77	3.682	29.231
19	**Nagaland**	0		0	720	0	720	22.310	35.388
20	**Orissa**	4	3	11	11	11	22	107.349	1073.847
21	**Punjab**	1	1	2	0	0	0	100.990	441.787
22	**Rajasthan**	5	2	3	0	0	0	340.022	1583.593
23	**Sikkim**	0		0	291	79	370	2.433	6.921
24	**Tripura**	0		3	859	219	1078	36.756	152.214
25	**Tamil Nadu**	0	1	0	0	0	0	0.000	20.000
26	**U.P.**	5	5	4	0	0	0	881.867	2097.423
27	**Uttaranchal**	0		1	418	521	939		
28	**West Bengal**	1	**3**	3	0	0	0	181.078	170.200
	Total	**63**	**32**	**104**	**4189**	**1373**	**5562**	**4010.133**	**19437.888**

@ Kollonga (Assam) shifted to minor project

State-wise Likely Physical Achievement under MI Sector in X Plan

Sl. No.	State/UT	Ultimate Irrigation Potential	Achievement upto IX Plan		Anticipated achievement in X Plan		Likely cu achievement
			Potential Created	Potential Utilized	Potential Created	Potential Utilized	Potential Created
1	2	3	4	5	6	7	8
1	Andhra Pradesh	6260.00	3019.46	2781.22	102.52	86.35	3121.98
2	Arunachal Pradesh	168.00	99.52	77.40	18.36	14.69	117.88
3	Assam	1900.00	603.62	494.11	31.86	25.49	635.48
4	Bihar	5663.50	4716.44	3759.46	42.34	33.87	4758.78
5	Chattisgarh	571.00	588.87	471.09	104.06	83.25	692.93
6	Goa	54.00	22.20	19.14	2.31	1.85	24.51
7	Gujarat	3103.00	1998.92	1876.14	24.50	19.60	2023.42
8	Haryana	1512.00	1630.95	1578.12	6.72	5.38	1637.67
9	Himachal Pradesh	303.00	161.00	138.30	10.09	8.07	171.09
10	Jharkhand	1183.50	382.45	366.77	71.44	57.15	453.89
11	Jammu Kashmir	1108.00	1585.04	1541.74	6.30	4.86	1591.34
12	Karnataka	3474.00	640.02	603.76	39.84	31.87	679.86
13	Kerala	1679.00	2256.13	2149.48	42.00	33.60	2298.13
14	Madhya Pradesh	11361.00	487.70	322.86	112.92	90.34	600.62
15	Maharastra	4852.00	2942.60	2557.72	363.00	290.40	3305.60
16	Manipur	469.00	75.49	62.34	18.70	14.96	94.19
17	Meghayala	148.00	50.97	47.31	10.79	8.63	61.76
18	Mizoram	70.00	16.69	14.08	1.39	1.15	18.08
19	Nagaland	75.00	76.56	65.63	16.61	13.29	93.17
20	Orissa	5203.00	1474.12	1337.55	162.58	130.06	1636.70
21	Punjab	2967.00	3427.56	3367.82	2.52	0.38	3430.08
22	Rajasthan	2378.00	2447.10	2361.80	20.80	16.64	2467.90
23	Sikkim	50.00	29.67	23.61	3.76	3.01	33.43
24	TamilNadu	4032.00	2123.38	2119.52	11.10	8.88	2134.48
25	Tripura	181.00	109.65	96.09	30.33	24.26	139.98
26	UttraPradesh	17481.00	21599.40	17279.62	1977.03	1581.62	23576.43
27	Uttranchal	518.00	500.98	400.80	15.56	12.44	516.54
28	West Bengal	4618.00	3792.52	3098.12	261.13	208.90	4053.65
	Total(States)	**81382.00**	**56859.01**	**49011.60**	**3510.56**	**2811.00**	**60369.57**
29	A&N Islands		1.38	1.35	0.72	0.58	2.10
30	Chandigarh		0.26	0.24	0.04	0.03	0.30
31	D&N Haveli		0.69	0.65	0.68	0.54	1.37
32	Daman&Diu		15.37	10.29	2.39	1.91	17.76
33	Delhi		21.64	18.52	0.00	0.00	21.64
34	Lakshadweep		0.00	0.00	0.00	0.00	0.00
35	Pondicherry		4.37	4.36	3.36	2.69	7.73
	Total(UT"s)	**46.00**	**43.71**	**35.41**	7.19	5.75	50.90
	Total(States&UT's)	**81428.00**	**56902.72**	**49047.01**	**3517.75**	**2816.75**	**60420.47**

NF: Not Furnished

In Mid term Appraisal of Tenth Plan, the X Plan target has been scaled downn to 4.0 m.ha. The breakdown of which is yet to be finalised

umulative t up to X Plan
Potential Utilized
9
2867.57
92.09
519.60
3793.33
554.34
20.99
1895.74
1583.50
146.37
423.92
1546.60
635.63
2183.08
413.20
2848.12
77.30
55.94
15.23
78.92
1467.61
3368.20
2378.44
26.62
2128.40
120.35
18861.24
413.24
3307.02
51822.60
1.93
0.27
1.19
12.20
18.52
0.00
7.05
41.16
51863.76

State-wise Physical and Financial Progress und CAD&WM Programme in X Plan

Expenditure in Rs.Crore/Area in th.ha.

Sl. No.	Name of the State	Construction of Field Channels		Construction of Field Drains		Implementation of Warabandi		Land Levelling and shaping	Release of Central Assistance under CAD		State Sector Expenditure under the CAD	
		In X Plan	Upto X Plan	In X Plan	Upto X Plan	In X Plan	Upto X Plan	Upto March 2004	In X Plan	Upto X Plan	In X Plan	Upto X Plan
1	Andhra Pradesh	35.58	715.82	0.00	9.07	37.57	472.39	369.65	0.00	92.98	38.60	274.81
2	Arunachal Pradesh	10.78	11.80	7.70	8.43	4.73	4.73	0.05	5.49	5.98	11.16	17.76
3	Assam	0.61	56.69	0.34	22.11	0.11	79.45	0.01	0.00	20.66	47.99	109.05
4	Bihar	10.04	1307.30	0.08	0.08	0.88	90.22	1.29	6.30	118.49	48.22	212.97
5	Chattisgarh	61.25	62.72	0.00	0.00	0.00	0.63	0.00	9.20	9.67	73.42	74.99
6	G o a	0.00	10.38	0.00	0.01	0.00	20.14	0.81	0.00	9.18	16.27	40.28
7	Gujarat	64.35	954.22	10.13	13.04	0.00	695.18	177.18	82.20	191.49	19.05	200.40
8	Haryana	162.18	591.56	27.92	27.92	0.00	298.26	37.30	91.42	235.93	182.76	452.51
9	Himachal	6.39	22.04	4.28	6.58	5.47	22.02	0.00	4.02	11.82	11.91	21.85
10	Jammu &	18.02	95.93	12.72	26.18	10.86	349.52	40.70	17.52	46.42	46.77	93.00
11	Jharkhand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	6.00
12	Karnataka	357.72	1473.93	24.58	62.40	13.74	323.75	802.82	128.81	311.91	140.92	451.85
13	Kerala	8.70	182.83	38.17	133.88	2.93	150.35	1.44	4.67	99.90	39.36	157.53
14	Madhya	40.46	1071.69	0.00	37.76	0.00	417.79	44.16	12.58	100.76	21.59	346.70
15	Maharashtra	30.80	1254.72	41.59	434.12	0.00	482.93	585.96	5.46	258.73	104.24	1087.90
16	Manipur	12.48	63.11	1.98	14.62	4.95	25.66	9.97	7.06	19.80	26.66	43.13
17	Meghalaya	3.98	5.11	0.00	0.00	3.30	6.60	1.20	0.44	1.18	1.09	4.69
18	Mizoram	0.57	0.69	0.56	0.65	0.18	0.20	0.13	0.60	0.72	0.70	1.17
19	Nagaland	2.75	4.71	3.95	11.79	1.71	3.87	0.00	2.69	4.34	3.86	4.55
20	Orissa	41.17	437.59	19.97	134.33	57.39	632.47	16.38	15.75	91.69	20.38	96.95
21	Punjab	105.99	328.70	0.00	0.00	0.42	8.75	0.00	45.59	105.45	120.29	343.60
22	Rajasthan	248.51	1425.73	8.38	43.40	0.00	661.61	121.17	124.56	555.73	257.41	1092.45
23	Sikkim	0.09	0.18	0.07	0.14	0.08	0.16	0.00	0.01	0.07	4.74	4.85
24	Tamil Nadu	181.23	1032.05	142.50	171.89	290.34	971.08	13.59	86.16	265.31	81.96	276.29
25	Tripura	0.03	0.35	0.00	0.10	0.00	0.20	0.00	0.08	0.20	1.30	1.93
26	Uttar Pradesh	613.61	6549.62	239.15	549.87	617.51	5514.43	8.48	164.83	657.71	222.77	767.55
27	Uttaranchal	6.02	6.02	0.00	0.00	0.40	0.40	0.00	3.84	3.84	7.95	7.95
28	West Bengal	20.45	132.91	0.00	0.00	0.00	0.24	3.10	6.86	38.60	33.08	83.66
	TOTAL	2043.75	17798.39	584.08	1708.39	1052.55	11233.00	2235.38	826.15	3258.55	1591.57**	6281.36**
	TOTAL	2.043751	17.79839	0.584081	1.708386	1.052546	11.233	2.235383	826.15	3258.55	1591.57**	6281.36**

**Total figure includes 107 lakh for Dadar Nagar Haveli and 5.00 lakh for Daman Diu in anticipated figure for X Plan

and 451 lakh for Dadar Nagar Haveli and 48 lakh for Daman Diu in anticipated till end of X Plan

Annex 2.8

State-wise Expenditure on Flood Management Works in X Plan

(Rs.Crore)

Sl. No.	Name of States / U.T's	Exp. Upto Mar-02	Appvd. Outlays for X plan(02-07)	2002-03 Outlay		2003-04 Outlay		2004-05 Outlay		2005-06 Outlay		2006-07 Outlay		Anti.Expd. during 10th plan	Anti.Expd. upto 10th plan
				Revised Outlays	Actual Expd.	Revised Apprv.	Actual Expd.	Revised Apprv.	Actual Expd.	Appvd. Outlays	Ant. Expd.	Appvd./Prop. Outlays	Ant. Expd.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Andhra Pradesh	676.91	17.73	43.70	173.38	26.98	10.02	75.75	50.74	100.00	59.65	63.25	63.25	357.04	1033.95
2	Arunachal Pradesh	47.72	5.00	6.75	23.75	13.75	31.35	3.75	9.85	8.23	6.90	44.45	44.45	116.30	164.02
3	Assam	322.19	19.00	3.41	21.41	33.70	12.75	35.13	35.13	28.00	28.00	30.80	113.40	210.69	532.88
4	Bihar	1044.57	1911.85	92.00	81.02	63.00	61.64	105.00	89.73	98.27	98.27	126.91	126.91	457.57	1502.14
5	Chattisgarh	0.09	1.88	0.30	0.30	0.00	0.00	0.40	0.40	0.25	0.25	0.28	0.28	1.23	1.32
6	Delhi	289.71	146.00	21.00	21.00	20.30	20.30	19.03	19.03	0.00	0.00	0.00	0.00	60.33	350.04
7	Goa	11.99	8.00	1.76	1.76	4.97	4.97	4.96	4.96	11.96	11.96	13.16	13.16	36.81	48.80
8	Gujarat	70.21	16.60	3.02	1.72	3.02	83.25	2.66	1.72	1.10	1.10	1.10	1.10	88.89	159.10
9	Haryana	390.51	154.28	25.00	46.19	46.00	44.87	45.00	45.00	48.00	48.00	50.00	50.00	234.06	624.57
10	Himachal Pradesh	51.64	55.66	13.40	13.41	13.04	15.71	12.74	14.12	14.40	14.40	18.31	18.31	75.95	127.59
11	Jammu & Kashmir	244.66	193.10	10.00	29.94	25.05	25.05	28.83	28.83	32.65	32.65	35.92	35.92	152.39	397.05
12	Jharkhand	0.00	30.00	29.94	0.88	2.00	0.33	1.50	1.89	2.75	1.82	6.78	6.78	11.70	11.70
13	Karnataka	109.35	42.83	6.20	6.20	6.00	6.00	5.50	5.50	7.80	7.80	8.58	8.58	34.08	143.43
14	Kerala	305.75	50.00	6.00	6.00	7.30	7.30	6.45	6.45	5.74	5.74	6.31	6.31	31.80	337.55
15	Madhya Pradesh	18.92	12.00	2.61	2.61	1.20	1.20	8.10	8.10	1.45	1.45	1.60	1.60	14.96	33.88
16	Maharashtra	115.85	5.00	1.43	4.70	3.17	0.81	7.27	7.27	1.29	1.29	1.42	1.42	15.49	131.34
17	Manipur	81.76	23.85	6.70	6.70	11.20	11.20	10.20	10.20	8.50	8.50	9.35	9.35	45.95	127.71
18	Meghalaya	22.51	11.00	1.20	1.20	1.62	1.62	1.45	1.45	3.42	3.42	3.76	3.76	11.45	33.96
19	Mizoram	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11
20	Nagaland	1.40	2.00	3.10	3.00	4.03	6.18	7.54	7.11	0.05	1.20	6.77	6.77	24.26	25.66
21	Orissa	160.20	130.00	2.77	6.13	7.41	2.57	4.75	3.27	1.01	1.25	2.50	2.50	15.72	175.92
22	Punjab	703.35	593.95	89.07	89.07	30.13	30.13	27.31	27.31	33.00	33.00	36.30	36.30	215.81	919.16
23	Rajasthan	132.71	19.35	3.95	3.87	4.02	4.02	10.04	9.86	10.15	7.26	10.00	10.00	35.01	167.72
24	Sikkim	11.61	1.00	0.05	0.05	0.05	0.05	4.00	4.00	3.00	3.00	3.30	3.30	10.40	22.01
25	Tamilnadu	34.70				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.70
26	Tripura	56.94	96.57	4.05	4.19	7.36	6.95	6.66	3.00	6.10	6.80	9.36	9.36	30.30	87.24
27	Uttar Pradesh	495.00	247.50	38.62	39.74	58.86	50.09	130.00	154.27	331.00	298.00	340.50	340.50	882.60	1377.60
28	Uttaranchal	3.52	15.39	3.70	3.70	0.00	0.00	6.50	6.50	20.14	20.14	22.15	22.15	52.49	56.01
29	West Bengal	1220.57	712.27	188.77	90.61	84.49	67.89	79.32	69.34	129.13	102.00	152.06	152.26	482.10	1702.67
	UT's														
30	A. & N. Islands	2.52	0.00	0.00	0.00	4.23	4.23	3.00	3.00	6.25	6.25	6.88	6.88	20.36	22.88
31	Chandigarh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	Dadra & Nagar Have	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	Daman & Diu	3.21	1.30	0.22	0.22	0.27	0.27	0.22	0.22	0.36	0.36	0.40	0.40	1.47	4.68
34	Lakshadweep	31.21	17.34	3.00	3.00	3.15	3.15	3.50	3.50	3.80	3.80	4.18	4.18	17.63	48.84
35	Pondicherry	44.23	21.80	12.47	12.47	9.28	9.28	12.51	12.51	15.68	15.68	17.25	17.25	67.19	111.42
Total (State Sector)		**6706.62**	**4562.25**	**624.19**	**698.22**	**495.58**	**523.18**	**669.07**	**644.26**	**933.48**	**829.94**	**1033.63**	**1116.43**	**3812.03**	**10518.65**
	Cntral Sector	3229.95	1403.32		86.42		95.79		99.78		181.21		193.94	657.14	3887.09
Grand Total		9936.57	5965.57	624.19	784.64	495.58	618.97	669.07	744.04	933.48	1011.15	1033.63	1310.37	4469.17	14405.74

Annex – 2.9

STATEMENT OF DAMAGES DUE TO FLOODS/HEAVY RAINS DURING 1953-2005

Sl. No.	Year	Area affected in m.ha.	Population affected in million	Damage to Crops		Damage to Houses		Cattle lost Nos.	Human live lost Nos.	Damage to public utilities in Rs.Crore	Total damages Crops, Houses & Public utilities in Rs.Crores (col.6+8+11)
				Area in m. ha.	Value in Rs.Crore	Nos.	Value in Rs.Crore				
1	2	3	4	5	6	7	8	9	10	11	12
1	1953	2.29	24.28	0.93	42.08	264924	7.42	47034	37	2.9	52.4
2	1954	7.49	12.92	2.61	40.52	199984	6.561	22552	279	10.15	57.231
3	1955	9.44	25.27	5.31	77.8	1666789	20.945	72010	865	3.98	102.725
4	1956	9.24	14.57	1.11	44.44	725776	8.047	16108	462	1.14	53.627
5	1957	4.86	6.76	0.45	14.12	318149	4.979	7433	352	4.27	23.369
6	1958	6.26	10.98	1.4	38.28	382251	3.896	18439	389	1.79	43.966
7	1959	5.77	14.52	1.54	56.76	648821	9.418	72691	619	20.02	86.198
8	1960	7.53	8.35	2.27	42.55	609884	14.309	13908	510	6.31	63.169
9	1961	6.56	9.26	1.97	24.04	533465	0.889	15916	1374	6.44	31.369
10	1962	6.12	15.46	3.39	83.18	513785	10.655	37633	348	1.05	94.885
11	1963	3.49	10.93	2.05	30.17	420554	3.701	4572	432	2.74	36.611
12	1964	4.9	13.78	2.49	56.87	255558	4.588	4956	690	5.149	66.607
13	1965	1.46	3.61	0.27	5.87	112957	0.195	7286	79	1.07	7.135
14	1966	4.74	14.4	2.16	80.15	217269	2.544	9071	180	5.736	88.43
15	1967	7.12	20.46	3.27	133.31	567995	14.264	5827	355	7.857	155.431
16	1968	7.15	21.17	2.62	144.61	682704	41.112	130305	3497	25.373	211.095
17	1969	6.2	33.22	2.91	281.9	1268660	54.423	270328	1408	68.112	404.435
18	1970	8.46	31.83	4.91	162.78	1434030	48.606	19198	1076	76.441	287.827
19	1971	13.25	59.74	6.24	423.13	2428031	80.241	12866	994	129.113	632.484
20	1972	4.1	26.69	2.45	98.56	897301	12.46	58231	544	47.174	158.194
21	1973	11.79	64.08	3.73	428.03	869797	52.482	261016	1349	88.489	569.001
22	1974	6.7	29.45	3.33	411.64	746709	72.434	16846	387	84.942	569.016
23	1975	6.17	31.36	3.85	271.49	803705	34.097	17345	686	166.05	471.637
24	1976	11.91	50.46	6.04	595.03	1745501	92.16	80062	1373	201.495	888.685
25	1977	11.46	49.43	6.84	720.61	1661625	152.29	556326	11316	328.948	1201.848
26	1978	17.5	70.45	9.96	911.09	3507542	167.574	239174	3396	376.1	1454.764
27	1979	3.99	19.52	2.17	169.97	1328712	210.606	618248	3637	233.627	614.203
28	1980	11.46	54.12	5.55	366.37	2533142	170.851	59173	1913	303.283	840.504
29	1981	6.12	32.49	3.27	524.56	912557	159.63	82248	1376	512.314	1196.504
30	1982	8.87	56.01	5	589.4	2397365	383.869	246750	1573	671.607	1644.876
31	1983	9.02	61.03	3.29	1285.85	2393722	332.327	153095	2378	873.429	2491.606
32	1984	10.71	54.55	5.19	906.09	1763603	181.308	141314	1661	818.164	1905.562
33	1985	8.38	59.59	4.65	1425.37	2449878	583.855	43008	1804	2050.043	4059.268
34	1986	8.81	55.5	4.58	1231.58	2049277	534.41	60450	1200	1982.535	3748.525
35	1987	8.89	48.34	4.94	1154.64	2919380	464.49	128638	1835	950.59	2569.72
36	1988	16.29	59.55	10.15	2510.9	2276533	741.6	150996	4252	1377.8	4630.3
37	1989	8.06	34.15	3.01	956.74	782340	149.82	75176	1718	1298.77	2405.33
38	1990	9.303	40.259	3.179	695.61	1019930	213.733	134154	1855	455.266	1708.92
39	1991	6.357	33.889	2.698	579.015	1134410	180.421	41090	1187	728.893	1488.329
40	1992	2.645	19.256	1.748	1027.578	687489	306.284	78669	1533	2010.67	3344.532
41	1993	11.439	30.409	3.206	1308.627	1926049	528.324	211193	2864	1445.534	3282.485
42	1994	4.805	27.548	3.963	888.622	914664	165.206	52315	2078	740.762	1794.59
43	1995	5.245	35.932	3.245	1714.787	2001898	1307.894	62438	1814	679.627	3702.308
44	1996	8.049	44.729	3.827	1124.491	726799	176.589	73208	1803	861.393	3005.743
45	1997	4.569	29.663	2.258	692.743	505128	152.504	27754	1402	1985.934	2831.181
46	1998	10.845	47.435	7.495	2594.167	1932874	1108.783	107098	2889	5157.771	8860.721
47	1999	7.765	27.993	1.753	1850.873	1613260	1299.057	91289	745	462.83	3612.76
48	2000	5.382	45.013	3.58	4246.622	2628855	680.943	123252	2606	3936.979	8864.544
49	2001	6.175	26.463	3.964	688.481	716187	816.474	32704	1444	5604.461	7109.416
50	2002	7.09	26.323	2.194	913.092	762492	599.368	21533	1001	1062.083	2574.543
51	**2003 ***	6.503	34.466	3.426	1424.826	846920	802.929	16425	1864	2206.599	4434.354
52	**2004***	8.031	34.215	2.693	615.07	1492814	852.655	63869	1275	1868.866	3336.591
53	**2005***	3.376	29.684	2.24	958.266	349624	316.954	113226	1503	1546.935	2822.155
	TOTAL	**400.14**	**1741.56**	**187.37**	**37663.35**	**64549668**	**14341.17**	**5026446**	**84207**	**43499.6**	**96691.71**
	AVG	**7.55**	**32.86**	**3.54**	**710.63**	**1217918**	**270.59**	**94839**	**1589**	**820.75**	**1805.18**
	MAX	**17.5**	**70.45**	**10.15**	**4246.62**	**3507542**	**1307.89**	**618248**	**11316**	**5604.46**	**8864.54**
	(YEAR)	1978	1978	1988	2000	1978	1995	1979	1977	2001	2000

*** Figures are tentative**

Annex-2.10

State-wise Achievement in Flood Protection Works (till March 2006)

S.No.	Name of States /UTs	Area Benefited	Length of embankments	Length of drainage channel	Village raised/ protected	Town/ village protection works	Raised Platforms
		Mha	Km	Km	(Nos)	(Nos)	(Nos)
1	2	3	4	5	6	7	
1	Andhra Pradesh	1.311	2230	13569	23	72	
2	Arunachal Pradesh	0.055	6.324	4.447	17	0	
3	Assam	1.642	4464.18	850.69	0	694	
4	Bihar	2.949	3430	365	0	47	58
5	Chattisgarh	0	0	0	0	0	
6	Delhi	0.078	83	453	0	0	
7	Goa	0.003	23.19	32.77	0	2	
8	Gujarat	0.483	104.12	271	30	805	
9	Haryana	2	1144	4385	98	448	
10	Himachal Pradesh	0.012	58	11	0	0	
11	Jammu & Kashmir	0.217	230	14	5	12	
12	Jharkhand	0.001	14	0	5	2	
13	Karnataka	0.005	73.515	10	0	30	
14	Kerala	0.346	205.744	31.1	6	4	
15	Madhya Pradesh	0.004	26	0	0	37	
16	Maharashtra	0.001	44.5	110	0	0	
17	Manipur	0.132	577	166	1	38	
18	Meghalaya	0.001	112	0	2	8	
19	Mizoram	0	0	0	0	0	
20	Nagaland	0.632	10.519	0	0	8	
21	Orissa	0.63	6541	131	14	29	
22	Punjab	3.19	1370	6622	0	3	
23	Rajasthan	0.082	145	197	0	25	
24	Sikkim	0.017	101.81	64.86	0	18	
25	Tamil Nadu	0.122	87	19	4	46	
26	Tripura	0.033	141.74	95.23	0	11	
27	Uttar Pradesh	1.703	2097	3995	4511	65	
28	Uttaranchal	0.002	9	0	0	6	
29	West Bengal	2.568	10539	7392.76	0	48	
	Union Territories				0		
30	A & N Islands	0	0	0	0	0	
31	Chandigarh	0	0	0	0	0	
32	Dadra & Nagar Haveli	0	0	0	0	0	
33	Daman & Diu	0		0	0	0	
34	Lakshadweep	0	0	0	0	0	
35	Pondicherry	0.004	61	20	0	0	
	Total	**18.222**	**33928.642**	**38809.857**	**4716**	**2458**	**58**

State-wise breakup of Pre VII and VII Plan Projects				
	Major	**Medium**	**ERM**	**Total**
Andhra Pradesh	4	3	2	**9**
Arunachal Pradesh	0	0	0	**0**
Assam	2	2	0	**4**
Bihar	9	1	1	**11**
Chhattisgarh	3	1	0	**4**
Goa	0	0	0	**0**
Gujarat	2	0	2	**4**
Haryana	1	0	1	**2**
Himachal Pradesh	0	0	0	**0**
Jammu & Kashmir	0	6	4	**10**
Jharkhand	5	12	0	**17**
Karnataka	10	8	4	**22**
Kerala	2	2	0	**4**
Madhya Pradesh	13	2	3	**18**
Maharashtra	27	19	3	**49**
Manipur	2	0	0	**2**
Meghalya	0	0	0	**0**
Mizoram	0	0	0	**0**
Nagaland	0	0	0	**0**
Orissa	1	2	0	**3**
Punjab	0	0	0	**0**
Rajasthan	1	0	0	**1**
Sikkim	0	0	0	**0**
Tamilnadu	0	0	0	**0**
Tripura	0	3	0	**3**
Uttar Pradesh	3	0	2	**5**
Uttaranchal	1	0	0	**1**
West Bengal	1	5	3	**9**
TOTAL	**87**	**66**	**25**	**178**

(Rs.Crore/Th.ha)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
STATE: ANDHRA PRADESH																				
A	MAJOR PROJECTS											0	0			0	0	0	0	
1	SRBC	KNL.,KDP	DPA	APP	VI	2484	1003.05	412.31	1415.36	1068.64	1068.64	1068.64	748.048	76.89		76.891	76.891	-0.001	0	2008-09
2*	Somasila	NLR	DPA	APP	V	734	296.53	334.97	631.5	102.5	102.5	102.5	71.75	38.484	10.68	27.804	38.484	0	0	2007-08
3	Telugu Ganga	KNL,KDP, NLR.CTR	DPA	UA	VI	3505	1588.54	1161.27	2749.81	755.19	755.19	755.19	528.633	232.7	23.03	93.28	116.31	116.39	116.39	2008-09
4	SLBC (AMRP)	NLG	DPA	UA	VI	1260	484.44	722.73	1207.17	52.83	52.83	26.415	36.981	109		49.75	49.75	59.25	59.25	2008-09
	SUB TOTAL (MAJOR)					7983	3372.56	2631.28	6003.84	1979.16	1979.16	1952.745	1385.412	457.074	33.71	247.725	281.435	175.639	175.64	
B	MEDIUM PROJECTS																			
1*	Kanupur canal Stage-I	NLR	DPA	APP	III	32	19.54	2.32	21.86	10.14	10.14	10.14	7.098	7.64	7.07	0	7.07	0.57	0.57	2008-09
2*	Gundlavagu	KMM	DPA/TA	APP	V	21.58	14.95	6.35	21.3	0.28	0.28	0.28	0.196	1.05		0	0	1.05	1.05	2007-08
3	Jhanjhavathi	VZNM	--	UA	V	124	26.07	71.63	97.7	26.3	26.3	26.3	26.3	9.97		3.64	3.64	6.33	6.33	2007-08
	SUB TOTAL(MEDIUM)					177.58	60.56	80.3	140.86	36.72	36.72	36.72	33.594	18.66	7.07	3.64	10.71	7.95	7.95	
C	ERM PROJECTS																			
1	TBP HLC Stage-II	KNL,ATP, KDP	DPA	APP	IV	618.5	214.88	262.44	477.32	141.18	141.18	141.18	141.18	89.61	47.23	0	47.23	42.38	42.38	2008-09
2	Improvements to Nizamsagar (Stab.)	NZB	--	UA	V	83.65	42.78	25.26	68.04	15.61	15.61	15.61	15.61			0	0	0	0	2007-08
	SUBTOTAL (ERM)					702.15	257.66	287.7	545.36	156.79	156.79	156.79	156.79	89.61	47.23	0	47.23	42.38	42.38	
	TOTAL					8862.73	3690.78	2999.28	6690.06	2172.67	2172.67	2146.255	1575.796	565.344	88.01	251.365	339.375	225.969	225.97	
	KMM - Khammam, WGL - Warangal, NLG - Nalgonda, ADB - Adilabad, NZB - Nizamabad, KRMR- Karimnagar, KNL- Kurnool, KDP-Kadapa, WG - West Godavari, EG - East Godavari, KRN-Krishna,GTR-Guntur,																			
	PKSM-Prakasham, SKLM-Srikakulam, NLR-Nellore, MDK-Medak, CTR-Chit																			
STATE: ASSAM																				
A	Major Projects							NIL												
1*	Dhansiri Irrigation Project	Darang	TA	APP	V	401.24	163.29	18.60	181.91	219.35	219.35	268.77	153.545	83.36	26.00	3.00	29.00	54.36	54.36	2008-09
2*	Champamati Irrigation Project	Kokrajhar	TA	APP	VI	147.24	57.03	13.51	70.54	76.70	76.70	80.59	53.69	24.99	1.45	1.25	2.70	22.30	22.30	2008-09
	Sub-total (Major)					548.48	220.32	32.11	252.45	296.05	296.05	349.36	207.235	108.35	27.45	4.246	31.696	76.658	76.658	
B	Medium Projects																			
1*	Burihehing Irrigation Proj.	Sibrugarh	TA	APP	AP-1978-80	27.87	15.47	1.16	16.63	11.24	11.24	8.54	7.868	5.05	1.69	1.02	2.71	2.34	2.12	2009 -10
2*	Borolia Irrigation Project	Nalbari	TA	APP	AP-1978-80	84.97	44	22.19	66.19	18.78	18.78	28.76	13.146	13.56	1.25	0.5	1.75	11.81	5.262	2009 -10
	Sub-total (Medium)					112.84	59.47	23.35	82.82	30.02	30.02	37.3	21.014	18.61	2.94	1.52	4.46	14.15	7.382	
C	ERM Projects																			
	Sub-total (ERM)					0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Total					661.32	279.79	55.46	335.27	326.07	326.07	386.66	228.249	126.96	30.39	5.766	36.156	90.808	84.04	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
STATE: BIHAR																				
A	Major Projects																			
1	Tilaiya Diversion Scheme	Gaya, Nawada	DPA	(TAC)UA	V	301.79	59.25	34.88	94.13	207.66	290.724	290.724	103.83	31.7	0.00	8.00	8.00	23.70	23.70	2007-08
2	North Koel Reservoir Scheme	Gaya, Aurangabad	--	(TAC)UA	V	1118.00	549.15	77.89	627.04	490.96	687.34	687.34	392.77	107.8	46.00	21.50	67.50	40.30	40.30	2009-10
3	Jamania Pump Canal Scheme	Kaimur	--	UA	V	94.87	40.14	32.41	72.55	22.32	37.944	37.944	22.32	34.3	4.23	16.00	20.23	*14.07*	14.07	2007-08
4*	Western Kosi Canal Scheme	Madhubani,Darbhanga	DPA	APP	III	904.01	487.86	344.32	832.18	71.83	96.97	96.97	50.28	234.80	24.48	61.50	85.98	148.82	148.82	2009 -10
5	Barnar Reservoir Scheme	Jamui	DPA	APP	V	216.22	62.13	17.92	80.05	136.17	190.638	190.638	68.085	25.4	0.00	0.00	0.00	25.40	25.40	2009-10
6*	Durgawati Reservoir Scheme	Rohtas, Kaimur Bhagalpur	DPA	APP	V	361.69	184.01	175.99	360	1.69	1.94	1.94	1.183	17.45	0.00	0.00	0.00	17.45	17.45	2007- 08
7	Bateshwarsthan Ganga Pump Canal Scheme		--	APP	V	188.02	41.51	22.58	64.09	123.93	148.716	148.716	61.965	25.65	0.00	0.00	0.00	25.65	25.65	2009-10
8	Kosi phase-II		--	UA	VII	293.84	0.00	0.00	0.00	293.84	293.84	293.84	146.92	73.00	0.00	0.00	0.00	73.00	73.00	2011-12
9	Gandak phase-II	Siwan,Gopalgang,Saran	--	APP	VII	1972.40	0.00	0.00	0.00	1972.40	1972.40	1972.40	986.20	228.50	0.00	0.00	0.00	228.50	228.50	2011-12
	SubTotal (Major)					5450.84	1424.05	705.99	2130.04	3320.80	3720.51	3720.51	1833.55	778.60	74.71	107.00	181.71	596.89	596.89	
B	Medium Projects																			
1*	Batane Reservoir Scheme	Aurangabad	--	APP	V	57.00	40.46	13.86	54.32	2.68	4.02	4.02	1.876	9.87	7.38	0.00	7.38	2.49	2.49	2007- 08
	Sub total(Medium)					57.00	40.46	13.86	54.32	2.68	4.02	4.02	1.88	9.87	7.38	0.00	7.38	2.49	2.49	
C	ERM Projects																			
1*	Sone Modernisation Scheme	Rohtas,Patna, Kaimur,Gaya	DPA	APP	VII	745.54	238.61	390.03	628.64	116.90	134.44	134.44	81.83	906.41	666.41	153.00	819.41	87.00	87.00	2007- 08
	Sub total(ERM)					745.54	238.61	390.03	628.64	116.90	134.44	134.44	81.83	906.41	666.41	153.00	819.41	87.00	87.00	
	Total					6253.38	1703.12	1109.88	2813.00	3440.38	3858.97	3858.97	1917.26	1694.88	748.50	260.00	1008.50	686.38	686.38	
STATE: CHHATTISGARH																				
A	MAJOR PROJECTS																			
1*	Mahanadi Proj MRP	Raipur, Dhamtari, Durg	DPA/ TA	APP	IV	845	382.16	272.27	654.43	190.57			133.399	264.311	241.556	22.512	264.068	0.243	0.243	2007-08
2	Sondur Proj.	Dhamtari, Kanker	--	UA	V	394.1	66.19	91.52	157.71	236.39			0	38.47	9.51	2.75	12.26	26.21	26.21	2007-08
3*	Hasdeo Bango Proj.	Korba, Rgrh, Janjgir	DPA/ TA	APP	VI	1315.88	767.24	548.64	1315.88	0.00	0	0	0	420.58	234.172	144.406	378.578	42.002	42.002	2007-08
	Sub Total(Major)					2554.98	1215.59	912.43	2128.02	426.96	0.00	0.00	133.40	723.36	485.24	169.67	654.91	68.46	68.46	
B	Medium Projects																		0	
1*	Kosarteda	Bastar	DPA/ TA	APP	VI	71.1608	16.74	46.26	63.00	8.16			5.71	11.12	0	0	0	11.12	11.12	2010
	Sub Total(medium)					71.16	16.74	46.26	63.00	8.16	0.00	0.00	5.71	11.12	0.00	0.00	0.00	11.12	11.12	
C	E.R.M. Projects																			
	Sub Total(ERM)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total					2626.14	1232.33	958.69	2191.02	435.12	0.00	0.00	139.11	734.48	485.24	169.67	654.91	79.58	79.58	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
STATE: GOA																				
A	Major Projects																			
--*	Tillari Irrigation Project	North Goa	--	APP	VII	698.97	317.55	186.18	503.73	195.24	260.54	260.54	136.668	21.055	0.199	6.867	7.066	13.989	13.999	2009
	Sub-Total					698.97	317.55	186.18	503.73	195.24	260.54	260.54	136.668	21.055	0.199	6.867	7.066	13.989	13.999	
	Total					698.97	317.55	186.18	503.73	195.24	260.54	260.54	136.668	21.055	0.199	6.867	7.066	13.989	13.999	
STATE:-GUJARAT																				
A	Major Projects																			
-	Bajajsagar	Project of Rajasthan Government and being executed by Rajsthan Govt.				50	10.05	27.95	38.00	12.00	5.00	6.25	6.25			0.00	0.00	0.00		
1*	Sardar Saro var	12 Districts**	DPA/ DDP/TA	APP	VI	45673.66	12663.76	14850.66	27514.42	18159.24	5000.00	NA	12711.47	1792.00	130.75	334.68	465.43	1326.57	NA	Beyond XI Plan
2	Zankharoi	Surat	TA	APP	VI	90	5.06	0.00	5.06	84.94	10.00	12.50	12.50	26.40	0.00	0.00	0.00	26.40		Beyond XI Plan
	SubTotal(Major)					45813.66	12678.87	14878.61	27557.48	18256.2	5015	18.75	12730.218	1818.4	130.75	334.68	465.43	1352.97	0	
B	Medium Projects																			
	Sub Total (Medium)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
C	ERM Projects																			
1	Prevention of Salinity Ingress HLC-I, HLC-II & HLCIII	Jamnagar,Junagarh,	DDP/DPA	UA	AP 79-80															
2	Restoration of Mitti	Kachchh	DDP	UA	VII	27.00	26.20	0.01	26.21	0.79	0.80	1.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	2009
	For Saurashtra Region (NABARD)	Bhavnagar, Porbander																		
	For Ghed Area (NABARD)		DPA			1185.15	333.89	133.35	467.24	717.91	300	375	215.37	45.00	22.62	14.31	36.93	8.07	8.00	
	Tidal Regulator, Bandharas, Recharge Wells & Tanks in Kachchh Region	Kuchchh	DDP			213.00	0.00	47.33	47.33	165.67	165.67	27.09	56.4	5.00	0.00	0.00	0.00	5.00	5.00	2008
	Sub Total (ERM)					1425.15	360.09	180.69	540.78	884.37	466.47	403.09	272.56	50	22.62	14.31	36.93	13.07	13	
	Total					47238.81	13038.96	15059.30	28098.26	19140.55	5481.47	421.84	13002.78	1868.40	153.37	348.99	502.36	1366.04	13.00	
STATE: HARYANA																				
A	MAJOR PROJECTS																			
1	SYL Project(Punjab portion)	Whole State	DDP	UA(TAC)	VI	601.25	487.93	3.79	491.72	109.53			54.765							
	Sub Total (Major)					601.25	487.93	3.79	491.72	109.53	0.00	0.00	54.77	0.00	0.00	0.00	0.00	0.00	0.00	
B	MEDIUM PROJECTS		NIL					Nil												
C	ERM																			
1	Improvement/Reconditioning and Remodelling of old existing canals.	NA	--	UA	VII	460.730	299.890	0.00	299.89	160.84			80.42	96.000	2.000	36.076	38.076	57.924		
	Sub Total ERM					460.730	299.890	0.000	299.890	160.840	0.000	0.000	80.420	96.000	2.000	134.08	38.076	57.924	0.000	
	Total					1061.98	787.82	3.79	791.61	270.37	0.00	0.00	135.19	96.00	2.00	134.08	38.08	57.92	0.00	
STATE: HIMACHAL PRADESH																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
	Major Project.																			
	Sub Total					0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Medium Project.																			
	Sub Total					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total					0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
STATE-JAMMU&KASHMIR																				
	(A) Major Projects	Nil																		
	(B) Medium Projects																			
1*	Marwal Lift	Phulwama,Budgam	--	APP	IV	25.16	16.28	5.54	21.82	3.34			2.34	11.42	3.56	0.00	3.56	7.86	7.86	
2	Niv-Karewa	Phulwama, Budgam	--	APP	IV	4.50	3.12	0.00	3.12	1.38			1.38	4.20	0.00	0.00	0.00	4.20	4.20	
3*	Koil Lift	Phulwama		APP	V									2.33	0.15		0.15	2.18		
4*	Rajpora Lift	Phulwama	--	APP	AP78-80	31.64	6.17	6.93	13.10	18.54			12.98	2.43	0.00	0.00	0.00	2.43	2.43	
5*	Tral Lift	Phulwama	--	APP	AP78-80	70.33	10.44	13.04	23.48	46.85			32.80	6.00	0.00	0.00	0.00	6.00	6.00	
6*	Rafiabad High Lift	Baramula	--	APP	VII	35.60	20.45	6.92	27.37	8.23			5.76	2.93	0.00	0.00	0.00	2.93	2.93	
	Sub Total (Medium)					167.23	56.46	32.43	88.89	78.34	0.00	0.00	55.25	29.31	3.71	0.00	3.71	25.60	25.60	
(C) ERM Projects																				
1	Mod. of Dadi Canal	Anantnag	--	APP	VII	10.910	5.970	1.29	7.26	3.65			3.65	3.100	2.410	0.00	2.41	0.69	0.69	
2	Mod. of Martand Canal	Anantnag	--	APP	VII	17.720	8.750	1.53	10.28	7.44			3.72	4.340	4.130	0.00	4.13	0.21	0.21	
3*	Mod. of Ranbir Canal	Jammu	--	APP	VII	170.000	46.360	12.07	58.43	111.57			78.10	9.270	2.395	0.50	2.90	6.38	6.38	
4*	Mod. of New Pratap Canal	Jammu	--	APP	VII	25.000	8.910	3.49	12.40	12.60			8.82	1.350	0.454	0.57	1.02	0.33	0.33	
	Sub-Total (ERM)					223.630	69.990	18.383	88.373	135.257	0.000	0.000	94.287	18.060	9.389	1.07	10.46	7.60	7.60	
	Total					390.86	126.45	50.81	177.26	213.60	0.00		149.54	47.37	13.10	1.07	14.17	33.20	33.20	
STATE- JHARKHAND																				
A	Major Projects																			
	North Koel Project	Palamu, Aurangabad	DPA/TA	(TAC) UA	V	814.72	501.60	8.00	509.60	305.12	150	150	150	11.2	3.60		3.6	7.60	7.60	2009-10
	Batane Res. Project	Palamu, Aurangabad	DPA/TA	APP	V	60.83	45.83	1.00	46.83	14.00	20	20	20	1.66	0.45		0.45	1.21	1.21	2009-10
1	Suberanrekha Multi. Proj.	E&W Singhbhum	TA	(TAC) UA	V	2869.76	985.92	463.3	1449.22	1420.54	1420.54	1705	1136.432	170		11.08	11.08	158.92	158.92	2011-12
2	Ajay Barrage Project	Deoghar, Dumka	TA/DPA	(TAC) UA	V	351.84	190.76	71.40	262.16	89.68	89.68	103.5	89.68	40.18		1.40	1.40	38.78	38.78	2008-09
3	Konar Irrigation Project	Giridih/ Hazaribagh	DPA	TAC	V	348.38	110.09	51.68	161.77	186.61	186.61	261.5	93.305	62.79				62.79	62.79	2011-12
4	Auranga Res. Project	Palamu/	DPA/TA	APP	VII	1150.00	32.88	77.65	110.53	1039.47	1040.00	1143.5	519.735	66				66.00	40.00	2014-15
5	Punasi Res. Project	Deoghar	TA/DPA	(TAC) UA	VII	446.01	91.38	24.40	115.78	330.23	331.00	363.5	165.115	24				24.00	24.00	2011-12
	Sub total(Major)					6041.54	1958.46	697.43	2655.89	3385.65	3237.83	3747.00	2174.27	375.83	4.05	12.48	16.53	359.30	333.30	
B	Medium Projects																			
1*	Gumani Barrage Project	Sahebganj/Pakur	TA/DPA	APP	V	162.58	74.34	42.87	117.21	45.37	45.37	50	31.759	16.19				16.19	16.19	2008-09
2	Jharjhara Res. Sch.	W.Singhbhum	TA	APP	V	70.55	1.12	10.05	11.17	59.38	59.38	65.50	29.69	4.86				4.86	4.86	2010-11

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
3	Kans Res. Sch.	Ranchi/Singhbhum	TA	APP	V	44.17	26.80	0.08	26.88	17.29	4.00	4.00	4.00	3.73				3.73	1.00	2013-14
4*	Torai Res. Sch.	Pakur	DPA	APP	V	62.57	27.40	0.05	27.45	35.12	4.00	4..00	4..00	8.00				8.00	1.00	2013-14
5	Suru Res. Sch.	Saraikela	--	APP	VI	56.32	2.77	17.17	19.94	36.38	36.38	40.50	18.19	4.44				4.44	4.44	2010-11
6*	Sonua Res. Sch.	W. Singhbhum	TA	APP	VI	82.65	43.56	35.01	78.57	4.08	4.28	14.00	4.08	8.08		2.00	2.00	6.08	5.08	2008-09
7*	Upper Sankh Res.Sch.	Gumla	TA	APP	VII	137.43	30.19	71.53	101.72	35.71	35.71	39.50	25.00	7.07	0.00	2.30	2.30	4.77	4.77	2008-09
8*	Surangi Res. Sch.	Ranchi/Singhbhum	TA	APP	VII	57.42	30.58	14.12	44.7	12.72	12.72	14.00	8.90	2.6		0.5	0.5	2.1	2.1	2008-09
9	Keso Res. Sch.	Hazaribagh/	DPA	APP	VII	67.70	3.99	4.00	7.99	59.71	59.71	66.00	29.86	3.56				3.56	3.56	2011-12
10*	Punchkhero Res. Sch.	Hazaribagh, Giridih	DPA	APP	VII	54.73	11.42	30.61	42.03	12.70	12.70	14.00	12.70	3.08		0.00	0.00	3.08	3.08	2008-09
11	Bhairwa Res. Sch.	Hazaribagh/	DPA	APP	VII	67.27	15.00	41.80	56.80	10.47	10.47	13.00	10.47	4.80				4.80	4.80	2010-11
12	Nakti Res. Sch.	W.Singhbhum	TA	APP	VII	35.16	11.15	8.99	20.14	15.02	15.02	18.50	12.02	2.25				2.25	2.25	2009-10
	Sub Total (Medium)					898.55	278.32	276.28	554.60	343.95	299.74	339.00	186.66	68.66	0.00	4.80	4.80	63.86	53.13	
C	ERM Projects																			
	Sub total(ERM)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total					6940.09	2236.78	973.71	3210.49	3729.60	3537.57	4086.00	2360.93	444.49	4.05	17.28	21.33	423.16	386.43	
STATE-KARNATAKA																				
A	MAJOR PROJECTS:																			
1*	Malaprabha	Belgaum, Bijapur & Dharwad	DPA	APP	II	934.00	592.62	287.83	880.45	53.55	56.23	53.55	625.47	218.191	188.059	22.941	211.000	7.191		2007-08
2	Kabini	Chamarajanagar Mysore	DPA.TA	UA	II	1233.00	378.41	166.92	545.33	687.67	877.66	877.66	343.84	94.434	41.075	3.432	44.507	49.927	49.927	2011-12
3	Tungabhadra HLC (IS)	Bellary	;--	APP	III	75.4	75.36		75.36				0.00							
4	Harangi	Hassan, Kodagu, Mysore	DPA	UA	III	429.00	315.14	102.44	417.58	11.42	12.59	12.59	11.42	54.591	41.770	6.369	48.139	6.452	6.452	2008-09
5	Hemavathy	Hassan, Mandya, Mysore, Tumkur	DPA.TA	UA	AP-1966-69	5771.00	1448.58	673.00	2121.58	3649.42	4657.69	4657.69	1824.71	283.602	185.425	42.337	224.382	59.220	59.220	2011-12
6	Bennithora	Gulbarga	DPA	APP	IV	315.05	196.18	105.61	301.79	13.26	14.62	13.26	13.26	20.236	0.000	11.476	11.476	8.760		2008-09
7	Hipparagi	Belgaum & Bagalkot	DPA	UA	IV	1113.00	42.21	177.26	219.47	893.53	985.12	893.53	446.77	70.070	0.000	0.000	0.000	70.070	70.00	2008-09
8*	Karanja	Bidar	DPA	APP	IV	457.04	284.78	172.26	457.04	0.00	0.00	0.00		35.614	14.784	15.306	30.09	5.524	8.686	2008-09
9	Varahi (West flowing)	Dakshina Kannada	TA	UA, SPD	AP 78-80	569.5	27.78	136.00	163.78	405.75	469.71	405.75	202.88	15.702	0.000	1.072	1.072	14.630	14.63	2009-10
10	Yagachi	Hassan	DPA	UA	VI	330.00	141.58	78.38	219.96	110.04	127.39	127.39	110.04	14.97	0.495	5.823	6.32	8.66	8.66	2009-10
	SubTotal(Major)					11227.0	3502.6	1899.7	5402.3	5824.6	7201.0	7041.4	3578.4	807.4	471.6	108.8	577.0	230.4	217.6	
B	MEDIUM PROJECTS																			
1	Manchanabele	Bangalore (R)	DPA	APP	IV	80.00	67.47	12.50	79.97	0.03	0.03	0.033	0.03	2.908	1.245	1.663	2.908			2008-09
2	Amarja	Gulbarga	DPA	APP	V	219.45	94.10	30.71	124.81	94.64	99.37	94.64	94.64	8.903	0.000	0.000	0.000	8.903		2007-08
3*	Hirehalla	Koppal	DPA	APP	V	246.36	135.83	71.62	207.45	38.91	40.86	38.91	27.24	8.330	1.645	6.061	7.706	0.624		2007-08
4	Lower Mullamari	Gulbarga	DPA	APP	V	160.20	110.51	45.81	156.32	3.88	4.07	3.88	3.88	9.713	0.000	0.000	0.000	9.713		2007-08
5	Arkavathy	Bangalore (R)	DPA	UA	V	150.00	75.12	50.28	125.40	24.60	28.48	28.48	24.60	6.232	0.00	3.035	3.035	3.197	3.20	2009-10
6	Iggalur	Bangalore (R)	DPA	UA	AP-1978-80	80.00	48.45	21.45	69.90	10.10	11.69	11.69	10.10	4.251	4.251	0.000	4.251	0.000	0.00	2009-10
7	Kamasamudra L.I.S	Hassan	DPA	UA	VI	40.00	20.41	15.08	35.49	4.51	5.22	5.221	4.51	3.916	0.000	2.100	2.100	1.816	1.816	2009-10
8	Hodirayanhalla	Chikkamagalur	DPA.,TA	UA	VII		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.000		2007-08
	SubTotal(Medium)					976.0	551.9	247.5	799.3	176.7	189.7	182.9	165.0	44.3	7.1	12.9	20.0	24.3	5.0	

Pre VII and VII Plan Projects

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
C	ERM PROJECTS																			
1*	Ghataprabha-III	Bijapur & Belgaum	DPA	APP	IV	1116.00	468.13	549.75	1017.88	98.12	103.03	98.12	68.68	178.064	78.524	82.115	160.639	17.425		2007-08
2	Taraka	Mysore	DPA,TA	UA	IV	55.00	23.42	28.96	52.38	2.62	2.89	2.889	2.62	7.040	7.040	0.000	7.040	0.000	0.000	2008-09
3	D.D.Urs Canal	Mysore, Mandya	DPA,TA	UA	AP 78-80	390.00	279.55	101.30	380.85	9.15	9.15	11.90	9.15	32.375	19.150	13.208	32.358	0.017	0.000	2006-07
4	K.R.S. Modn.	Mysore, Mandya	DPA,TA	UA	AP 78-80	350.00	277.80	58.87	336.67	13.33	16.20	16.20	13.33	2.125	2.024	0.000	2.024	0.101	0.101	2011-12
	Sub Total(ERM)					1911.00	1048.90	738.88	1787.78	123.22	131.27	129.11	93.78	219.60	106.74	95.32	202.06	17.54	0.10	
	Total					14113.99	5103.43	2886.03	7989.46	6124.53	7521.99	7353.38	3837.16	1071.27	585.49	216.94	799.05	272.23	222.68	
STATE-KERALA																				
A	Major Projects																			
1*	Muvattupuzha Valley Irrigation Project	Iddukki, Kottayam, Ernakulam	TA	APP	V	684.00	354.38	304.64	659.02	24.98		35.00	17.49	37.737	9.6	17.929	27.529	10.208		2007
2	Idamalayar Irrigation Project	Ernakulam,Thrissur	--	UA/TAC	VI	430.00	120.11	137.38	257.49	172.51		70.00	172.51	29.036			14.142	14.894		
	Sub total(Major)					1114.00	474.49	442.02	916.51	197.49	0.00	105.00	190.00	66.77	9.60	17.93	41.67	25.10	0.00	
B	Medium Projects																			
1	Karapuzha	Waynad	TA	APP	V	362.00	182.93	66.79	249.72	112.28		112.88	112.28	8.721				8.721		
2	Attapady	Palakkad	TA	UA	V	196.00	9.81	1.38	11.19	184.81		182.5	92.405	8.378				8.378		
	Sub Total(Medium)					558.00	192.74	68.17	260.91	297.09	0.00	295.38	204.69	17.10	0.00	0.00	0.00	17.10	0.00	
C	ERM Projects																			
	Sub Total(ERM)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total					1672.00	667.23	510.19	1177.42	494.58	0.00	400.38	394.68	83.87	9.60	17.93	41.67	42.20	0.00	
STATE :MADHYA PRADESH									Cost in Crore											
(A)	MAJOR PROJECTS																			
1*	Sindh Phase-II	Shivpuri/Gwalior	DPA	APP	V	753.85	217.49	492.99	710.49	43.36	43.36	43.36	30.35	162.00	9.70	33.28	42.98	119.0	119.02	2008
2	Rani Awanti Bai Sagar	Jabalpur,Narsinhpur	DPA/TA	UA (TAC)	V	1563.52	694.81	604.20	1299.01	264.51			211.60	219.80	24.00	120.72	144.72	75.1	75.1	2008-09
3*	Bariyarpur LBC	Chhatarpur	--	APP	V	231.65	66.86	148.35	215.20	16.45	16.45	16.45	11.51	43.80	0.00	10.00	10.00	33.8	33.8	2008
4*	Mahi	Dhar/Jhabua	DPA/TA	APP	VI	364.00	63.64	198.23	261.87	102.13	102.13	102.13	71.49	26.40	0.00	17.00	17.00	9.4	9.4	2007-08
5*	Mahan	Sidhi	DPA/TA	APP	VI	155.10	49.85	70.27	120.11	34.99	34.99	34.99	24.49	19.70	0.00	9.00	9.00	10.7	10.7	2010
6	Jobat (NVDA)	Dhar	DPA/TA	APP	VI	171.98	46.51	125.47	171.98	0.00			0.00	9.85	0.00	9.85	9.85	0.00	0.00	2007-08
7	Man (NVDA)	Dhar	DPA/TA	APP	VI	180.34	136.11	44.23	180.34	0.00				15.00	0.00	4.00	4.00	11.0		Beyond X Plan
8*	IndiraSagar (NVDA)	Khandwa, Khargaon	DPA/TA	APP	VI	2808.26	1910.83	822.57	2733.40	74.86	34.99		52.40	123.00	0.00	32.04	32.04	91.0		2012-13
9	Pench Diversion	Chhindwara	DPA/TA	APP	VII	549.65	9.84	18.54	28.38	521.27	521.27	521.27	260.64	89.00	0.00	0.00	0.00	89.0	0	2010
10*	Bargi Diversion (NVDA)	Jabalpur, Satna, Rewa	DPA/TA	APP	VII	2604.50	29.45	705.73	735.18	1869.32			1308.52	245.00	0.00	53.94	53.94	191.06		2012-13
11*	Omkareshwar (NVDA)	Khandwa, Khargaon, Dhar	DPA/TA	APP	VII	1442.60	103.50	144.44	247.94	1194.66			836.26	146.80	0.00	0.00	0.00	146.80		2012-13
12*	Bansagar Unit-I	Rewa	DPA	APP	V	1054.96	475.47	315.09	790.56	264.40	264.40	264.40	185.08	0.00	0.00	0.00	0.00	0	0	2007
13*	Bansagar Unit-II	Rewa,Shahdol, Sidhi,Satna, Umaria	DPA/TA	APP	V	742.50	181.52	393.25	574.77	167.73	167.73	167.73	134.18	249.00	0.00	71.07	71.07	177.93	177.93	2007
--	Bawanthadi Unit-I	Balaghat	TA	APP	VI	315.17	82.77	133.62	216.39	98.78	98.78	98.78	79.02	0.00	0.00	0.00	0.00	0	0	Completed

Pre VII and VII Plan Projects

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
	Unit-II	Balaghat	TA	APP	VI	0.00	0.00	193.02	0.00	0.00	0.00	0.00		29.40	0.00	8.00	8.00	21.4	21.4	2008
	Total(Major)					12938.08	4068.65	4216.98	8285.63	4652.45	1284.09	1249.10	3205.56	1378.75	33.70	368.90	402.60	976.15	447.33	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
(B)	MEDIUM PROJECTS																			
1	Mahuar	Shivpuri	DPA	UA	VI	147.94	4.43	9.77	14.20	133.74	133.74	133.74	133.74	13.80	0.00	0.00	0.00	13.8	13.8	2010
2	Kunwari LIS	Morena	TA	APP	VI	5.31	0.29	0.09	0.39	4.92	4.92	4.92	4.92	3.90	0.00	0.00	0.00	3.9	3.9	2010
	TOTAL(Medium)					153.25	4.72	9.86	14.59	138.66	138.66	138.66	138.66	17.70	0.00	0.00	0.00	17.70	17.70	
(C)	ERM Projects																			
1	Harsi	Gwalior	--	UA	VII	24.80	10.22	0.27	10.49	14.31	14.31	14.31	14.31	0.00	0.00	0.00	0.00	0	0	2008
2	Sindh remova link	Gwalior	--	UA	VII	21.71	8.94	5.21	14.15	7.56	7.56	7.56	7.56	3.38	0.00	0.00	0.00	3.38	3.38	2008
3	Chambal LIS	Bhind,Morena	DPA/TA	UA	VII	25.80	4.19	0.56	4.75	21.05	21.05	21.05	21.05	0.00	0.00	0.00	0.00	0	0	2008
	Total ERM					72.31	23.36	6.03	29.39	42.92	42.92	42.92	42.92	3.38	0.00	0.00	0.00	3.38	3.38	
	Total					13163.64	4096.73	4232.87	8329.61	4834.03	1465.67	1430.69	3387.14	1399.83	33.70	368.90	402.60	997.23	468.41	
STATE: MAHARASHTRA																				
A	Major Projects																0	0		
1*	Bawanthadi	Bhandara	--	APP	V	322.50	92.26	145.62	237.88	84.62	84.62	84.62	59.23	27.71	0.00	5	5	22.708	22.71	2010-11
2*	Tillari	Sindhudurga	--	APP	V	952.54	341.94	291.25	633.18	319.36	319.36	319.36	223.55	9.68	0	1.52	1.52	8.16	8.16	2009-10
3*	Gosikhurd	Bhandara/ Nagpur/ Chandarpur	DPA/TA	APP	VII	5048.75	755.57	779.72	1535.29	3513.46	3514.00	3514.00	1756.73	250.80	7.66	4.88	12.54	238.26	238.26	2011-12
4	Dudhaganga	Kolhapur, Belgaum (Karnataka State)	--	UA	V	1173.26	293.16	236.83	529.99	643.27	643.27	643.27	321.64	59.933	9.045	6.61	15.655	44.278	44.278	X I Plan
5	Lendi Project.	Nanded, Nizamabad (A.P.)	DPA	UA	VI	432.20	30.69	165.26	195.95	236.25	161.93	161.93	118.13	15.71	0.000	0	0	15.71	15.710	2009
6	Kukadi Project	Pune, Solapur, A'Nagar	DPA/TA	APP	AP 66 - 69	2092.00	1003.57	345.86	1349.43	742.57	0.00	0.00	519.80	156.280	114.270	40	154.27	2.01	2.010	X I Plan
7	Upper Wardha	Amravati & Wardha	DPA/TA	APP	IV	951.33	599.05	191.86	790.91	160.42	160.42	160.42	112.294	80.25	62.657	17.593	80.25	0		2009
8*	Upper Tapi-1 (Hatnur)	Jalgaon	DPA/TA	APP	IV	230.76	131.08	16.03	147.11	83.65	83.65	83.65	58.555	55.140	51.860	0	51.86	3.28	0.040	2005
9*	Upper Penganga Project	Nanded Hingoli Yeotmal	DPA/TA	APP	IV	1532.4	585.84	166.28	851.04	681.36	Not available	681.36	476.952	134.280	68.880	27.638	96.518	37.762	37.566	2009-10
10	Upper Godawari	Nasik	DPA/TA	APP	IV	189.98	147.98	15.50	163.48	26.50	26.5	26.5	26.5	71.620	0.000	0.01	0.01	71.61	4.000	2010
11*	Waghur	Jalgaon, Bhusawal (Maharashtra State)	DPA/TA	APP	V	374.10	101.28	142.06	243.34	130.76	130.76	130.76	65.38	26.325	0.000	14.515	14.515	11.81	11.810	2009
12*	Nandur Madhmeshwar Canal	Aurangabad	DPA	APP	V	466.87	227.13	160.40	387.53	79.34	79.34	79.34	55.538	43.860	0.000	20	20	23.86	14.610	2009
13	Upper Pravara Project (Nilwande-2)	A'Nagar Nasik	DPA/TA	APP	V	760.21	74.31	126.61	200.92	559.29	539.29	539.29	279.645	64.260	0.000	0	0	64.26	0.000	2011
14*	Krishna	Satara Sangli	Partly DPA	APP	III	648.05	362.94	150.54	513.48	134.57	134.57	134.57	94.20	74.000	57.242	10.787	68.029	5.971	3.000	X I Plan
15*	Bhima (Ujjani)	Solapur, Pune, Ahmednagar	DPA	APP	III	1405.67	959.48	238.74	1198.22	207.45	250.00	250.00	145.22	259.539	209.507	18.485	227.992	31.547	16.980	X I Plan
16	Bhatsa Project	Thane	TA	UA	V	768.07	246.51	170.52	417.03	351.04	351.04	351.04	175.52	42.55	9.23	1.85	11.08	31.47	17	2009-10
17	Shankerrao Chavan Vishnupuri Project (Part.I)	Nanded.	DPA	UA	V	261.16	153.80	25.30	179.10	82.06	82.06	82.06	57.442	24.076	15.630	0.43	16.06	8.016	8.060	2009
18*	Warna	Kolhapur, Sangli, Satara	DPA	APP	V	1115.29	323.85	123.61	447.46	667.83	667.83	667.83	467.48	148.970	148.970	0	148.97	0	98.936	X I Plan
19*	Surya Project	Thane	TA	APP	AP 78-80	379.26	221.14	74.30	295.44	83.82	83.82	83.82	58.67	27.19	22.55	0	22.55	4.64	5	2009-10
20	Krishna Koyna	Sangli	DPA	UA(TAC)	VI	2186.04	784.91	247.62	1032.53	1153.51	0.00	1123.01	576.76	109.127	0.720	0	0.72	108.407	108.257	X I Plan
21	Lower Wardha	Wardha	--	UA(TAC)	VI	638.38	154.94	182.16	337.10	301.28	363.19	363.19	150.64	51.66	0.00	1.2	1.2	50.455	50.46	2010-11
22	Lower Terna Project	Osmanabad/ Latur	DPA	APP	VI	254.95	136.73	23.61	160.34	94.61	64.61	64.61	47.31	23.470	19.280	1.62	20.9	2.57	0.000	2010
23	Tultuli	Gadchiroli	DPA/TA	UA	VI	434.37	6.60	0.01	6.61	427.77	427.77	427.77	213.89	30.59	0.00	0	0	30.59	30.59	2011-12
24	Human	Chandarpur	DPA/TA	UA	VI	523.48	10.98	16.74	27.72	495.76	385.64	385.64	247.88	46.12	0.00	0	0	46.117	46.12	2011-12

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
25	Punand	NASIK	DPA /TA	Appoved	VI	157.78	41.11	46.28	87.39	70.39	70.39	70.39	70.39	10.846	0.000	0.5	0.5	10.346	0.500	2009-2010
--*	Nandur Madhameshwar Project	Nasik, A'Nagar, Aurangabad	DPA /TA	APP	VI	866.3	78.82	100.31	179.13	687.17	683.3	683.3	481.019	29.607	0.000	0	0	29.607	0.000	2011
26	Kadawa Project	Nasik	DPA /TA	APP	VI	76.06	44.89	24.76	69.65	6.41	3.45	3.45	6.41	10.320	0.000	0	0	10.32	0.000	2008
27	Bhama Askhed	Pune	DPA /TA	UA	VII	458.20	6.3972	38.551	44.9482	413.25	68.27	68.27	206.63	23.11	0	0.653	0.653	22.457	5	2010-2011
,-*	Shankerrao Chavan Vishnupuri Project (Part.I)	Nanded.	DPA	App	V	261.16	153.80	25.30	179.10	82.06	82.06	82.06	57.442	24.076	15.630	0.43	16.06	8.016	8.060	2009
	Subtotal(Major)					24961.12	8070.76	4271.63	12441.29	12519.83	9461.14	11265.51	7130.82	1931.09	813.13	173.72	986.85	944.24	796.77	
B	Medium Projects																0	0		
1	Mor	Jalgaon	DPA /TA	APP	V	57.00	26.34	14.63	40.97	16.03	16.03	16.03	16.03	2.156	0.000	1.403	1.403	0.753	1.399	2008
2	Mangrul	Jalgaon	DPA /TA	APP	V	18.00	9.59	2.83	12.42	5.58	5.58	5.58	5.58	1.935	0.260	1.675	1.935	0	1.675	2008
3	Pendhri nalla	Nagpur	DPA	App	V	12.85	0.20	0.00	0.20	12.65	12.65	12.65	12.65	1.84	0.00	0	0	1.837	1.84	2011-12
4	Pothra Project	Chandrapur	DPA /TA	APP	V	70.31	42.02	25.91	67.93	2.38	2.38	2.38	2.38	11.63	5.63	5.96	11.59	0.04	5.95	2008
5	Karwappa	Gadchiroli	DPA /TA	APP	VI	28.89	3.00	0.00	3.00	25.89	25.89	25.89	25.89	5.25	0.00	0	0	5.25	5.25	2011-12
6	Hetawane	Raigad	--	APP on 16.3.2001	VI	275.00	164.55	69.19	233.74	41.26	41.26	41.26	28.88	12.136	0.000	8.83	8.83	3.306	2.136	Jun-07
7	Shivana Takali	Aurangabad	DPA	APP	VI	150.00	61.91	81.80	143.71	6.29	6.29	6.29	6.29	6.389	0.000	4.391	4.391	1.998	2.000	2008
8	Deoghar	Sindhudurg	--	APP	VI	249.71	88.72	87.66	176.38	73.33	73.33	73.33	73.33	8.347	0.400	2.31	2.71	5.637	6.047	Jun-09
9	Tajanapur	A'Nagar	DPA /TA	APP	VI	25.86	16.05	3.84	19.89	5.97	2.11	2.11	5.97	3.622	0.000	1	1	2.622	1.000	2008
10	Chenna Nadi	Gadchiroli	DPA /TA	UA	V	18.99	1.43	0.00	1.43	17.56	17.56	17.56	17.56	2.32	0.00	0	0	2.32	2.32	2011-12
11	Jam	Nagpur	DPA	UA(TAC)	VI	136.00	53.79	39.36	93.15	42.87	42.87	42.87	42.87	7.18	2.70	3.91	6.61	0.574	0.58	2007-08
12	Bori (S)	Solapur	DPA	UA	VI	73.04	41.07	31.97	73.04	0.00	21.97	32.00	0.00	13.860	0.000	4.551	4.551	9.309	0.000	X I Plan
13	Gomai	Nandurbar	DPA	UA	VI	104.05	0.58	0.00	0.58	103.47	103.47	103.47	51.74	4.480	0.000	0	0	4.48	0.000	
14	Dehali	Nandurbar	DPA	UA(TAC)	VI	48.76	11.65	13.52	25.17	23.59	23.59	23.59	23.59	3.160	0.000	0	0	3.16	0.000	
15	Talni Project	Nanded.	DPA /TA	UA	VI	23.85	13.68	7.69	21.37	2.48	2.48	2.48	2.48	1.200	0.000	1.2	1.2	0	1.200	2008
16	Upper Kundlika Project	Beed	DPA	UA	VI	69.18	0.00	4.34	4.34	64.84	60.00	60.00	32.42	2.800	0.000	0	0	2.8	0.000	2012
17	Upper Manar. (Excluding L.I.S. Ahmedpur)	Nanded	DPA /TA	UA	VI	285.02	35.94	66.12	102.06	182.96	182.96	182.96	182.96	6.000	0.000	2	2	4	2.000	2009
18	Andhali	Satara	DPA	UA	VII	17.97	14.92	2.44	17.36	0.61	0.61	0.61	0.61	1.498	1.350	0	1.35	0.148	0.148	X I Plan
19	Gadnadi	Ratnagiri	--	UA	VII	167.57	53.84	51.53	105.37	62.20	62.20	62.20	62.20	3.735	0.000	0	0	3.735	3.735	Jun-09
	Total (Medium)					1832.05	639.28	502.83	1142.11	689.96	703.23	713.26	593.43	99.54	10.34	37.23	47.57	51.97	37.28	
C	ERM Projects																0	0		
1	Sangola Br. Canal Project, Tal. Sangola, Dist. Solapur	Satara / Solapur	DPA	UA	VI	288.01	70.42	13.47	83.89	204.12	204.12	204.12	102.06	1.85	1.85	0	1.85	0	0	X I Plan
2	Extension of Krishna Canal	Satara, Sangli	DPA	UA	VI	25.71	6.00	6.00	19.71	6.00	6.00	6.00	6.00	10.595	2.317	0	2.317	8.278	8.278	X I Plan
3	Gated weir @ Khodashi	Satara, Sangli	DPA	UA	VI	18.11	5.95	0.00	5.95	12.16	12.16	12.16	12.16	0.000	0.000	0	0	0	0.000	X I Plan
	Total (ERM)					331.83	82.37	19.47	109.55	222.28	222.28	222.28	120.22	12.45	4.17	0.00	4.17	8.28	8.28	
	TOTAL					27125.00	8792.41	4793.92	13692.95	13432.08	10386.65	12201.05	7844.47	2043.07	827.64	210.95	1038.59	1004.48	842.32	
STATE:-MANIPUR																				
A	Major Projects																			
1*	Khuga Multipurpose Project	Churachanpur & Bisnupur	TA	APP	VI	300.54	149.63	135.91	285.54	15.00	15.00	15.00	.	15.00	0.00	15.00	15.00	0.00	0.00	2006-07
2*	Thoubal Multipurpose Project	Imphal East & Thoubal	TA	APP	VI	535.55	198.98	208.57	407.55	128.00	234.10	234.10	128.00	33.40	4.00	4.00	4.00	29.40	29.00	2008-09

Pre VII and VII Plan Projects

Annex. 3.1
(11/14)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
	Sub-total					836.09	348.61	344.48	693.09	143.00	249.10	249.10	128.00	48.40	4.00	15.00	19.00	29.40	29.00	
B	Medium Projects																			
	Sub-total					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	ERM Projects																			
	Sub-total					0	0	0		0				0	0		0	0	0	
	Total					836.09	348.61	344.48	693.09	143.00	249.10	249.10	128.00	48.40	4.00	15.00	19.00	29.40	29.00	0.00
STATE:-MEGHALAYA																				
	(A).Major Projects	Nil																		
	(B).Medium Project																			
	(C) ERM	Nil																		
	Total																			
STATE:- NAGALAND																				
A	Major Projects	NIL																		
	Sub total																			
B	Medium Projects																			
C	ERM Projects																			
	Sub total																			
	Total																			
STATE - ORISSA																				
A	Major Projects																			
*1	1.Subernarekha Irr. Project																			
a)	Subernarekha Part-I (Jambhira Truncated under RIDF scheme)	Mayurbhanj & Balasore	TA	APP	VII	70.16	70.16	0.00	70.16	0.00	0.00	0.00		3.90	2.95	0.95	3.90	0.00	0.00	Completed
b)	Subernarekha Part-II under AIBP					1068.87	157.75	217.01	374.76	694.11	400.00	488.00	485.88	63.11	1.00	0.00	1.00	62.11	62.11	Beyond XI Plan
c)	Subernarekha Part-III					1269.49	237.90	0.00	237.90	1031.59	0.00	0.00		120.47	0.00	0.00	0.00	120.47	0.00	Beyond XI Plan
	Sub-Total					2408.52	465.81	217.01	682.82	1725.70	400.00	488.00	485.88	187.48	3.95	0.95	4.90	182.58	62.11	
B.	Medium Projects																			
1	Deo Irr. Project	Keonjhar & Mayurbhanj	TA	APP	VI	148.58	30.59	24.24	54.84	93.74	93.74	114.36	46.87	15.82	0.00	0.00	0.00	15.82	15.82	2011-12
2*	Titilagarh Irr. Project	Bolangir	DPA	APP	VII	56.44	18.19	29.45	47.64	8.80	8.80	10.73	6.16	2.67	0.47	1.00	1.47	1.20	1.20	2007-08
	Sub-Total					205.02	48.79	53.69	102.48	102.54	102.54	125.10	53.03	18.49	0.47	1.00	1.47	17.02	17.02	
C.	ERM & Other Projects																			
	Sub-Total					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL					2613.54	514.60	270.70	785.30	1828.24	502.54	613.10	538.91	205.97	4.42	1.95	6.37	199.60	79.13	

Pre VII and VII Plan Projects

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
STATE - PUNJAB																				
	(A) Major Projects																			
-	SYL Canal Project(I.S.)	Patiyala, Ropar	--	TAC (UA)	VI	601.25	487.93	0.00	487.93	113.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Sub Total(Major)					601.25	487.93	0.00	487.93	113.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(B) Medium Projects)																			
	Sub Total(Medium)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(C) ERM Projects																			
	Sub-Total					0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Total					601.25	487.93	0.00	487.93	113.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
STATE - RAJASTHAN																				
A	Major Projects																			
1*	IGNP -II	Sriganganagar,Bikaner, churu	DDP	APP	V															
	Sub total(Major)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
B	Medium Projects																			
	SUB TOTAL(MEDIUM)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C	ERM Projects																			
	SUB TOTAL(ERM)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
STATE-TAMIL NADU																				
	(A) Major Projects			Nil																
	(B) Medium Projects																			
	Total Medium Projects					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(C) ERM PROJECTS																			
	Total ERM					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTAL					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
STATE-TRIPURA																				
A	Major Projects																			
B	Medium Projects					2002 Price Level														
1*	Gumti	South Tripura	TA	Appd	V	70.4	38.98	7.8281	46.8081	23.5919	23.592	23.592	23.592	9.8	3.82	2.511	6.331	3.469	3.469	2009-10
2*	Khowai	West Tripura	TA	Appd	VI	76.8	48.596	19.1586	67.7546	9.0454	9.0454	9.0454	9.045	9.32	1.24	5.3	6.54	2.78	2.78	2009-10
3*	Manu	North Tripura	TA	Appd	VI	80.763	38.02	18.5511	56.5711	24.1919	24.1919	24.1919	24.192	7.6	0.36	4.521	4.881	2.719	2.719	2009-10
	Sub-total					227.963	125.596	45.5378	171.1338	56.8292	56.8293	56.8293	56.829	26.72	5.42	12.332	17.752	8.968	8.968	
C	ERM Projects																			
	Grand Total					227.963	125.596	45.5378	171.1338	56.8292	56.8293	56.8293	56.829	26.72	5.42	12.332	17.752	8.968	8.968	
STATE - UTTARANCHAL																				
	(A) Major Projects																			
1*	Lakhwar Vyasi	Saharanpur, Meerut,Dehradun	--	APP	V	1446.00	227.28	2.00	229.28	1216.72	1216.72	608.36	0.00	40.00	Transferred to NHPC			40.00		Beyond XI Plan

Pre VII and VII Plan Projects

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
	SubTotal (Major Projects)					1446.00	227.28	2.00	229.28	1216.72	1216.72	608.36		40.00	0.00	0.00	0.00	40.00	0.00	
	(B) Medium Projects	Nil																		
	(C) ERM Projects	Nil																		
	Total					1446.00	227.28	2.00	229.28	1216.72	1216.72	608.36		40.00	0.00	0.00	0.00	40.00		
	STATE - UTTAR PRADESH																			
A	Major Projects																			
1	Kanhar Irrigation Project	Mirzapur,	DPA	UA	V	382.35	34.56	4.88	39.44	342.91	535.79	621.52	171.455	33.13				33.13	33.13	XI Plan
2*	Bansagar Project	Mizapur,Allahabad, Sonbhadra	DPA	APP	V	969.74	348.11	562.74	910.85	58.89	69.93	75.53	58.89	150.13				150.13	150.13	2007-08
3*	Saryu Canal Project	Bahraich,Gonda, Shravaso	DPA	APP	V	2377.82	820.47	1000.48	1820.95	556.87	661.37	767.18	556.87	1076	438.37	437.63	876	200	200	XI Plan
	Sub-total(Major)					3729.91	1203.14	1568.1	2771.24	958.67	1267.09	1464.23	787.215	1259.26	438.37	437.63	876	383.26	383.26	
B.	Medium Projects	Nil																		
C.	ERM Projects																			
1*	Modernisation of Agra Canal	Agra, Mathura	--	APP	V	173.52	11.47	122.04	133.51	40.01	47.51	51.3	40.01	64	14	10	24	40	40	XI Plan
2*	Ch.Charan Singh, Lahchura Dam	Hamirpur, Mahouba,	DPA	APP	VI	99.66	1.65	45.67	47.32	52.34	62.16	69.61	52.34	14.58	0		14.58	0	0	XI Plan
	Sub-total					273.18	13.12	167.71	180.83	92.35	109.67	120.91	92.35	78.58	14	10	38.58	40	40	
	Total					4003.09	1216.26	1735.81	2952.07	1051.02	1376.76	1585.14	879.565	1337.84	452.37	447.63	914.58	423.26	423.26	
	STATE -WEST BENGAL																			
(A)	Major Projects																			
1*	Teesta Barrage	Darjeeling	TA	APP	V	2068.00	903.33	147.6344	1050.9644	1017.04		410.00	410.00	527.00	119.11	64.32	183.43	343.57	128.00	2008-09
	Project (1st Sub-stage)	Coochbehar Jalpaiguri																		
	Sub Total(Major)					2068.00	903.33	147.63	1050.96	1017.04	0.00	410.00	410.00	527.00	119.11	64.32	183.43	343.57	128.00	0.00
(B)	Medium Irrigation Scheme																			
1	Golamarajore	Purulia	DPA/TA	APP	V	3.92	3.06	0.1645	3.2245	0.6955		0.6955	0.6955	1.76	0.26	1.50	1.76			
2	Moutorejore	Purulia	DPA/TA	APP	V	1.90	0.64	0.0576	0.6976	1.2024		1.2024	1.2024	2.076	0.574	1.502	2.076			
3	Beko	Purulia	DPA/TA	APP	V	5.90	4.1900	0.2516	4.4416	1.4584		1.4584	1.4584	2.507	1.002	1.505	2.507			
4	Khaira Bera	Purulia	DPA/TA	APP	VII	4.15	3.1900	0.2296	3.4196	0.7304		0.7304	0.7304	2.12	0.574	1.546	2.12			
5	Futiary	Purulia	DPA/TA	APP	VII	17.04	11.26	0.1855	11.4455	5.5945		5.5945	5.5945	1.5	0.00	1.50	1.50			
--	Ranichak Pump Irrigation cum Drainage	Midnapore	DPA/TA	APP	VII	5.56	5.26	0.2964	5.5564	0.0000			0	1.531	0.00	1.531	1.531			
	Sub Total(Medium)					38.47	27.6	1.1852	28.7852	9.6812	0	9.6812	9.6812	11.494	2.41	9.084	11.494	0	0	
(C)	E R M Project																			
1	Mod. of Mayurakshi	Birbhum	DPA/TA	UA	VI	17.00	3.68	0.00	3.68	13.3200		13.3200	6.66	6.00	0.00	0.00		6.00	6.00	2008-09
2*	Mod. of D V C	Burdwan,Bankura,	DPA/TA	UA	VI	50.00	3.39	0.00	3.39	46.6100		46.61	32.627	44.00	0.00	0.00		44.00	44.00	2008-09
3	Extension of Bandhu & other 11 Nos. scheme	Purulia	DPA/TA	UA	VII	6.70	5.15	0.3986	5.5486	1.1514		1.15	1.1514	6.50	0.08	0.42	0.50	6.00	6.00	

Pre VII and VII Plan Projects

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure During X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Likely potential Creation in X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Creation In XI Plan	Likely year of completion
1	2	3	4	5	6	7	8	9	10	11	12	13	14(a)	15	16	17	18	19	20	21
	Sub Total(ERM)					73.70	12.22	0.40	12.62	61.08		61.08	40.44	56.50	0.08	0.42	0.50	56.00	56.00	
	Total					2180.17	943.15	149.22	1092.37	1087.80	0.00	480.76	460.12	594.99	121.60	73.82	195.42	399.57	184.00	
	GRAND TOTAL					142717.01	45936.80	36367.87	82411.31	60305.75	38413.55	36139.06	37172.39	12450.95	3569.09	2560.54	6056.97	6393.98	3780.37	

*** Projects Assisted under AIBP**

Annex. 5.1(1/60)

Proposal for MMI Sector in XI Plan

(Abstract)

	STATE	PROJECTS CONSIDERED AS ONGOING						NEW PROJECTS			PROJECTS PROPOSED FOR COMPLETION IN ELEVENTH PL					OUTLAY PROPOSED			
		MAJOR		MEDIUM		ERM										ONGOING PROJECTS			
		NUMBER	SPILLOVER COST	NUMBER	SPILLOVER COST	NUMBER	SPILLOVER COST	MAJOR	MEDIUM	ERM	MAJOR	MEDIUM	ERM	PROJECTS LIKELY TO BE COMPLETED IN X PLAN	LIABILITIES OF COMPLETED PROJECTS	MAJOR	MEDIUM	ERM	TOTAL
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	Andhra Pradesh	26	40855.86	19	705	6	1501.24	6	4	3	9	16	4	28	505.17	26378.00	487.26	936.74	27802.00
2	Arunachal Pradesh	0	0	0	0	0	0	0	3	0	0	0	0		0.00	0.00	0.00	0.00	0.00
3	Assam	2	296.05	2	30.02	2	41.85	0	3	0	2	2	2	4	41.57	207.24	21.01	32.92	261.17
4	Bihar	10	3421.12	2	44.94	5	663.5	12	0	9	3	1	14	3	31.15	1883.71	44.14	355.13	2282.98
5	Chhattisgarh	4	489.44	7	222.58	1	0	5	24	0	2	6	1	4	24.33	164.64	112.92	0.00	277.56
6	Goa	0	195.24	0	0	0	0	0	0	0	0	0	0	2	2.37	136.67	0.00	0.00	136.67
7	Gujarat	3	18461.14	15	311.36	11	1294.02	3	21	27	1	7	18	8	9.93	12742.72	70.79	425.40	13238.91
8	Haryana	1	109.53	0	0	1	160.84	5	3	4	1	0	1	5	124.15	54.77	0.00	80.42	135.19
9	Himachal Pradesh	1	121.91	3	157.54	0	0	0	0	0	1	2	0	0	0.00	85.34	95.12	0.00	180.46
10	Jammu & Kashmir	0	0	6	78.34	4	135.26	0	6	5	0	6	9	4	11.17	0.00	55.25	94.29	149.54
11	Jharkhand	6	3888.03	16	537.81	0	0	3	4	9	1	9	9	6	15.27	2274.27	283.59	0.00	2557.86
12	Karnataka	15	7872	27	626	5	125.2	1	6	0	6	16	5	5	36.46	4856.40	502.20	95.76	5454.36
13	Kerala	3	350.89	4	389.97	2	72.39	1	1	0	1	1	1	1	69.37	266.70	251.13	36.20	554.03
14	Madhya Pradesh	18	7824.96	8	338.35	5	168.89	11	6	0	12	3	3	8	44.91	4791.82	266.97	168.89	5227.68
15	Maharashtra	53	23022.02	83	4946.36	3	222.28	4	27	0	20	49	3	51	688.63	13337.19	3334.13	120.22	16791.54
16	Manipur	2	143	1	40.25	4	16.95	1	3	1	2	1	5		0.00	143.00	40.25	16.95	200.20
17	Meghalaya	0	0	1	112.73	0	0	0	0	0	0	1	0		0.00	0.00	56.36	0.00	56.36
18	Mizoram	0	0	0	0	0	0	0	0	0	0	0	0		0.00	0.00	0.00	0.00	0.00
19	Nagaland	0	0	1	50	0	0	0	0	0	0	0	0		0.00	0.00	50.00	0.00	50.00
20	Orissa	7	4004.05	10	497.31	14	68.25	5	16	2	5	3	14	24	15.00	2031.78	258.04	45.23	2335.05
21	Punjab	**1**	1244.51	0	12.03	2	107.67	1	0	6	**1**	0	6	4	55.05	791.83	12.03	107.67	911.53
22	Rajasthan	2	363.8	7	424.73	2	311.2	6	3		2	3	1	7	427.22	254.66	310.73	281.99	847.38
23	Sikkim	0	0	0	0	0	0	0	0		0	0	0		0.00	0.00	0.00	0.00	0.00
24	Tamil Nadu	0	0	2	7.4	3	20.93	0	0		0	1	0	1	0.00	0.00	7.40	10.47	17.87
25	Tripura	0	0	3	56.82	0	0	0	0		0	3	0		0.00	0.00	56.82	0.00	56.82
26	Uttar Pradesh	9	2785.15	0	0	13	1002.27	6	3	17	2	0	30	10	49.47	2516.94	0.00	609.53	3126.47
27	Uttaranchal	1	0	0	0	0	0	2	0		0	0	0		0.00	0.00	0.00	0.00	0.00
28	West Bengal	2	2234.91	5	9.68	6	551.09	6	12	3	1	3	6	3	11.40	609.50	9.68	383.45	1002.63
	Union Territories																		
	TOTAL	**166**	**117684**	**222**	**9599.22**	**89**	**6463.83**	**78**	**145**	**86**	**72**	**133**	**132**	**178**	**2163**	**73527**	**6326**	**3801**	**83654**

Proposal for MMI Sector in XI Plan

(Abstract) **(Rs. Crores / Th. ha.)**

	STATE	OUTLAY	PROPOSED									
						WATER DEVELOPMENT					TOTAL	
		NEW PROJECTS	SPECIAL REPAIRS OF IRRIGATION SYSTEMS	DAM SAFETY MEASURES	IMPROVED WATER MANAGEMENT	SURVEY AND INVESTIGATION	RESEARCH AND DEVELOPMENT	TRAINING	NATIONAL HYDROLOGY PROJECT	TOTAL		POTENTIAL TARGETTED
	1	20	21	22	23	24	25	26	27	28	29	30
1	Andhra Pradesh	9709.70									38016.87	3072.48
2	Arunachal Pradesh	64.30				1.16				1.16	65.46	6.87
3	Assam	158.40	100.00							0	561.14	124.67
4	Bihar	1298.21				100.00				100	3712.34	1399.00
5	Chhattisgarh	1459.65		62.95					20.43	20.43	1844.92	451.72
6	Goa		3.00			1.00			18.65	19.65	161.69	14.00
7	Gujarat	3836.78	78.79	62.50	225.00	12.50	77.11		34.64	124.25	17576.16	233.47
8	Haryana	374.39								0	633.73	
9	Himachal Pradesh								47.09	47.09	227.55	25.11
10	Jammu & Kashmir	125.10								0	285.81	34.00
11	Jharkhand	661.89	60.00	15.00	10.00	20.00	26.00		1	47	3367.02	435.63
12	Karnataka	1830.40								0	7321.22	439.60
13	Kerala	55.23		22.50	61.63	6.83	3.35		7.75	17.93	780.69	
14	Madhya Pradesh	1091.93	5.00			46.00	6.00	2.00		54	6423.52	546.13
15	Maharashtra	1688.20	4.35							0	19172.72	1571.72
16	Manipur	46.03		2.00						0	248.23	85.39
17	Meghalaya									0	56.36	
18	Mizoram									0	0.00	
19	Nagaland									0	50.00	7.54
20	Orissa	5723.44	90.00	159.70	50.00	40.00	10.00	10.00	15.00	75	8448.19	425.86
21	Punjab	282.60	125.00		2.01	3.90				3.9	1380.09	
22	Rajasthan	937.69				64.50	1.00	16.80	0.70	83	2295.29	550.05
23	Sikkim									0	0.00	
24	Tamil Nadu									0	17.87	
25	Tripura									0	56.82	8.97
26	Uttar Pradesh	638.41		187.85		42.39	12.82			55.21	4057.41	2233.60
27	Uttaranchal	419.38	25.00		0.00	5.00	2.50	2.50	3.50	13.5	457.88	7.00
28	West Bengal	261.86								0	1275.89	350.20
	Union Territories											
	TOTAL	**30664**	**491**	**513**	**349**	**343**	**139**	**31**	**149**	**662**	**118495**	**12023**

(Rs. Crore/Th.Ha)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
STATE: ANDHRA PRADESH																					
I	Liabilities of completed projects																				
A	MAJOR PROJECTS																				
1*	NSP	NLG,KRN,KMM,GTR ,PKSM	DPA/TA	APP	II	1407.26	1062.46	344.8	1407.26	0	0	0	0	895	859.63	9.02	868.65	26.35	26.35	Completed	
2*	SRPS Stage-I	ADB, WGL, NZB, KRMR	DPA/TA	APP	III	2956	1992.39	962.68	2955.07	0.93	0.93	0.93	0.651	392	308.34	64.94	373.28	18.72	18.72	Completed	
3	Pulivendula Branch canal	KDP	DPA	APP	IV	197.15	31.51	165.64	197.15	0	0	0	0	24.28	22.87	0	22.87	1.41	1.41	2007-08	
4	Vamsadhara Stage-I	SKLM	DPA/TA	APP	IV	114.74	98.91	15.83	114.74	0	0	0	0	59.99	59.18	0.68	59.86	0.13	0.13	Completed	
5	Singoor (Water supply scheme)	MDK	DPA	APP	V	213.29	164.13	49.16	213.29	0	0	0	0			0	0	0	0	Completed	
6*	PJP	MBNR	DPA	UA	VI	888.94	448.12	440.82	888.94	0	0	0	0	41.3	24.41	16.89	41.3	0	0	Completed	
7	Yeleru Projects Ph.-I	EG	TA	UA	VI	487.54	302.73	30.78	333.51	154.03	154.03	154.03	154.03	27.36	--	27.36	27.36	0	0	Stabilisation Achieved	
8	Chagalnadu LIS	EG	TA	UA	IX	71	44.29	22.02	66.31	4.69	0.469	4.69	4.69	14.168	--	14.168	14.168	0	0	2007-08	
9	Guru Raghavendra LIS	KNL	DPA	UA	X	98.67		98.67	98.67	0	0	0	0		--	0	0	0	0	2010-11	
10	Nizamsagar LIS			UA												0	0	0	0		
	a) Alisagar LIS	NZB		UA	X	224.14		224.14	224.14		0	0	0		--	0	0	0	0	2006-07	
	b) Guthpa LIS	NZB		UA	X	211.45		141.03	141.03	70.42	70.42	70.42	70.42		--	0	0	0	0	2006-07	
	SUB TOTAL (MAJOR)					6870.18	4144.54	2495.57	6640.11	230.07	225.849	230.07	229.791	1454.098	1274.43	133.058	1407.488	46.61	46.61		
B	MEDIUM PROJECTS																				
1	Tandava	VSPM	TA	APP	III	17.28	13.73	2.57	16.3	0.98	0.98	0.98	0.098	20.31	19.75	0	19.75	0.56	0.56	Completed	
2*	Madduvalasa	VSPM	TA	APP	V	120.95	89.79	31.16	120.95	0	0	0	0	10	2.43	7.57	10	0	0	Completed	
3*	Cheyyeru	KDP	DPA	APP	V	65.26	52.76	12.5	65.26	0	0	0	0	9.1	2.02	7.08	9.1	0	0	Completed	
4*	Maddigadda	EG	TA	APP	V	13	3.58	4.77	8.35	4.65	4.65	4.65	3.255	1.62	1.06	0.56	1.62	0	0	2006-07	
5*	Yerrakaluva incl. LIS	WG	--	APP	V	125	4.39	47.52	51.91	73.09	73.09	73.09	51.163	13.9	3.04	10.86	13.9	0.00	0.00	2006-07	
6	Maddileru	Anantpur	DDP	APP	VIII	61.24	50.64	2.72	53.36	7.88	7.88	7.88	0.788	5.21	3.84	1.37	5.21	0	0	Completed	
7	Upper Kalasnala	Nizamabad		APP	VIII																
8	Pedderu (Vizag)	VSPM	TA	UA	IX	42.35	21.1	21.25	42.35	0	0	0	0	7.07	2.02	5.05	7.07	0	0	2006-07	
9	Thorigedda Pumping scheme	EG	TA	UA	X	12.5	9.97	1.01	10.98	1.52	1.52	1.52	0.152		--	0	0	0	0	Completed	
10	Veligallu	KDP	DPA	UA	X	182.65		151.16	151.16	31.49	31.49	31.49	31.49	9.91	--	6.07	6.07	3.84	3.84	2006-07	
11	Yerravagu	ADB	DPA/TA	UA	X	55.52	13.13	19.39	32.52	23	23	23	23	4.45	--	4.05	4.05	0.4	0.4	2006-07	
12	Suddavagu	ADB	DPA/TA	UA	X	129.91	10.8	71.89	82.69	47.22	47.22	47.22	47.22	5.66	--	5.66	5.66	0	0	2006-07	
	SUB TOTAL (MEDIUM)					825.66	269.89	365.94	635.83	189.83	189.83	189.83	157.166	87.23	34.16	48.27	82.43	4.8	4.8		
C	ERM Projects																				
1	Godavari Barrage (Stab.)	EG, WG	TA	APP	IV	191.65	181.13	5.21	186.34	5.31	5.31	5.31	0.531			0	0	0	0	Completed	
2	K.C. Canal (Modernisation) (Stab.)	KNL.,KDP	DPA	APP	VIII	1107	371.11	619.55	990.66	116.34	116.34	116.34	116.34			0	0	0	0	Completed	
3	APERP (Projects closed by 3/06)			UA	IX	962.25	499.94	448.89	948.83	13.42	13.42	13.42	1.342			0	0	0	0	Completed by 3/06	Completed by 3/06
4	Prakasam Barrage (Stab.)	KRN	DPA	UA	IX	23.85	18.69	5.16	23.85	0	0	0	0			0	0	0	0	Completed	
5	Gosthamidi Drain cum Canal (Stab.)	EG	TA	UA	IX	3.8	3.18	0.28	3.46	0.34			0.34							Completed	
6	RDS Link Canal (Stab.)	MBNR	DPA	UA	IX	29.31	15.37	13.94	29.31	0	0	0	0			0	0	0	0	Completed	
	SUB TOTAL (ERM)					2317.86	1089.42	1093.03	2182.45	135.41	135.07	135.07	118.553	0	0	0	0	0	0		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	TOTAL-I					10013.7	5503.85	3954.54	9458.39	555.31	550.749	554.97	505.51	1541.328	1308.59	181.328	1489.918	51.41	51.41		
II	ONGOING PROJECTS																				
A	MAJOR PROJECTS							0	0	0	0	0	0	--	--	0	0	0	0		
a)	External Aided projects																				
1	SRBC	KNL.,KDP	DPA	APP	VI	2484	1003.05	412.31	1415.36	1068.64	1068.64	1068.64	748.048	76.89	--	76.891	76.891	-0.001	0	2008-09	
b)	Interstate Projects	Nil																			
c)	Pre-V Plan projects							0	0	0	0	0	0	--	--	0	0	0	0		
1*	Somasila	NLR	DPA	APP	V	734	296.53	334.97	631.5	102.5	102.5	102.5	71.75	38.484	10.68	27.804	38.484	0	0	2007-08	
d)	Other Projects							0	0	0	0	0	0	--	--	0	0	0	0		
1	Telugu Ganga	KNL,KDP, NLR.CTR	DPA	UA	VI	3505	1588.54	1161.27	2749.81	755.19	755.19	755.19	528.633	232.7	23.03	93.28	116.31	116.39	116.39	2008-09	
2	SLBC (AMRP)	NLG	DPA	UA	VI	1260	484.44	722.73	1207.17	52.83	52.83	26.415	36.981	109	--	49.75	49.75	59.25	59.25	2008-09	
3*	Vamsadhra Stage-II (Ph.-I & II)	SKLM	DPA/TA	APP	IX	1057	40.94	295.47	336.41	720.59	720.59	720.59	504.413	43.42	8.09	17.117	25.207	18.213	18.213	2008-09	
4	GNSS Ph-I & II	KDP, CTR, NLR	DPA	UA	X	4541	12.27	560.4	572.67	3968.33	3968.33	3968.33	1984.17	105.22	--	0	0	105.22	105.22	2009-10	
5*	Thotapally barrage	VZNM, SKLM	DPA/TA	APP	X	450.23		320.21	320.21	130.02	130.02	130.02	91.014	48.56	--	26.31	26.31	22.25	22.25	2008-09	
6	Tadipudi LIS	WG	TA	APP	X	301.67		188.91	188.91	112.76	112.76	112.76	112.76	83.35	--	30.35	30.35	53	53	2007-08	
7	Pushkara LIS	EG	TA	APP	X	297.25		284.69	284.69	12.56	12.56	12.56	12.56	75.2	--	20.22	20.22	54.98	54.98	2007-08	
8	Indira Sagar Project (Polavarm)	VSPM, EG, WG, KRN	DPA/TA	UA	X	12591	0.29	1414.35	1414.64	11176.4	11176.36	11176.4	5588.18	291.38	--	0	0	291.38	291.38	--	
9	Venkatanagaram LIS	EG	TA	UA	X	58.43		36.65	36.65	21.78	21.78	21.78	21.78	12.85	--	0	0	12.85	12.85	2008-09	
10	Tarakaram Krishnaveni LIS	KRN	DPA	UA	X	78.46	5.31	27.5	32.81	45.65	45.65	45.65	45.65	22.66	--	5.65	5.65	17.01	17.01	2007-08	
11*	Gundlakamma Project	PKSM	DPA	APP	X	453.4		257.3	257.3	196.1	196.1	196.1	137.27	32.4	--	12.14	12.14	20.26	20.26	2007-08	
12	Veligonda Project	PKSM, NLR, KDP	DPA	UA	X	3456	12.87	440.05	452.92	3003.08	3003.08	3003.08	1501.54	177.26	--	0	0	177.26	177.26	2009-10	
13	HNSS	CTR, ANTP, KDP, KNL	DPA	UA	X	5107	6.82	462.16	468.98	4638.02	4638.02	4638.02	2319.01	243.77	--	0	0	243.77	243.77	2009-10	
14	Rajiv LIS (Bhima) inclusing sangambanda	MBNR	DPA	UA	X	1568.12		545.31	545.31	1022.81	1022.81	1022.81	1022.81	82.5	--	0	0	82.5	82.5	2008-09	
15	Mahathma LIS (Kalwakurthy)	MBNR	DPA	UA	X	2990		739.11	739.11	2250.89	2250.89	2250.89	2250.89	137.6	--	0	0	137.6	137.6	2009-10	
16	Jawahar LIS (Nettampadu)	MBNR	DPA	UA	X	1428		235.53	235.53	1192.47	1192.47	1192.47	1192.47	80.94	--	0	0	80.94	80.94	2008-09	
17	Koilsagar LIS	MBNR	DPA	APP	X	359		78.65	78.65	280.35	280.35	280.35	280.35	15.48	--	0	0	15.48	15.48	2008-09	
18	JCLIS - GLIS St-I, II, III	WGL, KRMR, NLG, MDK	DPA/TA	UA	X	4850	25.52	1685.4	1710.92	3139.08	3139.08	3139.08	1569.54	262.33	--	0	0	262.33	262.33	2010-11	
19*	SRSP - II	WGL, KMM, NLG	DPA/TA	APP	X	831	9.55	644.19	653.74	177.26	177.26	177.26	124.082	161.88	--	20.24	20.24	141.64	141.64	2007-08	
20*	FFC from SRSP	KRMR, WGL, NLG	DPA/TA	APP	X	3000		1283.26	1283.26	1716.74	1716.74	1716.74	1201.72	80.94	--	0	0	80.94	80.94	2007-08	
21	Sripadasagar LIS (Yellampally)	KRMR, MDK	DPA	UA	X	2245		651.08	651.08	1593.92	1593.92	1593.92	1593.92	187.65	--	0	0	187.65	187.65	2010-11	
22	Singoor canals	MDK	DPA	APP	X	89		10	10	79	79	79	39.5	16.19	--	0	0	16.19	16.19	2008-09	
23	Dummugudem			UA					0							0	0	0	0		
	a) Rajiv LIS	KMM	DPA/TA	'UA		1681		0	0	1681	1681	1681	1681	80.94	--	0	0	80.94	80.94	2010-11	
	b) Indirasagar LIS	KMM, WG	DPA/TA	'UA		1824		106.07	106.07	1717.93	1717.93	1717.93	1717.93	80.94	--	0	0	80.94	80.94	2010-11	
24	Somasila - Swarnamukhi Link canal	NLR	DPA	'UA				0	0	0	0	0	0	420	--	0	0	420	420	2009-10	
	SUB TOTAL (MAJOR)					57239.56	3486.13	12897.6	16383.7	40855.9	40855.86	40829.4	26378	3200.534	41.8	379.752	421.552	2778.982	2778.983		
B	MEDIUM PROJECTS							12897.6													
1*	Kanupur canal Stage-I	NLR	DPA	APP	III	32	19.54	2.32	21.86	10.14	10.14	10.14	7.098	7.64	7.07	0	7.07	0.57	0.57	2008-09	
2*	Gundlavagu	KMM	DPA/TA	APP	V	21.58	14.95	6.35	21.3	0.28	0.28	0.28	0.196	1.05	--	0	0	1.05	1.05	2007-08	
3	Jhanjhavathi	VZNM	--	UA	V	124	26.07	71.63	97.7	26.3	26.3	26.3	26.3	9.97	--	3.64	3.64	6.33	6.33	2007-08	
4*	Palemvagu	KMM	DPA/TA	APP	IX	73.43	0.35	73.08	73.43	0	0	0	0	4.1	--	0	0	4.1	4.1	2008-09	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
5*	Tharakarama Thirthasagaram	VZNM	--	APP	X	220.04		65	65	155.04	155.04	155.04	124.032	6.69	--	0	0	6.69	6.69	2008-09	
6	Peddagedda	VZNM	--	UA	X	87.96		87.96	87.96	0	0	0	0	3.05	--	1.62	1.62	1.43	1.43	2007-08	
7	Bhupathipalem	EG	TA	UA	X	100.52		78.98	78.98	21.54	21.54	21.54	21.54	9.34	--	0	0	9.34	9.34	2008-09	
8	Surampalem	EG	TA	UA	X	52.26	3.64	30.38	34.02	18.24	18.24	18.24	9.12	6.27	--	6.27	6.27	0	0	2008-09	
9	Musurumilli	EG	TA	UA	X	207		68.07	68.07	138.93	138.93	138.93	69.465	9.16	--	0	0	9.16	9.16	2008-09	
10	Kovadakaluva	WG	TA	UA	X	65.9	12.63	22.68	35.31	30.59	30.59	30.59	7.6475	7.18	--	7.18	7.18	0	0	2007-08	
11*	Swarnamukhi Barrage	NLR	DPA	APP (SPB)	X	53.01		53.01	53.01	0	0	0	0	4.65	--	0	0	4.65	4.65	2007-08	
12	Komarambheem (Peddavagu Ada)	ADB	DPA/TA	UA	X	274.14		187.41	187.41	86.73	86.73	86.73	43.365	9.91	--	0	0	9.91	9.91	2008-09	
13	Peddavagu Jagannadhapur	ADB	DPA/TA	APP	X	124.64		64.5	64.5	60.14	60.14	60.14	60.14	6.07	--	0	0	6.07	6.07	2008-09	
14	Neelwai	ADB	DPA/TA	UA	X	90.5		49.87	49.87	40.63	40.63	40.63	40.63	5.26	--	0	0	5.26	5.26	2008-09	
15	Gollavagu	ADB	DPA/TA	APP	X	83.61		49.65	49.65	33.96	33.96	33.96	33.96	3.84	--	0	0	3.84	3.84	2008-09	
16	Ralivagu	ADB	DPA/TA	APP	X	43.42		43.42	43.42	0	0	0	0	2.43	--	0	0	2.43	2.43	2008-09	
17	Modikuntavagu	KMM	DPA/TA	UA	X	124.6		47.7	47.7	76.9	76.9	76.9	38.45	5.5	--	0	0	5.5	5.5	2008-09	
18	Mathadivagu	ADB	DPA/TA	APP	X	50.4		45.08	45.08	5.32	5.32	5.32	5.32	3.44	--	0	0	3.44	3.44	2008-09	
19	Kinnerasani	KMM	DPA/TA	UA	X	37.12		37.12	37.12	0	0	0	0	4.05	--	0	0	4.05	4.05	2008-09	
	SUB TOTAL(MEDIUM)					1866.13	77.18	1084.21	1161.39	704.74	704.74	704.74	487.264	109.6	7.07	18.71	25.78	83.82	83.82		
C	ERM PROJECTS																				
1	TBP HLC Stage-II	KNL,ATP, KDP	DPA	APP	IV	618.5	214.88	262.44	477.32	141.18	141.18	141.18	141.18	89.61	47.23	0	47.23	42.38	42.38	2008-09	
2	Improvements to Nizamsagar (Stab.)	NZB	--	UA	V	83.65	42.78	25.26	68.04	15.61	15.61	15.61	15.61			0	0	0	0	2007-08	
3	NSRSP - Dam Maintenance	KNL	DPA	UA	IX	1129		0	0	1129	1129	1129	564.5			0	0	0	0		
4	Pulichintala (Stab.)	KRN, GTR, PKSM, WG	DPA/TA	UA	VIII	607.25	24.86	366.94	391.8	215.45	215.45	215.45	215.45			0	0	0	0	2008-09	
5	Godavari Delta System (Stab.)	EG, WG	TA	UA	IX	140.34	78.76	61.58	140.34	0	0	0	0			0	0	0	0	2007-08	
6	Improvement to Nagarjunsagar	NA	--	UA	X																
	SUBTOTAL (ERM)					2578.74	361.28	716.22	1077.5	1501.24	1501.24	1501.24	936.74	89.61	47.23	0	47.23	42.38	42.38		
	TOTAL-II					61684.43	3924.59	14698	18622.59	43061.8	43061.84	43035.4	27802	3399.744	96.1	398.462	494.562	2905.182	2905.183		
III	NEW PROJECTS XI PLAN																				
A	MAJOR PROJECTS																				
1	Pranahitha chevella	ADB,KRMR,RR, NZB, WGL	DPA/TA	UA	XI	14000				14000	14000	14000	3500	485.64				485.64			
2	Inchampalli	WGL,KMM	DPA/TA	UA	XI	1500				1500	1500	1500	375	63.57				63.57			
3	Dummugudem NS Tail pond	NA	--	UA	XI	10000				10000	10000	10000	2500					0	0		
4	Kalwakurthy Lift -IV	MBNR	DPA	UA	XI	1500				1500	1500	1500	375	105.22				105.22	105.22		
5	GNSS Ph. - III	KDP,CTR	DPA	UA	XI	1000				1000	1000	1000	250	48.56				48.56			
6	HNSS Ph-III	ATP,CTR, KDP	DPA	UA	XI	1000				1000	1000	1000	250	40.47				40.47			
	SUB TOTAL(MAJOR)					29000	0	0	0	29000	29000	29000	7250	743.46	0	0	0	743.46	105.22		
B	MEDIUM PROJECTS																				
1	Peddavagu (Barkagudem)	ADB	DPA/TA	UA	XI	30				30	30	30	30	3.24				3.24	3.24		
2	Mandamarri		DPA/TA	--							0	0	0					0	0		
2	Peddavagu (Dasnapur)	ADB	DPA/TA	UA	XI	26.7				26.7	26.7	26.7	26.7	2.43				2.43	2.43		
3	Chiklivagu	ADB	--	--							0	0	0					0	0		
4	Palavagu	ADB	--	--							0	0	0					0	0		

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
3	Mureduvagu	KMM	DPA/TA	UA	XI	28				28	28	28	28	2.5				2.5	2.5		
4	Zerricona	KDP	DPA	UA	XI	25				25	25	25	25	2.5				2.5	2.5		
	SUB TOTAL(MEDIUM)					109.7	0	0	0	109.7	109.7	109.7	109.7	10.67	0	0	0	10.67	10.67		
C	ERM PROJECTS																				
1	Modernization of NSP	NA	--	UA	XI	3000				3000	3000	3000	1500					Stabilisation			
2	Modernization of Krishna Delta	NA	--	UA	XI	1200				1200	1200	1200	600					Stabilisation			
3	Modernization of TBP HLC	NA	--	UA	XI	500				500	500	500	250					Stabilisation			
	Sub Total (ERM)					4700	0	0	0	4700	4700	4700	2350	0	0	0	0	0	0		
	Total-III					33809.7	0	0	0	33809.7	33809.7	33809.7	9709.7	754.13	0	0	0	754.13	115.89		
IV	Special Repairs of Existing Irrigation Systems																				
	Total of IV																				
V	Dam Safety Measures																				
	Total of V																				
VI	Imprroved Water Management																				
	Total of VI																				
VII	Water Development																				
a)	Survey & Investigations																				
b)	Research & Developmemt incl. provisions for Jalasoudha																				
c)	Training																				
d)	National Hydrology Project																				
	Total of VII																				
	Total (IV+V+VI+VII)					0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	GRAND TOTAL					105507.8	9428.44	18652.5	28080.98	77426.9	77422.29	77400.1	38017.2	5695.202	1404.69	579.79	1984.48	3710.722	3072.483		
	KMM - Khammam, WGL - Warangal, NLG - Nalgonda, ADB - Adilabad, NZB - Nizamabad, KRMR- Karimnagar, KNL- Kurnool, KDP-Kadapa, WG - West Godavari, EG - East Godavari, KRN-Krishna,GTR-Guntur, PKSM-Prakasham, SKLM-Srikakulam, NLR-Nellore, MDK-Medak, CTR-Chit																				

STATE: ARUNACHAL PRADESH

Annexure-IV

I	Liabilities of Completed Projects																				
A	Major Projects	NIL																			
B	Medium Projects	NIL																			
C	ERM Projects	NIL																			
	Total-I	NIL																			
II	Ongoing Projects									Nil											
A	Major Projects	NIL																			
B	Medium Projects	NIL																			
C	ERM Projects	NIL																			
	Total -II	NIL																			
III	New Projects of XI Plan																				
A	Major Projects	NIL																			
B	Medium Projects																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Pappu Valley Irrigation Project					26				26	26	26	26								
2	MIP Paya					13.3				13.3	13.3	13.3	13.3	6.87				6.87	6.87		
3	Sille Remi Irrigation Projects					25				25	25	25	25								
	Sub-total (Medium)					64.3	0	0	0	64.3	64.3	64.3	64.3	6.87	0	0	0	6.87	6.87		
C	ERM Projects	NIL																			
	Total -III					64.3	0	0	0	64.3	64.3	64.3	64.3	6.87	0	0	0	6.87	6.87		
IV	Spl.repairs of Existing Irrigation System	NIL																			
	Total of IV	NIL										0									
V	Dam Safety Measures	NIL																			
	Total of V	NIL																			
VI	Improved water Management	NIL																			
	Total of VI	NIL										0									
VII	Water Development																				
a)	Survey & Investigations					2.16			1.16	1	1	1	1.16								
b)	Research & Developmnet	NIL																			
c)	Training	NIL																			
d)	National Hydrology Projects	NIL																			
	Total of VII	NIL										1	1.16	0	0	0	0	0	0		
	Total of(IV+V+VI+VII)	NIL				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total					64.3	0	0	0	64.3	64.3	65.3	65.46	6.87	0	0	0	6.87	6.87		
STATE: ASSAM																					
I	Liabilities of Completed Projects																				
A	MAJOR PROJECTS																				
--	Sukla Flow Irrigation Project	Kannup/Beska		APP	III	4.90	4.90	0	4.9	0				15.64	15.64		15.64	0.00			
--	Jamuna Flow Irrigation Project	Nagaon		APP	III	4.34	4.34	0	4.34	0				31.00	31.00		31.00	0.00			
1*	Integrated Kallong Irrigation Project	Nagaon		APP	V	113.93	65.91	13.894	79.8042	34.126			34.1258	34.40	27.58	1.95	29.53	4.87			
2*	Bordikorai Irrigation Project	Sonipur		APP	V	49.97	46.22	3.75	49.97	0			0	34.00	32.45	0.20	32.65	1.35			
	Sub-total (Major)					173.14	121.37	17.64	139.01	34.13	0.00	0.00	34.13	115.03	106.66	2.15	108.81	6.22	0.00		
B	Medium Projects																				
--	Bhunka Flow Irrigation Project	Barpeta		APP	I									4.2	4.2		4.20	0.00			
--	Improvement of Kulsik Flow I.P.	Darrang		APP	II	0.14	0.14	0	0.14	0				3.00	3.00		3.00	0.00			
--	Horgui Flow Irrigation Project	Kabi Anglong		APP	III	0.43	0.27	0	0.27	0.16			0.16	2.8	2.80		2.80	0.00			
--	Longa Flow Irriation Project	Kokrajhar		APP	IV	0.52	0.52	0	0.52	0				4.96	4.96		4.96	0.00			
--	Kaldya Flow Irrigation Project	Barpeta		APP	IV	9.77	9.77	0	9.77	0				16.5	16.36		16.36	0.14			
--	Dekodong Flow Irrigation Project	Barpeta		APP	IV	4.6	5.25	0	5.25	-0.65				6.05	6.05		6.05	0.00			
--	Kalabor Lift Irrigation Project	Nagaon		APP	IV			0	0	0				13.56	13.56		13.56	0.00			

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
--	Dekhari Flow Irrigation Project	Kabi Anglong		APP	IV	1.09	1.15	0	1.15	-0.06				2.86	2.86		2.86	0.00			
--	Rupahi Flow Irrigation Project	Barpeta		APP	V	10.69	7.04	0.279	7.319	3.371			3.37	3.99	3.99		3.99	0.00			
1*	Pahumara Flow Irrigation Project	Barpeta		APP	AP 78-80	46.15	32.92	10.1801	43.1001	3.0499			3.05	12.95	10.85	0.90	11.75	1.20		2006-07	
2*	Hawaipur Flow Irrigation Project	Kabi Anglong		APP	VI	14.93	11.82	2.26	14.08	0.85			0.85	3.89	2.39	0.64	3.03	0.86			
	Sub-total (Medium)					88.32	68.88	12.7191	81.5991	6.7209	0	0	7.4309	64.757	61.02	1.54	62.56	2.20	0		
C	ERM Projects	Nil						12.7191	81.5991	6.7209											
	Total -I					261.46	190.25	30.36	220.61	40.85	0.00	0.00	41.56	179.79	167.68	3.69	171.37	8.42			
II	ONGOING PROJECTS																				
A	Major Projects							NIL													
a)	Externally aided Projects	NIL																			
b)	Inter state Projects	NIL																			
c)	Other Projects																				
1*	Dhansiri Irrigation Project	Darang	TA	APP	V	401.24	163.29	18.60	181.91	219.35	219.35	268.77	153.545	83.36	26.00	3.00	29.00	54.36	54.36	2008-09	
2*	Champamati Irrigation Project	Kokrajhar	TA	APP	VI	147.24	57.03	13.51	70.54	76.70	76.70	80.59	53.69	24.99	1.45	1.25	2.70	22.29	22.30	2008-09	
	Sub-total (Major)					548.48	220.32	32.11	252.45	296.05	296.05	349.36	207.235	108.35	27.45	4.246	31.696	76.654	76.658		
B	Medium Projects																				
1*	Burihehing Irrigation Project	Sibrugarh	TA	APP	AP-1978-80	27.87	15.47	1.16	16.63	11.24	11.24	8.54	7.868	5.05	1.69	1.02	2.71	2.34	2.12	2009 -10	
2*	Borolia Irrigation Project	Nalbari	TA	APP	AP-1978-80	84.97	44	22.19	66.19	18.78	18.78	28.76	13.146	13.56	1.25	0.5	1.75	11.81	5.262	2009 -10	
	Sub-total (Medium)					112.84	59.47	23.35	82.82	30.02	30.02	37.3	21.014	18.61	2.94	1.52	4.46	14.15	7.382		
C	ERM Projects																				
1*	Modernisation of Jamuna I.P.	Nagaon	TA	APP	IX	60.27	0.65	29.85	30.5	29.77	29.77	29.77	20.839	13.758	1.62	10.00	11.617	2.14	2.14	200 8- 09	
2	Modernisation of Sukla I.P.	Baska	--	UA	X	29.12		17.04	17.04	12.08	12.08	12.08	12.08	27.4	_	8	8.00	19.40	19.40	200 8- 09	
	Sub-total (ERM)					89.39	0.65	46.89	47.54	41.85	41.85	41.85	32.919	41.158	1.62	18	19.617	21.54	21.541		
	Total -II					750.71	280.44	102.35	382.81	367.92	367.92	428.51	261.168	168.118	32.01	23.766	55.773	112.345	105.581		
III	New Projects of XI Plan																				
A	Major Projects	NIL														NIL					
B	Medium Projects																				
1	Rangma Irrigation Project			UA		42.00				42.00			42	3.5				3.50	3.50		2011 - 12
2	Burisuti Irrigation Project			UA		76.60				76.60			61.28	6.39				6.39	6.39		2011 - 12
3	Garufulla Irrigation Project			UA		110.4				110.4			55.2	9.2				9.20	9.20		2011 - 12
	Sub-total (Medium)					229.00				229.00			158.48	19.09	0.00	0.00	0.00	19.09	19.09		
C	ERM Projects	NIL																			
	Total -III					229.00	0.00	0.00	0.00	229.00	0.00	0.00	158.48	19.09	0.00	0.00	0.00	19.09	19.09		
IV	Spl.repairs of																				
	Existing Irrgn.																				
	Systems (All the completed Major and																				
	Medium Irrigation Projects shown at (A&B)											100	100								
	Total IV	NIL										100	100								
V	Dam Safety																				
	Measures																				
	Total V	NIL																			

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
VI	Improved water	NIL																			
	Management																				
	Total of VI	NIL																			
a)	Survey & Investigations	NIL																			
b)	Research & Developmnet	NIL																			
	Including provisions for																				
	Jalasoudha																				
c)	Training	NIL																			
d)	National Hydrology	NIL																			
	Project																				
	Total VII	NIL																			
	Total (IV+V+VI+VII)					0.00	0.00	0.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00		
	GRAND TOTAL					1241.17	470.69	132.71	603.42	637.77	367.92	528.51	561.20	367.00	199.69	27.46	227.14	139.85	124.67		
STATE: BIHAR																					
I	Liabilities of Completed projects																				
A	Major Projects																				
1*	Upper Kiul	Katihar,Purnia Kishanganj, Saharsha	--	APP	V	159.16	126.22	17.23	143.45	15.71			15.71			0.00	0.00	0.00			
	Sub total (Major)					159.16	126.22	17.23	143.45	15.71	0	0	15.71	0	0	0	0	0	0		
B	Medium Projects																				
1*	Orni Res.	Bhagalpur	--	APP	V	74.89	58.2	1.25	59.45	15.44			15.44	9.72	5.5	4.00	9.50	0.22			
2	Sindhwani	Munger	--	APP	VI	48.32	10.72	0	10.72	37.6				9.38	0	0.00	0.00	9.38			
	Sub total (Medium)					123.21	68.92	1.25	70.17	53.04	0	0	15.44	19.1	5.5	4	9.5	9.6	0		
C	ERM Projects																				
	Sub total (ERM)	Nil																			
	Total -I					282.37	195.14	18.48	213.62	68.75	0	0	31.15	19.1	5.5	4	9.5	9.6	0		
II	ONGOING PROJECTS																				
A	Major Projects																				
a)	Externally aided Projects	NOT APPLICABLE																			
	Sub total																				
b)	Inter state Projects																				
1	Tilaiya Diversion Scheme	Gaya, Nawada	DPA	(TAC)UA	V	301.79	59.25	34.88	94.13	207.66	290.724	290.724	103.83	31.7	0.00	8.00	8.00	23.70	23.70	2007-08	Inter State Disputes, LA problem
2	North Koel Reservoir Scheme	Gaya, Aurangabad	--	(TAC)UA	V	1118.00	549.15	77.89	627.04	490.96	687.34	687.34	392.77	107.8	46.00	21.50	67.50	40.30	40.30	2009-10	Inter State Disputes
3	Jamania Pump Canal Scheme	Kaimur	--	UA	V	94.87	40.14	32.41	72.55	22.32	37.944	37.944	22.32	34.3	4.23	16.00	20.23	*14.07*	14.07	2007-08	Inter State Disputes
c)	Pre-V Plan Projects									0.00								0.00			
1*	Western Kosi Canal Scheme	Madhubani,Darbhanga	DPA	APP	III	904.01	487.86	344.32	832.18	71.83	96.97	96.97	50.28	234.80	24.48	61.50	85.98	148.82	148.82	2009 -10	LA problem & Legal Problem
d)	Other Projects																				
1	Barnar Reservoir Scheme	Jamui	DPA	APP	V	216.22	62.13	17.92	80.05	136.17	190.638	190.638	68.085	25.4	0.00	0.00	0.00	25.40	25.40	2009-10	LA problem
2*	Durgawati Reservoir Scheme	Rohtas, Kaimur	DPA	APP	V	361.69	184.01	175.99	360	1.69	1.94	1.94	1.183	17.45	0.00	0.00	0.00	17.45	17.45	2007- 08	Forest clearance

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
3	Bateshwarsthan Ganga Pump Canal Scheme	Bhagalpur	--	APP	V	188.02	41.51	22.58	64.09	123.93	148.716	148.716	61.965	25.65	0.00	0.00	0.00	25.65	25.65	2009-10	Inter State Disputes
4	Kosi phase-II		--	UA	VII	293.84	0.00	0.00	0.00	293.84	293.84	293.84	146.92	73.00	0.00	0.00	0.00	73.00	73.00	2011-12	State Govt.Proposes to restructure as new projects
5	Gandak phase-II	Siwan,Gopalgang, Saran	--	APP	VII	1972.40	0.00	0.00	0.00	1972.40	1972.40	1972.40	986.20	228.50	0.00	0.00	0.00	228.50	228.50	2011-12	
6	Punpun Barrage	Patna,Gaya, Jehanabad	--	APP	IX	102.26	1.44	0.50	1.94	100.32			50.16	13.92	0.00		0.00	13.92			
	SubTotal (Major)					5553.10	1425.49	706.49	2131.98	3421.12	3720.51	3720.51	1883.71	792.52	74.71	107.00	181.71	610.81	596.89		
B	Medium Projects																				
1*	Batane Reservoir Scheme	Aurangabad	--	APP	V	57.00	40.46	13.86	54.32	2.68	4.02	4.02	1.876	9.87	7.38	0.00	7.38	2.49	2.49	2007- 08	Inter State Disputes
2	Mandai weir scheme	Patna,Nalanda, Jehanabad	DPA	UA	X	42.98	0.00	0.72	0.72	42.26	44.37	44.37	42.26	3.35	0.00	0.00	0.00	3.35	3.35	2009-10	
	Sub total(Medium)					99.98	40.46	14.58	55.04	44.94	48.39	48.39	44.14	13.22	7.38	0.00	7.38	5.84	5.84		
C	ERM Projects																				
1*	Sone Modernisation Scheme	Rohtas,Patna, Kaimur,Gaya	DPA	APP	VII	745.54	238.61	390.03	628.64	116.90	134.44	134.44	81.83	906.41	666.41	153.00	819.41	87.00	87.00	2007- 08	Short Working period
2	Restoration of Lower Kiul Irrigation Scheme	Jamui	DPA	UA	X	29.24	0.00	0.50	0.50	28.74	28.74	28.74	14.37	28.75	0.00	0.00	0.00	28.75	0.00	2008-09	
3	Restoration of Eastern Gandak Canal System	W Champaran, E Champaran, Muz.,Vaishali	--	APP	X	294.00	0.00	12.14	12.14	281.86	324.14	324.14	140.93	300.00	0.00	100.00	100.00	200.00	100.00	2009-10	
4	Restoration of Western Gandak Canal System	Siwan, Gopalgang, Chapra	--	UA	X	131.00	0.00	0.00	0.00	131.00	131.00	131.00	65.50	150.00	0.00	0.00	0.00	150.00	0.00	2011-12	
5	Restoration of Eastern Kosi Canal System	NA	--	UA	X	105.00	0.00	0.00	0.00	105.00	105.00	105.00	52.50	105.00	0.00	0.00	0.00	105.00	0.00	2009-10	
	Sub total(ERM)					1304.78	238.61	402.67	641.28	663.50	723.32	723.32	355.13	1490.16	666.41	253.00	919.41	570.75	187.00		
	Total -II					6957.86	1704.56	1123.74	2828.30	4129.56	4492.22	4492.22	2282.98	2295.90	748.50	360.00	1108.50	1187.40	789.73		
III	New Projects of XI Plan																				
A	Major Projects																				
1	UderaSthan Barrage Scheme	Jehanabad, Gaya,	--	UA	X .	125.00	0.00	10.00	10.00	115.00	115.00	115.00	28.75	20.00	0.00	0.00	0.00	20.00	20.00	2009-10	
2	Bagmati Multipurpose Scheme	Sheohar, Sitamarhi	DPA	UA	X .	1000.00	0.00	5.00	5.00	995.00	995.00	995.00	248.75	100.00	0.00	0.00	0.00	100.00	100.00	2011-12	
3	Indrapuri Res.Scheme	Rohtash, Kaimur	DPA	UA	XI .	2000.00	0.00	15.00	15.00	1985.00	1985.00	1985.00	496.25	200.00	0.00	0.00	0.00	200.00	200.00	2011-12	
4	Suryagarha Pum Canal Scheme	Munger	--	UA	XI .	52.00	10.27	0.00	10.27	41.73	41.73	41.73	41.73	17.35	0.00	0.00	0.00	17.35	17.35	2011-12	
5	Ajgaibinath Pump canal Scheme	Bhagalpur	--	UA	XI .	38.85	0.00	0.00	0.00	38.85	38.85	38.85	38.85	19.60	0.00	0.00	0.00	19.60	19.60	2011-12	
6	Kundghat Irrigation Scheme		--	UA	XI .	115.28	0.00	0.00	0.00	115.28	115.28	115.28	57.64	9.25	0.00	0.00	0.00	9.25	9.25	2010-11	
7	Lower Mahananda Irrigation Scheme	Katihar,Purnia	--	UA	XI .	165.07	0.00	0.00	0.00	165.07	165.07	165.07	82.54	60.38	0.00	0.00	0.00	60.38	60.38	2011-12	
8	Upper Mahananda Irrigation Scheme	Katihar,Purnia Kishanganj	--	UA	XI .	88.82	0.00	0.00	0.00	88.82	88.82	88.82	44.41	42.20	0.00	0.00	0.00	42.20	42.20	2011-12	
9	Western Kankai Irrigation Scheme	Katihar,Purnia	--	UA	XI .	237.44	0.00	0.00	0.00	237.44	237.44	237.44	118.72	62.44	0.00	0.00	0.00	62.44	62.44	2011-12	
10	Kamla Canal Modernisation Scheme	Madhubani	DPA	UA	XI .	32.86	0.00	0.00	0.00	32.86	32.86	32.86	32.86	39.84	0.00	0.00	0.00	39.84	39.84	2011-12	
11	Dakranala Pump Canal Scheme	Munger	--	UA		25.00	0.89	0.00	0.89	24.11	24.11	24.11	24.11	17.34	0.00	0.00	0.00	17.34	17.34	2009-10	Pauacity of Funds
12	Malai Res. Scheme	Bhojpur,Rohtas	DPA	UA	XI .	120.10	0.00	0.00	0.00	120.10	120.10	120.10	60.05	7.74	0.00	0.00	0.00	7.74	7.74	2011-12	
	Sub total (Major)					4000.42	11.16	30.00	41.16	3959.26	3959.26	3959.26	1274.66	596.14	0.00	0.00	0.00	596.14	596.14		
B	Medium Projects																				
	Sub total (Medium)	Nil																			
C	ERM Projects																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Restoration of Distribution System of Phulwaria Irrigation Scheme	Nawada	DPA	UA	X .	4.65	0.00	1.05	2.10	2.55	2.55	2.55	1.28	0.50	0.00	0.00	0.00	0.50	0.50	2007-08	
2	Restoration of Distribution System of Upper Yamuna Irrigation Scheme	Gaya	DPA	UA	X .	1.13	0.00	0.10	0.10	1.03	1.03	1.03	0.52	0.20	0.00	0.00	0.00	0.20	0.20	2007-08	
3	Restoration of Distribution System of Lokain Irrigation Scheme	Nalanda	--	UA	X .	1.84	0.00	0.47	0.47	1.37	1.00	1.00	0.69	0.20	0.00	0.00	0.00	0.20	0.20	2007-08	
4	Restoration of Distribution System of Satgharwa Reservoir Scheme	Munger	--	UA	X .	6.88	0.00	392%	3.92	2.96	1.37	1.37	1.48	1.80	0.00	0.00	0.00	1.80	1.80	2007-08	
5	Restoration of Distribution System of Hirambi Dam	Bhagalpur	--	UA	X .	5.78	0.00	0.20	0.20	5.58	5.58	5.58	2.79	0.25	0.00	0.00	0.00	0.25	0.25	2008-09	
6	Restoration of Distribution System of Kharagpur Lake	Munger	--	UA	X .	11.36	0.00	0.05	0.05	11.31	11.31	11.31	5.66	0.15	0.00	0.00	0.00	0.15	0.15	2009-10	
7	Restoration of Distribution System of Chandan Reservoir	Banka	--	UA	X .	15.95	0.00	6.04	6.04	9.91	9.91	9.91	4.96	1.75	0.00	0.00	0.00	1.75	1.75	2008-09	
8	Restoration of Distribution System of Badua Reservoir Scheme	Banka	--	UA	X .	9.78	0.00	7.45	7.45	2.33	2.33	2.33	1.17	4.75	0.00	0.00	0.00	4.75	4.75	2007-08	
9	Restoration of Distribution System of Sindhwarni Complex Reservoir Scheme	Munger	--	UA	X .	15.68	0.00	5.62	5.62	10.06	8.32	8.32	5.03	3.25	0.00	0.00	0.00	3.25	3.25	2008-09	
	Sub total (ERM)					73.05	0.00	24.90	25.95	47.10	43.40	43.40	23.55	12.85	0.00	0.00	0.00	12.85	12.85		
	Total -III					4073.47	11.16	54.90	67.11	4006.36	4002.66	4002.66	1298.21	608.99	0.00	0.00	0.00	608.99	608.99		
IV	Spl repairs of																				
	Exisstting Irrgn.Systems	NOT APPLICABLE																			
	Total ot IV																				
V	Dam Safety Measures	NIL																			
	Total of V																				
VI	Improved water	NIL																			
	Management																				
	Total of VI																				
VII	Water Development																				
a)	Sruvey & Investigations																				
1	Preparation of DPR of Bagmati Multipurpose Irrigation Scheme			NA	X .	5.00	0.00	5.00	5.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	2006-07	
2	Preparation of DPR of Indrapuri Irrigation Scheme			NA	X .	0.50	0.00	0.50	0.50	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	2006-07	
3	Preparation of DPR of Uderasthan Barrage Scheme			APP	X .	0.20	0.00	0.20	0.20	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	2006-07	
	Preparation of DPR of Interlinking of River Scheme				X .	100.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	2007-08	
	Sub Total (Sur. & Inv.)					105.70	0.00	5.70	5.70	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00		
b)	Research & Develoment																				
	Including Provisions for																				
	Jalasoudha	Nil																			
c)	Tarining	Nil																			
d)	National Hydrology																				
	Project	Nil																			
	Total VII					105.70	0.00	5.70	5.70	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Total of (IV+V+VI+VII)					105.70	0.00	5.70	5.70	100.00	100.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total					11419.40	1910.86	1202.82	3114.73	8304.67	8594.88	8594.88	3712.33	2923.99	754.00	364.00	1118.00	1805.99	1398.72		
STATE: CHHATTISGARH																					
I LIABILITIES OF COMPLETED PROJECT																					
A	MAJOR PROJECTS																				
--	Pairy & Others	Raipur			IV	16.11		16.11	16.11	0.00				73.736	73.736	0	73.736	0	0	1999	
--	Kodar	Mahasamund			V	5.53		5.53	5.53	0.00				23.472	23.472	0	23.472	0	0	1999	
--	Tandula	Durg			V	0		0.00	0.00	0.00				68.219	68.219	0	68.219	0	0	1923	
1*	Jonk	Raipur			V	14.36		14.36	14.36	0.00				14.569	7.478	5.392	12.87	1.699	0	2005	
	Sub Total					36		36.00	36.00	0.00				179.996	172.905	5.392	178.297	1.699	0		
B	Medium Projects								0.00	0.00											
--	Banki	Sarguja			V	0			0.00	0.00				3.441	3.441	0	3.441	0	0	1994	
--	Shyam Ghunghutta	Sarguja			V	4.41		4.41	4.41	0.00				13.05	13.05	0	13.05	0	0	2000	
--	Mand	R'garh, Janjgir			V	6.75		6.74	6.74	0.01				13.118	13.118	0	13.118	0	0		
--	Ghongha	Bilaspur			AP-1978-80	0.6		0.60	0.60	0.00				8.343	8.343	0	8.343	0	0	1995	
--	Gej	Koria			VI	0.4685		0.47	0.47	0.00				4.416	4.416	0	4.416	0	0	2001	
--	Kinkari	Raigarh			VI	0								4.048	4.048	0	4.048	0	0	1997	
1*	Barnai	Sarguja		APP	VI	24.09	16.0994	5.99	22.09	2.00			2.00	2.82	1.335	1.285	2.62	0.2	0.2	2006-07	
2	Uperjonk Canal	Mahasamund		UA	VII	9.89	1.007	6.99	8.00	1.89			1.89	0.86	0	0.86	0.86		0	2006-07	
3*	Shivnath	Rajnandgaon		APP	VIII			0.69						5.87	5.17	0.7	5.87	0	0	2002	
	Sub Total					46.2085	17.1064	25.8965	42.3081	3.9004	0	0	3.8886	55.966	52.921	2.845	55.766	0.2	0.2		
C	ERM Projects																				
--	Tandula Main Canal Lining, Ph-I	Durg			X	122.45	0	118.98	118.98	3.47			3.4695	13.896	0	13.896	13.896	0	0	2006-07	
--	Tandula Main Canal Lining Ph-2	Durg			X	31.97	0	15.00	15.00	16.97			16.97	5.809	0	5.809	5.809	0	0	2006-07	
	Sub Total					154.42	0	133.981	133.9805	20.4395	0	0	20.4395	19.705	0	19.705	19.705	0	0		
	Total-1					236.6285	17.1064	195.879	212.2907	24.3378	0	0	24.3281	255.667	225.826	27.942	253.768	1.899	0.2		
II ONGOING PROJECTS																					
A	MAJOR PROJECTS																				
1*	Mahanadi Proj MRP	Raipur, Dhamtari, Durg	DPA/ TA	APP	IV	845	382.16	272.27	654.43	190.57			133.399	264.311	241.556	22.512	264.068	0.243	0.243	2007-08	
2	Sondur Proj.	Dhamtari, Kanker	--	UA	V	394.1	66.19	91.52	157.71	236.39			0	38.47	9.51	2.75	12.26	26.21	26.21	2007-08	
3*	Hasdeo Bango Proj.	Korba, Rgrh, Janjgir	DPA/ TA	APP	VI	1315.88	767.24	548.64	1315.88	0.00	0	0	0	420.58	234.172	144.406	378.578	42.002	42.002	2007-08	
4	Rajeev Samvardhan Yojna Ph-II	Raipur	TA	UA	X	114.45	0	51.97	51.97	62.48			31.24	28	0	0	0	28	28	2007-08	
	Sub Total(Major)					2669.43	1215.59	964.40	2179.99	489.44	0.00	0.00	164.64	751.36	485.24	169.67	654.91	96.46	96.46		
B	Medium Projects																		0		
1*	Kosarteda	Bastar	DPA/ TA	APP	VI	71.1608	16.74	46.26	63.00	8.16			5.71	11.12	0	0	0	11.12	11.12	2010	
2	Kharkhara Mohdipat Canal	Durg	DPA/ TA	UA	IX	71.1668	2.4669	35.61	38.08	33.09			16.54	12.145	0	9	9	3.145	3.145	2009	
3	Sutiyapat	Kawardha	DPA	UA	IX	36.95	1.1038	25.25	26.35	10.60			5.30	6.96	0	0.76	0.76	6.2	6.2	2008	
4	Mongra Barrage	Rajnandgaon	DPA/ TA	APP	X	243.65	0	122.63	122.63	121.02			60.51	11.5	0	3.147	3.147	8.353	8.353	2008	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
5	Karranalla Barrage	Rajnandgaon	DPA/ TA	UA	X	39.2	0	20.00	20.00	19.20			9.60	4.1	0	0	0	4.1	4.1	2009	
6	Sukhanala Barrage	Rajnandgaon	DPA/ TA	UA	X	45.74	0	20.00	20.00	25.74			12.87	6.27	0	0	0	6.27	6.27	2009	
7	Ghumariya Barrage	Rajnandgaon	DPA/ TA	UA	X	24.78	0	20.00	20.00	4.78			2.39	3.54	0	0	0	3.54	3.54	2009	
	Sub Total(medium)					532.65	20.31	289.75	310.06	222.58	0.00	0.00	112.92	55.64	0.00	12.91	12.91	42.73	42.73		
C	E.R.M. Projects																				
1	Saroda Lining	Kawardha	DPA	UA	X	4.68	0	4.68	4.68	0.00		--		1.2	0	0.6	0.6	0.6	0.6	2008	
	Sub Total(ERM)					4.68	0.00	4.68	4.68	0.00	0.00		0.00	1.20	0.00	0.60	0.60	0.60	0.60		
	Total -II					3206.76	1235.90	1258.83	2494.73	712.03	0.00	0.00	277.56	808.20	485.24	183.18	668.41	139.78	139.78		
III NEW PROJECTS																					
A	MAJOR PROJECTS																				
1	Lower Jonk	Mahasamund	--	UA	XI	425	0	0	0	425	0	0	106.25	34	0	0	0	34	34	2012	
2	Pairy High Dam	Raipur	TA	UA	XI	465.15	0	0	0	465.15	0	0	116.288	37.212	0	0	0	37.212	37.212	2012	
3	Arpa (Bhaisajhar)	Bilaspur	DPA/TA	UA	XI	912.5	0	0	0	912.5	0	0	228.125	73	0	0	0	73	73	2012	
4	Mand D/S	Surguja	TA	UA	XI	158.5	0	0	0	158.5	0	0	39.625	12.68	0	0	0	12.68	12.68	2012	
5	Kelo Project	Raigarh	DPA/ TA	UA	X	288.08	0	9.83	9.83	278.25	275.76	0	69.5628	26.8	0	0	0	26.8	26.8	2011	
	Sub Total					2249.23	0.00	9.83	9.83	2239.40	275.76	0.00	559.85	183.69	0.00	0.00	0.00	183.69	183.69		
B	Medium & Other																				
1	Pairi Ghumar	Raipur	TA	UA	XI	45.625	0	0	0	45.625	0	0	45.63	3.65	0	0	0	3.65	3.65	2012	
2	Chhipani Augmentation	Kabirdham	--	UA	XI	46.75	0	0	0	46.75	0	0	46.75	3.74	0	0	0	3.74	3.74	2012	
3	Thataphar (Jaijaipur) Tank	Kabirdham	--	UA	XI	25	0	0	0	25	0	0	25.00	2	0	0	0	2	2	2012	
4	Urmal Jal Plawan	Raipur	TA	UA	XI	39.45	0	0	0	39.45	0	0	39.45	3.156	0	0	0	3.156	3.156	2012	
5	Lathnala D/S	Raigarh	DPA/ TA	UA	XI	45.275	0	0	0	45.275	0	0	45.28	3.622	0	0	0	3.622	3.622	2012	
6	Chandanal	Surguja	TA	UA	XI	88.6875	0	0	0	88.6875	0	0	44.34	7.095	0	0	0	7.095	7.095	2012	
7	Grogar Feeder	Surguja	TA	UA	XI	94.3875	0	0	0	94.3875	0	0	47.19	7.551	0	0	0	7.551	7.551	2012	
8	Budari Tank	Surguja	TA	UA	XI	48.75	0	0	0	48.75	0	0	48.75	8.9	0	0	0	8.9	3.9	2012	
9	Mugal Tola Tank	Kanker	--	UA	XI	50.6625	0	0	0	50.6625	0	0	25.33	4.053	0	0	0	4.053	4.053	2012	
10	Mandher Tank	Bastar	DPA/ TA	UA	XI	25	0	0	0	25	0	0	25.00	2	0	0	0	2	2	2012	
11	Marinadi D/S	Dantewara	--	UA	XI	121.4125	0	0	0	121.413	0	0	60.71	9.713	0	0	0	9.713	9.713	2012	
12	Kotapali	Dantewara	--	UA	XI	33.75	0	0	0	33.75	0	0	33.75	2.7	0	0	0	2.7	2.7	2012	
13	Devtaral	Mahasamund	--	UA	XI	62.5	0	0	0	62.5	0	0	31.25	5	0	0	0	5	5	2012	
14	Armaniya	Rajnandgaon	DPA/TA	UA	XI	30.3625	0	0	0	30.3625	0	0	30.36	2.429	0	0	0	2.429	2.429	2012	
15	Surya Nala D/S	Surguja	TA	UA	XI	103.75	0	0	0	103.75	0	0	51.88	8.3	0	0	0	8.3	8.3	2012	
16	Ghodason Talab	Surguja	TA	UA	XI	25	0	0	0	25	0	0	25.00	2	0	0	0	2	2	2012	
17	Kasison Talab	Surguja	TA	UA	XI	62.5	0	0	0	62.5	0	0	31.25	5	0	0	0	5	5	2012	
18	Sukhnai Talab	Surguja	TA	UA	XI	30	0	0	0	30	0	0	30.00	2.4	0	0	0	2.4	2.4	2012	
19	Haldimunda Ph-II	Jashpur	--	UA	XI	47	0	0.10	0.10	46.90			46.90	9.28	0	0	0	9.28	9.28	New	
20	Ibb Diversion	Jashpur	--	UA	XI	9.62	0	0.10	0.10	9.52			9.52	4.34	0	0	0	4.34	4.34	New	
21	Sapnai Div.	Raigarh	DPA/TA	UA	XI	76.39	0	0.10	0.10	76.29			38.15	7.1	0	0	0	7.1	7.1	New	
22	Khutpali Tank	Sarguja	TA	UA	XI	93.09	0	0.10	0.10	92.99			46.50	16.778	0	0	0	16.778	16.778	New	
23	Peedhapal Tank	Bastar	DPA/TA	UA	XI	60.63	0	0.10	0.10	60.53			30.27	6.073	0	0	0	6.073	6.073	New	
24	Bhimsen Ghat Div.	Dantewara	--	UA	XI	41.66	0	0.10	0.10	41.56			41.56	6.16	0	0	0	6.16	6.16		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Sub Total					1307.25	0.00	0.60	0.60	1306.65	0.00	0.00	899.80	133.04	0.00	0.00	0.00	133.04	128.04		
	ERM									Nil											
	Sub Total																				
	Total-III					3556.48	0.00	10.43	10.43	3546.05	275.76	0.00	1459.65	316.73	0.00	0.00	0.00	316.73	311.73		
IV SPECIAL REPAI FOR EXISTING IRRIGATION SYSTEM						NIL															
V DAM SAFETY MEASURES																					
1	Ravishankar Sagar Project					11.012			-	11.012											
2	Hasdeo Bango Project					1.51			-	1.51											
3	Sondur Dam					2.868			-	2.868											
4	Dudhawa Dam					9.369			-	9.369											
5	Moorumsilli Dam					1.46			-	1.46											
6	Sikasar Dam					14.788			-	14.788											
7	Tandula Dam					3.888			-	3.888											
8	Gondali Dam					5.603			-	5.603											
9	Khapri Dam					0.421			-	0.421											
10	Saroda Dam					4.389			-	4.389											
11	Chhirpani Dam					1.696			-	1.696											
12	Baherkhar Dam					1.282			-	1.282											
13	Bhoremdeo Dam					1.61			-	1.61											
	Institutional Stregthening					3.06			-	3.057											
	Total-V					62.95				62.953		62.953	62.953								
VI IMPROVED WATER MANAGEMENT						NIL															
VII WATER DEVELOPMENT																					
A	Survey & Investigation																				
	Sub total																				
B	Research & Development i/c provisions for Jalasoudha																				
	Sub total																				
C	Training																				
	Sub total																				
D	Hydrology Project - II																				
1	Surface Water	All 16 Distt.																			
2	Ground Water	All 16 Distt.		19.01.06		10.31		0.7	0.7	9.61	0	9.61									
	Sub total			19.01.06		11.2		0.38	0.38	10.82	0	10.82									
TOTAL VII						21.51		1.08	1.08	20.43		20.43	20.43								
GRAND TOTAL						7084.33	1253.01	1466.21	2718.53	4365.80	275.76	83.38	1844.92	1380.60	711.06	211.12	922.18	458.41	451.72		
STATE: GOA																					
1.	Liabilities of Completed projects																				
A	Major Projects																				
1*	SALAULI Irrigation Project	South Goa		APP	IV	170.23	146.48	23.75	170.23	0	0	0	0	14.326	7.734	6.592	14.326	0	0	2007	1)Foundation Problem 2)Govt.

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Sub Total					170.23	146.48	23.75	170.23	0	0	0	0	14.326	7.734	6.592	14.326	0	0		
B	Medium Projects																				
	Sub Total																				
C	ERM Projects																				
1	Mod. Anjunem			UA	IX	5.29	2.06	0.86	2.92	2.37			2.37	0	0	0	0	0	0		
	Sub-Total	-	-	-	-	5.29	2.06	0.86	2.92	2.37	0	0	2.37	0	0	0	0	0	0	0	
	Total of 1	-	-	-	-	175.52	148.54	24.61	173.15	2.37	0	0	2.37	14.326	7.734	6.592	14.326	0	0	-	-
ll	Ongoing Projects																				-
A	Major Projects																				-
a	Externally aided Projects																				-
	Sub-Total																				-
b	Inter State Projects																				
--*	Tillari Irrigation Project	North Goa	--	APP	VII	698.97	317.55	186.18	503.73	195.24	260.54	260.54	136.668	21.055	0.199	6.867	7.066	13.989	13.999	2009	1)Land acquisition 2) Forest clearence
	Sub-Total					698.97	317.55	186.18	503.73	195.24	260.54	260.54	136.668	21.055	0.199	6.867	7.066	13.989	13.999		
C	Pre-V Plan Projects																				
	Sub-Total																				
d	Other Projects																				
	TOTAL(MAJOR)					698.97	317.55	186.18	503.73	195.24	260.54	260.54	136.668	21.055	0.199	6.867	7.066	13.989	13.999	-	-
B	Medium Projects																				
	Sub-Total																				
C	ERM Projects																				
	Sub-Total																				
	Total of II					698.97	317.55	186.18	503.73	195.24	260.54	260.54	136.668	21.055	0.199	6.867	7.066	13.989	13.999	-	-
lll	New Project of XI plan																				
A	Major Projects																				
	Sub-Total																				
C	ERM Projects																				
	Sub-Total																				
	Total of III																				
IV	Spl. Repairs of Existing Irrgn.Systems																				
a)	Anjunem Irrigation Project		--	APP	V	37.53	30.55	6.98	37.53	0	0	0	0					0	0	2008	
	Total of IV					37.53	30.55	6.98	37.53	0	0	0	0	0	0				0		
v	Dam SafetyMeasures																				
	Total of V																				
VI	Improved water Managment																				
	Total of VI																				
VII	Water Develop-ment																				
A	Survey & Investigations	North & South Goa		APP	X	1.59		0.59	0.59	1.00	1.00	1.00	1.00	-	-						
B.	Research & Development including provisions for Jalasoudha							0.1	,0.061												
C.	Training							0.006	0.006												

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
D.	National Hydrology Project	North & South Goa	N.A.	APP	X	22.65	0.00	5.44	5.44	18.65	18.65	18.65	18.65							2012	
	Total of VII					24.24	0	6.097	6.036	19.65	19.65	19.65	19.65	0	0	0	0	0	0		
	Grand Total					936.26	348.10	199.26	547.30	214.89	280.19	280.19	156.32	21.06	0.20	6.87	7.07	13.99	14.00		
STATE - GUJARAT																					
I	Liabilities of Completed Projects																				
A	Major Projects																				
--*	Watrak					0.5	0.00	0.00	0.00	0.50	0.50	0.63	0.50	0.00	0.00	0.00	0.00	0.00	0.00		
	Sub total-					0.5				0.50	0.50	0.63	0.50	0.00	0.00	0.00	0.00	0.00	0.00		
B	Medium Projects																				
1*	Mukteshwar (AIBP)	Banaskantha, Mehsana	DPA/TA	APP	VI	51.00	45.20	5.35	50.55	0.45	0.45	0.56.	0.45	5.88	3.30	2.58	5.88	0.00	0.00	2007	Likely to be completed in 2006-8
2	Und-II	Jamnagar	DDP	APP	VII	70.00	58.50	10.03	68.53	1.47	1.47	1.84	1.47	5.31	0.80	3.12	3.92	1.39	1.39	2007	Land Acquisition Problem
3	Vartu -II	Jamnagar	DDP	UA	VIII	61.00	52.51	8.19	60.70	0.30			0.30	6.17	4.50	1.05	5.55	0.62	0.62	2007	
4*	Aji-IV (AIBP)	Jamnagar	DDP	APP	IX	118.04	78.79	32.35	111.13	6.91	6.91	8.64	4.84	3.75	0.93	0.90	1.83	1.92	1.92	2007	Land Acquisition Problem
5	Demi-III	Jamnagar/Rajkot	DDP	UA	IX	48.31	30.61	15.34	45.94	2.37	2.37	2.96	2.37	2.60	0.15	0.00	0.15	2.45	2.45	2007	
6*	Brahmani-II			APP	IX																
	Sub total (I-B)-					348.35	265.61	71.26	336.85	11.50	11.20	13.44	9.43	23.71	9.68	7.65	17.33	6.38	6.38		
C	ERM Projects																				
1	KRBC			UA	IX	30.5	27.73	2.34	30.07	0.43				4.05	0.62	0.67	1.29	2.76			
2	Sabarmati Pickup Wier			UA	IX	70.0			70.00												
	Sub total (I-C)-					100.5	27.73	2.34	100.07	0.43	0	0	0	4.05	0.62	0.67	1.29	2.76	0		
	Total - I					449.35	293.34	73.6	436.92	12.43	11.7	14.07	9.93	27.76	10.3	8.32	18.62	9.14	6.38		
II	Ongoing Projects																				
A	Major Projects																				
a	Externally aided Projects	NOT APPLICABLE																			
b	Inter state Projects																				
-	Bajajsagar	Project of Rajasthan Government and being executed by Raisthan Govt.				50	10.05	27.95	38.00	12.00	5.00	6.25	6.25			0.00	0.00	0.00			
c	Pre-V Plan Projects	NIL								0.00								0.00			
d	Other Projects																				
1*	Sardar Saro var	12 Districts**	DPA/ DDP/TA	APP	VI	45673.66	12663.76	14850.66	27514.42	18159.24	5000.00	NA	12711.47	1792.00	130.75	334.68	465.43	1326.57	NA	Beyond XI Plan	
2	Zankharoi	Surat	TA	APP	VI	90	5.06	0.00	5.06	84.94	10.00	12.50	12.50	26.40	0.00	0.00	0.00	26.40		Beyond XI Plan	
3	Sidumber	Valsad	TA/DPA	UA	IX	205.35	0.26	0.14	0.40	204.96	10.00	12.50	12.50	17.44	0.00	0.00	0.00	17.44	0.00	Beyond XI Plan	
	SubTotal(Major)					46019.01	12679.13	14878.75	27557.88	18461.14	5025.00	31.25	12742.72	1835.84	130.75	334.68	465.43	1370.41	0.00		
B	Medium Projects																				
1*	Ozat-II	Junagadh	DDP	APP	VIII	98.00	70.48	17.18	87.66	10.34	10.34	12.93	10.34	9.40	3.00	1.50	4.50	4.90	4.90	2008	Grouting of COT. Spillway gates and
2	Goma (P)	Panchmahal	TA/DPA	APP	VIII	47.59	15.29	0.60	15.89	31.70	31.70	39.63	12.68	4.89	0.00	0.00	0.00	4.89	0.00	2012	
3	Koliyari	Punchmahal	TADPA	UA	VIII	34.00	16.15	6.01	22.16	11.84	11.84	14.80	1.18	1.91	0.15	0.00	0.15	1.76	1.76	2012	
4	Limbdi Bhogavo-II	Surendranagar	DDP	UA	VIII	46.51	34.06	6.97	41.03	5.48	5.48	6.85	5.48	4.51	1.13	2.00	3.13	1.38	1.38	2008	
5*	Bhadar-II	Rajkot/Junagadh	DDP/DPA	APP	IX	119.30	68.96	20.52	89.48	29.82	29.82	37.28	11.93	9.97	0.50	0.00	0.50	9.47	9.47	2008	R&R Forest clearance and land
6	Varansi	Kheda		APP	IX	20.00	9.72	5.09	14.81	5.19	5.19	6.49	2.08	1.81	0.00	0.00	0.00	1.81	1.81	2009	
7	Chinchai lift Scheme (T)	Valsad	TA/DPA	APP	IX	31.00	8.94	6.58	15.52	15.48	15.48	19.35	6.19	7.00	0.00	3.00	3.00	4.00	4.00	2009	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8	Gunda (Utavali)	Ahmedabad	DPA	UA	IX	37.00	28.18	3.06	31.24	5.76	5.76	7.20	0.58	1.94	0.00	0.50	0.50	1.44	1.44	2008	
9	Men	Vadodara,Bharuch	TA/DPA	UA	IX	8.72	0.59	0.00	0.59	8.13	1.00	1.25	0.81	6.48	0.00	0.00	0.00	6.48	0.00	Beyond XI Plan	R&R Forest clearance and land
10	Singor	Panchmahal	TA/DPA	UA	IX	20.00	4.18	2.38	6.56	13.44	1.00	1.25	1.34	2.20	0.00	0.00	0.00	2.20	0.00	Beyond XI Plan	R&R Forest clearance and land
11	Khuntali	Valsad	TA/DPA	UA	IX	43.99	4.11	0.19	4.31	39.68	1.00	1.25	3.97	3.16	0.00	0.00	0.00	3.16	0.00	Beyond XI Plan	R&R Forest clearance and land
12	Machhu-III	Rajkot	DDP	UA	X	32.68	0.68	9.25	9.93	22.75	22.75	28.44	2.28	1.39	0.00	0.00	0.00	1.39	1.39	2008	
13	Umargam LI Scheme	Valsad	DPA/TA	UA	X	4.50	0.00	0.70	0.70	3.80	3.80	4.75	1.14	NA	0.00	0.00	0.00	0.00	0.00	2009	
14	Galkund	Dang	TA/DPA	APP	X	67.03	0.02	0.00	0.02	67.01	1.00	1.25	6.70	1.37	0.00	0.00	0.00	1.37	0.00	Beyond XI Plan	R&R Forest clearance and land
15	Chukya (T)	Dang	TA/DPA	APP	X	41.02	0.07	0.00	0.08	40.94	1.00	1.25	4.09	2.97	0.00	0.00	0.00	2.97	0.00	Beyond XI Plan	R&R Forest clearance and land
	Sub Total (Medium)					651.34	261.43	78.53	339.98	311.36	147.16	183.97	70.79	64.46	4.78	7.00	11.78	52.68	26.15		
C	ERM Projects																				
1	Prevention of Salinity Ingress HLC-I, HLC-II & HLC-III	Jamnagar, Junagarh	DDP/DPA	UA	AP 79-80																
2	Restoration of Mitti	Kachchh	DDP	UA	VII	27.00	26.20	0.01	26.21	0.79	0.80	1.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	2009	
	For Saurashtra Region (NABARD)	Bhavnagar, Porbander																			
	For Ghed Area (NABARD)		DPA			1185.15	333.89	133.35	467.24	717.91	300	375	215.37	45.00	22.62	14.31	36.93	8.07	8.00		Continuous Programme
	Tidal Regulator, Bandharas, Recharge Wells & Tanks in	Kuchchh	DDP			213.00	0.00	47.33	47.33	165.67	165.67	27.09	56.4	5.00	0.00	0.00	0.00	5.00	5.00	2008	
3	Special Requirement for Completed Projects	Whole Gujarat		UA	IX	1000	604.89	147.68	752.57	247.43	247.43	309.29									
4	Sehemes under N.W.M.P.			UA	IX	20.00	4.27	6.36	10.62	9.38	9.38	11.73		0.00	0.00	0.00	0.00	0.00	0.00		
5	Niruna Canal Works	Kachchh	DDP	UA	IX	1.10	0.10	0.02	0.11	0.99	0.00	0.00	0.99								
6	Link Canal Ukai-Gordha Weir	Surat	TA/FA	UA	IX	44.36	4.07	0.23	4.30	40.06	10.00	12.50	40.06	9.70	0.00	0.00	0.00	9.70	0.00	Beyond XI Plan	
7	Ghodathad Canal Lining	Kachchh	DPA	UA	IX	0.73	0.15	0.01	0.16	0.57	0.00	0.00	0.57								
8	Augmentation of Surface Water for Gujarat Region including tribal area	Whole Gujatat		UA	IX	40	0.00	17.71	17.71	22.29	2.29	2.86	22.29	0.00	0.00	0.00	0.00			2010	
9	Kadana Left Bank High level Canal	Panchmahal	DPA/TA	UA	IX	48	0.27	20.22	20.49	27.51	27.51	34..39	27.51	5.00	0.00	0.00	0.00	5.00	5.00	2008	
10	Extension of Dharoi RBMC	Mehsana		UA	IX	60	5.84	30.02	35.86	24.14			24.14	23.87		0.00	0.00	23.87	23.87	2009	
11	Ukai Purna High Level LBC	Surat	TA	UA	IX	74.7	5.74	31.68	37.42	37.28	37.28	46.60	37.28	9.90	0.00	0.00	0.00	9.90	5.00	2010	
	Sub Total (ERM II C)-					2714.04	985.42	434.62	1420.02	1294.02	800.36	786.07	425.4	98.47	22.62	14.31	36.93	61.54	46.87		
	Total- II					49384.39	13925.98	15391.90	29317.88	20066.52	5972.52	1001.29	13238.91	1998.77	158.15	355.99	514.14	1484.63	73.02		
III	New Projects of XI Plan																				
A	Major Projects																				
1	Kalpasar	Saurashtra	DPA	UA	Not Started	53916	5.43	26.98	32.40	53883.60	2000.00	2500.00	2500.00	NA	0.00	0.00	0.00	0.00	0.00	Beyond XI Plan	
2	Orsang	Vadodara	DPA/TA	UA	Not Started	20.36	0.00	0.00	0.00	20.36	1.00	1.25	1.25	15.07	0.00		0.00	15.07	0.00	Beyond XI Plan	R&R Forest clearance and land
3	Bhatpur	Narmada,Bharuch,	TA	UA	Not Started	114.84	0.00	0.00	0.00	114.84	1.00	1.25	1.25	21.22	0.00	0.00	0.00	21.22	0.00	Beyond XI Plan	R&R Forest clearance and land
	Sub total (Major)-					54051.2	5.43	26.98	32.40	54018.80	2002.00	2502.50	2502.50	36.29	0.00	0.00	0.00	36.29	0.00		
B.	Medium Projects																				
1	Santali	Amereli	DPA	UA	Not Started	77.5	1.34	0.15	1.49	76.01	5.00	6.25	6.25	9.00	0.00	0.00	0.00	9.00	0.00	Beyond XI Plan	Under Investigation
2	Valan (T)	Surat	TA	UA	Not Started	30.00	0.51	0.00	0.51	29.49	1.00	1.25	1.25	7.40	0.00	0.00	0.00	7.40	0.00	Beyond XI Plan	R&R Forest clearance and land
3	Jaloda(T)	Vadodara	DPA/TA	UA	Not Started	19.95	0.03	0.00	0.03	19.92	1.00	1.25	1.25	4.01	0.00	0.00	0.00	4.01	0.00	Beyond XI Plan	R&R Forest clearance and land
4	Ugta	Valsad	TA/DPA	UA	Not Started	37.16	0.05	0.06	0.11	37.05	1.00	1.25	1.25	4.96	0.00	0.00	0.00	4.96	0.00	Beyond XI Plan	R&R Forest clearance and land
5	Nani Barsan (T)	Valsad	TA/DPA	UA	Not Started	49.67	0.05	0.05	0.10	49.57	1.00	1.25	1.25	5.41	0.00	0.00	0.00	5.41	0.00	Beyond XI Plan	R&R Forest clearance and land
6	Wardha (T)	Valsad	TA/DPA	UA	Not Started	259.59	0.06	0.06	0.12	259.47	1.00	1.25	1.25	9.15	0.00	0.00	0.00	9.15	0.00	Beyond XI Plan	R&R Forest clearance and land
7	Baripada (T)	Dang	TA/DPA	UA	Not Started	62.91	0.15	0.25	0.40	62.51	1.00	1.25	1.25	2.27	0.00	0.00	0.00	2.27	0.00	Beyond XI Plan	R&R Forest clearance and land

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8	Singoda-II	Junagadh	DPA	UA	Not Started	26.3	0.56	0.61	1.17	25.13	5.00	6.25	6.25	3.50	0.00	0.00	0.00	3.50	0.00	Beyond XI Plan	Under Investigation
9	Umrecha	Banskantha	DDP/TA	UA	X	14.97	0.05	2.65	2.70	12.27	12.32	15.40	12.32	6.45	0.00	0.00	0.00	6.45	6.45	2009	
10	Ani (T)	Vadodara	DPA/TA	UA	Not Started	8.12	0.23	0.23	0.46	7.66	1.00	1.25	1.25	3.52	0.00	0.00	0.00	3.52	0.00	Beyond XI Plan	R&R Forest clearance and land
11	Wadhwan Bhagvo-II	Surendranagar	DDP	UA	Not Started	23.00	0.09	0.09	0.18	22.82	5.00	6.25	6.25	3.29	0.00	0.00	0.00	3.29	0.00	Beyond XI Plan	
12	Chichpada (T)	Dang	TA/DPA	UA	Not Started	50.84	0.00	0.00	0.00	50.84	1.00	1.25	1.25	2.80	0.00	0.00	0.00	2.80	0.00	Beyond XI Plan	R&R Forest clearance and land
13	Khataamba (T)	Navsari	DPA	UA	Not Started	11.02	0.00	0.00	0.00	11.02	1.00	1.25	1.25	2.96	0.00	0.00	0.00	2.96	0.00	Beyond XI Plan	R&R Forest clearance and land
14	Mahupada (T)	Narmada	DPA	UA	Not Started	50.21	0.00	0.00	0.00	50.21	1.00	1.25	1.25	3.64	0.00	0.00	0.00	3.64	0.00	Beyond XI Plan	R&R Forest clearance and land
15	Manmodi (T)	Dang	DPA/TA	UA	Not Started	42.21	0.00	0.00	0.00	42.21	1.00	1.25	1.25	2.35	0.00	0.00	0.00	2.35	0.00	Beyond XI Plan	R&R Forest clearance and land
16	Nani Pavthi	Sabarkantha	DPA/TA	UA	Not Started	15.8	0.01	0.01	0.02	15.78	1.00	1.25	1.25	1.22	0.00	0.00	0.00	1.22	0.00	Beyond XI Plan	R&R Forest clearance and land
17	Amba Irrigation Scheme	Valsad	DPA/TA	UA	Not Started	67.97	0.00	0.00	0.00	67.97	1.00	1.25	1.25	6.35	0.00	0.00	0.00	6.35	0.00	Beyond XI Plan	PR State
18	Rana Khirasara	Porbandar	DPA	UA	Not Started	50.00	0.00	0.01	0.01	49.99	1.00	1.25	1.25	NA	0.00	0.00	0.00	0.00	0.00	Beyond XI Plan	
19	Hanmatmal	Valsad	DPA/TA	UA	Not Started	28.98	0.00	0.00	0.00	28.98	1.00	1.25	1.25	2.24	0.00	0.00	0.00	2.24	0.00	Beyond XI Plan	PR State
20	Vadgam	Sabarkantha	DPA/TA	UA	X	22.09	0.01	0.05	0.06	22.03	0.01	0.01	0.01	5.46	0.00	0.00	0.00	5.46	0.00	2012	
21	Wadhwan Bhogavo-III	Surendranagar	DDP	UA	Not Started	50.00	0.00	0.00	0.00	50.00	1.00	1.25	1.25	NA	0.00	0.00	0.00	0.00	0.00	Beyond XI Plan	
	Sub Total-					998.29	3.14	4.22	7.36	990.93	43.33	54.16	51.08	85.98	0.00	0.00	0.00	85.98	6.45		
C	ERM Projects																				
1	Sujalam Suflam Spreading Canal (Kadna Recharge canal) & Distribution network of Sujalam- Sufalam	Gandhinagar,Sabar-kantha,Mehsana, Patan,Banaskantha	DPA/TA	Unpproved	X	940.00	0.06	524.29	524.35	415.65	415.65	519.56	415.65	80.00	0.00	0.00	0.00	80.00	80.00	2007	
2	Link of Bhadar M.C. with KRBC	Punchmahal	DPA/TA	Unpproved	X	4.13	0.09	2.52	2.61	1.52	1.52	1.90	1.52	6.52	0.00	0.00	0.00	6.52	6.52	2008	
3	I R B P Sabarmati River	Mehsana		UA	Not Started	2.00	0.04	0.01	0.05	1.95	1.65	2.44	0.00	0.00	0.00	0.00	0.00				
4	Gajensar Canal Works	Kachchh	DDP	UA	Not Started	2.00	0.05	0.00	0.05	1.95	0.00	0.00	1.95								
5	i) Dharoi (Sabarmati) L.B.H.L. Canal	Sabarkantha,	DDP	UA	Not Started	40.00	0.01	0.00	0.01	39.99			39.99	15.00		0.00	0.00	15.00	15.00	2009	
	II) Dharoi (Sabarmati) L.B.Main Canal	Sabarkantha,	DDP	UA	Not Started	25.36	0.00	1.42	1.42	23.94	23.94	29.93	2.39								
6	Dharoi Project- Sipor loop Canal	Mehsana		UA	X	10.00	0.00	10.04	10.04	-0.04			0.00	2.10		0.00	0.00	2.10	2.10	2009	
7	Panam High Level Canal (T)	Panchmahal	DPA/TA	UA	X	130.00	0.38	23.83	24.21	105.79	105.79	132.24	52.90	18.00	0.00	0.00	0.00	18.00	18.00	2009	
8	Prevention of Salinity Ingress South Gujarat Region Region(NABARD)	Bharuch, Narmada, Surat, Valsad, Navsari	DPA/TA	UA	IX	2.30	4.96	17.42	22.38	-20.08	100.00	125.00	62.29	54.40	0.00	0.00	0.00	54.40	5.00		Continuous Programme
	Sea Erosion Protection Work	South Gujarat		UA	Not Started	160.00	0.00	0.00	0.00	160.00	160.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2012	
9	Fategadh Raising of Dam	Kachchh	DDP	UA	Not Started	10.00	0.16	0.00	0.16	9.84	0.00	0.00	9.84								
10	Suvi Raising of Dam	Kachchh	DDP	UA	Not Started	8.00	0.19	0.01	0.20	7.80	0.00	0.00	0.00								
11	Nara Raising of Dam	Kachchh	DDP	UA	Not Started	11.50	0.15	0.02	0.17	11.33	0.00	0.00	11.33								
12	Dantiwada-Sipu Lnk Canal	Bznaskantha	DPA/TA	UA	Not Started	10.00	0.00	0.00	0.00	10.00			10.00	NA		0.00	0.00	0.00	0.00	2009	
13	Remodelling of Kharicat Canal	Ahmedabad	DPA	UA	X	3.50	0.00	3.10	3.10	0.40											
14	Lining of Main Canal of Singoda	Amreli	DPA	Unpproved	Not Started	1.10	0.00	0.00	0.00	1.10	0.00	0.00	1.10								
15	Sukhi-Deo Link	Vadodara	DPA/TA	UA	Not Started	1.00	0.00	0.00	0.00	1.00	0.50	0.63	0.63	NA	0.00	0.00	0.00	0.00	0.00	2008	
16	Sabarmati Pickup Wier (Vataman)	Ahmedabad	DPA	UA	X	5.40	0.00	1.49	1.49	3.91	3.91	4.89	3.91	2.00	0.00	0.00	0.00	2.00	2.00	2008	
17	Surajbari Pickup Wier	Kachchh	DDP	UA	Not Started	150.00	0.00	0.00	0.00	150.00	1.00	1.25	1.25	NA	0.00	0.00	0.00	0.00	0.00	2012	
18	Mahor Pick Up Wier	Kheda		UA	Not Started	66.73	0.00	0.00	0.00	66.73	1.00	1.25	1.25	NA	0.00	0.00	0.00	0.00	0.00	Beyond XI Plan	PR State
19	Mahi Pick up Wier	Kheda		Unpproved	X	39.00	0.00	17.44	17.44	21.56	20.00	25.00	21.56	8.00	0.00	0.00	0.00	8.00	8.00	2009	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
20	Narmada Pickup Weir	Narmada	DPA	UA	Not Started	200.00	0.00	1.00	1.00	199.00	1.00	1.25	1.25	NA	0.00	0.00	0.00	0.00	0.00	Beyond XI Plan	Investigation Stage
21	Harnav-Guhai Link Canal	Sabarkantha,	DPA/TA	UA	Not Started	10.00	0.00	0.09	0.09	9.91			9.91	NA		0.00	0.00	0.00	0.00	2008	
22	Dharoi Reverse Canal	Mehsana	DPA	UA	Not Started	10.00	0.00	5.59	5.59	4.41			4.41	NA		0.00	0.00	0.00	0.00	2009	
23	Kadana Right Bank Ccanal System	Punchmahal	DPA/TA	UA	Not Started	36.00	29.06	5.41	34.47	1.53	1.53	1.91	1.53	4.05	1.13	1.92	3.05	1.00	1.00	2007	
24	1 MAFT Flood Water for Irr. and Ground Water Recharge	Surendranagar, Rajkot, Amreli						0.00	0.00	0.00											
	Extn. from Kalubhar to Dhatarwadi and Machhu to Futzar.		DPA/DDP	UA	Not Started	515.00	0.00	0.00	0.00	515.00	200.00	250.00	250.00	NA	0.00					Beyond XI Plan	
	NMC to Piyaj Dharoi Pipe Line(II nd Line)			UA	Not Started	341.00		0.00	0.00	341.00			341.00	10.00	0.00	0.00	0.00	10.00	10.00	2008	
	NMC to Modhera to Dharoi Pipelines	Mehsana, Patan, Banaskantha	DDP/TA	UA	Not Started	468.51	0.00	468.51	468.51	0.00			0.00	NA	0.00	0.00	0.00	0.00	0.00	2008	
25	Sabarmati-Saraswati Link Canal	Mehsana		UA	Not Started	10.00	0.00	0.64	0.64	9.36			9.36	NA		0.00	0.00	0.00	0.00	Comp.	
26	Fatewadi ERM	Ahmedabad	DDP	UA	Not Started	85.58	0.00	0.00	0.00	85.58	85.58	106.98	8.56	25.20	0.00			25.20			
27	Kakrapar Project and Ukai R.B.Canal System	Sutrat	TA	UA	Not Started	196.20	0.00	0.00	0.00	196.20	196.20	245.25	19.62	25.21	0.00			25.21			
	Sub Total-					3494.31	35.15	1082.83	1117.98	2376.33	1319.27	1649.48	1283.20	250.48	1.13	1.92	3.05	247.43	147.62		
	Total - III					58543.80	43.72	1114.03	1157.74	57386.06	3364.60	4206.14	3836.78	372.75	1.13	1.92	3.05	369.70	154.07		
IV	Special Repairing of Irrigation System																				
1	Mod. of Irrigation Scheme for old canals	Whole Gujarat			VIII	400.00	39.43	28.07	336.97	63.03	63.03	78.79	78.79								
V	Danm Safety measures																				
	Dam Safety including Safety of earthquake damaged Dams					315.00	36.53	173.29	209.82	105.18	50.00	62.50	62.50	0.00	0.00						
VI	Improved Water Management																				
1	Interbasin Transer of Narmada Water to River of North Saraswati, Rupen, banas, etc. Rivers and Rivulates		DPA	UA		100.00	0.00	0.48	0.48	99.52	50.00	62.50	62.50	NA	0.00	0.00	0.00	0.00	0.00	Beyond XI Plan	
2	Imp. of Irr. Management through Farmer' Participation					50.00	16.58	2.72	19.30	30.70	30.70	38.38	38.38	0.00	0.00						
3	Draingage Including Drains of North Gujarat	Whole Gujarat				420.00	165.86	34.12	199.98	220.02	100.00	125.00	125.00							Continuous Programme	
VII	Water Development																				
	Water Development Service					131.00	109.41	0.34	109.75	21.25	21.25	26.56	0.00	0.00	0.00	0.00	0.00	0.00			
A	Survey and Investigations																				
	Survey and Investigation for Damanganga Sabarmati Link	Saurashtra	DPA/TA	UA		10.00	0.00	0.02	0.02	9.98	10.00	12.50	12.50	NA	0.00	0.00	0.00	0.00	0.00	Beyond XI Plan	
B	Research and Development including Jalsaudha																				
1	Scheme for Project of Hydro Plus Mechanism towards Augmenting Storage Capacity	Whole Gujarat				105.00	26.37	2.63	28.99	76.01	10.00	12.50	12.50							2009	
2	Special provision for Information Technology including Computerisation of Irrigation Offices	Whole Gujarat				54.00	0.89	1.42	2.31	51.69	51.69	64.61	64.61							Continuous	
3	Special Requirement for Computer Schemes	Whole Gujarat				1000.00	640.89	147.68	752.57	247.43	247.43	309.29									
C	Training																				
D	National Hydrology Projrect					108.00	54.58	25.71	80.29	27.71	27.71	34.64	34.64	0.00	0.00	0.00	0.00	0.00	0.00		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Sub Total (IV to VII)-					2693.00	1090.54	416.48	1740.48	952.52	661.81	827.27	491.42	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total-					111070.54	15353.58	16996.01	32653.02	78417.53	10010.63	6048.77	17577.04	2399.28	169.58	366.23	535.81	1863.47	233.47		
* * 12 Districts benefitting SSP- Bharuch, Panchmahal,Ahmedabad,Gandhinagar,Mehsana,Banaskantha,Kuchchh,Vadodara,Rajkot,Bhavnagar,Surendranagar & Sabarkantha														DPA= Drought Prone Area, DDP= Drought Development Plan, TA= Tribal Area.							
DETAILED PROPOSALS FOR XI PLAN (2007-12)																					
STATE - HARYANA																					
I	Liabilities of Completed Projects																				
A	Major Projects								Nil												
1	Rewari Lift Stage II	Jhajhar,Rewari, Gurgaon	DDP	APP	III	43.25	33.53	9.72	43.25	0.00				8.00	0.00		8.00	0.00			
2	Loharu Lift	Bhiwani,Ambala	DDP	APP	IV	75.53	43.77	1.81	45.58	29.95			29.95	82.00	73.00		73.00	9.00			
3*	Gurgaon Canal	Gurgaon,Faridabad	DDP	APP	III												0.00	0.00			
4*	JLN Lift Irrigation	Rohtak,Bhiwani, Mahendragarh	DDP	APP	V	245.75	182.17	8.10	190.27	55.48			38.84	164.00	95.00		95.00	69.00			
	Total Major					364.53	259.47	19.63	279.10	85.43	0.00	0.00	68.79	254.00	168.00	0.00	176.00	78.00	0.00		
B.	Medium Projects	Nil							Nil												
C.	ERM Projects																				
1*	WRCP			APP	VIII	1993.170	1937.810	0.00	1937.81	55.36			55.36	155.500	107.660	6.22	113.88	41.62			
	Sub-total					1993.170	1937.810	0.000	1937.810	55.360	0.000	0.000	55.360	155.500	107.660	6.222	113.882	41.618	0.000		
	Total -I					2357.700	2197.280	19.630	2216.910	140.790	0.000	0.000	124.146	409.500	275.660	6.222	289.882	119.618	0.000		
II.	Ongoing Projects																				
A	MAJOR PROJECTS																				
1	SYL Project(Punjab portion)	Whole State	DDP	UA(TAC)	VI	601.25	487.93	3.79	491.72	109.53			54.765								
	Sub Total (Major)					601.25	487.93	3.79	491.72	109.53	0.00	0.00	54.77	0.00	0.00	0.00	0.00	0.00	0.00		
B	MEDIUM PROJECTS		NIL					Nil													
C	ERM																				
1	Improvement/Reconditioning and Remodelling of old existing canals.	NA	--	UA	VII	460.730	299.890	0.00	299.89	160.84			80.42	96.000	2.000	36.076	38.076	57.924			
	Sub Total ERM					460.730	299.890	0.000	299.890	160.840	0.000	0.000	80.420	96.000	2.000	134.08	38.076	57.924	0.000		
	Total -II					1061.98	787.82	3.79	791.61	270.37	0.00	0.00	135.19	96.00	2.00	134.08	38.08	57.92	0.00		
III.	New Projects of																				
	XI Plan																				
A	Major Projects																				
1.	Mewat Lift Irr.Project	Gurgaon	--	UA		207.54	0.00		0.00	207.54			51.89	44.00				44.00		Beyond X	
2.	Gharaunda Irr.Project	Karnal	--	UA		15.00	0.00		0.00	15.00			7.50	12.00				12.00		X Plan	
3.	Ladwa Lift Project	NA	--	UA		40.00	0.00		0.00	40.00			20.00	13.00				13.00		X Plan	
4.	Nalvi Irr.Project	Ambala	--	UA		200.00	0.00		0.00	200.00			100.00	47.00				47.00		Beyond X	
5.	Kandi Area Irr.Project	NA	--	UA		50.00	0.00		0.00	50.00			25.00	_				_		Beyond X	
	Sub Total					512.54	0.00		0.00	512.54	0.00	0.00	204.39	116.00	0.00	0.00	0.00	116.00			
B	Medium Projects																				
1	Jattipur Minor& Passina Subminor	NA	--	UA		5.00	0		0.00	5.00			5.00	5.00				5.00		X plan	
2	Nardak Disty	NA	--	UA		5.00	0		0.00	5.00			5.00	NA							
3	Feeder Channels of Agra Canal system	NA	--	UA		10.00	0		0.00	10.00			10.00	NA							

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Sub Total					20.00	0.00		0.00	20.00			20.00	5.00	0.00	0.00	0.00	5.00	0.00	0.00	0.00
C	ERM																				
1	Increasing Cap. Of	NA	--	UA		50.00	0.00		0.00	50.00			50.00	NA							
	Channels falling sweet water																				
	zone																				
2	Improving Cap of pumps	NA	--	UA		100.00	0.00		0.00	100.00			50.00	NA							
	& Installing new pumps																				
3	Mod. Of W.J.C U/s Dadupur to Aug head & Remodelling of Aug Canals	NA	--	UA		100.00	0.00		0.00	100.00			50.00	NA							
4	Imp. Of environment up keep of Badkhal & SurajKhund Lakes	*NA*	--	UA		1.500	0.11		0.11	1.39				NA							
	Sub Total					251.50	0.11	0.00	0.11	251.39	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Total -III					784.04	0.11	0.00	0.11	783.93	0.00	0.00	374.39	121.00	0.00	0.00	0.00	121.00	0.00		
IV	Spl.repairs of Existing Irrigation System																				
	Total of IV																				
V	Dam Safety Measures																				
	Total of V																				
VI	Improved water Management																				
	Total of VI																				
VII	Water Development																				
	Total of VII																				
A	Survey & Investigations																				
B.	Research & Developmnet Including Provisions for																				
C.	Training																				
D.	National Hydrology Project																				
	Total of VII																				
	Grand Total					4203.72	2985.21	23.42	3008.63	1195.09	0.00	0.00	633.72	626.50	277.66	140.30	327.96	298.54	0.00		
STATE: HIMACHAL PRADESH																					
I	Liabilities of Completed Projects	Nil																			
	Total-I					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
II	Ongoing Projects																				
	Major Project.																				
1*	Shahnehar.	Kangra	-	APP	VIII	278.36	63.00	93.45	156.45	121.91	121.91	121.91	85.34	24.76	0.455	2.1	2.555	22.205	12.732	2009	Delay in release of funds of Buniab
	Sub Total					278.36	62.9997	93.4546	156.4543	121.91	121.91	121.91	85.337	24.76	0.455	2.1	2.555	22.205	12.732		
	Medium Project.																				
1*	Sidhatha	Kangra	-	APP	IX	54.51	3.74	29.80	33.54	20.97	20.97	20.97	14.68	5.348	0.145	0.04	0.185	5.163	5.163	2009	Non availability of suffiecient funds
2*	Changer Area medium Irrigation .	Bilaspur	-	APP	IX	75.30	1.66	12.87	14.53	60.77	60.77	60.77	42.54	3.041	0	0.176	0.176	2.865	2.865	2009	Non availability of suffiecient funds
3	Balh Valley (Left Bank).	Mandi	-	APP	X	77.30	0	1.50	1.50	75.80	75.80	75.80	37.90	4.354	0	0	0	4.354	4.354	3/2012	
	Sub Total					207.11	5.40	44.17	49.57	157.54	157.54	157.54	95.12	12.74	0.15	0.22	0.36	12.38	12.38		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Total of II	4 Nos.				485	68	138	206.02	279.45	279.45	279.45	180.46	37.50	0.60	2.32	2.92	34.59	25.11		
III	New Projects of X Plan	Nil																			
A	Major Project.	Nil																			
	Sub Total	Nil																			
B	Medium Project.																				
--	Phina Singh	DPR submitted to GoI for Rs. 63.00 crore with CCA 4650 ha. in the year 2003 and the approval is awaited due to some clarifications sought by GoI.																			
--	MIP for Village Jalari Bhumpal & Putrial	DPR submitted to GoI for Rs. 51.58 crore with CCA 2210.8 ha. in the year 2006 and the approval is awaited due to some clarifications sought by GoI.																			
	Sub Total																				
C	E. R. M. Project.																				
--	Improvement of reservior & distribution system of Left Bank Canal in Tehsil Paonta Sahib Distt. Sirmour.	Proposal submitted to GoI under Bharat Nirman for Rs. 3.075 crore in the year 2006 and the approval is awaited.																			
	Sub Total																				
	Total -III	NIl				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IV	Special repair of existing system	Nil																			
	Total of IV	Nil																			
V	Dam Safety Measure.	Nil																			
	Total of V	Nil																			
VI	Improvement Water Mangament.	Nil																			
	Total of VI	Nil																			
VII	Water Development	Nil																			
	Total of VII	Nil																			
A	Survey & Investigation	Nil																			
	Bara Solda Nagrota Surian Medium Irrigation Project.	Kangra Under Investigation																			
B	Research & Development I/c Provision for Jalasoudha.	Nil																			
C	Training	Setting up WALMI in the State.																			
D	National Hydrology Project																				
	Hyrdology Project -II	The project is under implementation with the APP cost of Rs. 49.5038 crore funded by world Bank for which aggrement has been singed on 19 January, 2006						2.41	2.41	47.09	47.09	47.09	47.09								
	Total of VII.	Nil																			
	Grand Total :-					485.47	68.40	140.04	208.44	326.54	326.54	326.54	227.55	37.50	0.60	2.32	2.92	34.59	25.11		
	STATE-JAMMU&KASHMIR																				
I	Laibilties of completed project																				
	Major Projects	Nil						Nil													
	Medium Projects																				
1*	Lethpora Lift	Phulwama	--	APP	IV	10.04	7.52	1.33	8.85	1.19			1.19	3.20	0.95	1.51	2.46	0.74	0.74		
2*	Igo-Phey Irrg. Project	Leh	DDP	APP	AP 78-80	49.03	37.52	7.81	45.33	3.70			3.70	4.37	3.22	1.10	4.32	0.05	0.05		
	Total Medium					59.07	45.04	9.14	54.18	4.89	0.00	0.00	4.89	7.57	4.17	2.61	6.78	0.79	0.79		
	ERM Projects																				
1*	Mod. of Zaingir Canal	Baramula	--	APP	VII	13.660	9.890	1.29	11.18	2.48			2.48	5.290	4.930	0.36	5.29	0.00	0.00		
2*	Mod. of Kathua Canal	Kathua	--	UA(TAC)	VII	15.680	8.460	3.42	11.88	3.80			3.80	3.600	0.180	3.42	3.60	0.00	0.00		

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Total ERM					29.340	18.350	4.710	23.060	6.280	0.000	0.000	6.280	8.890	5.110	3.780	8.890	0.000	0.000		
	Total -I					88.41	63.39	13.85	77.24	11.17	0.00	0.00	11.17	16.46	9.28	6.39	15.67	0.79	0.79		
II	ONGOING																				
	(A) Major Projects	Nil																			
	(B) Medium Projects																				
1*	Marwal Lift	Phulwama,Budgam	--	APP	IV	25.16	16.28	5.54	21.82	3.34			2.34	11.42	3.56	0.00	3.56	7.86	7.86		
2	Niv-Karewa	Phulwama, Budgam	--	APP	IV	4.50	3.12	0.00	3.12	1.38			1.38	4.20	0.00	0.00	0.00	4.20	4.20		
3*	Koil Lift	Phulwama		APP	V									2.33	0.15		0.15	2.18			
4*	Rajpora Lift	Phulwama	--	APP	AP78-80	31.64	6.17	6.93	13.10	18.54			12.98	2.43	0.00	0.00	0.00	2.43	2.43		
5*	Tral Lift	Phulwama	--	APP	AP78-80	70.33	10.44	13.04	23.48	46.85			32.80	6.00	0.00	0.00	0.00	6.00	6.00		
6*	Rafiabad High Lift	Baramula	--	APP	VII	35.60	20.45	6.92	27.37	8.23			5.76	2.93	0.00	0.00	0.00	2.93	2.93		
	Sub Total (Medium)					167.23	56.46	32.43	88.89	78.34	0.00	0.00	55.25	29.31	3.71	0.00	3.71	25.60	25.60		
(C) ERM Projects																					
1	Mod. of Dadi Canal	Anantnag	--	APP	VII	10.910	5.970	1.29	7.26	3.65			3.65	3.100	2.410	0.00	2.41	0.69	0.69		
2	Mod. of Martand Canal	Anantnag	--	APP	VII	17.720	8.750	1.53	10.28	7.44			3.72	4.340	4.130	0.00	4.13	0.21	0.21		
3*	Mod. of Ranbir Canal	Jammu	--	APP	VII	170.000	46.360	12.07	58.43	111.57			78.10	9.270	2.395	0.50	2.90	6.38	6.38		
4*	Mod. of New Pratap Canal	Jammu	--	UA(TAC)	VII	25.000	8.910	3.49	12.40	12.60			8.82	1.350	0.454	0.57	1.02	0.33	0.33		
	Sub-Total (ERM)					223.630	69.990	18.383	88.373	135.257	0.000	0.000	94.287	18.060	9.389	1.07	10.46	7.60	7.60		
	Total-II					390.86	126.45	50.81	177.26	213.60	0.00		149.54	47.37	13.10	1.07	14.17	33.20	33.20	0.00	
III	New Projects of XI Plan																				
	Major Projects		Nil																		
	Medium Projects																				
1	Kandi Canal Bhaderwah	Doda	--	UA	XI	53.7		0.00	0.00	53.70			26.85	3.22				3.22		XI plan	
2	Ambaran	Jammu	--	UA	IX	99	0.51	0.00	0.51	98.49			49.245	5.22				5.22		XI plan	
3	Lar Khul Sophian	NA	--	UA	IX	37.85	1.21	0.00	1.21	36.64			18.32	0.12				0.12		2006-07	
4	Lar Canal Ganderal	NA	--	UA	IX	6.08	0.22	0.00	0.22	5.86			5.86	1.75				1.75		2006-07	
5	Dab Canal Ganderal	NA	--	UA	IX	5.41	0.15	0.00	0.15	5.26			5.26	1.87				1.87		2006-07	
6	Sonmun Khul Kulgam	NA	--	UA	IX	4.58	0.68	0.00	0.68	3.90			3.9	1.66				1.66			
	Sub Total					206.62	2.77	0	2.77	203.85	0	0	109.435	13.84	0	0	0	13.84	0	0	0
	ERM Projects																				
1	Mod of Ahaji canal Budgam	NA	--	UA	IX	7.96	2.19	0.00	2.19	5.77			2.885	6.71				6.71		2006-07	
2	Mod of Mav Khul Kulgam	NA	--	APP	IX	7.00	1.07	0.00	1.07	5.93			2.965	3.83				3.83		2006-07	
3	Mod Babul canal Tangmarg	NA	--	APP	IX	4.15	0.87	0.00	0.87	3.28			3.28	1.87				1.87		2006-07	
4	Mod. Of Nandi canal Kulgam	NA	--	APP	IX	4.97	1.22	0.00	1.22	3.75			3.75	2.36				2.36		2006-07	
5	Lar canal budgam	NA	--	UA	IX	6.63	1.06	0.00	1.06	5.57			2.785	2.13				2.13		2006-07	
	Sub Total					30.71	6.41	0	6.41	24.3	0	0	15.665	16.9	0	0	0	16.9	0	0	0
	Total-III					237.33	9.18	0.00	9.18	228.15	0.00	0.00	125.10	30.74	0.00	0.00	0.00	30.74	0.00	0.00	0.00
	Total-IV-VIII					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total					716.60	199.02	64.66	263.68	452.92	0.00	0.00	285.81	94.57	22.38	7.46	29.84	64.73	33.99		

STATE- JHARKHAND

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
I	Liabilities of Completed Projects																				
A	Major Projects																				
	Sub total																				
B	Medium Projects																				
1	Sakrigali			APP	V																
2*	Tapkara Res. Sch.	Gumla	TA	APP	VI	4.93	4.34	0.04	4.38	0.55			0.55	1.86	1.20	0.66	1.86			2002-03	
3*	Kansjore Res. Sch.	Gumla	TA	APP	VII	52.97	40.61	1.24	41.85	11.12			11.12	4.50	3.00	1.50	4.50			2006-07	
4	Katri Res. Sche	Gumla	TA	UA	VII	47.97	44.79	2.26	47.05	0.92			0.92	5.82	2.61	3.21	5.82			2006-07	
5	Dhansingh Toli Res.	Gumla	TA	UA	VII	29.52	25.82	1.02	26.84	2.68			2.68	2.99		2.99	2.99			2006-07	
6*	Latratu Res. Sch.	Ranchi	TA	APP	VII	41.06	41.02	0.04	41.06	0.00			0.00	9.90	7.00	2.90	9.90			2002-03	
	Sub total					176.45	156.58	4.60	161.18	15.27	0.00	0.00	15.27	25.07	13.81	11.26	25.07	0.00	0.00	0.00	0.00
C	ERM Projects																				
	Sub total																				
	Total of(A+B+C)					176.45	156.58	4.60	161.18	15.27	0.00	0.00	15.27	25.07	13.81	11.26	25.07				
II	Ongoing Projects																				
A	Major Projects																				
a	Externally aided Projects		NIL																		
b	Inter state Projects																				
	North Koel Project	Palamu, Aurangabad	DPA/TA	(TAC) UA	V	814.72	501.60	8.00	509.60	305.12	150	150	150	11.2	3.60		3.6	7.60	7.60	2009-10	
	Batane Res. Project	Palamu, Aurangabad	DPA/TA	APP	V	60.83	45.83	1.00	46.83	14.00	20	20	20	1.66	0.45		0.45	1.21	1.21	2009-10	
	Sub total					875.55	547.43	9.00	556.43	319.12	170.00	170.00	170	12.86	4.05	0.00	4.05	8.81	8.81		
c	Pre-V Plan Projects	NIL								0.00			0					0.00			
	Sub total					0	0	0	0	0	0	0	0	0	0	0	0	0	0		
d	Other Projects												0								
1	Suberanrekha Multi.	E&W Singhbhum	TA	(TAC) UA	V	2869.76	985.92	463.3	1449.22	1420.54	1420.54	1705	1136.43	170		11.08	11.08	158.92	158.92	2011-12	Forest land & land acquisition
	Project							0	0	0			0								
2	Ajay Barrage Project	Deoghar, Dumka	TA/DPA	(TAC) UA	V	351.84	190.76	71.4	262.16	89.68	89.68	103.5	89.68	40.18		1.40	1.40	38.78	38.78	2008-09	Forest land & land acquisition
3	Konar Irrigation Project	Giridih/ Hazaribagh	DPA	TAC	V	348.38	110.09	51.68	161.77	186.61	186.61	261.5	93.305	62.79				62.79	62.79	2011-12	land acquisition
	Auranga Res. Project	Palamu	DPA/TA	APP	VII	1150.00	32.88	77.65	110.53	1039.47	1040.00	1143.5	519.735	66				66.00	40.00	2014-15	Forest land & land acquisition
4	Punasi Res. Project	Deoghar	DPA	(TAC) UA	VII	446.01	91.38	24.4	115.78	330.23	331.00	363.5	165.115	24				24.00	24.00	2011-12	Forest land & land acquisition
5	Bateshwarasthan Pump	Bagalapur, Godda	DPA/TA	UA	X	503.38		1	1	502.38	100	100	100.00	8.6				8.60	8.60	2011-12	
	Sub total					5669.37	1411.03	689.43	2100.46	3568.91	3167.83	3677	2104.27	371.57	0	12.48	12.48	359.09	333.09		
	SubTotal (Major)					6544.92	1958.46	698.43	2656.89	3888.03	3337.83	3847.00	2274.27	384.43	4.05	12.48	16.53	367.90	341.90		
B	Medium Projects																				
1*	Gumani Barrage Project	Sahebganj/Pakur	TA/DPA	APP	V	162.58	74.34	42.87	117.21	45.37	45.37	50	31.759	16.19				16.19	16.19	2008-09	land acquisition
2	Jharjhara Res. Sch.	W.Singhbhum	TA	APP	V	70.55	1.12	10.05	11.17	59.38	59.38	65.50	29.69	4.86				4.86	4.86	2010-11	Forest land & land acquisition
3	Kans Res. Sch.	Ranchi/Singhbhum	TA	APP	V	44.17	26.80	0.08	26.88	17.29	4.00	4.00	4.00	3.73				3.73	1.00	2013-14	land acquisition & Rehabilitation
4*	Torai Res. Sch.	Pakur	DPA	APP	V	62.57	27.40	0.05	27.45	35.12	4.00	4..00	4..00	8.00				8.00	1.00	2013-14	land acquisition & Rehabilitation
5	Suru Res. Sch.	Saraikela	--	APP	VI	56.32	2.77	17.17	19.94	36.38	36.38	40.50	18.19	4.44				4.44	4.44	2010-11	Forest land & land
6*	Sonua Res. Sch.	W. Singhbhum	TA	APP	VI	82.65	43.56	35.01	78.57	4.08	4.28	14.00	4.08	8.08		2.00	2.00	6.08	5.08	2008-09	Forest land & land
7*	Upper Sankh Res.Sch.	Gumla	TA	APP	VII	137.43	30.19	71.53	101.72	35.71	35.71	39.50	25.00	7.07	0.00	2.30	2.30	4.77	4.77	2008-09	land acquisition & Rehabilitation

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
8*	Surangi Res. Sch.	Ranchi/Singhbhum	TA	APP	VII	57.42	30.58	14.12	44.70	12.72	12.72	14.00	8.90	2.6		0.5	0.5	2.1	2.1	2008-09	land acquisition & Rehabilitation
9	Keso Res. Sch.	Hazaribagh/	DPA	APP	VII	67.70	3.99	4.00	7.99	59.71	59.71	66.00	29.86	3.56				3.56	3.56	2011-12	
10*	Punchkhero Res. Sch.	Hazaribagh, Giridih	DPA	APP	VII	54.73	11.42	30.61	42.03	12.70	12.70	14.00	12.70	3.08	0.00	0.00	0.00	3.08	3.08	2008-09	land acquisition & Rehabilitation
11	Bhairwa Res. Sch.	Hazaribagh/	DPA	APP	VII	67.27	15.00	41.80	56.80	10.47	10.47	13.00	10.47	4.80				4.80	4.80	2010-11	Forest land & land
12	Nakti Res. Sch.	W.Singhbhum	TA	APP	VII	35.16	11.15	8.99	20.14	15.02	15.02	18.50	12.02	2.25				2.25	2.25	2009-10	Forest land & land
13	Salaiya Res. Sch.	Gumla	TA	UA	VIII	45.78	0.00	0.26	0.26	45.52	45.52	50.00	22.76	2.67				2.67	2.67	2011-12	Forest land & land
14	Satpotka Res. Sch.	W.Singhbhum	TA	UA	VIII	33.64	0.06	0.05	0.11	33.53	33.53	43.00	16.77	2.35				2.35	2.35	2011-12	land acquisition & Rehabilitation
15	Ramrekha Res. Sche.	Gumla	TA	UA	VIII	53.87	1.53	15.02	16.55	37.32	37.32	45.00	18.66	4.60				4.60	4.60	2010-11	Forest land & land
16	Garhi Res. Sch.	Chatra	DPA	UA	IX	121.64		44.15	44.15	77.49	77.49	97.00	38.75					0.00	0.00	2009-10	
	Sub Total (Medium)					1153.48	279.91	335.76	615.67	537.81	493.60	574.00	283.59	78.28	1153.48	4.80	4.80	73.48	62.75		
C	ERM Projects																				
	Sub total(ERM)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Total of(A+B+C)					7698.40	2238.37	1034.19	3272.56	4425.84	3831.43	4421.00	2557.86	462.71	304.80	17.28	21.33	441.38	404.65		
III	New Projects of XI Plan																				
A	Major Projects																				
1	Burhai Res. Sch.	Deoghar	DPA	UA	XI	363.04	-	0.50	0.50	362.54	263.00	399.00	90.64	14.81				14.81	4.81	2013-14	
2	Kanhar Res. Sch.	Garhwa	DPA	UA	XI	1266.00	-			1266.00	300.00	300.00	300.00	60.00				60.00	-	2015-16	
3	Tahle Res. Sch.	Palamu/	DPA/TA	UA	XI	335.00	-			335.00	220.00	220.00	83.75	9.98				9.98	3.00	2013-14	
	Sub total (Major)					1964.04	0.00	0.50	0.50	1963.54	783.00	919.00	474.39	84.79	0.00	0.00	0.00	84.79	7.81		
B.	Medium Projects																				
1	Sukri Res. Sch.	Lohardaga	TA	UA	XI	8.33		0.50	0.50	7.83	7.83	8.00	8.00	0.60				0.60	0.60	2010-11	
2	Tilaiya Res. Sch.	Koderma	DPA	UA	XI	19.90		0.50	0.50	19.40	19.40	19.50	19.50	2.87				2.87	2.87	2011-12	
3	Domani Nala Res. Sch.	Gorhwa	DPA	UA	XI	50.00				50.00	25.00	25.00	25.00	1.75				1.75	-	2014-15	
4	Kulhar Res.Sch.	Palamu/	DPA/TA	UA	XI	50.00				50.00	20.00	20.00	20.00	0.80				0.80	-	2014-15	
	Sub Total					128.23		1.00	1.00	127.23	72.23	72.50	72.50	6.02	0.00	0.00	0.00	6.02	3.47		
C	ERM Projects											-									
1	Tapkara Res. Sch.	Gumla	TA	UA	X	15.00				15.00	20.00	20.00	15.00	1.80				1.80	1.80	2010-11	
2	Latratu Res. Sch.	Ranchi	TA	UA	XI	10.00				10.00	20.00	20.00	10.00	3.60				3.60	3.60	2010-11	
3	Palna Res. Sch.	W.Singhbhum	TA	UA		20.00				20.00	20.00	20.00	20.00	2.30				2.30	2.30	2010-11	
4	Sona Irri. Sch.	Saraikela, Kharsawan	--	UA	XI	15.00				15.00	15.00	15.00	15.00	2.40				2.40	2.40	2010-11	
5	Sunder Res. Sch.	Godda	DPA/TA	UA	XI	10.00				10.00	15.00	15.00	10.00	1.80				1.80	1.80	2010-11	
6	Kajia Weir Sch.	Godda	DPA/TA	UA	XI	8.00				8.00	10.00	10.00	8.00	2.60				2.60	2.60	2010-11	
7	Anraj Res. Sch.	Garhwa	DPA	UA	XI	10.00				10.00	10.00	10.00	10.00	1.70				1.70	1.70	2010-11	
8	Chirka res. Sch.	Garhwa	DPA	UA	XI	12.00				12.00	12.00	12.00	12.00	1.60				1.60	1.60	2010-11	
9	Bayi Banki Res. Sch.	Garhwa	DPA	UA	XI	15.00				15.00	15.00	15.00	15.00	1.90				1.90	1.90		
	Sub Total					115.00	0.00	0.00	0.00	115.00	137.00	137.00	115.00	19.70	0.00	0.00	0.00	19.70	19.70		
	Total of (A+B+C)					2207.27	0.00	1.50	1.50	2205.77	992.23	1128.50	661.89	110.51	0.00	0.00	0.00	110.51	30.98		
IV	Spl repairs of existingIrrigation System	All over Jharkhand						52.80	52.80	0.00	60.00	60.00									
	Total ot IV						0	52.80	52.80	0.00	60.00	60.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00		
V	Dam Safety Measures					0	0	0.15	0.15	-	15.00	15									
	Total of V					0	0	0.15	0.15	0	15	15	15	0	0	0	0	0	0		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
VI	Improved water																				
	Management																				
	Total of VI						0	0	0	0	10	10	10	0	0	0	0	0	0		
VII	Water Development																				
A	Survey & Investigations					0.00	0.00	2.53			20.00	20.00	20.00								
	Sub Total (Sur. & Inv.)					0.00	0.00	2.53	0.00	0.00	20.00	20.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00		
B	Research & Develoment																				
	Including Provisions for																				
	Jalasoudha																				
	1. E-Governance							1.18	1.18	-	5.00	5.00									
	2. Constitution of							0.33	0.33	-	1.00	1.00									
	Jharkhand Irri. Comm.																				
	3. Bench Marking of Sch.							0.10	0.10	-	1.00	1.00									
	4. Renovation of Vehicle/							1.17	1.17	-	5.00	5.00									
	Purchase of new vehicle.							0.50	0.50		14.00	14.00									
	5. Renovation of old																				
	Buildings																				
	Sub Total							3.28	3.28	0.00	26.00	26.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Training																				
D	National Hydrology							0.26	0.26	0.00	1.00	1.00									
	Project																				
	Total of VII						0.00	6.07	3.54	0.00	47.00	47.00	47.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total					10082.12	10078.84	1099.31	3491.73	6646.88	4955.66	5681.50	3367.01	598.29	10078.84	28.54	46.40	551.89	435.63	0.00	
STATE-KARNATAKA																					
I	Liabilities of Completed Projects																				
A	MAJOR PROJECTS																				
--*	Ghataprabha I & II	Bijapur & Belgaum			Pre-Plan & I Plan	72.26	72.26	0	72.26	0				139.380	139.380		139.380				
--	Tunga Anicut	Shimoga			Pre-Plan	3.31	3.31	0	3.31	0				8.700	8.700		8.700				
--	Tungabhadra RB LLC	Bellary			Pre-Plan	4.53	4.53	0	4.53	0				37.504	37.504		37.504				
	TOTAL -I					80.100	80.100	0.000	80.100	0.000	0.000	0.000	0.000	185.584	185.584	0.000	185.584	0.000	0.000		
B	MEDIUM PROJECTS																				
1*	Maskinala	Raichur	DPA	APP	V	49.00	37.14	8.49	45.63	3.37	3.54	3.37	3.37	3.001	0.000	2.001	2.001	1.000		2007-08	Land acquisition, legal problems
--	Soudagar	Gulbarga & Bidar			V	5.57	5.57	0	5.57	0				1.417	1.417		1.417				
--	Nallur Ammannikere	Mysore			V	5.17	5.17	0	5.17	0				1.215	1.215		1.215				
2	Chulkinala	Bidar		APP	V	70.00	70.00	0	70	0				4.047	4.047		4.047				
3	Votehole	Hassan		APP	V	52.50	44.75	7.52	52.27	0.23	0.23	0.23	0.23	7.487	6.814	0.000	6.814	0.673	0.67	2006-07	Land Acquisition
--	F.C.to Ranikere	Chitradurga			AP 78-80	9.49	9.49	0	9.49	0				0.590	0.590		0.59				
4	Uduthorehalla	Chamarajanagar		-	AP 78-80	235.00	128.83	73.29	202.12	32.88	32.88	32.88	32.880	6.602	1.983	4.602	6.585	0.017	0.02	2006-07	Forest clearance
--	Chiklihole	Kodagu		-	AP 78-80	19.02	17.46	1.74	19.2	-0.18	0.00	0.00	-0.02	0.865	0.834	0.000	0.834	0.031	0.03	2006-07	----
5	Nanjapur L.I.S	Mysore, Mandya		-	IX	33.01	8.29	24.72	33.01	0	0.00	0.00		4.049	0.000	4.049	4.049	0.000	0.00	2006-07	Land Acquisition

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	TOTAL B					478.76	326.70	115.76	442.46	36.30	36.65	36.48	36.46	29.27	16.90	10.65	27.55	1.72	0.72		
C	ERM	NIL																			
	TOTAL-I					558.860	406.800	115.760	522.560	36.300	36.649	36.480	36.462	214.857	202.484	10.652	213.136	1.721			
II	ONGOING PROJECTS																				
A	MAJOR PROJECTS:																				
1*	Malaprabha	Belgaum, Bijapur & Dharwad	DPA	APP	II	934.00	592.62	287.83	880.45	53.55	56.23	53.55	625.47	218.191	188.059	22.941	211.000	7.191		2007-08	GOI Clearance, legal problems and land acquisition
2	Kabini	Chamarajanagar Mysore	DPA.TA	UA	II	1233.00	378.41	166.92	545.33	687.67	877.66	877.66	343.84	94.434	41.075	3.432	44.507	49.927	49.927	2011-12	Scope of work
3	Tungabhadra HLC (IS)	Bellary		APP	III	75.4	75.36	0.00	75.36	0.00			0.00								
4	Harangi	Hassan, Kodagu, Mysore	DPA	UA	III	429.00	315.14	102.44	417.58	11.42	12.59	12.59	11.42	54.591	41.770	6.369	48.139	6.452	6.452	2008-09	Forest clearance
5	Hemavathy	Hassan, Mandya, Mysore, Tumkur	DPA.TA	UA	AP 66-69	5771.00	1448.58	673.00	2121.58	3649.42	4657.69	4657.69	1824.71	283.602	185.425	42.337	224.382	59.220	59.220	2011-12	Magnitude of work
6	Bennithora	Gulbarga	DPA	APP	IV	315.05	196.18	105.61	301.79	13.26	14.62	13.26	13.26	20.236	0.000	11.476	11.476	8.760		2008-09	Paucity of funds & land acquisition
7	Hipparagi	Belgaum & Bagalkot	DPA	UA	IV	1113.00	42.21	177.26	219.47	893.53	985.12	893.53	446.77	70.070	0.000	0.000	0.000	70.070	70.00	2008-09	Legal problems, Land acquisition & R&R
8*	Karanja	Bidar	DPA	APP	IV	457.04	284.78	172.26	457.04	0.00	0.00	0.00		35.614	14.784	15.306	30.09	5.524	8.686	2008-09	Paucity of funds, GOI clearance.
9	Varahi (West flowing)	Dakshina Kannada	TA	UA, SPD	AP 78-80	569.5	27.78	136.00	163.78	405.75	469.71	405.75	202.88	15.702	0.000	1.072	1.072	14.630	14.63	2009-10	GOI clearance, paucity of funds
10	Yagachi	Hassan	DPA	UA	VI	330.00	141.58	78.38	219.96	110.04	127.39	127.39	110.04	14.97	0.495	5.823	6.32	8.66	8.66	2009-10	Legal problem, Railway crossing
11	Upper Tunga	Shimoga, Dharwad Chitradurga	DPA	UA	AP 90-92	1644.1	88.84	556.48	645.32	998.78	1101.15	998.78	499.39	94.700	0.000	20.000	20.000	74.700	74.700	2008-09	GOI Clearance, legal problems and land acquisition
..	Dudhganga	Belgaum	DPA	UA	AP 90-92	124.00	12.68	44.94	57.62	66.38	69.70	66.38	33.19	19.668	0.000	5.080	5.080	14.588		2007-08	Inter-State & forest clearance
12	Markendeya	Belgaum	DPA	UA	AP 90-92	341.72	70.78	199.87	270.65	71.07	74.62	71.07	71.07	32.375	0.000	14.383	14.383	17.992		2007-08	Forest clearance
13*	U.K.P. Stage-I U.K.P. Stage-II	Bijapur, Gulbarga, Bagalkot	DPA	APP	AP 66-69 VIII	9479.59	6770.65	2433.73	9204.38	275.21	303.42	275.21	275.21 0.00	622.02	392.225	192.93	585.16	36.87	36.86	2008-09	GOI Clearance, R&R , legal problems & land acq.
14	Bhima Lift	Gulbarga	DPA	UA	VIII	275.53	6.24	106.96	113.20	162.33	178.97	162.33	162.33	24.282	0.000	0.000	0.000	24.282	24.282	2008-09	Land acquisition & GOI clearance
15	Singatlur	Bellary, Gadag & Koppal	DPA	UA,SPD	IX	595.00	24.52	96.86	121.38	473.62	522.17	473.62	236.81	47.750	0.000	0.000	0.000	47.750	47.75	2008-09	GOI clearance
	TOTAL A					23686.9	10476.4	5338.5	15814.9	7872.0	9451.0	9088.8	4856.4	1648.2	863.8	341.1	1201.6	446.6	401.2		
B	MEDIUM PROJECTS																				
1	Manchanabele	Bangalore (R)	DPA	APP	IV	80.00	67.47	12.50	79.97	0.03	0.03	0.033	0.03	2.908	1.245	1.663	2.908			2008-09	Land Acquisition
2	Amarja	Gulbarga	DPA	APP	V	219.45	94.10	30.71	124.81	94.64	99.37	94.64	94.64	8.903	0.000	0.000	0.000	8.903		2007-08	Paucity of funds, legal hurdles
3*	Hirehalla	Koppal	DPA	APP	V	246.36	135.83	71.62	207.45	38.91	40.86	38.91	27.24	8.330	1.645	6.061	7.706	0.624		2007-08	R&R, land acquisition, paucity
4	Lower Mullamari	Gulbarga	DPA	APP	V	160.20	110.51	45.81	156.32	3.88	4.07	3.88	3.88	9.713	0.000	0.000	0.000	9.713		2007-08	Land acquisition, R&R, legal
5	Arkavathy	Bangalore (R)	DPA	UA	V	150.00	75.12	50.28	125.40	24.60	28.48	28.48	24.60	6.232	0.00	3.035	3.035	3.197	3.20	2009-10	Scope of work
6	Iggalur	Bangalore (R)	DPA	UA	AP- 78-80	80.00	48.45	21.45	69.90	10.10	11.69	11.69	10.10	4.251	4.251	0.000	4.251	0.000	0.00	2009-10	Land Acquisition
7	Kamasamudra L.I.S	Hassan	DPA	UA	VI	40.00	20.41	15.08	35.49	4.51	5.22	5.221	4.51	3.916	0.000	2.100	2.100	1.816	1.816	2009-10	Land Acquisition
8	Hodirayanhalla	Chikkamagalur	DPA.,TA	UA	VII		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	0.000		2007-08	Forest clearance
9	Huchanakoplu L.I.S	Hassan	DPA	UA	AP 90-92	40.00	15.11	14.74	29.85	10.15	11.19	11.19	10.15	3.360	0.00	2.555	2.555	0.805	0.81	2008-09	Scope of work
10	Basapura lift	Haveri	DPA	UA, SPD	VIII	26.96	1.25	15.93	17.18	9.78	10.78	9.78	9.78	2.276	0.000	1.500	1.500	0.776	0.776	2008-09	Paucity of funds Land acquisition.
11*	Gandhorinala	Gulbarga	DPA	APP	VIII	203.00	56.17	119.13	175.30	27.70	29.09	27.70	19.39	8.094	0.422	6.254	6.676	1.418		2007-08	Legal problems
12	Itagi Sasalwad lift	Gadag	DPA	UA, SPD	VIII	20.45	0.62	19.83	20.45	0.00	0.00	0.00	0.00	1.983	0.000	1.000	1.000	0.983	0.983	2008-09	Paucity of funds
13	Harinala	Belgaum	DPA	UA	IX	69.78	29.73	29.24	58.97	10.81	11.35	10.81	10.81	4.370	0.500	2.980	3.48	0.890		2007-08	R&R, paucity of funds

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
14	Y-Kaggal		DPA	UA, SPD	X	13.00	0.00	5.91	5.91	7.09	7.82	7.09	2.13	2.688	0.000	0.400	0.400	2.288		2008-09	Paucity of funds
15	Badanavalu	Mysore	DPA,TA	UA	X	50.00	0.00	8.02	8.02	41.98	46.28	46.28	41.98	3.27	0.00	0.00	0.00	3.265	3.265	2008-09	To be started
16	Banahalli Hundi L.I.S.	Mysore	DPA,TA	UA	X	21.00	0.00	10.00	10.00	11.00	11.55	11.55	11.00	1.77	0.00	0.00	0.00	1.774	1.77	2007-08	To be started
17	Kachenahalli L.I.S	Hassan	DPA	UA	X	68.30	2.95	11.91	14.86	53.44	61.86	61.86	53.44	3.48	0.00	0.00	0.00	3.480	3.48	2009-10	Land Acquisition
18	Javalahalla	Belgaum	DPA	UA	X	4.38	0.00	4.38	4.38	0.00	0.00	0.00	0.00		0.000	0.000	0.000				Paucity of funds
19	Hiranyakeshi	Belgaum	DPA	UA	X	30.00	0.00	8.89	8.89	21.11	23.27	21.11	21.11	0	0.000	0.000	0.000	0.000			Paucity of funds
20	Guddadamallapura	Haveri	DPA	UA	X	60.00	0.00	19.30	19.30	40.70	44.87	40.70	40.70	5.261	0.000	0.000	0.000	5.261			Land acquisition
21	Ubrani amrutapura	Chikkamagalur, Davangere	DPA,TA	UA	X	96.41	0.00	10.05	10.05	86.36	95.21	86.36	43.180		0.000	0.000	0.000	0.000			Land acquisition & paucity of funds
22	Rameshwari LIS	Belgaum	DPA	UA	X	16.04	0.00	16.04	16.04	0.00	0.00	0.00	0.00	13.800	0.000	0.000	0.000	13.800			Paucity of funds
23	Bennihalla	Gadag	DPA	UA	X	17.33	0.00	10.00	10.00	7.33	8.08	7.33	7.33		0.000	0.000	0.000	0.000			Paucity of funds
24	Kolchi LIS	Gadag	DPA	UA	X	2.25	0.00	0.00	0.00	2.25	2.48	2.25	2.25		0.000	0.000	0.000	0.000			Paucity of funds
25	Konnur LIS	Gadag	DPA	UA	X	6.15	0.00	0.00	0.00	6.15	6.78	6.15	6.15		0.000	0.000	0.000	0.000			Paucity of funds
26	Bellary nala	Belgaum	DPA	UA	X	138.28	0.00	26.92	26.92	111.36	122.77	111.36	55.68	8.700	0.000	0.000	0.000	8.700		-	Paucity of funds
27	Kenchanagudda	Bellary	--	UA	X	5.15	0.00	3.00	3.00	2.15	2.37	2.15	2.15	0.809	0.000	0.000	0.000	0.809		2008-09	
	TOTAL B					1864.5	657.7	580.7	1238.5	626.0	685.5	646.5	502.2	104.1	8.1	27.5	35.6	68.5	16.1		
C	ERM PROJECTS																				
1*	Ghataprabha-III	Bijapur & Belgaum	DPA	APP	IV	1116.00	468.13	549.75	1017.88	98.12	103.03	98.12	68.68	178.064	78.524	82.115	160.639	17.425		2007-08	GOI Clearance, R&R and land
2	Taraka	Mysore	DPA,TA	UA	IV	55.00	23.42	28.96	52.38	2.62	2.89	2.889	2.62	7.040	7.040	0.000	7.040	0.000	0.000	2008-09	Forest clearance
3	D.D.Urs Canal	Mysore, Mandya	DPA,TA	UA	AP 78-80	390.00	279.55	101.30	380.85	9.15	9.15	11.90	9.15	32.375	19.150	13.208	32.358	0.017	0.000	2006-07	Railway tunnel work
4	K.R.S. Modn.	Mysore, Mandya	DPA,TA	UA	AP 78-80	350.00	277.80	58.87	336.67	13.33	16.20	16.20	13.33	2.125	2.024	0.000	2.024	0.101	0.101	2011-12	---
5	Shimsha Modernisation	Mandya	--	UA	X	3.30	1.32	0.00	1.32	1.98	2.29	129.11	1.98	0.00	0.00		0.00	0.000	0.000	2009-10	----
	Sub Total					1914.30	1050.22	738.88	1789.10	125.20	133.56	258.22	95.76	219.60	106.74	95.32	202.06	17.54	0.10	0	
	Total -II					27465.71	12184.29	6658.16	18842.45	8623.26	10270.07	9993.56	5454.36	1971.93	978.63	464.02	1439.27	532.65	417.36		
III	NEW Projects of XI Plan																				
	Major Projects																				
1	Ramthala Lift	Bijapur	DDP	UA	X	218.00	0	0.00	0.00	218.00	240.35	218.00	218.00	22.260	0.000	0.000	0.000	22.260	22.26	2008-09	GOI clearance
	Sub Total					218.00	0.00	0.00	0.00	218.00	240.35	218.00	218.00	22.26	0.00	0.00	0.00	22.26	22.26		
	Medium Projects																				
1	Purigali L.I.S	Mysore	DPA,TA	UA	XI	93.00	0.00	0.00	0.00	93.00	118.69	118.69	93.000	0.000	0.000	0.000	0.000	0.000	0.00	2010-11	----
2	Upper Bhadra (Stage 1)	Chitradurga, Tumkur.	DPA,TA	UA	X	2813.00	0.00	0.50	0.50	2812.50		2812.50	1406.250		0.000	0.000	0.000	0.000	Under investigation		Forest clearance & land acquisition
3	Kalasanala	Belgaum	DPA	UA	X	44.78	0.00	0.87	0.87	43.91	48.41	43.91	43.910		0.000	0.000	0.000	0.000	-	-	Forest & GOI clearance
4	Banduranala	Belgaum	DPA	UA	X	49.20	0.00	0.52	0.52	48.68	53.67	48.68	48.680		0.000	0.000	0.000	0.000	-	-	
5	Kollur LIS			UA	X		0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.000	0.000	0.000	0.000	-	-	
6	Thimmapura	Haveri	DPA	UA	X	20.6	0.00	0.06	0.06	20.57	22.68	20.57	20.570	1.690	0.000	0.000	0.000	1.690	-	2008-09	
	Sub Total					3020.6	0.0	2.0	2.0	3018.7	243.5	3044.4	1612.4	1.7	0.0	0.0	0.0	1.7	0.0		
	Total of New Projects					3238.6	0.0	2.0	2.0	3236.7	483.8	3262.4	1830.4	24.0	0.0	0.0	0.0	24.0	22.3		
	ERM PROJECTS	Nil	Nil																		
	Total of (IV+V+VI+VII)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total					31263.2	12591.1	6775.9	19367.0	11896.2	10790.5	13292.4	7321.2	2210.7	1181.1	474.7	1652.4	558.3	439.6	0.0	0.0
STATE-KERALA																					
I	Liabilities of Completed Projects																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Major																				
--	Pazhassi	Kannur	TA	APP	III	162.00	157.11	0.00	157.11	4.89				23.66		23.66	23.66	0			
--	Kanhirapuzha (Winding up)	Palakkad	TA	APP	III	112.00	11.95	30.68	42.63	69.37			69.37	21.853		16.348	16.348	5.505			
1*	Kallada (Winding up)	Kallam, Pathnamthitta	--	APP	III	714.00	644.07	9.60	653.67	60.33				80.579		65.875	65.875	14.704			
	Total-1					988.00	813.13	40.28	853.41	134.59	0.00	0.00	69.37	126.09	0.00	105.88	105.88	20.21	0.00		
II	Ongoing Projects																				
A	Major Projects																				
1*	Muvattupuzha Valley Irrigation Project	Iddukki, Kottayam, Ernakulam	TA	APP	V	684.00	354.38	304.64	659.02	24.98		35.00	17.49	37.737	9.6	17.929	27.529	10.208		2007	Delay in getting forest land and lack of fund.
2	Idamalayar Irrigation Project	Ernakulam, Thrissur	--	UA/TAC	VI	430.00	120.11	137.38	257.49	172.51		70.00	172.51	29.036			14.142	14.894			
3	Kuriyarkutty Karapara (MRBC)	Palakkad	TA	UA	VIII	197.00	12.36	31.24	43.60	153.40		100.00	76.70					0			
	Sub total(Major)					1311.00	486.85	473.26	960.11	350.89	0.00	205.00	266.70	66.77	9.60	17.93	41.67	25.10	0.00		
B	Medium Projects																				
1	Karapuzha	Waynad	TA	APP	V	362.00	182.93	66.79	249.72	112.28		112.88	112.28	8.721				8.721			Partial commissioning of
2	Attapady	Palakkad	TA	UA	V	196.00	9.81	1.38	11.19	184.81		182.5	92.405	8.378				8.378			Approval of project report clearance of
3	Banasurasagar Irrigation Projectr	Waynad	TA	UA	VIII	109.12	6.87	9.37	16.24	92.88		72	46.44	4.74				4.74			Delay in land
4	Chiturpujha		TA	APP																	
	Sub Total(Medium)					667.12	199.61	77.54	277.15	389.97	0.00	367.38	251.13	21.84	0.00	0.00	0.00	21.84	0.00		acquisition
C	ERM Projects																				
1	Bridge cum Regulator at Chamravattom	Malapuram	TA	UA	IX	82.00	7.4	2.21	9.61	72.39		72.39	36.195								The project is proposed to be taken certain new
2	Bridge cum Regulator at Thirthala	Palakkad	TA	UA	IX	71.47	10.76	60.71	71.47	0.00											Sufficient fund is not seen provided in the budget for
	Sub Total(ERM)					153.47	18.16	62.92	81.08	72.39	0.00	72.39	36.20	0.00	0.00	0.00	0.00	0.00	0.00		
	Total-II					2131.59	704.62	613.72	1318.34	813.25	0.00	644.77	554.02	88.61	9.60	17.93	41.67	46.94	0.00	0.00	
III	NEW PROJECTS																				
A	Major Projects																				
1	Meenachil River Valley Project	Kottayam	TA	UA	VIII	197.34	5.31	12.30	17.61	179.73		198.00	44.93								
B	Medium Projects																				
1	Palakapandy	Palakkad	TA	UA	XI	10.30		0.00	0.00	10.30			10.3								2006-07 which may delay the
C	ERM Projects	Nil																			
	Total (New)					207.64	5.31	12.30	17.61	190.03	0.00	198.00	55.23	0.00	0.00	0.00	0.00	0.00	0.00		
IV	SPECIAL REAPIRS OF EXISTING IRRIGATION SYSTEM																				
v	DAM SAFETY MEASURES					0.00															
a	2701-80-800-92- Dam safety Organistion							0.13	0.13	0.00	0.00	2.50									
b..	4701-80-800--87 Dam safety Measures						NIL	1.05	1.05	0.00	0.00	20.00									
	Total(dam Safety)					0.00	0.00	1.17	1.17	0.00	0.00	22.50	22.50	0.00	0.00	0.00	0.00	0.00			
VI	IMPROVED WATER MANAGEMENT																				
	RIVAMPING AND EFFICIENT MANAGEMENT PROGRAMME																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	Neyar	TVPM	Consolidated Administrative sanction accorded for 50 crores	1998-99		5.90	2.83	3.64	0.10	0.18	0.00	0.18								2007-08	
2	Gayathri	Palkad		1998-99		4.65	2.20	1.03	0.10	1.42	0.00	1.42								2007-08	
3	Walayar	Palkad		1998-99		5.60	1.89	0.11	0.14	3.00	0.00	3.00								2007-08	
4	Peechi	Thrissur		1998-99		5.10	4.05	1.18	0.10	0.00	0.00	0.00								2006-07	
5	Cheerakuzhy	Thrissur		1998-99		3.60	0.90	1.73	0.15	1.50	0.00	1.50								2007-08	
6	Vazhani	Thrissur		1998-99		3.60	2.84	0.42	0.10	0.34	0.00	0.34								2007-08	
7	Mangalam	Palkad		1998-99		6.70	2.97	0.94	0.13	2.30	0.00	2.30								2007-08	
8	Malampuzha	Palkad		1998-99		6.93	3.82	1.26	0.00	0.00	0.00	0.00								2006-07	
9	Pothundy	Palkad		1998-99		4.52	3.26	0.46	0.10	0.30	0.00	0.30								2007-08	
10	Regulators of Thrissur Kole Lands	Thrissur		1998-99		2.90	0.25	1.43	0.15	1.20	0.00	1.20								2007-08	
11	Kuttiadi	Kannur		2004-05		15.80	0.00	2.24	0.15	13.75	0.00	13.75								2008-09	
12	Chittupuzha	Palkad		2004-05		17.50	0.00	0.87	0.10	11.89	0.00	11.89								2008-09	
13	Pambar Basin	Pathanamthitta,Alappuzha		2004-05		49.00	0.00	1.04	0.10	3.87	0.00	3.87								2008-09	
14	PVIP	Ernakum				24.84	0.00	0.42	0.10	21.88	0.00	21.88								2008-09	
	Total-VI					156.64	25.01	16.79	1.52	61.63	0.00	61.63	61.63	0.00	0.00	0.00	0.00	0.00	0.00		
VII	WATER DEVELOPMENT																				
	A . SURVEY AND INVESTIGATION																				
	Noolpuzha Irrigation Project	Wayanad		Est.APP		0.32			0.05	0.27	0.00	0.32				Survey and Investigation Work				2006-07	
	4701-80-005-87 Investigation and Design					0.00	0.06	0.70	0.00	0.00	2.50										
	4701-80-800-94 Investigation of Major Irrigation Scheme					13.98	2.41	6.57	0.00	0.00	0.00										
	Kadamanthodu Irrigation Project	Wayanad		Est.APP		0.25			0.04	0.21	0.00	0.25								2006-07	
	Chundalipuzha	Wayanad		Est.APP		0.31			0.03	0.28	0.00	0.31								2006-07	
	Kallampathy	Wayanad		Est.APP		0.41			0.06	0.35	0.00	0.41								2006-07	
	Cheghat	Wayanad		Est.APP		50.00			0.10	0.40	0.00	50.00.								2006-07	
	Challyar-medium schemes & its tributories	Malappuram	Feasibility report	2001		0.35			0.08	0.00	0.00	0.35								2008-09	
	Moonamkadavu Irrigation Project	Kasargod	Investigation	1981		1.21			0.21	1.00	0.00	1.21								2007-08	
	VCB at Mukkamkadavu in Thalakkulathu Pt. Kozhikode	Kozhikode	Investigation	2007-08		0.02			0.00	0.02	0.00	0.02								2006-07	
	Meenachill River Valley Project	Idukki, Kottayam	As accorded	1981-82		0.96			0.00	0.00	0.00	0.96								2006-07	
	Pambar Basin		accorded			0.00			0.00	0.08	0.00	0.00									
	Vattavada Scheme	Idukki	Detailed project report			0.08			0.00	0.06	0.00	0.08								2007	
	(Vattavada Dam, Ottamaram		project report			0.00			0.00	0.00	0.00	0.00									
	Padagiri Dam, Kottakompu Dam)		under preparati			0.00			0.00	0.00	0.00	0.00									
	Thalayar Scheme (Thalayar Dam).	Idukki	Investigation	2006-07		0.08			0.00	0.03	0.00	0.08								2007	
	Eravikulam Dam, Upperchatta					0.00			0.00	0.00	0.00	0.00									
	Munnar Dam, Lower Chatta					0.00			0.00	NIL	0.00	0.00									
	Munnar Dam).					0.00			0.00	NIL	0.00	0.00									
	Chenagallar Scheme (Kanthalloor	Idukki	do	2006-07		0.06			0.00	NIL	0.00	0.06								2007-08	
	Dam, Pattissery Dam,Pullardy Dam)					0.00			0.00	0.00	0.00	0.00									
	Chempakkad Scheme	Idukki	do	2006-07		0.03			0.00	NIL	0.00	0.03								2007-08	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	(Chempakkad Weir)					0.00			0.00	0.00	0.00	0.00									
	Thekkady Ar. Irrigation Project	Polakkad	Feasibility study	2007-08		0.00			0.00	0.00	0.00	0.00									
	Kolavallur Project in Ottamnuzha	Kannur	do	2007-08		0.68			0.00	NIL	0.00	0.68								2008-09	
	Keezhattur Irrigation Project	Kannur	do	2007-08		0.40			0.00	NIL	0.00	0.40								2008-09	
	in Anjarakandipuzha					0.00			0.00	0.00	0.00	0.00									
	Andur Irrigation Project in	Kannur	do	2007-08		0.60			0.00	NIL	0.00	0.60								2008-09	
	Valapattanam Riover					0.00			0.00	NIL	0.00	0.00									
	Medium Irrigation Prject	Kannur	do	2007-08		0.40			0.00	0.00	0.00	0.40								2008-09	
	in Kuppam River					0.00			0.00	NIL	0.00	0.00									
	Medium Irrigation Project in	Kasargod	do	2007-08		0.34			0.00	0.00	0.00	0.34								2008-09	
	Mogral River	Kasargod	do			0.00			0.00	0.00	0.00	0.00									
	Dharmakkeri Irrigation Project in	Tvpm	do	2007-08		0.34			0.00	NIL	0.00	0.34								2008-09	
	Shiriya River					0.00			0.00	0.00	0.00	0.00									
	SUBTOTAL(SURVEY AND INVESTIGATION)					70.81	2.47	7.27	0.57	2.69	2.50	6.83	6.83	0.00	0.00	0.00	0.00	0.00	0.00		
B	Research and Development																				
a	4701-80-800-99 Development of Kerala					0.7971	0.275	0.4451	0	0	2.85										
	Engg. Research Institute of (KERI)					0	0	0	0	0	0										
C a	4701-80-800-83 Water Resources					0	0	0	0	0	0										
	Revamping & Consolidation Prog.					26.5856	2.1326	8.0897	0	0	0										
b	4701-80-800-83 Water Resources					NIL	NIL	0.5035	0	0	0										
	Revamping & Efficient Management					0	0	0	0	0	0										
	Of Irrigation System					0	0	0	0	0	0										
C a	4701-80-800-96 Post-facto					0.1319	0.0203	0.1605	0	0	0.5										
	Evaluation Studies					0	0	0	0	0	0										
	Sub Total(Research and Development					27.5146	2.4279	9.1988	0	0	3.35	3.35	3.35								
	National Hydrology Project					7.75	9.445	8.47	17.917	7.75		7.75	7.75								
	Total of VII					106.08	14.35	24.94	18.48	10.44	5.85	17.93	17.93	0.00	0.00	0.00	0.00				
	GRAND TOTAL					3589.95	1562.41	709.20	2210.53	1209.94	5.85	944.83	780.68	214.70	9.60	123.81	147.55	67.15	0.00		
STATE - MADHYA PRADESH									Cost in												
(I)	Liabilities of Completed projects																				
(A)	MAJOR PROJECTS																				
1	Kolar	Sehore		APP	IV	195.60	182.14	7.26	189.41	6.19	6.19	6.19	6.19	47.30	33.00	14.30	47.30	0	0	2007	
2*	Sindh Phase-I	Gwalior		APP	IV	102.89	60.52	41.44	101.95	0.94	0.94	0.94	0.94	44.90	36.20	8.70	44.90	0	0	2007	
3*	Upper Wainganga	Balaghat,Seoni		APP	V	285.00	247.38	31.98	279.36	5.64	5.64	5.64	5.64	105.30	87.00	18.30	105.30	0	0	2007	
--	Thanwar	Mandla		APP	V	36.40	25.36	2.17	27.53	8.87	8.87	8.87	8.87	18.20	17.90	0.30	18.20	0	0	Completed	
4*	Urmil	Chhatarpur		APP	V	28.08	24.93	3.15	28.08	0.00	0.00	0.00	0.00	7.70	6.90	0.80	7.70	0	0	Completed	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
--	Rajghat Dam Unit-I	Jhansi (U.P.)		APP	V	160.00	137.33	18.28	155.61	4.39	4.39	4.39	4.39	0.00	0.00	0.00	0.00	0	0	Completed	
5	Rajghat Canal	Datia,Bhind Shivpuri, Ashoknagar &Tikamgarh		APP	V	819.22	433.23	383.98	817.21	2.00	2.00	2.00	2.00	121.45	19.30	102.15	121.45	0	0	Completed	
	Total(Major)					1627.18	1110.88	488.25	1599.14	28.05	28.05	28.05	28.05	344.85	200.30	144.55	344.85	0.00	0.00		
(B)	Medium Project																				
--	Rampura Khurd	Sehore		APP	V	34.00	30.50	0.00	30.50	3.50	3.50	3.50	3.50	3.10	2.30	0.80	3.10	0	0	Completed	
1*	Banjar	Balaghat		APP	AP 1978-80	17.25	10.90	2.16	13.06	4.19	4.19	4.19	4.19	2.40	1.50	0.90	2.40	0	0	Completed	
--	Barchar	Sidhi		APP	AP 1978-80	23.00	17.10	3.28	20.38	2.62	2.62	2.62	2.62	2.40	2.30	0.10	2.40	0	0	Completed	
--	Gopad LIS	Sidhi		APP	VI	24.66	19.56	4.99	24.56	0.10	0.10	0.10	0.10	5.70	4.90	0.80	5.70	0	0	Completed	
2	Kaliasote	Bhopal		APP	AP 1978-80	69.52	60.72	4.94	65.66	3.86	3.86	3.86	3.86	4.50	3.00	1.50	4.50	0	0	Completed	
--	Chandora	Betul		APP	VI	19.93	16.95	1.13	18.08	1.85	1.85	1.85	1.85	3.80	3.30	0.50	3.80	0	0	Completed	
	TOTAL(Medium)					188.36	155.73	16.50	172.23	16.12	16.12	16.12	16.12	21.90	17.30	4.60	21.90	0	0		
(C)	ERM Projects					0.00	0.00				0.00	0.00	0.00	0.00							
1	Chambal Phase-II	Gwalior,Morena Seopur,bhind		UA	VII	13.07	8.82	3.50	12.33	0.74	0.74	0.74	0.74	0.00	0.00	0.00	0.00	0	0	2008	
	Total ERM					13.07	8.82	3.50	12.33	0.74	0.74	0.74	0.74	0.00	0.00	0.00	0.00	0	0	2008	
	Total-I					1828.61	1275.44	508.26	1783.70	44.91	44.91	44.91	44.91	366.75	217.60	149.15	366.75	0.00	0.00		
	Ongoing Project																				
(A)	MAJOR PROJECTS																				
1*	Sindh Phase-II	Shivpuri/Gwalior	DPA	APP	V	753.85	217.49	492.99	710.49	43.36	43.36	43.36	30.35	162.00	9.70	33.28	42.98	119.0	119.02	2008	
2	Rani Awanti Bai Sagar	Jabalpur, Narsinhpur	DPA/TA	UA (TAC)	V	1563.52	694.81	604.20	1299.01	264.51			211.60	219.80	24.00	120.72	144.72	75.1	75.1	2008-09	
3*	Bariyarpur LBC	Chhatarpur	--	APP	V	231.65	66.86	148.35	215.20	16.45	16.45	16.45	11.51	43.80	0.00	10.00	10.00	33.8	33.8	2008	
4*	Mahi	Dhar/Jhabua	DPA/TA	APP	VI	364.00	63.64	198.23	261.87	102.13	102.13	102.13	71.49	26.40	0.00	17.00	17.00	9.4	9.4	2007-08	
5*	Mahan	Sidhi	DPA/TA	APP	VI	155.10	49.85	70.27	120.11	34.99	34.99	34.99	24.49	19.70	0.00	9.00	9.00	10.7	10.7	2010	
6	Jobat (NVDA)	Dhar	DPA/TA	APP	VI	171.98	46.51	125.47	171.98	0.00			0.00	9.85	0.00	9.85	9.85	0.00	0.00	2007-08	
7	Man (NVDA)	Dhar	DPA/TA	APP	VI	180.34	136.11	44.23	180.34	0.00				15.00	0.00	4.00	4.00	11.0		Beyond X Plan	
8*	IndiraSagar (NVDA)	Khandwa, Khargaon	DPA/TA	APP	VI	2808.26	1910.83	822.57	2733.40	74.86	34.99		52.40	123.00	0.00	32.21	32.21	90.8		2012-13	
9	Pench Diversion	Chhindwara	DPA/TA	APP	VII	549.65	9.84	18.54	28.38	521.27	521.27	521.27	260.64	89.00	0.00	0.00	0.00	89.0	0	2010	
10*	Bargi Diversion (NVDA)	Jabalpur, Satna, Rewa	DPA/TA	APP	VII	2604.50	29.45	705.73	735.18	1869.32			1308.52	245.00	0.00	53.94	53.94	191.06		2012-13	
11*	Omkareshwar (NVDA)	Khandwa, Khargaon, Dhar	DPA/TA	APP	VII	1442.60	103.50	144.44	247.94	1194.66			836.26	146.80	0.00	0.00	0.00	146.80		2012-13	
12	Upper Narmada Projects	Dindori	--	UA	X	381.71	0.93	10.43	11.36	370.35			185.18	18.50	0.00	0.00	0.00	18.50		2012-13	
13	Lower Goi	Badwani	DPA	UA	X	190.14	0.36	23.64	24.00	166.14			83.07	13.76	0.00	0.00	0.00	13.76		2012-13	
14	Halon	Seoni,Mandola	DPA/TA	UA	X	249.90	0.50	1.17	1.67	248.23	20.00	20.00	124.12	11.70	0.00	0.00	0.00	11.70		2012-13	
15	Punasa	Khandwa	DPA/TA	UA	X	185.04	0.00	18.95	18.95	166.09			83.05								
	Total(Major)																				
(a)	Externally aided projectd																				
1	Water Sector restructuring			UA	X	2388.08	0.00	166.38	166.38	2221.70	2221.70	2221.70	1110.85								
(b)	Inter State Project					0.00	0.00				0.00	0.00									
1*	Bansagar Unit-I	Rewa	DPA	APP	V	1054.96	475.47	315.09	790.56	264.40	264.40	264.40	185.08	0.00	0.00	0.00	0.00	0	0	2007	
2*	Bansagar Unit-II	Rewa,Shahdol, Sidhi,Satna,	DPA/TA	APP	V	742.50	181.52	393.25	574.77	167.73	167.73	167.73	134.18	249.00	0.00	71.07	71.07	177.93	177.93	2007	
--	Bawanthadi Unit-I	Balaghat	TA	APP	VI	315.17	82.77	133.62	216.39	98.78	98.78	98.78	79.02	0.00	0.00	0.00	0.00	0	0	Completed	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Unit-II	Balaghat	TA	APP	VI	0.00	0.00	[illegible]	0.00	0.00	0.00	0.00		29.40	0.00	8.00	8.00	21.4	21.4	2008	
	Total(Major)					16332.95	4070.44	4437.55	8507.99	7824.96	3525.79	3490.80	4791.82	1422.71	33.70	369.07	402.77	1019.94	447.33		
(B)	MEDIUM PROJECTS																				
1	Mahuar	Shivpuri	DPA	UA	VI	147.94	4.43	9.77	14.20	133.74	133.74	133.74	133.74	13.80	0.00	0.00	0.00	13.8	13.8	2010	
2	Kunwari LIS	Morena	TA	APP	VI	5.31	0.29	0.09	0.39	4.92	4.92	4.92	4.92	3.90	0.00	0.00	0.00	3.9	3.9	2010	
3	Upper Beda(NVDA)	Khargone	DPA/TA	APP	IX	120.00	1.14	81.92	83.06	36.94			18.47	9.90	0.00	0.00	0.00	9.9	9.9	2009-10	
4	Bah	Vidisha	--	APP	X	135.18	3.68	36.64	40.32	94.86	94.86	94.86	75.89	17.81	0.00	0.00	0.00	17.81	17.81	2010	
5	Sagar	Vidisha	--	APP	X	31.99	1.28	22.13	23.41	8.58	8.58	8.58	4.29	12.50	0.00	0.00	0.00	12.5	12.5	2010	
6	Karke ki mau	Guna	DPA	UA	X	13.93	0.00	0.01	0.01	13.92	13.92	13.92	6.96	2.27	0.00	0.00	0.00	2.27	2.27	2012	
7	Kushalpura	Rajgarh	DPA	UA	X	60.68	0.00	22.87	22.87	37.81	37.81	37.81	18.90	7.54	0.00	0.00	0.00	7.54	7.54	2012	
8	Tawa machak	Hoshangabad	TA	UA	X	31.00	0.00	23.42	23.42	7.58	7.58	7.58	3.79	12.60	0.00	0.90	0.90	11.7	11.7	2012	
	TOTAL(Medium)					546.03	10.82	196.85	207.68	338.35	301.41	301.41	266.97	80.32	0.00	0.90	0.90	79.42	79.42		
(C)	ERM Projects																				
1	Harsi	Gwalior	--	UA	VII	24.80	10.22	0.27	10.49	14.31	14.31	14.31	14.31	0.00	0.00	0.00	0.00	0	0	2008	
2	Sindh remova link	Gwalior	--	UA	VII	21.71	8.94	5.21	14.15	7.56	7.56	7.56	7.56	3.38	0.00	0.00	0.00	3.38	3.38	2008	
3	Chambal LIS	Bhind,Morena	DPA/TA	UA	VII	25.80	4.19	0.56	4.75	21.05	21.05	21.05	21.05	0.00	0.00	0.00	0.00	0	0	2008	
4	Modernisation of Tawa & Extension	Hoshangabad	TA	UA	X	70.00	0.00	18.03	18.03	51.98	51.98	51.98	51.98	0.00	0.00	0.00	0.00	0	0	2012	
5	Modernisation of Chambal Canal	Gwalior,Morena Seopur,bhind	DPA/TA	UA	X	74.00	0.00	0.00	0.00	74.00	74.00	74.00	74.00	0.00	0.00	0.00	0.00	0.00	0.00	2012	
	Total ERM					216.31	23.36	24.06	47.42	168.89	168.89	168.89	168.89	3.38	0.00	0.00	0.00	3.38	3.38		
	Total -II					17095.29	4104.62	4658.46	8763.08	8332.20	3996.09	3961.11	5227.67	1506.41	33.70	369.97	403.67	1102.74	530.13		
III	NEW PROJECTS OFXI PLAN																				
A	Major Projects																				
1	Atariya	Jabalpur	DPA/TA	UA	XI	130.00	0.00	0.00	0.00	130.00			32.50	12.90	0.00	0.00	0.00	12.90		2012-13	
2	Sher	Narsingh Pur	--	UA	XI																
3	Shakkar	Narsingh Pur	--	UA	XI	64.70	0.00	0.00	0.00	64.70			16.18	64.70	0.00	0.00	0.00	64.70		2012-13	
4	Machharewa	Narsingh Pur	--	UA	XI																
5	Dudhi	Hoshangabad,	TA	UA	XI	506.00	0.00	0.00	0.00	506.00			126.50	50.60	0.00	0.00	0.00	50.60		2012-13	
6	Morand	Hoshangabad, Harda	TA	UA	XI	522.00	0.00	0.00	0.00	*				52.20	0.00	0.00	0.00	52.2		2012-13	
7	Ganjal	Hoshangabad, Harda	TA	UA	XI																
8	Pancham nagar complex	Damoh	DPA	UA	XI	460.00	0.00	0.00	0.00	460.00	35.00	35.00	115.00	50.02	0.00	0.00	0.00	50.02	0	Beyond 2012	
9	Bina	Sagar	--	UA	XI	525.00	0.00	0.00	0.00	525.00	45.00	45.00	131.25	66.54	0.00	0.00	0.00	66.54	0	Beyond 2012	
10	Kalisindh	Shajapur	DPA	UA	XI	500.00	0.00	0.00	0.00	500.00	5.00	5.00	125.00	50.40	0.00	0.00	0.00	50.40	0	Beyond 2012	
11	Parbati(Rinsi)	Sehore/Shajapur	DPA	UA	XI	1000.00	0.00	0.00	0.00	1000.00	65.00	65.00	250.00	110.93	0.00	0.00	0.00	110.93	0	Beyond 2012	
	Total(Major)					3707.70	0.00	0.00	0.00	3185.70	150.00	150.00	796.43	458.29	0.00	0.00	0.00	458.29	0.00		
B	Medium Projects																				
1	Semri	Raisen	DPA	UA	X	45.00	0.00	0.00	0.00	45.00	43.00	43.00	22.50	5.00	0.00	0.00	0.00	5.00	3	Beyond 2012	
2	Dhanai	Dhar	DPA/TA	UA	XI	40.00	0.00	0.00	0.00	40.00	25.00	25.00	20.00	4.00	0.00	0.00	0.00	4.00	2	Beyond 2012	
3	Upper Burner	Mandola	TA	UA	XI	98.00	0.00	0.00	0.00	98.00			49.00	9.80	0.00	0.00	0.00	9.8	0	Beyond 2013	
4	Upper Kaketo	Gwalior	--	UA	XI	93.00	0.00	0.00	0.00	93.00	65.00	65.00	93.00	5.20	0.00	0.00	0.00	5.20	3	Beyond 2012	
5	Garetha	Vidisha	--	UA	XI	28.00	0.00	0.00	0.00	28.00	15.00	15.00	14.00	3.50	0.00	0.00	0.00	3.50	3	Beyond 2012	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
6	Singhpur Barrage	Chhatarpur	--	UA	XI	97.00	0.00	0.00	0.00	97.00	20.00	20.00	97.00	10.03	0.00	0.00	0.00	10.03	5	Beyond 2012	
	Total(Medium)					401.00	0.00	0.00	0.00	401.00	168.00	168.00	295.50	37.53	0.00	0.00	0.00	37.53	16.00		
	ERM Projects	NIL																			
	Total-III					4108.70	0.00	0.00	0.00	3586.70	318.00	318.00	1091.93	495.82	0.00	0.00	0.00	495.82	16.00		
IV	Special repairs of existing Irrigation system	-	-	-	-	0.00	0.00	0.00		0.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00		
V	Dam Safety Measures												0.00								
VI	Improved Water Management					0.00	0.00				0.00	0.00	0.00								
VII	Water development services												0.00								
A)	Survey & Investigation					0.00	0.00				0.00										
	(I) Major survey	-	-	-	-	-	18.47	21.92		0.00	35.00	35.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00		
	(II) Medium survey	-	-	-	-	-	2.80	4.03		0.00	11.00	11.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00		
B)	Rsearch & development including provisios for jalasoudha	-	-	-	-	-	4.34	3.04		0.00	6.00	6.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00		
i	Establishment(Major+Mediu m	-	-	-	-	-	0.00	99.46		0.00	110.00	110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
ii	Post Facto evaluation	-	-	-	-	-	-	-		0.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
iii	Indo Canadian Environmental Programme			UA	X	22.00	0.00	1.40	1.40	20.61	20.61	20.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2012	
C)	Training	-	-	-	-	-	-	-		0.00	2.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00		
D)	(I) Hydrometorology	-	-	-	-	-	14.20	10.73		0.00	12.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	(II) National Hydrometeorology Project Phase-II			UA	X	20.60	0.00	3.04	3.04	17.56	17.56	17.56	0.00								
	TOTAL IV-VII					42.60	39.81	143.62	4.44	38.16	215.16	215.16	54.00	0.00	0.00	0.00	0.00	0	0		
	GRAND TOTAL					23075.20	5419.87	5310.33	10551.22	12001.98	4579.17	4544.18	6423.51	2368.98	251.30	519.12	770.42	1598.56	546.13		
STATE - MAHARASHTRA																					
I	Liabilities of completed projects																				
A	Major Projects																				
1*	Khadakwasla	Pune	DPA/TA	APP	II																
2	Upper Tapi	Jalgaon	DPA/TA	APP	IV																
--	Manjra Project(flow)	Beed/Latur/ Osmanabad	DPA	APP	IV	218.09	55.41	47.08	102.49	115.6	115.6	115.6	115.6	18.220	18.220	0	18.22	0	0.000	2009	
3*	Chaskaman	Pune	DPA/TA	APP	V	388.13	206.99	152.05	359.04	29.09	153.61	153.61	20.363	44.17	13.666	26.817	40.483	3.687			
4*	Wan	Akola & Buldhana	DPA	APP	V	239.20	188.94	50.26	239.2	0.00		-		19.177	17.372	1.805	19.177	0		2007	
5*	Jayakwadi Project St-II	Aurangabad-Ahmadnagar-Beed-Parbhani-Nanded	DPA/TA	APP	V	792.2	568.38	140.11	708.49	83.71	83.71	83.71	58.597	126.532	93.426	3.04	96.466	30.066	30.066		
6	Arunavati	Yavatmal	DPA/TA	UA	VI	224.16	176.60	39.51	216.11	8.05	8.05	8.855	8.05	24.003	21.441	2.562	24.003	0	0	2008	
7*	Vishnupuri	Nanded	DPA/TA	APP	1978-80			0	0	0.00											
--	Lift Irrigation scheme on Lower Terna Project	Osmanabad & Latur	DPA.	APP	VI	158.60	97.83	34.55	132.38	26.22	0.00	0.00	26.22	0.000	0.000	0	0	0	0.000	X Plan	
8	Lower Wuna	Nagpur	DPA/TA	UA(TAC)	VI	324.57	221.32	42.97	264.29	60.28	25.08	25.08	60.28	25.55	20.95	4.595	25.545	0	0.00	2006-07	
9*	Lower Dudhana Project	Parbhani-Jalna	DPA.	APP	VIII	668.9	140.98	282.68	423.66	245.24	245.24	245.24	171.668	34.438	0.000	0	0	34.438	34.438	2009	
10	Temghar	Pune	DPA/TA	UA	IX	323.52	255.01	27.99	283	40.52	25.05	25.05	40.52	1	1	0	1	0		2007-08	
	Total					3337.37	1911.46	817.20	2728.66	608.71	656.34	657.15	501.30	293.09	186.08	38.82	224.89	68.19	64.50	8033.00	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
B	Medium Projects																0	0			
1	Adan	Yavatmal, Washim.	DPA/TA	APP	V	73.31	57.65	15.66	73.31	0.00	0	0		10.067	10.067	0	10.067	0	0	2007	
2	Erdha	Ahmednagar	DPA/TA	UA	V			0.00	0.00	0.00											
3*	Jawalgaon	Solapur	DPA	APP	V	27.21	17.95	3.80	21.75	5.46	0.00	0.00	5.46	5.343	3.506	1.59	5.096	0.247	0.000	X Plan	
4*	Kadavi	Kolhapur	--	APP in April 1979	V	71.26	50.61	20.65	71.26	0.00	0	0	0	13.740	10.530	3.21	13.74	0	0	2006	
5*	Patgaon	Kolhapur	--	APP in May 1984	V	82.20	58.12	24.08	82.20	0.00	0	0	0	12.070	9.060	3.01	12.07	0	0	2007	
6*	Kasari	Kolhapur	--	APP in April 1979	V	30.500	23.35	7.15	30.50	0.00	0	0	0	14.190	9.460	4.73	14.19	0	0	2006	
7*	Kumbhi	Kolhapur	--	APP in May 1981	V	73.11	40.14	24.05	64.19	8.92	8.92	8.92	8.92	13.500	3.340	8.13	11.47	2.03	0	2006	
8	Chikotra	Kolhapur	--	Submitted to CWC in May 1998	V	137.94	92.24	28.12	120.36	17.58	11.60	11.60	17.58	9.110	4.560	4.55	9.11	0	0	2006	
9	Jangamhatti	Kolhapur	--	Submitted to CWC in March 1998	V	26.31	17.12	8.90	26.02	0.29	0.29	0.29	0.29	5.730	3.760	1.97	5.73	0	0	2007	
10	Hivara	Jalgaon	DPA/TA	APP	V	16.29	10.29	0.00	10.29	6.00	0.00	0.00	6.00	3.460	2.570	0.89	3.46	0	0.000	Completed	
--	Dham	Wardha	--	APP	V	57.85	55.32	0.18	55.50	2.35	2.27	2.27	2.35	9.50	9.50	0	9.5	0	0.00	2006-07	
11*	Bahula	Jalgaon	DPA /TA	APP	V	54.97	25.34	21.63	46.97	8.00	8.00	8.00	5.60	4.654	0.352	3.914	4.266	0.388	4.302	2007	
12	Wadiwale	Pune	DPA/TA	APP	AP 1978-80			0.00	0.00	0.00											
13*	Kasarsai	Pune	DPA/TA	APP	VI	33.15	24.38	4.20	28.58	4.57	4.57	4.57	4.57	6.590	0	6.59	6.59	0	0.000	Completed	
--	Umarzari	Gondia	--	UA	VI	18.00	15.00	2.24	17.24	0.76	0.85	0.85	0.76	2.03	2.03	0	2.03	0	0.00	2006-07	
--	Pakadiguddam	Chandarpur	DPA/TA	PC	VI	30.12	26.00	1.46	27.46	2.66	2.66	2.66	2.66	3.71	3.71	0	3.71	0	0.00	2006-07	
14	Katangi	Gondia	--	UA	VI	40.54	18.27	13.95	32.22	8.32	8.32	8.32	8.32	2.45	1.00	0.962	1.962	0.491	0.49	2006-07	
15*	Amrawati	Dhule	DPA/TA	APP	VI	48.34	27.85	19.86	47.71	0.63	0.63	0.63	0.63	3.127	0.870	2.257	3.127	0	2.257	2006-2007	
16	Purna Neopur	Aurangabad	DPA	APP	VI	19.96	13.81	2.60	16.41	3.55	3.55	3.55	3.55	1.470	1.470	0	1.47	0	0.000	2008	
--	Tembhapuri	Aurangabad	DPA	APP	VI	46.18	25.10	8.86	33.96	12.22	12.22	12.22	12.22	4.784	4.784	0	4.784	0	0.000	2007	
17	Bordhegaon	Aurangabad	DPA	APP	VI	28.12	24.68	1.65	26.33	1.79	1.79	1.79	1.79	1.600	1.600	0	1.6	0	0.000	2007	
18	Anjana Palashi	Aurangabad	DPA	APP	VI	50.81	42.50	4.46	46.96	3.85	3.85	3.85	3.85	2.030	2.030	0	2.03	0	0.000	2007	
19	Sonwad	Dhule	DPA/TA	TAC APP	VI	21.41	18.94	2.47	21.41	0.00	0.00	0.00	0.00	3.010	2.680	0	2.68	0.33	0.330	Completed	
20	Mun	Buldana, Akola	DPA	III nd.RA 59.79/ 6-12-05	VI	60.85	49.58	3.33	52.91	7.94	7.94	7.94	7.94	8.285	8.285	0	8.285	0	0.000	Completed	
21	Benthura	O'bad	DPA	APP	VII	42.00	19.23	7.19	26.42	15.58	15.58	7.19	15.58	2.293	2.293	0	2.293	0	0.000	--	
--	Sakat	O'bad	DPA	UA	VII	18.60	14.96	1.15	16.11	2.49	2.49	1.15	2.49	2.355	2.355	0	2.355	0	0.000	--	
22*	Madan	Wardha	--	PC	VII	88.02	29.98	49.50	79.48	8.54	8.54	8.54	8.54	3.28	0.00	3.28	3.28	0	0.00	2006-07	
23	Chapdoh				VIII			0.00	0.00	0.00											
24	Pentakli	Buldana	DPA	II nd.RA	VIII	172.45	102.00	51.90	153.90	18.55	18.55	18.55	18.55	14.332	1.676	12.656	14.332	0	0.000	2007	
25	Chitri	Kolhapur	--	Sub. to CWC in Oct. 1999	VIII	86.00	57.95	28.05	86.00	0.00	0	0	0.00	7.020	6.210	0.81	7.02	0	0	2005	
26	Upper Manjra	Osmanabad	DPA	APP	VIII			0.00	0.00	0.00											
27	Sayaki	Nagpur	DPA	UA	VIII	17.89	19.75	1.56	21.31	-3.42	0.00	0.00	-3.42	2.32	2.32	0	2.323	0	0.00	2006-07	
28	Navargaon	Yavatmal	DPA/TA	2nd R.A.APP	VIII	50.83	35.20	15.63	50.83	0.00	0	0	0.00	2.878	2.47	0.408	2.878	0	0	2007	
29*	Dongargaon	Chandarpur	DPA/ TA	PC	VIII	47.64	23.22	17.58	40.80	6.84	6.64	6.64	6.84	3.94	0.00	1.642	1.642	2.3	0.00	2006-07	
30	Torna	Buldana	DPA	IIst.RA 18.1/ 23-08-05	VIII	18.10	14.71	2.90	17.61	0.49	0.49	0.49	0.49	1.428	1.428	0	1.428	0	0.000	Completed	
31	Andra Khore	Pune	DPA/TA	APP	VIII	96.00	52.46	13.93	66.39	29.61	29.61	29.61	29.61	3.570	0	3.57	3.57	0	0.000	2006-07	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
32	Narangi	Aurangabad	DPA	UA	VIII	22.85	18.77	3.41	22.18	0.67	0.67	0.67	0.67	1.000	1.000	0	1	0	0.000	2007	
33	Renapur	Latur	DPA	UA	VIII	72.19	52.14	20.05	72.19	0.00	0.00	0.00	0.00	2.445	2.000	0.195	2.195	0.25	0.000	2007	
34	Kajala Wagholi	Osamanabad	DPA	UA	VIII	17.68	9.50	0.39	9.89	7.79			7.79	1.55	0.51		0.51	1.04			
35	Kiramiridarur LIS	Chandrapur	DPA/TA	--	IX	27.89	17.04	10.69	27.73	0.16	0	0	0.16	2.44	0	2.44	2.44	0	0	2007	
36	Haranghat LIS	Chandrapur	DPA/TA	-	IX	49.21	20.75	25.87	46.62	2.59	2.59	2.59	2.59	4.82	0	4.82	4.82	0	0	2007	
37	Muktainagar L.I.Scheme	Jalgaon	DPA/TA	UA	IX	34.45	25.04	4.46	29.50	4.95	9.41	9.41	4.95	4.199	4.199	0	4.199	0	0.000	3/2000 (excluding	
38	Zashinagar	Bhandara	--	UA	IX																
	Total					1910.23	1246.94	473.56	1720.50	189.74	172.03	162.30	187.34	200.33	121.63	71.62	193.25	7.08	7.38	36121.00	
C	ERM Projects																0	0			
1	Extension of Radhanagri	Satara	DPA	UA	V	13.84	6.44	0.00	6.44	7.40											
2	Extension of Bhatghar	Solapur	DPA	UA	V	7.56		0.00	0.00	7.56											
3	Extension of Ekrukh	Kohlapur	--	UA	VI	13.20	1.36	0.00	1.36	11.84											
--	Raising height of W.W. of Nalleshwar Project	Chandrapur	DPA/TA	UA	X	0.67	0	0.67	0.67	0.00							0	0			
--	Raising heght of Ghodazari Project	Chandrapur	DPA/TA	UA	X	0.73	0	0.73	0.73	0.00	0	0	0	2.03	0	2.03	2.03	0	0	2006	
--	Raising height of Amalnalla project	Chandrapur	DPA/TA	UA	X	2.78	0	2.78	2.78	0.00	0	0	0	0.64	0	0.64	0.64	0	0	2007	
--	Raising height of Dina Project	Gadchiroli	DPA/TA	UA	X	1.24	0	1.24	1.24	0.00	0	0	0	1.3	0	1.3	1.3	0	0	2007	
	Total					40.02	7.80	5.42	13.22	26.80	0.00	0.00	0.00	3.97	0.00	3.97	3.97	0.00	0.00		
	TOTAL -I					5287.62	3166.20	1296.18	4462.38	825.25	828.37	819.45	688.63	497.38	307.70	114.41	422.12	75.27	71.88		
II	Ongoing Projects																0	0			
A	Major Projects																0	0			
a)	Externally aided projects																0	0			
1*	Bawanthadi	Bhandara	--	APP	V	322.50	92.26	145.62	237.88	84.62	84.62	84.62	59.23	27.71	0.00	5	5	22.708	22.71	2010-11	
2*	Tillari	Sindhudurga	--	APP	V	952.54	341.94	291.25	633.19	319.35	319.36	319.36	223.55	9.68	0	1.52	1.52	8.16	8.16	2009-10	
3*	Gosikhurd	Bhandara/ Nagpur/ Chandarpur	DPA/TA	APP	VII	5048.75	755.57	779.72	1535.29	3513.46	3514.00	3514.00	1756.73	250.80	7.66	4.88	12.54	238.26	238.26	2011-12	
4	Varangaon Talwel LIS	Jalgaon	DPA/TA	UA	IX	302.26	21.20	19.19	40.39	261.87	261.87	261.87	261.87	18.947	0.000	0	0	18.947	0.000	2010	
5	Bodwad Parisar LIS	Jalgaon	DPA/TA	UA	IX	689.14	0.21	9.48	9.69	679.45	679.44	679.44	543.56	27.027	0.000	0	0	27.027	0.000	2012	
6	Bhagpur LIS	Jalgaon	DPA/TA	UA	IX	557.02	0.09	13.60	13.69	543.33	543.32	543.32	543.33	18.141	0.000	0	0	18.141	0.000	2012	
	Total					7872.21	1211.27	1258.86	2470.13	5402.08	5402.61	5402.61	3388.27	352.30	7.66	11.40	19.06	333.24	269.13		
b)	Inter-state projects																0	0			
1	Dudhaganga	Kolhapur, Belgaum (Karnataka State)	--	UA	V	1173.26	293.16	236.83	529.99	643.27	643.27	643.27	321.64	59.933	9.045	6.61	15.655	44.278	44.278	X I Plan	
2	Lendi Project.	Nanded, Nizamabad (A.P.)	DPA	UA	VI	432.20	30.69	165.26	195.95	236.25	161.93	161.93	118.13	15.71	0.000	0	0	15.71	15.710	2009	
	Total					1605.46	323.85	402.09	725.94	879.52	805.20	805.20	439.76	75.64	9.05	6.61	15.655	59.988	59.99		
c)	Pre-V Plan Projects																0	0			
1*	Kukadi Project	Pune, Solapur, A'Nagar	DPA/TA	APP	AP 66 -69	2092.00	1003.57	345.86	1349.43	742.57	0.00	0.00	519.80	156.280	114.270	40	154.27	2.01	2.010	X I Plan	
2*	Upper Wardha	Amravati & Wardha	DPA/TA	APP	IV	951.33	599.05	191.86	790.91	160.42	160.42	160.42	112.294	80.25	62.657	17.593	80.25	0		2009	
3*	Upper Tapi-1 (Hatnur)	Jalgaon	DPA/TA	APP	IV	230.76	131.08	16.03	147.11	83.65	83.65	83.65	58.555	55.140	51.860	0	51.86	3.28	0.040	2005	
4*	Upper Penganga Project	Nanded Hingoli Yeotmal	DPA/TA	APP	IV	1532.4	585.84	265.20	851.04	681.36	Not available	681.36	476.952	134.280	68.880	27.638	96.518	37.762	37.566	2009-10	
5	Upper Godawari	Nasik	DPA/TA	APP	IV	189.98	147.98	15.50	163.48	26.50	26.5	26.5	26.5	71.620	0.000	0.01	0.01	71.61	4.000	2010	
6*	Waghur	Jalgaon, Bhusawal (Maharashtra)	DPA/TA	APP	V	374.10	101.28	142.06	243.34	130.76	130.76	130.76	65.38	26.325	0.000	14.515	14.515	11.81	11.810	2009	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
7*	Nandur Madhmeshwar Canal	Aurangabad	DPA	APP	V	466.87	227.13	160.40	387.53	79.34	79.34	79.34	55.538	43.860	0.000	20	20	23.86	14.610	2009	
								0.00	0.00	0.00											
8	Upper Pravara Project (Nilwande-2)	A'Nagar Nasik	DPA/TA	APP	V	760.21	74.31	126.61	200.92	559.29	539.29	539.29	279.645	64.260	0.000	0	0	64.26	0.000	2011	
	Total					6597.65	2870.24	1263.52	4133.76	2463.89	1019.96	1701.32	1594.67	632.02	297.67	119.76	417.42	214.59	70.04		
d)	Other Projects																0	0			
1*	Krishna	Satara Sangli	Partly DPA	APP	III	648.05	362.94	150.54	513.48	134.57	134.57	134.57	94.20	74.000	57.242	10.787	68.029	5.971	3.000	X I Plan	
2*	Bhima (Ujjani)	Solapur, Pune, Ahmednagar	DPA	APP	III	1405.67	959.48	238.74	1198.22	207.45	250.00	250.00	145.22	259.539	209.507	18.485	227.992	31.547	16.980	X I Plan	
3	Bhatsa Project	Thane	TA	UA	V	768.07	246.51	170.52	417.03	351.04	351.04	351.04	175.52	42.55	9.23	1.85	11.08	31.47	17	2009-10	
4	Shankerrao Chavan Vishnupuri Project (Part.I)	Nanded.	DPA	UA	V	261.16	153.80	25.30	179.10	82.06	82.06	82.06	57.442	24.076	15.630	0.43	16.06	8.016	8.060	2009	
5*	Warna	Kolhapur, Sangli.	DPA	APP	V	1115.29	323.85	123.61	447.46	667.83	667.83	667.83	467.48	148.970	148.970	0	148.97	0	98.936	X I Plan	
6*	Surya Project	Thane	TA	APP	AP 78-80	379.26	221.14	74.30	295.44	83.82	83.82	83.82	58.67	27.19	22.55	0	22.55	4.64	5	2009-10	
7	Krishna Koyna	Sangli	DPA	UA(TAC)	VI	2186.04	784.91	247.62	1032.53	1153.51	0.00	1123.01	576.76	109.127	0.720	0	0.72	108.407	108.257	X I Plan	
8	Lower Wardha	Wardha	--	UA(TAC)	VI	638.38	154.94	182.16	337.10	301.28	363.19	363.19	150.64	51.66	0.00	1.2	1.2	50.455	50.46	2010-11	
9	Lower Terna Project	Osmanabad/ Latur	DPA	APP	VI	254.95	136.73	23.61	160.34	94.61	64.61	64.61	47.31	23.470	19.280	1.62	20.9	2.57	0.000	2010	
10	Tultuli	Gadchiroli	DPA/TA	UA	VI	434.37	6.60	0.01	6.61	427.76	427.77	427.77	213.88	30.59	0.00	0	0	30.59	30.59	2011-12	
11	Human	Chandarpur	DPA/TA	UA	VI	523.48	10.98	16.74	27.72	495.76	385.64	385.64	247.88	46.12	0.00	0	0	46.117	46.12	2011-12	
12	Punand	NASIK	DPA /TA	Appoved	VI	157.78	41.11	46.28	87.39	70.39	70.39	70.39	70.39	10.846	0.000	0.5	0.5	10.346	0.500	2009-2010	
--*	Nandur Madhameshwar Project	Nasik, A'Nagar, Aurangabad	DPA /TA	APP	VI	866.3	78.82	100.31	179.13	687.17	683.3	683.3	481.019	29.607	0.000	0	0	29.607	0.000	2011	
13	Kadawa Project	Nasik	DPA /TA	APP	VI	76.06	44.89	24.76	69.65	6.41	3.45	3.45	6.41	10.320	0.000	0	0	10.32	0.000	2008	
14	Bhama Askhed	Pune	DPA /TA	UA	VII	458.20	6.3972	38.55	44.95	413.25	68.27	68.27	206.63	23.11	0	0.653	0.653	22.457	5	2010-2011	
15	Urmodi	Satara	Partly DPA	APP (Medium)	VIII	867.77	284.02	103.85	387.87	479.90	479.90	479.90	239.95	27.750	0.000	0	0	27.75	27.750	X I Plan	
16	Dhom Balkawadi	Satara Pune	Partly DPA	UA	VIII	475.29	199.29	144.06	343.35	131.94	127.94	127.94	65.97	18.100	0.000	2.135	2.135	15.965	15.965	X I Plan	
17	Tarali	Satara	Partly DPA	UA	VIII	685.93	281.50	177.02	458.52	227.41	227.41	227.41	113.71	14.276	0.000	0.5	0.5	13.776	13.776	X I Plan	
18	Bhima Sina Link Canal	Solapur	DPA	UA	VIII	312.66	196.34	23.43	219.77	92.89	0.00	0.00	92.89	32.660	0.000	0	0	32.66	0.000	X I Plan	
19	Sina Kolegaon	O'bad & Solapur	DPA	UA	VIII	317.77	111.63	62.83	174.46	143.31	143.31	62.83	71.66	12.100	0.000	5	5	7.1	5.000	X I Plan	
20	Nira Deoghar Project	Pune Satara Solapur	DPA /TA	UA	VIII	910.91	259	130.84	389.84	521.07	521.07	521.07	260.53	43.050	0	0	0	43.05		2008-09	
21	Gunjawani	Pune	DPA /TA	UA	VIII	316.60	104.97	47.11	152.08	164.52	164.52	164.521	82.26	16.500	0	0	0	16.5		2007-08	
22	Sina Madha	Solapur	DPA	UA	VIII	195.96	88.76	39.52	128.28	67.68	0.00	0.00	33.84	24.550	0.000	16.57	16.57	7.98	7.980	X I Plan	
23	Barshi	Solapur.	DPA	UA	VIII	163.83	55.69	13.58	69.27	94.56	13.58	94.56	47.28	15.000	0.000	0	0	15	15.000	X I Plan	
24	Shirapur	Solapur.	DPA	UA	VIII	107.36	37.13	7.64	44.77	62.59	7.64	62.59	31.30	8.860	0.000	0	0	8.86	8.860	X I Plan	
25	Janai Shirsai L.I.S.	Pune	DPA /TA	UA	VIII	199.00	112.87	67.25	180.12	18.88	40.77	40.77	18.88	14.08	0.000	8	8	6.08	0.000	2007-08	
26	Khadakpurna	Buldana	DPA	UA	VIII	517.77	57.74	187.82	245.56	272.21	272.21	272.21	136.11	24.864	0.00	4.2	4.2	20.664	20.664	2010	
27	Jihe Kathapur	Satara	DPA	UA	IX	457.92	12.11	17.32	29.43	428.49	428.49	428.49	214.25	27.500	0.000	0	0	27.5	0.000	X I Plan	
28	Dhaigaon	Solapur	DPA	UA	IX	128.27	32.74	3.77	36.51	91.76	0.00	0.00	45.88	13.330	0.000	0	0	13.33	0.000	X I Plan	
29	Tembhu L.I.S.	Satara, Sangli, Solapur	DPA	UA	IX	2106.94	672.69	287.41	960.10	1146.84	962.05	962.05	1146.84	80.472	0.000	5.24	5.24	75.232	75.232	X I Plan	
30	Purandar Lift Irrigation Scheme	Pune	DPA	UA	IX	386.70		120.60	120.60	266.10	196.70	196.7	266.10	25.1	5.000	5	10	15.1		2008-09	
31	Jigaon	Buldana	DPA	UA	IX	1220.98	7.47	107.90	115.37	1105.61	1105.61	1105.61	552.81	101.088	0.000	0	0	101.088	101.088	2012	
32	Lower Tapi Project	Jalgaon Dhule	DPA /TA	UA	IX	399.46	46.16	49.59	95.75	303.71	303.71	303.71	151.86	31.310	0.000	0	0	31.31	0.000		
33	Bembla	Yavatmal	DPA /TA	UA	IX	871.54	197.26	448.16	645.42	226.12	226.12	238.12	113.06	53.968	0	12.2	12.2	41.768	41.768	2010	
34	Talamba	Sindhudurg	--	UA	IX	564.22	14.38	27.47	41.85	522.37	522.37	522.37	261.19	28.900	0.000	0	0	28.9	28.900	Jun-13	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
35	Mula Project							0.00	0.00	0.00							0	0			
	a) Mula High Level Right Bank Canal (Wambori Canal)	A'Nagar	DPA	APP	IX	135	0	107.09	107.09	27.91	22.83	22.83	27.91	3.560	0.000	2.865	2.865	0.695	0.000	2007	
	b) Mula High Level Left Bank Canal (Bhagada Canal)	A'Nagar	DPA	APP	IX	26	0	23.66	23.66	2.34	1.51	1.51	2.34	0.250	0.000	0.25	0.25	0	0.000	2007	
36	Lower Pedhi	Amravati	DPA /TA	UA	X	161.17	0	25.54	25.54	135.63	135.63	135.63	67.82	10.19	0	0	0	10.19	0	2013	
i)	Shankerrao Chavan Vishnupuri Project (Part.II)							0.00	0.00	0.00							0	0			
ii)	Amdura L.L.Barrage.	Nanded.	DPA	UA	X	56.47	0	8.10	8.10	48.37	48.37	48.37	24.185	1.002	0.000	0	0	1.002	1.002	2009	
iii)	Digras H.L.Barrage	Parbhani	DPA	UA	X	145.32	0	17.35	17.35	127.97	127.97	127.97	63.985	3.618	0.000	0	0	3.618	3.618	2011	
iv)	9) Muli L.L.Barrage	Parbhani	DPA	UA	X	37.48	0	8.05	8.05	29.43	29.43	29.43	14.715	1.705	0.000	0	0	1.705	1.705	2009	
v)	10) Mudgal L.L.Barrage	Parbhani	DPA	UA	X	39.26	0	8.02	8.02	31.24	31.24	31.24	15.62	1.907	0.000	0	0	1.907	1.907	2009	
vi)	11) Dhalegaon L.L.Barrage	Parbhani/ Beed	DPA	UA	X	41.20	0	15.30	15.30	25.90	25.90	25.90	12.95	2.242	0.000	0	0	2.242	2.242	2009	
vii)	1) Hiradpuri	Aurangabad	DPA	UA	XI	60.74	0	36.72	36.72	24.02	24.02	24.02	12.01	1.118	0.000	0	0	1.118	1.118	2008	
viii)	2) Apegaon	Aurangabad	DPA	UA	XI	73.69	0	21.23	21.23	52.46	52.46	52.46	26.23	0.870	0.000	0	0	0.87	0.870	2009	
ix)	3) Jogaldevi	Jalna	DPA	UA	XI	64	0	20.65	20.65	43.35	43.35	43.35	21.675	1.083	0.000	0	0	1.083	1.083	2009	
x)	4) Loni Sawangi	Jalna	DPA	UA	XI	99.94	0	27.82	27.82	72.12	72.12	72.12	36.06	3.942	0.000	0	0	3.942	3.942	2009	
xi)	5) Mangrul	Jalna	DPA	UA	XI	79.96	0	12.25	12.25	67.71	67.71	67.71	33.855	3.067	0.000	0	0	3.067	3.067	2010	
	6) Rajatakali	Jalna	DPA	UA	XI	70.4	0	11.64	11.64	58.76	58.76	58.76	29.38	3.044	0.000	0	0	3.044	3.044	2010	
37	Lower Penganga	Yavatmal, Chandrapur.	DPA /TA	UA	XI	2000.01	2.31	13.25	15.56	1984.45	535	580	580	227.271	0	0	0	227.271	60.00	2017 Not yet started due to	
	Subtotal					24470.58	6307.16	3886.89	10194.05	14276.53	10655.64	11891.10	7914.50	1789.49	488.13	97.49	585.61	1203.88	835.13		
	Total(Major)					40545.90	10712.52	6811.36	17523.88	23022.02	17883.41	19800.23	13337.19	2849.46	802.50	235.25	1037.75	1811.70	1234.29		
B	Medium Projects																0	0			
1	Mor	Jalgaon	DPA /TA	APP	V	57.00	26.34	14.63	40.97	16.03	16.03	16.03	16.03	2.156	0.000	1.403	1.403	0.753	1.399	2008	
2	Mangrul	Jalgaon	DPA /TA	APP	V	18.00	9.59	2.83	12.42	5.58	5.58	5.58	5.58	1.935	0.260	1.675	1.935	0	1.675	2008	
3	Chenna Nadi	Gadchiroli	DPA /TA	UA	V	18.99	1.43	0.00	1.43	17.56	17.56	17.56	17.56	2.32	0.00	0	0	2.32	2.32	2011-12	
4	Pendhri nalla	Nagpur	DPA	UA	V	12.85	0.20	0.00	0.20	12.65	12.65	12.65	12.65	1.84	0.00	0	0	1.837	1.84	2011-12	
5	Pothra Project	Chandrapur	DPA /TA	APP	V	70.31	42.02	25.91	67.93	2.38	2.38	2.38	2.38	11.63	5.63	5.96	11.59	0.04	5.95	2008	
6	Jam	Nagpur	DPA	UA(TAC)	VI	136.00	53.79	39.36	93.15	42.87	42.87	42.87	42.87	7.18	2.70	3.91	6.61	0.574	0.58	2007-08	
7	Bori (S)	Solapur	DPA	UA	VI	73.04	41.07	31.97	73.04	0.00	21.97	32.00	0.00	13.860	0.000	4.551	4.551	9.309	0.000	X I Plan	
8	Karwappa	Gadchiroli	DPA /TA	APP	VI	28.89	3.00	0.00	3.00	25.89	25.89	25.89	25.89	5.25	0.00	0	0	5.25	5.25	2011-12	
9	Gomai	Nandurbar	DPA	UA	VI	104.05	0.58	0.00	0.58	103.47	103.47	103.47	51.74	4.480	0.000	0	0	4.48	0.000		
10	Deoghar	Sindhudurg	--	APP	VI	249.71	88.72	87.66	176.38	73.33	73.33	73.33	73.33	8.347	0.400	2.31	2.71	5.637	6.047	Jun-09	
11	Dehali	Nandurbar	DPA	UA(TAC)	VI	48.76	11.65	13.52	25.17	23.59	23.59	23.59	23.59	3.160	0.000	0	0	3.16	0.000		
12*	Hetawane	Raigad	--	APP on 16.3.01	VI	275.00	164.55	69.19	233.74	41.26	41.26	41.26	28.88	12.136	0.000	8.83	8.83	3.306	2.136	Jun-07	
13	Talni Project	Nanded.	DPA /TA	UA	VI	23.85	13.68	7.69	21.37	2.48	2.48	2.48	2.48	1.200	0.000	1.2	1.2	0	1.200	2008	
14*	Shivana Takali	Aurangabad	DPA	APP	VI	150.00	61.91	81.80	143.71	6.29	6.29	6.29	6.29	6.389	0.000	4.391	4.391	1.998	2.000	2008	
15	Upper Kundlika Project	Beed	DPA	UA	VI	69.18	0.00	4.34	4.34	64.84	60.00	60.00	32.42	2.800	0.000	0	0	2.8	0.000	2012	
16	Tajanapur	A'Nagar	DPA /TA	APP	VI	25.86	16.05	3.84	19.89	5.97	2.11	2.11	5.97	3.622	0.000	1	1	2.622	1.000	2008	
17*	Upper Manar. (Excluding L.I.S. Ahmedpur)	Nanded	DPA /TA	UA	VI	285.02	35.94	66.12	102.06	182.96	182.96	182.96	182.96	6.000	0.000	2	2	4	2.000	2009	
18	Andhali	Satara	DPA	UA	VII	17.97	14.92	2.44	17.36	0.61	0.61	0.61	0.61	1.498	1.350	0	1.35	0.148	0.148	X I Plan	
19	Gadnadi	Ratnagiri	--	UA	VII	167.57	53.84	51.53	105.37	62.20	62.20	62.20	62.20	3.735	0.000	0	0	3.735	3.735	Jun-09	
20	Chandrabhaga	Amravati	DPA /TA	UA	AP 1991 92	179.52	87.93	83.64	171.57	7.95	7.95	7.95	7.95	6.732	0	5.582	5.582	1.15	1.150	2008	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
21	Gautami Godawari Project	Nasik	DPA /TA	UA	VIII	64.90	17.96	27.16	45.12	19.78	16.78	16.78	19.78	6.908	0.000	0	0	6.908	0.000	2008	
22	Kar	Wardha	--	UA(TAC)	VIII	183.00	45.46	54.91	100.37	82.63	82.63	82.63	82.63	6.74	3.50	1	4.5	2.244	2.24	2008-09	
23	Kashyapi Project	Nasik	DPA /TA	UA	VIII	49.33	40.96	3.80	44.76	4.57	1.85	1.85	4.57	5.817	0.000	0	0	5.817	0.000	2008	
24	Kalpathri	Gondia	--	UA	VIII	45.13	17.98	9.14	27.12	18.01	18.01	18.01	18.01	2.05	0.00	1	1	1.05	1.06	2007-08	
25	Wagholibuti LIS	Chandarpur	DPA /TA	UA	VIII	42.32	26.43	10.25	36.68	5.64	5.64	5.64	5.64	4.54	0.00	1.4	1.4	3.142	3.14	2007-08	
26	Morna Gureghar	Satara	DPA	UA	VIII	118.03	4054.00	25.47	66.01	52.02	52.02	52.02	26.01	3.806	0.000	0.34	0.34	3.466	3.406	X I Plan	
27	Nagewadi	Satara	DPA	UA	VIII	51.95	38.17	7.33	45.50	6.45	6.45	6.45	6.45	1.560	0.000	1.3	1.3	0.26	0.960	X I Plan	
28	Jambare	Kolhapur	--	UA	VIII	66.03	4.58	16.43	21.01	45.02	45.02	45.02	22.51	5.350	1.550	0	1.55	3.8	3.800	2008	
29	Purna	Amravati	DPA /TA	APP	VIII	213.1	50.42	133.69	184.11	28.99	28.99	28.99	28.99	7.530	0	6.02	6.02	1.51	1.507	2009	
30	Utawali	Buldana	DPA	APP	VIII	81.48	15.08	46.69	61.77	19.71	19.71	19.71	19.71	5.394	0.000	5.394	5.394	0	0.000		
31	Lalnalla	Wardha/ Chandrapur	DPA /TA	UA(TAC)	VIII	90.37	39.60	25.59	65.19	25.18	25.18	25.18	25.18	7.71	0.00	0.3	0.3	7.408	7.41	2007-08	
32	Karajkheda	Bhandara	--	UA	VIII	82.24	18.38	13.60	31.98	50.26	50.26	50.26	50.26	8.45	0.00	1.2	1.2	7.25	7.25	2007-08	
33	Sondyatola	Bhandara	--	UA	VIII	62.86	21.03	16.97	38.00	24.86	24.86	24.86	24.86	11.01	0.00	3.5	3.5	7.51	5.53	2007-08	
34	Sonapur Tomta	Chandarpur	DPA /TA	APP	VIII	32.18	19.03	7.46	26.49	5.69	5.69	5.69	5.69	2.44	0.00	0.8	0.8	1.64	1.64	2007-08	
35	Ashti	Solapur.	DPA	UA	VIII	70.36	22.71	7.73	30.44	39.92	7.73	39.92	19.96	9.000	0.000	0	0	9	9.000	X I Plan	
36*	Gul	Jalgaon	DPA /TA	APP	VIII	76.25	22.52	26.89	49.41	26.84	26.84	26.84	18.79	3.025	0.000	0.7	0.7	2.325	0.700	2008	
37	Anjani	Jalgaon	DPA /TA	APP	VIII	116.00	38.22	19.82	58.04	57.96	57.96	57.96	28.98	7.902	0.000	0.5	0.5	7.402	0.500	2009	
38	Akkalpada	Dhule	DPA /TA	UA	VIII	274.63	21.45	140.38	161.83	112.80	112.80	112.80	56.40	7.585	0.000	0	0	7.585	0.000	2008-2009	
39	Jamkhedi	Dhule	DPA /TA	UA	VIII	35.27	12.70	18.80	31.50	3.77	3.77	3.77	3.77	2.750	0.000	1	1	1.75	1.000	2007-2008	
40	Suwade Barrage	Dhule	DPA /TA	UA(TAC)	VIII	171.83	74.07	73.79	147.86	23.97	23.97	23.97	23.97	7.560	0.000	0	0	7.56	0.000	2007-2008	
41	Wadi Shewadi	Dhule	DPA /TA	UA	VIII	98.44	18.25	59.33	77.58	20.86	20.86	20.86	20.86	7.180	0.000	0	0	7.18	0.000	2008-2009	
42	Dara	Nandurbar	DPA	UA(TAC)	VIII	41.60	2.85	35.80	38.65	2.95	2.95	2.95	2.95	2.300	0.000	0.7	0.7	1.6	0.700	2007-2008	
43	Naradave	Sindhudurg	--	UA	VIII	208.66	44.27	72.27	116.55	92.11	92.11	92.11	92.11	10.065	0.060	1.06	1.12	8.945	8.945	Jun-09	
44	Nagan	Nandurbar	[illegible]	UA	VIII	62.86	18.21	21.98	40.19	22.67	22.67	22.67	22.67	3.560	0.000	0	0	3.56	0.000	2008-2009	
45	Virchek [Shivan]	Nandurbar	[illegible]	UA(TAC)	VIII	59.80	8.08	37.88	45.96	13.84	13.84	13.84	13.84	3.400	0.000	3.4	3.4	0	3.400	2006-2007	
46	Koradinalla	Nandurbar	DPA	UA	VIII	21.25	0.00	0.00	0.00	21.25	21.25	21.25	10.63	2.740	0.000	0	0	2.74	0.000	2008-2009	
47	Lower chulband	Bhandara	--	UA	VIII	77.77	1.46	3.51	4.97	72.80	72.80	72.80	36.40	10.43	0.00	2.5	2.5	7.934	7.43	2008-09	
48	Prakasha Barrage	Nandurbar	[illegible]	UA(TAC)	VIII	178.91	79.82	92.97	172.79	6.12	6.12	6.12	6.12	10.300	0.000	0	0	10.3	0.000	2008-2009	
49	Sangameshwar	Osmanabad	DPA	UA	VIII	62.38	49.66	3.76	53.42	8.96	8.96	23.66	8.96	3.350	1.700	0	1.7	1.65	0.000	XI Plan	
50	Wakod	Aurangabad	DPA	UA	VIII	43.02	19.18	22.44	41.62	1.40	1.40	1.40	1.40	2.217	0.000	2.217	2.217	0	0.000	2008	
51	Chilhewedi	Pune	DPA /TA	UA	IX	166.43	92.24	74.19	166.43	0.00	0.00	0.00	0.00	6.370	0.000	5.87	5.87	0.5	6.370	X I Plan	
52	Dhapewada LIS	Gondia	--	UA	IX	97.90	38.82	33.10	71.92	25.98	25.98	25.98	25.98	8.05	0.00	4.5	4.5	3.55	2.13	2007-08	
53	Uttarmand	Satara	DPA	UA	IX	102.37	63.54	32.99	96.53	5.84	5.84	5.84	5.84	4.800	0.500	2.365	2.865	1.935	3.675	X I Plan	
54	Wang	Satara	DPA	UA	IX	227.97	88.79	39.57	128.36	99.61	99.61	99.61	49.81	6.200	0.100	0.75	0.85	5.35	5.450	X I Plan	
55	Pimpalgaon (Dhale)	Solapur	DPA	UA	IX	63.30	24.38	27.19	51.57	11.73	27.19	30.00	11.73	3.285	0.000	0.5	0.5	2.785	0.500	X I Plan	
56	Kudali	Satara	DPA	UA	IX	264.49	125.64	56.24	181.88	82.61	82.61	82.61	82.61	5.300	0.000	0	0	5.3	5.300	X I Plan	
57	Bhose Khind	A'Nagar	DPA /TA	UA	IX	99.24	7.00	83.96	90.96	8.28	0.00	0.00	8.28	6.820	0.000	5	5	1.82	5.000	X I Plan	
58	Ghatprabha	Kolhapur	--	UA	IX	85.16	21.55	10.86	32.41	52.75	52.75	52.75	52.75	6.340	0.660	5.68	6.34	0	5.680	2008	
59	Londhanalla	Kolhapur	--	UA	IX	13.06	0.34	0.38	0.72	12.34	12.34	12.34	12.34	0.660	0	0	0	0.66	0.660	Proposed for deletion	
60	Dhamani	Kolhapur	--	UA	IX	279.29	20.08	46.87	66.95	212.34	212.34	212.34	106.17	2.100	0	0	0	2.1	2.100	2009	
61	Ambeohol	Kolhapur	--	UA	IX	50.65	0.14	1.24	1.38	49.27	49.27	49.27	24.64	5.340	0	0	0	5.34	5.340	2009	
62	Sarafnalla	Kolhapur	--	UA	IX	46.56	0.18	1.05	1.23	45.33	45.33	45.33	22.67	3.390	0	0	0	3.39	3.390	2009	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
63	Kamanitanda	Jalgaon	DPA /TA	UA	IX	78.49	18.70	17.11	35.81	42.68	42.67	42.67	21.34	6.032	0.000	3	3	3.032	3.000	2008	
64	Varkhed Londhe	Jalgaon	DPA /TA	UA	IX	181.61	0.07	0.20	0.27	181.34	181.33	181.33	90.67	7.540	0.000	0	0	7.54	0.000	2012	
65	Shelgaon Barrage	Jalgaon.	DPA /TA	UA	IX	255.00	12.45	41.62	54.07	200.93	200.93	200.93	100.47	7.155	0.000	0	0	7.155	0.000	2009	
66	Kurha Vadhoda LIS	Jalgaon	DPA /TA	UA	IX	207.08	0.16	1.64	1.80	205.28	205.28	205.28	205.28	9.725	0.000	0	0	9.725	0.000	2012	
67	Nashirabad LIS	Jalgaon	DPA /TA	UA	IX	141.16	0.02	0.61	0.63	140.53	140.53	140.53	112.42	7.090	0.000	0	0	7.09	0.000	2012	
68	Padmalya LIS	Jalgaon	DPA /TA	UA	IX	94.45	0.05	17.55	17.60	76.85	76.85	76.85	76.85	9.000	0.000	0	0	9	0.000	2010	
69	Manikpunj	Nasik	DPA /TA	UA	IX	32.13	5.56	14.62	20.18	11.95	11.95	11.95	11.95	2.690	0.000	1.5	1.5	1.19	1.190	2007-2008	
70	Sulwade-Jamphal-Kanoli L.I.Scheme	Dhule	DPA /TA	UA	IX	1039.00	0.33	316.23	316.56	722.44	722.44	722.44	361.22	52.720	0.000	0	0	52.72	0.000	2008-2009	
71	Sarangkheda Barrage	Nandurbar	DPA	UA(TAC)	IX	202.47	71.26	103.67	174.93	27.54	27.54	27.54	27.54	11.510	0.000	0	0	11.51	0.000	2008-2009	
72	Prakasha - Burai- L.I.S.	Nandurbar	DPA	UA	IX	153.00	0.01	2.50	2.51	150.49	150.49	150.49	75.25	7.490	0.000	0	0	7.49	0.000	2008-2009	
73	Kalmodi	Pune	DPA /TA	UA	X	119.17	5.27	12.49	17.76	101.41	101.41	101.41	50.71	5.065	0	3.44	3.44	1.625	5.065	2008-09	
74	Mulshi	Pune	DPA /TA	UA	X	11.63	4.00	3.20	7.20	4.43	3.62	3.62	4.43	6.500	0	6.5	6.5	0		2007-08	
75	Sapan River Project	Amravati	DPA /TA	UA	X	174.29	16.39	115.93	132.32	41.97	41.96	41.96	41.97	6.38	0	0	0	6.38	-	2009	
76	Pandhari Project	Amravati	DPA /TA	UA	X	179.42		20.44	20.44	158.98	158.98	158.98	79.49	8.15	0	0	0	8.15	-	2012	
77	Bendara	Chandrapur	DPA /TA	UA	X	79.7	0	19.14	19.14	60.56	60.56	60.56	30.28	4.88	0	0	0	4.88	0	2010	
78	Sambarkund	Raigad	--	UA	X	50.41	0	2.12	2.12	48.29	48.29	48.29	24.15	4.348	0.000	0	0	4.348	4.348	Jun-11	
79	Jamda	Ratnagiri	--	UA	X	166.59	0	19.56	19.56	147.03	147.03	147.03	73.52	5.950	0.000	0	0	5.95	5.950	Jun-11	
80	Arjuna	Ratnagiri	--	UA	X	261.36	3.51	116.72	120.23	141.13	141.15	141.15	70.57	7.10	0	0	0	7.1	7.1	2009-10	
81	Korle-Satandi	Sindhudurga	--	UA	X	121.76	0.50	51.95	52.45	69.31	69.32	69.32	34.66	2.13	0	0	0	2.13	2.13	2009-10	
82	Babhali H.L.Barrage.	Nanded.	DPA /TA	UA	X	149.43	0.07	20.24	20.31	129.12	129.12	129.12	129.12	7.995	0.000	0	0	7.995	7.995	2009	
83	Pothra Nallah		--	APP	X	63.08		0.00	0.00	63.08				9.380		4.221	4.221	5.159			
	Total (Medium)			UA		10051.17	6190.79	2927.50	5104.83	4946.36	4865.01	4924.74	3334.13	526.43	18.41	120.47	138.88	387.55	190.43	300792.00	
C	ERM Projects			UA													0	0			
1	Sangola Br. Canal Project, Tal. Sangola, Dist. Solapur	Satara / Solapur	DPA	UA	VI	288.01	70.42	13.47	83.89	204.12	204.12	204.12	102.06	1.85	1.85	0	1.85	0	0	X I Plan	
2	Extension of Krishna Canal	Satara, Sangli	DPA	UA	VI	25.71	6.00	6.00	19.71	6.00	6.00	6.00	6.00	10.595	2.317	0	2.317	8.278	8.278	X I Plan	
3	Gated weir @ Khodashi	Satara, Sangli	DPA	UA	VI	18.11	5.95	0.00	5.95	12.16	12.16	12.16	12.16	0.000	0.000	0	0	0	0.000	X I Plan	
	Total (ERM)					331.83	82.37	19.47	109.55	222.28	222.28	222.28	120.22	12.45	4.17	0.00	4.17	8.28	8.28		
	TOTAL-II					50928.90	16985.68	9758.33	22738.26	28190.66	22970.70	24947.25	16791.55	3388.33	825.08	355.72	1180.80	2207.54	1432.99		
III	New Projects of XI PLan																0	0			
A	Major Projects																0	0			
1	Upper Tapi St-II	Jalgaon	DPA /TA	UA	IX	907.09	0.22	3.22	3.44	903.65	903.65	903.65	225.91	59.910	0.000	0	0	59.91	0.000	2025	
2	Ekrukh	Solapur.	DPA	UA	X	119.44	7.11	2.07	9.18	110.26	2.07	110.26	27.57	7.200	0.000	0	0	7.2	7.200	X I Plan	
3	Sangola	Solapur.	DPA	UA	X	201.90	0.00	0.00	0.00	201.90	0.00	15.00	50.48	6.525	0.000	0	0	6.525	6.525	X I Plan	
4	Anjansara	Wardha	--	UA	XI	204.5	0	0	0	204.5	204.6	150.6	51.13	24	0	0	0	24	0	2014	
	Total Major					1432.93	7.33	5.29	12.62	1420.31	1110.32	1179.51	355.08	97.64	0.00	0.00	0.00	97.64	13.73		
B	Medium Projects																0	0			
1	Kawathe Kenjle	Satara	DPA	UA	X	83.02	0.01	0.00	0.01	83.01	83.01	83.01	74.71	4.780	0.000	0	0	4.78	4.780	X I Plan	
2	Vasana	Satara	DPA	UA	X	94.64	0.12	0.06	0.18	94.46	94.46	94.46	85.01	4.860	0.000	0	0	4.86	4.860	X I Plan	
3	Wangna	Satara	DPA	UA	X	79.19	0.08	0.03	0.11	79.08	79.08	79.08	71.17	4.200	0.000	0	0	4.2	4.200	X I Plan	
4	Deharji	Thane	TA	UA	X	158.25	0	0.50	0.50	157.75	157.75	157.75	78.88	6.989	0.000	0	0	6.989	6.989	Jun-12	
5	Aruna	Sindhudurg	--	UA	X	178.41	0	8.10	8.10	170.31	170.31	170.31	85.16	5.812	0.000	0	0	5.812	5.812	Jun-11	

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
6	Sarambala	Sindhudurg	--	UA	X	184.73	0	8.75	8.75	175.98	175.98	175.98	87.99	11.142	0.000	0	0	11.142	11.142	Jun-11	
7	Palasgaon Amdi LIS	Chandrapur	DPA /TA	UA	XI	39.16	0	0.00	0.00	39.16	39.16	39.16	35.24	3.7	0	0	0	3.7	0	2010	
8	Borghat-1 LIS	Chandrapur	DPA /TA	UA	XI	69.21	0	0.00	0.00	69.21	69.21	69.21	62.29	6.45	0	0	0	6.45	0	2011	
9	Junasurla LIS	Chandrapur	DPA /TA	UA	XI	48.51	0	0.00	0.00	48.51	48.51	48.51	43.66	6.8	0	0	0	6.8	0	2011	
10	Borghat-2 LIS	Chandrapur	DPA /TA	UA	XI	52.37	0	0.00	0.00	52.37	52.37	52.37	47.13	6.81	0	0	0	6.81	0	2011	
11	Tapal LIS	Chandrapur	DPA /TA	UA	XI	37.92	0	0.00	0.00	37.92	37.92	37.92	34.13	6.66	0	0	0	6.66	0	2011	
12	Haldipurani LIS	Gadchiroli	DPA /TA	UA	XI	44.37	0	0.00	0.00	44.37	44.37	44.37	39.93	4.13	0	0	0	4.13	0	2011	
13	Mahagaon Gara LIS	Gadchiroli	DPA /TA	UA	XI	32.14	0	0.00	0.00	32.14	32.14	32.14	28.93	3.41	0	0	0	3.41	0	2011	
14	Dongargaon Thanegaon LIS	Gadchiroli	DPA /TA	UA	XI	27.1	0	0.00	0.00	27.10	27.1	27.1	24.39	3.95	0	0	0	3.95	0	2011	
15	Deolmari LIS	Gadchiroli	DPA /TA	UA	XI	41.06	0	0.00	0.00	41.06	41.06	41.06	36.95	2.25	0	0	0	2.25	0	2011	
16	Reguntha LIS	Gadchiroli	DPA /TA	UA	XI	33.93	0	0.00	0.00	33.93	33.93	33.93	30.54	3.56	0	0	0	3.56	0	2011	
17	Talodhi Mokasa LIS	Gadchiroli	DPA /TA	UA	XI	44.84	0	0.00	0.00	44.84	44.84	44.84	40.36	6.07	0	0	0	6.07	0	2011	
18	Kawathi LIS	Gadchiroli	DPA /TA	UA	XI	39.52	0	0.00	0.00	39.52	39.52	39.52	35.57	2.61	0	0	0	2.61	0	2011	
19	Kotgal LIS	Gadchiroli	DPA /TA	UA	XI	35.02	0	0.00	0.00	35.02	35.02	35.02	31.52	4.55	0	0	0	4.55	0	2011	
20	Bordinalla	Amravati	DPA /TA	UA	XI	120.83	0	0.00	0.00	120.83	120.83	120.83	60.42	4.126	0	0	0	4.126	0	2011	
21	Dhangarwadi	Satara	Partly DPA	UA	XI	33.08	0.00	0.00	0.00	33.08	33.08	33.08	29.77	2.500	0.000	0	0	2.5	2.500	X I Plan	
22	Hanbarwadi	Satara	DPA	UA	XI	39.37	0.00	0.00	0.00	39.37	39.37	39.37	35.43	2.600	0.000	0	0	2.6	2.600	X I Plan	
23	Anala	O'sbd	DPA	UA	XI	50.86	0.00	0.00	0.00	50.86	0.00	20.00	45.77	1.900	0.000	0	0	1.9	1.900	X I Plan	
24	Shirla	O'sbd	DPA	UA	XI	30.00	0.00	0.00	0.00	30.00	0.00	20.00	27.00	2.850	0.000	0	0	2.85	2.850	X I Plan	
25	Sina Mekheri	Beed	DPA	UA	XI	60.80	0.00	0.00	0.00	60.80	0.00	20.00	54.72	0.000	0.000	0	0	0	0.000	X I Plan	
26	Chimboda	Raigad	--	UA	XI	139.51	0	0.00	0.00	139.51	139.51	139.51	69.76	4.894	0.000	0	0	4.894	4.894	Jun-13	
27	Lohara L.I.Scheme	Hingoli	--	UA	XI	40.78	0	0.00	0.00	40.78	0.00	0.00	36.70	2.220	0.000	0	0	2.22	0.000	--	
	Total					1838.62	0.21	17.44	17.65	1820.97	1638.53	1698.53	1333.12	119.82	0.00	0.00	0.00	119.82	52.53	192030.00	0.00
C	ERM Projects	NIL																			
	TOTAL (A+B+C)					3271.55	7.54	22.73	30.27	3241.28	2748.85	2878.04	1688.20	217.46	0.00	0.00	0.00	217.46	66.25		
IV	Spl.repairs of Existing Irrigation Systems																0	0			
1	Bor Major	Wardha	0	Not Yet	XI	1.86	0	0	0	1.86	1.86	1.86	1.86	16.194	16.194	0	16.194	0	0	2009	
2	Dham Medium	Wardha	0	Not Yet	XI	1.2	0	0	0	1.2	1.2	1.2	1.20	9.5	9.5	0	9.5	0	0	2009	
3	Pothara Med.	Wardha	0	0	XI	1.29	0	0	0	1.29	1.29	1.29	1.29	11.632	5.677	0.01	5.687	5.945	0.595	2009	
	Total					4.35	0.00	0.00	0.00	4.35	4.35	4.35	4.35	37.33	31.37	0.01	31.381	5.945	0.60		
V	Dam SafetyMeasures																0	0			
	Nil																0	0			
VI	Improved Water management																0	0			
	Nil																0	0			
VII	Water Development																0	0			
	Nil																0	0			
A	Survey & Investigations																0	0			
B	Research & Development including provisions for jalsoudha																0	0			
C	Training																0	0			
D	National Hydrology Projects																0	0			
	Total of VII																0	0			

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expenditure during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Grand Total					59492.42	20159.42	11077.23	27230.90	32261.54	26552.28	28649.09	19172.73	4140.50	1164.15	470.14	1634.30	2506.21	1571.72		
STATE: MANIPUR																					
I	Liabilities for completed Project																				
	Total of -I	Nil																			
II	Ongoing Projects																				
A	Major Projects																				
a																					
1*	Khuga Multipurpose Project	Churachanpur & Bisnupur	TA	APP	VI	300.54	149.63	135.91	285.54	15.00	15.00	15.00	15.00	15.00	0.00	15.00	15.00	0.00	0.00	2006-07	Due to financial constraint and law and order situation
2*	Thoubal Multipurpose Project	Imphal East & Thoubal	TA	APP	VI	535.55	198.98	208.57	407.55	128.00	234.10	234.10	128.00	33.40	4.00	4.00	4.00	29.40	29.00	2008-09	-do-
	Sub-total					836.09	348.61	344.48	693.09	143.00	249.10	249.10	143.00	48.40	4.00	15.00	19.00	29.40	29.00		
B	Medium Projects																				
1*	Dolaithabi Barrage Project	Imphal East	TA	APP	VIII	98.37	19.89	38.23	58.12	40.25	57.00	57.00	40.25	7.55	0.00		0	7.55	7.55	2008-09	-do-
	Sub-total					98.37	19.89	38.23	58.12	40.25	57	57	40.25	7.55	0	0	0	7.55	7.55		
C	ERM Projects																				
1	Mod. Of Loktak Lift Irr.	Bishenpur	--	UA	VIII	4.48	0.00	0.00	0.00	4.48	4.48	4.48	0.45	3.6	0.00	0.00	0.00	3.60	3.60	2008-09	New
2	Mod. Of Imphal Barrage	Thoubal	--	UA	VIII	2.83	0.00	0.00	0.00	2.83	2.83	2.83	0.28	5.3	0.00	0.00	0.00	5.30	5.30	2008-09	New
3	Mod. Of Sekmai Barrage.	Thoubal	--	UA	VIII	7.44	0.00	0.00	0.00	7.44	7.44	7.44	0.74	5.36	0.00	0.00	0.00	5.36	5.36	2008-09	New
4	Mod. Of Khoupum Dam	Tamenglong	--	UA	VIII	2.2	0.00	0.00	0.00	2.2	2.2	2.2	0.22	2.45	0.00	0.00	0.00	2.45	2.45	2008-09	New
	Sub-total					16.95	0	0	0	16.95	16.95	16.95	16.95	16.71	0	0	0	16.71	16.71		
	Total of -II					951.41	368.50	382.71	751.21	200.20	323.05	323.05	200.20	72.66	4.00	15.00	19.00	53.66	53.26		
III	New Project of XI Plan																				
A.	Major Projects																				
1	Chakpi Multipurpose Project	Chandel	TA	UA		160.00	0.00	0.00	0.00	160.00	160.00	160.00	16.00	12.00	0.00	0.00	0.00	12.00	12.00		
	Sub-total					160.00	0.00	0.00	0.00	160.00	160.00	160.00	16.00	12.00	0.00	0.00	0.00	12.00	12.00		
B	Medium Projects																				
1	Iril Multipurpose Project	Senapati,Imphal East	TA	UA		110.00	0.00	0.00	0.00	110.00	110.00	110.00	11.00	6.45	0.00	0.00	0.00	6.45	6.45	2008-09	New
2	Sekmai River Project	Thoubal	--	UA		100.00	0.00	0.00	0.00	100.00	100.00	100.00	10.00	3.50	0.00	0.00	0.00	3.50	3.50	2008-09	New
3	Regional Jiri Irrigation Project	Imphal East,Assam	TA	UA		86.67	0.00	0.00	0.00	86.67	86.67	86.67	8.67	9.78	0.00	0.00	0.00	9.78	9.78	2008-09	New
	Sub-total					296.67	0.00	0.00	0.00	296.67	296.67	296.67	29.67	19.73	0.00	0.00	0.00	19.73	19.73		
C	ERM Projects																				
1	Singda Irrigation Project	Senapati,Imphal West	Ta	UA	VIII	3.62	0.00	0.00	0.00	3.62	3.62	3.62	0.36	0.85	0.00	0.00	0.00	0.85	0.40	2008-09	New
	Sub-total					3.62	0.00	0.00	0.00	3.62	3.62	3.62	0.36	0.85	0.00	0.00	0.00	0.85	0.40		
	Total of -III					460.29	0.00	0.00	0.00	460.29	460.29	460.29	46.03	32.58	0.00	0.00	0.00	32.58	32.13		
IV	Spl.repair of existing Irrg. systems																				
	Total of -IV																				
V	Dam Safty Measures																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	1. Khuga Multipurpose Project	Churachanpur			New						1.00	1.00									
	2. Thoubal Multipurpose Project	Senapati,Ukhrul			New						1.00	1.00									
	Total of -V										2.00	2.00	2.00								
VI	Improvement water Management																				
	Total of -VI																				
VII	Water Development																				
A	Survey & Investigation																				
B	Research & Development including provision for Jalasoudha																				
C	Training																				
D	National Hydrology Projects.																				
	Total for VII																				
	Grant Total					1411.70	368.50	382.71	751.21	660.49	785.34	785.34	248.23	105.24	4.00	15.00	19.00	86.24	85.39		
STATE:- MEGHALAYA																					
I	Liabilities of Completed Projects	Nil																			
	Total of 1																				
II.	Ongoing Projects																				
	(A).Major Projects	Nil																			
	(B).Medium Project																				
1*	Rongai Valley Project	West Garo Hills	TA	APP	VIII	131.72	17.15	1.85	18.99	112.73	113.794	113.794	56.3625	4.78	0.00			4.775			
	(C) ERM	Nil																			
	Total-II					131.72	17.15	1.85	18.99	112.73	113.79	113.79	56.36	4.78	0.00	0.00	0.00	4.78	0.00		
III.	New Projects of XI Plan																				
	Total of III																				
IV	Spl.repairs of Existing Irrigation System																				
	Total of IV																				
V	Dam Safety Measures																				
	Total of V																				
VI	Improved water Management																				
	Total of VI																				
VII	Water Development																				
	Total of VII																				
	Grand Total					131.72	17.15	1.85	18.99	112.73	113.79	113.79	56.36	4.78	0.00	0.00	0.00	4.78	0.00		
STATE - NAGALAND																					
I	Liabilities of Completed Projects																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A	Major Projects	NIL																			
	Sub total																				
B	Medium Projects																				
	Sub total																				
C	ERM Projects																				
	Sub total																				
	Total of 1																				
II	Ongoing Projects																				
A	Major Projects	NIL																			
	Sub total																				
B	Medium Projects																				
1	Dzuza Medium Irrigation Project	Dimapur	TA	UA	X	70.00	_	20.00	20.00	50.00	50.00	50.00	25.00	9.54	_	2	2	7.54	7.54	2008-09	
	Sub total					70.00	_	20.00	20.00	50.00	50.00	50.00	50.00	9.54	_	2.00	2.00	7.54	7.54		
C	ERM Projects																				
	Sub total																				
	Total -I																				
a	Externally aided Projects	NOT APPLICABLE																			
	Sub total																				
b	Inter state Projects																				
	Sub total	NIL																			
c	Pre-V Plan Projects																				
	Sub total	NIL																			
d	Other Projects																				
	Sub total	NIL																			
	SubTotal (Major)	NIL																			
B	Medium Projects																				
	Sub total(Medium)	NIL																			
C	ERM Projects																				
	Sub total(ERM)	NIL																			
	Total - II	NIL																			
III	New Projects of XI Plan																				
A	Major Projects	NIL																			
	Sub total (Major)	NIL																			
B	Medium Projects	NIL																			
C	ERM Projects	NIL																			
	Total - III																				
IV	Spl repairs of Existing Irrigation System	NIL																			
	Total ot IV																				
V	Dam Safety Measures	NIL																			
	Total of V																				
VI	Improved water Management	NIL																			

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Total of VI																				
VII	Water Development	NIL																			
A	Sruvey & Investigations	NIL																			
	Sub Total (Sur. & Inv.)	NIL																			
B	Research & Develoment	NIL																			
	Including Provisions for																				
	Jalasoudha																				
C	Tarining	NIL																			
D	National Hydrology	NIL																			
	Project																				
	Total of VII	NIL																			
	Grand Total					70.00	_	20.00	20.00	50.00	50.00	50.00	50.00	9.54	0.00	2.00	2.00	7.54	7.54		
State - ORISSA																			Rs.in Crore / Potential		
I	Liabilities of Completed Projects																				
A	Major Projects																				
1	Potteru Irrigation Project	Malkangiri	TA	APP	IV	220.25	175.62	44.63	220.25	0.00	10.00	10.00	10.00	109.86	77.33	31.7	109.03	0.83	0.00	Completed	
2*	Upper Kolab Irr. Project	Koraput	TA	APP	V	333.97	303.74	30.23	333.97	0.00				85.89	44.03	29.11	73.14	12.75	0.00	Completed	
3*	Upper Indravati Irrigation Project																	0.00			
	a. Barrage , Left & Right Canal system	Kalahandi	DTA	APP	AP-1978-80	459.39	417.06	42.33	459.39	0.00	0.00	0.00		125.09	74.60	50.49	125.09	0.00	0.00	Completed	-
4*	Rengali Left Bank Canal (RD 0.00 to 29.177 Km.)	Anugul & Dhenkanal	DPA	APP	VIII	237.23	156.12	81.11	237.23	0.00				8.48	5.36	3.12	8.48	0.00	0.00	Completed	
5	Mahanadi Chitrotpala Island Irrigation	Cuttack,Kendrapada & J.S Pur	--	APP	VII	229.00	183.43	45.57	229.00	0.00				25.46	10.90	2.00	12.90	12.56	0.00	Partly completed due to closure of WRCP, Balance Work Proposed to be taken up Through ADB funding.	
	Sub-Total					1479.84	1235.97	243.87	1479.84	0.00	10.00	10.00	10.00	354.78	212.22	116.42	328.64	26.14	0.00		
B	Medium Projects									0.00											
1	Hariharjore	Sonepur	DPA	APP	AP-1978-80	86.40	79.24	7.16	86.40	0.00				13.70	9.95	3.75	13.70	0.00	0.00	Completed	
2	Harbhangi	Gajapati & Ganjam	TA	APP	AP-1978-80	146.84	132.98	13.86	146.84	0.00				13.79	9.15	4.64	13.79	0.00	0.00	Completed	
3	Badanalla	Rayagada	TA	APP	VI	126.18	115.09	11.09	126.18	0.00	5.00	5.00	5.00	14.46	8.80	5.66	14.46	0.00	0.00	Completed	
4	Upper Jonk	Nuapada	DPA	APP	VI	102.60	98.91	3.69	102.60	0.00				12.69	9.43	3.26	12.69	0.00	0.00	Completed	
5	Baghua St-II	Ganjam	TA	APP	VII	73.19	60.24	12.95	73.19	0.00				3.69	3.69	0.00	3.69	0.00	0.00	Completed	
6	Sapua Badjore	Dhenkanal	DPA	APP	VII	43.17	40.36	2.81	43.17	0.00				3.53	2.27	0.35	2.62	0.91	0.00	Completed	
	Sub-Total					578.38	526.82	51.56	578.38	0.00	5.00	5.00	5.00	61.86	43.29	17.66	60.95	0.91	0.00	0.00	0.00
C	ERM & Other Projects																				
1*	Naraj Barrage	Cuttack	--	APP	VIII	215.96	173.24	42.72	215.96	0.00				No Direct Physical						Completed	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
2	WRCP (26 Projects) Except Scheme Completion	Whole State	DPA/TA	APP	VIII	517.27	382.87	134.40	517.27	0.00	-	-		Stabilisation of Existing ayacut							
3	Gobardhanpur Barrage	Puri	--	UA(TAC)	VIII	12.73	11.92	0.81	12.73	0.00	-	-		5.00	5.00	0.00	5.00	0.00	0.00	Completed	
4	Salandi (Ambahata Canal)	Bhadrak	--	UA(TAC)	IX	9.69	1.47	8.22	9.69	0.00	-	-		3.65	0.00	3.65	3.65	0.00	0.00	Completed	
5	Upper jonk Extn.(Kharakhara)	Nuapada	DPA	UA(TAC)	IX	24.42	6.03	18.39	24.42	0.00	-	-		1.70	0.70	1.00	1.70	0.00	0.00	Completed	
-	Baghua Dhanei Doab	Ganjam	TA	UA(TAC)	IX	11.37	2.86	8.51	11.37	0.00	-	-		1.95	0.90	1.05	1.95	0.00	0.00	Completed	
6	Gobakunda H.L Bridge	Puri	--	UA(TAC)	IX	6.71	5.35	1.36	6.71	0.00	-	-		No Physical						Completed	
7	Budhabudhiani Extn.	Nayagarh	--	UA(TAC)	IX	5.31	4.56	0.75	5.31	0.00	-	-		1.00	1.00	0.00	1.00	0.00	0.00	Completed	
8	Ghodahado Extn.	Ganjam	TA	UA(TAC)	IX	3.22	2.50	0.72	3.22	0.00	-	-		0.65	0.65	0.00	0.65	0.00	0.00	Completed	
9	Dhanei Extn.	Ganjam	TA	UA(TAC)	IX	2.79	2.27	0.52	2.79	0.00	-	-		0.71	0.71	0.00	0.71	0.00	0.00	Completed	
10	Hiradharbati Extn.	Ganjam	TA	UA(TAC)	IX	1.32	0.93	0.39	1.32	0.00	-	-		0.59	0.59	0.00	0.59	0.00	0.00	Completed	
11	Kanjhari Extn.	Keonjhar	TA	UA(TAC)	IX	7.54	7.41	0.13	7.54	0.00	-	-		1.60	1.60	0.00	1.60	0.00	0.00	Completed	
-	Sunder Extn.	Nuapada	TA	UA(TAC)	IX	1.99	1.63	0.36	1.99	0.00	-	-		0.63	0.63	0.00	0.63	0.00	0.00	Completed	
12	Salia Extn.	Khurda	--	UA(TAC)	IX	3.48	3.43	0.05	3.48	0.00	-	-		1.01	1.01	0.00	1.01	0.00	0.00	Completed	
-	Dumerbahal Extn.	Nuapada	DPA	UA(TAC)	IX	3.58	2.80	0.78	3.58	0.00	-	-		0.77	0.00	0.77	0.77	0.00	0.00	Completed	
-	Guneimuhan Creek	J.S.Pur	--	UA(TAC)	IX	1.01	0.20	0.81	1.01	0.00	-	-		1.80	0.00	1.80	1.80	0.00	0.00	Completed	
-	Prachi Kundei Creek	Puri	--	UA(TAC)	IX	2.99	1.77	1.22	2.99	0.00	-	-		No Physical						Completed	
-	Alaka Hansua Drain	Cuttack	--	UA(TAC)	IX	6.71	4.89	1.82	6.71	0.00	-	-		No Physical						Completed	
-	Ramiala	Dhenkanal	DPA	UA(TAC)	IX	1.85	1.56	0.29	1.85	0.00	-	-		No Physical						Completed	
-	Nagarighat Creek	J,S.Pur	--	UA(TAC)	IX	1.40	1.03	0.37	1.40	0.00	-	-		1.95	1.95	0.00	1.95	0.00	0.00	Completed	
-	Imp. to Sason Canal	Sambalpur	TA	APP	X	42.33	0.00	42.33	42.33	0.00	-	-		Stabilisation of							
-	Imp. to Salki Project	Boudh	DPA	APP	X	12.41	0.00	12.41	12.41	0.00	-	-		Stabilisation of							
13	Poichandia Canal (Bahuda Extn.)	Ganjam	TA	UA(TAC)	X	4.23	0.00	4.23	4.23	0.00	-	-		0.74	0.00	0.74	0.74	0.00	0.00	Completed	
14	Imp. to Road of Saradapur Kaniabadi Disty.	Khurda	--	UA(TAC)	X	1.01	0.00	1.01	1.01	0.00	-	-		No Physical Benefit						Completed	
-	Baldiha Diversion weir	Mayurbhanj	TA	UA(TAC)	X	2.32	0.00	2.32	2.32	0.00	-	-		No Physical						Completed	
-	Taladanda Canal Bridge	J.S.Pur	--	UA(TAC)	X	0.47	0.00	0.47	0.47	0.00	-	-		No Physical						Completed	
	Sub-Total					688.15	445.48	242.67	688.15	0.00	0.00	0.00	0.00	23.75	14.74	9.01	23.75	0.00	0.00		
	TOTAL -I					2746.37	2208.27	538.10	2746.37	0.00	15.00	15.00	15.00	440.39	270.25	143.09	413.34	27.05	0.00	0.00	0.00
II	Ongoing Projects									0.00											
A	Major Projects									0.00											
a	Externally Aided Projects									0.00											
*1	Rengali Left Bank Canal (RD. 29.177 Km. to 71.313 Km.)	Anugul & Dhenkanal	DPA	APP	IX	686.00	191.65	277.52	469.17	216.83	216.83	264.54	216.83	55.44	0.00	5.78	5.78	49.66	49.66	2008-09	L.A, Forest Clearance, Legal Problem
	Sub-Total					686.00	191.65	277.52	469.17	216.83	216.83	264.54	216.83	55.44	0.00	5.78	5.78	49.66	49.66		
b.	Inter State Projects									0.00											
*1	1.Subernarekha Irr. Project									0.00											
a)	Subernarekha Part-I (Jambhira Truncated under RIDF scheme)	Mayurbhanj & Balasore	TA	APP	VII	70.16	70.16	0.00	70.16	0.00	0.00	0.00		3.90	2.95	0.95	3.90	0.00	0.00	Completed	
b)	Subernarekha Part-II under AIBP					1068.87	157.75	217.01	374.76	694.11	400.00	488.00	485.88	63.11	1.00	0.00	1.00	62.11	62.11	Beyond XI Plan	Interstate Problem till 2002-03 & LA
c)	Subernarekha Part-III					1269.49	237.90	0.00	237.90	1031.59	0.00	0.00		120.47	0.00	0.00	0.00	120.47	0.00	Beyond XI Plan	Project work presently deferred

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Sub-Total					2408.52	465.81	217.01	682.82	1725.70	400.00	488.00	485.88	187.48	3.95	0.95	4.90	182.58	62.11		
c.	Pre-V Plan Project									0.00											
d.	Other Projects									0.00											
*1	Kanupur Irrigation Project	Keonjhar	TA	APP	VIII	625.00	23.92	24.44	48.36	576.64	300.00	366.00	403.65	47.70	0.00	0.00	0.00	47.70	15.00	Beyond XI Plan	Funds Constraint, Project taken up
*2	Lower Indra Irrigation Project	Nuapada & Bolangir	DPA	APP	IX	528.98	44.02	289.39	333.41	195.57	195.57	238.59	136.90	38.87	0.00	7.25	7.25	31.62	31.62	2008-09	R&R, L.A
*3	Lower Suktel Irrigation Project	Bolangir & Sonepur	DPA	APP	IX	585.05	17.42	92.23	109.65	475.40	475.40	579.99	332.78	40.42	0.00	0.00	0.00	40.42	40.42	2011-12	R&R, L.A
--	Rengali Right Bank Canal (RD 0.00 km. to 79.00 Km.)	Anugul & Dhenkanal	DPA	APP	IX	629.35	258.36	181.41	439.78	189.57	189.57	231.28	132.70	35.02	0.00	8.16	8.16	26.86	26.86	2008-09	L.A, Forest Clearance, Legal Problem
4*	Integrated Anandapur Barrage Project (Salandi Sanskar Project, Anandapur BarragePh-II & Anandapur Barrage Ph-I Extn.)	Keonjhar,Bhadrak, Balasore	TA	APP	X	617.48	13.69	33.81	47.50	569.98	350.00	427.00	284.99	62.60	5.50	0.38	5.88	56.72	15.00	Beyond XI Plan	Project taken up under AIBP during 2003-04
*5	Telengiri	Koraput	TA	APP	X	106.18	1.37	50.46	51.82	54.36	54.36	66.32	38.05	13.83	0.00	0.00	0.00	13.83	13.83	2011-12	Funds Constraint & Project taken up
	Sub-Total					3092.04	358.78	671.74	1030.53	2061.51	1564.90	1909.18	1329.06	238.44	5.50	15.79	21.29	217.15	142.73		
	Total major					6186.56	1016.24	1166.27	2182.51	4004.05	2181.73	2661.71	2031.78	481.36	9.45	22.52	31.97	449.39	254.50		
B.	Medium Projects									0.00											
1	Deo Irr. Project	Keonjhar & Mayurbhanj	TA	APP	VI	148.58	30.59	24.24	54.84	93.74	93.74	114.36	46.87	15.82	0.00	0.00	0.00	15.82	15.82	2011-12	R&R ,LA
2*	Titilagarh Irr. Project	Bolangir	DPA	APP	VII	56.44	18.19	29.45	47.64	8.80	8.80	10.73	6.16	2.67	0.47	1.00	1.47	1.20	1.20	2007-08	R&R ,LA
3	Bagh Barrage Project	Boudh	DPA	APP	VIII	75.65	34.56	20.53	55.09	20.56	20.56	25.09	16.45	12.36	1.85	4.00	5.85	6.51	6.51	2008-09	LA, & Forest clearance
4	Baghalati Irr. Project	Ganjam	TA	APP	VIII	121.89	51.07	42.90	93.96	27.93	27.93	34.07	22.34	6.05	3.41	1.01	4.42	1.63	1.63	2008-09	LA, R&R
5	Manjore Irr. Project	Anugul	--	UA(TAC)	VIII	99.53	56.40	41.67	98.07	1.46	1.46	35.00	0.73	10.44	0.00	2.30	2.30	8.14	8.14	2008-09	Funds Constraint
6	Rukura Irr. Project	Sundergarh	TA	UA(TAC)	IX	95.77	2.68	12.25	14.93	80.84	80.84	98.62	20.21	7.65	0.00	0.00	0.00	7.65	7.65	2011-12	R&R ,LA & Funds Constraint
7	Rajua Diversion Weir	Khurda	--	UA(TAC)	IX	14.31	0.06	4.30	4.36	9.95	9.95	12.14	2.49	2.69	0.00	0.00	0.00	2.69	2.69	2009-10	Legal Problem
*8	Cheligada Dam Project	Ganjam	TA	APP	X	78.73	0.02	17.61	17.63	61.10	61.10	74.54	42.77	3.12	0.00	0.00	0.00	3.12	3.12	2011-12	Funds Constraint & Project taken up
*9	Ret Irrigation Project	Kalahandi	DPA/TA	APP	X	151.27	0.04	36.15	36.19	115.08	115.08	140.39	80.55	9.77	0.00	0.00	0.00	9.77	9.77	2011-12	Funds Constraint & Project taken up
10	Hadua (Dalak) Irr. Project	Cuttack	--	UA(TAC)	X	95.44	0.00	17.59	17.59	77.85	77.85	94.98	19.46	5.72	0.00	0.00	0.00	5.72	5.72	2011-12	Not Applicable
	Sub-Total					937.61	193.62	246.68	440.30	497.31	497.31	639.94	258.04	76.29	5.73	8.31	14.04	62.25	62.25		
C.	ERM & Other Projects									0.00											
1	Daha Extn.	Ganjam	TA	UA(TAC)	X	10.24	0.00	3.07	3.07	7.17	7.17	8.75	3.59	1.82	0.00	0.00	0.00	1.82	1.82	2008-09	Not Applicable
2	Ong Extn.	Sonepur	DPA	UA(TAC)	X	26.88	0.00	1.00	1.00	25.88	25.88	31.57	12.94	5.13	0.00	0.00	0.00	5.13	5.13	2008-09	Not Applicable
3	Bahuda Renovation	Ganjam	TA	UA(TAC)	X	9.54	0.00	3.28	3.28	6.26	6.26	7.64	3.13	Stabilisation of						2008-09	Not Applicable
4	Satiguda MIP	Malkangiri	--	UA(TAC)	X	4.29	0.00	2.00	2.00	2.29	2.29	2.79	1.15	Stabilisation of						2008-09	Not Applicable
5	Salia Extn.(Sumandal Canal)	Ganjam	TA	UA(TAC)	X	2.62	0.00	2.01	2.01	0.62	0.62	0.75	0.62	0.55	0.00	0.40	0.40	0.15	0.15	2007-08	Not Applicable
6	Malibasa Tantiapal Creek	Kendrapada	--	UA(TAC)	X	6.75	0.00	6.69	6.69	0.06	0.06	1.00	0.06	8.00	0.00	4.00	4.00	4.00	4.00	2007-08	Not Applicable
7	Kathilogotha Creek	Khurda	--	UA(TAC)	X	3.61	0.00	2.26	2.26	1.35	1.35	1.64	1.35	1.76	0.00	1.00	1.00	0.76	0.76	2007-08	Not Applicable
8	Weekhia Creek	Khurda	--	UA(TAC)	X	4.78	0.00	1.04	1.04	3.74	3.74	4.56	3.74	2.30	0.00	0.00	0.00	2.30	2.30	2008-09	Not Applicable
9	Galiajore Creek	Bhadrak	--	UA(TAC)	X	3.56	0.00	2.15	2.15	1.41	1.41	1.72	1.41	2.10	0.00	0.00	0.00	2.10	2.10	2007-08	Not Applicable
10	Arjunbindha Creek	Bhadrak	--	UA(TAC)	X	2.60	0.00	1.00	1.00	1.60	1.60	1.95	1.60	2.80	0.00	0.00	0.00	2.80	2.80	2007-08	Not Applicable
11	Rajkanika Creek	Kendrapada	--	UA(TAC)	X	3.72	0.00	1.05	1.05	2.67	2.67	3.25	2.67	3.58	0.00	0.00	0.00	3.58	3.58	2008-09	Not Applicable
12	Tikarapada Creek	Puri	--	UA(TAC)	X	1.19	0.00	1.12	1.12	0.07	0.07	0.09	0.07	1.00	0.00	0.00	0.00	1.00	1.00	2007-08	Not Applicable
13	Embankment Protection Work/Rushikulya,Mahamadp	Jajpur & Ganjam	TA	UA(TAC)	X	10.97	0.00	3.25	3.25	7.72			7.72								Not Applicable
14*	Upper Indravati Extn.	Kalahandi	DTA	APP	X	136.67	1.06	128.20	129.26	7.41	90.00	109.80	5.19	41.79	0.00	2.00	2.00	39.79	39.79	2008-09	Funds Constraint, Project taken up

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Sub-Total					227.42	1.06	158.11	159.17	68.25	143.12	175.53	45.23	70.83	0.00	7.40	7.40	63.43	63.43		
	Total-II					7351.59	1210.92	1571.06	2781.98	4569.61	2822.16	3477.18	2335.04	628.48	15.18	38.23	53.41	575.07	380.18		
III	New Projects of XI Plan									0.00											
A.	Major Projects									0.00											
1	Rengali Left Bank Canal (RD. 71.313 Km. to 141.00 Km.)	Dhenkanal,Keonjhar &Jajpur	DTA	APP	Not Started	870.00	0.00	0.00	0.00	870.00	870.00	50.00	870.00	123.50	0.00	0.00	0.00	123.50	5.00	Beyond XI Plan	Not Started due to funds constraint
2	Rengali Right Bank Canal (RD 79.00 Km. to 95.00 Km.) including Narsingpur & Darpani Br. Canal	Dhenkanal,& Cuttack	DPA	APP	Not Started	777.32	0.00	0.00	0.00	777.32	777.32	50.00	777.32	135.83	0.00	0.00	0.00	135.83	5.00	Beyond XI Plan	Not Started due to funds constraint
3	Mahanadi Basin Development Plan (Major & Medium Irr. Component Only) - Major Projects to be taken up under this proposal are Brutang,Dhauragoth,Ong Dam,IB,Upper Lanth)	Whole State	DPA/TA	U.A	Not Started	2493.76	0.00	1.00	1.00	2492.76	2492.76	1100.00	2492.76	180.185	0.00	0.00	0.00	180.19	0.00	Beyond XI Plan	Not Applicable
4	Upper Indravati Megalift Project	Kalahandi	DPA/TA	U.A	Not Started	524.00	0.00	0.00	0.00	524.00	524.00	50.00	524.00	43.048	0.00	0.00	0.00	43.05	5.00	Beyond XI Plan	Not Applicable
5	Baideswar Megalift Project	Nayagarh	--	U.A	Not Started	414.00	0.00	0.00	0.00	414.00	414.00	50.00	414.00	34.643	0.00	0.00	0.00	34.64	5.00	Beyond XI Plan	Not Applicable
	Sub-Total					5079.08	0.00	1.00	1.00	5078.08	5078.08	1300.00	5078.08	517.21	0.00	0.00	0.00	517.21	20.00		
B.	Medium Projects									0.00											
1	Mahendratanaya	Gajapati	--	TAC	Not Started	100.98				100.98	100.98	20.00	20.00	9.50				9.50	0.00	Beyond XI Plan	Not Applicable
2	Ghatakeswar	Ganjam	TA	U.A	Not Started	29.10				29.10	29.10	29.10	14.55	0.5				0.50	0.50	2011-12	Not Applicable
3	TuriGuntat	Nowrangpur	--	U.A	Not Started	100.00				100.00	100.00	25.00	25.00	9.135				9.14	0.00	Beyond XI Plan	Not Applicable
4	Lower Nagabali	Rayagada	--	U.A	Not Started	85.00				85.00	85.00	15.00	15.00	12.456				12.46	0.00	Beyond XI Plan	Not Applicable
5	Surubalijore	Sonepur	DPA	U.A	Not Started	71.00				71.00	71.00	15.00	15.00	4.962				4.96	0.00	Beyond XI Plan	Not Applicable
6	Lamdora	Sambalpur	TA	U.A	Not Started	75.00				75.00	75.00	10.00	7.50	9.73				9.73	0.00	Beyond XI Plan	Not Applicable
7	Ahirajore	Jharsuguda	--	U.A	Not Started	25.00				25.00	25.00	25.00	12.50	2.22				2.22	2.22	2011-12	Not Applicable
8	Champalijore	Sambalpur	TA	U.A	Not Started	40.00				40.00	40.00	25.00	20.00	4.957				4.96	2.00	Beyond XI Plan	Not Applicable
9	Sandul	Kalahandi	DPA/TA	U.A	Not Started	33.00				33.00	33.00	20.00	16.50	3.24				3.24	1.24	Beyond XI Plan	Not Applicable
10	Jeera	Bargarh	--	UA	Not Started	50.00				50.00	50.00	15.00	15.00	3.85				3.85	1.85	Beyond XI Plan	Not Applicable
11	Ranjore	Bargarh	--	UA	Not Started	27.00				27.00	27.00	20.00	13.50	2.55				2.55	1.00	Beyond XI Plan	Not Applicable
12	Vamsadhara	Koraput	TA	U.A	Not Started	120.00				120.00	120.00	15.00	15.00	15.34				15.34	0.00	Beyond XI Plan	Not Applicable
13	Samakoi	Anugul	--	TAC	Not Started	43.85				43.85	43.85	25.00	21.93	10.886				10.89	2.00	Beyond XI Plan	Not Applicable
14	Katra	Mayurbhanj	TA	UA/(TAC)	Not Started	90.00				90.00	90.00	20.00	20.00	10.4				10.40	0.00	Beyond XI Plan	Not Applicable
15	3 nos Megalift Projects (Munduli. Banapur &	Cuttack & Nayagarh	--	U.A	Not Started	233.99				233.99	233.99	15.00	15.00	20.336				20.34	5.00	Beyond XI Plan	Not Applicable
16	Creek Irrigation Projects.	N A	--	U.A	Not Started					0.00	40.00	48.80	0.00	9.87				9.87	9.87	2011-12	Not Applicable
	Sub-Total					1123.92	0.00	0.00	0.00	1123.92	1163.92	342.90	246.48	129.93	0.00	0.00	0.00	129.93	25.68		
C.	ERM Projects & Other Project									0.00											
1	Orissa Integrated Irrigated Agriculture & Water Management Project(Major & Medium Irr. Component Only)	Whole State	DTA	APP	Not Started	785.76	0.00	0.00	0.00	785.76	785.76	728.23	392.88	Stabilisation of Existing ayacut						Beyond XI Plan	Not Applicable
2	Imp to drainage System at Kanas & Satyabadi Block	Puri	--	U.A	X	20.00	0.00	8.00	8.00	12.00	12.00	14.64	6.00	Retrival of Water logged area							Not Applicable
	Sub-Total					805.76	0.00	8.00	8.00	797.76	797.76	742.87	398.88	0.00	0.00	0.00	0.00	0.00	0.00		

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Total of (III)					7008.76	0.00	9.00	9.00	6999.76	7039.76	2385.77	5723.44	647.14	0.00	0.00	0.00	647.14	45.68		
IV	Special Repairs of Existing Irrigation System																				
1	Potteru Irr. Project	Malkangiri	TA	U.A	Not Started	0.00						50.00									Not Applicable
2	Upper Kolab Irr. Project	Koraput	TA	U.A	Not Started	0.00						40.00									Not Applicable
	TOTAL OF(IV)					0.00	0.00	0.00	0.00	0.00	0.00	90.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00		
V	Dam Safety Measures (Major & Medium Irr. Component Only)																				Not Applicable
1	Hirakud			U.A	Not Started	2.28						2.25								2012-13	
2	Nesa			U.A	Not Started	5.29						5.20								2012-13	
3	Pilasalki			U.A	Not Started	35.35						31.28								2012-13	
4	Badjore			U.A	Not Started	9.88						9.85								2012-13	
5	Kalo			U.A	Not Started	7.96						7.83								2012-13	
6	Bankbal			U.A	Not Started	7.69						7.56								2012-13	
7	Rengali			U.A	Not Started	34.20						32.20								2012-13	
8	Gohira			U.A	Not Started	4.18						4.11								2012-13	
9	Talasara			U.A	Not Started	2.67						2.62								2012-13	
10	Sarafgarh			U.A	Not Started	2.51						2.47								2012-13	
11	Pitamahal			U.A	Not Started	1.46						1.45								2011-12	
12	Kansabahal			U.A	Not Started	3.00						2.98								2012-13	
13	Dhanei			U.A	Not Started	3.26						3.21								2012-13	
14	Budhabudhiani			U.A	Not Started	2.43						2.39								2012-13	
15	Salia			U.A	Not Started	2.07						2.03								2012-13	
16	Remal			U.A	Not Started	5.87						5.74								2012-13	
17	Ramiala			U.A	Not Started	2.62						2.56								2012-13	
18	Dadaraghati			U.A	Not Started	1.16						1.14								2012-13	
19	Salandi			U.A	Not Started	4.95						4.84								2012-13	
20	Upperkolab			U.A	Not Started	25.94						25.66								2012-13	
21	Sunei			U.A	Not Started	0.32						0.32								2011-12	
22	Daha			U.A	Not Started	1.20						1.19								2012-13	
23	Derjang			U.A	Not Started	0.85						0.85								2011-12	
	Total of(V)					167.14	0.00	0.00	0.00	0.00	0.00	159.70	159.70	0.00	0.00	0.00	0.00	0.00	0.00		
VI	Improved Water Management					0.00						50.00	50.00								
VII	Water Development												0.00								
A	Survey & Investigation					0.00	0.35	17.98	18.33			40.00	40.00								Not Applicable
B	Research & Development including Provision for Jalsoudh					0.00		0.37	0.37			10.00	10.00								Not Applicable
C	Training & Other activities					0.00		16.32	16.32			10.00	10.00								Not Applicable
D	National Hydrology Project					0.00	13.69	7.23	20.92			15.00	15.00								Not Applicable
	Total VII					0.00	14.04	41.90	55.94	0.00	0.00	75.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total					17273.87	3433.23	2160.06	5593.29	11569.37	9876.92	6252.65	8448.18	1716.01	285.43	181.32	466.75	1249.26	425.86		
State - PUNJAB																			Rs.in Crore / Potential		
I	Liabilities for completed Project																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
C	ERM																				
1	Extension & improvement of Shahnahar Canal(Kandi canal) upto Hoshiarpur remodelling and lining)	Hashirpur	--	APP	VI	131.860	122.050	0.04	122.09	9.77	42.51	42.51	9.77	25.360	23.510		23.51	1.85			
2	Raising of Bhakra Main Line for providing free board	Patiyala, Ropar	--	TAC (UA)	VII	26.990	14.050	10.33	24.38	2.61	2.61	0.50	0.50								
3	Punjab Irrgn. Project-Lining of Channels ph.II (W.B. assistance upto 30-7-98)	7 Districts#	--	APP	VIII	371.230	256.730	74.02	330.75	40.48	40.48	40.48	40.48	70.000	62.925		64.43	5.58			
4*	Remodelling of channels of UBDC system to meet the revised water allowance.	Amritsar,Gurdaspur	--	APP	IX	177.800	80.410	93.09	173.50	4.30	4.30	0.00	4.30	118.000	93.910	24.09	118.00				
	Sub Total					707.880	473.240	177.480	650.720	57.160	89.900	83.490	55.050	213.360	180.345	24.090	205.935	7.425	0.000		
	Total -I					707.880	473.240	177.480	650.720	57.160	89.900	83.490	55.050	213.360	180.345	24.090	205.935	7.425	0.000		
II.	Ongoing Projects																				
	(A) Major Projects																				
1*	Shahpur Kandi Project	Gurdaspur	--	APP	IX	1324.18	94.67	98.32	192.99	1131.19	1131.19	1131.19	791.83		0.00						
-	SYL Canal Project(I.S.)	Patiyala, Ropar	--	TAC (UA)	VI	601.25	487.93	0.00	487.93	113.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Sub Total(Major)					1925.43	582.60	98.32	680.92	1244.51	1131.19	1131.19	791.83	0.00	0.00	0.00					
	(B) Medium Projects)																				
--	Irrigation to H.P. below Talwara	No Irr.Benefit	--	APP		88.49	22.00	54.46	76.46	12.03	12.03	12.03	12.03								
	Sub Total(Medium)					88.49	22.00	54.46	76.46	12.03	12.03	12.03	12.03	0.00	0.00	0.00	0.00	0.00	0.00		
	(C) ERM Projects																				
1	Construction of super passage of RD 203760 of Jalandhar Br. & RD 79700 of Bist Doab canal	NA	--	UA	VIII	16.940	5.090	0.00	5.09	11.85	12.85	12.85	11.85								
2*	Extn. of ph.II of Kandi canal from Hoshiarpur to Balachaur RD 59.5 to 130	Hashiarpur, Kapurthala, Jalandhar	--	APP	IX	235.830	13.360	126.65	140.01	95.82	95.82	95.82	95.82	23.330	0.000			23.33			
	Sub-Total					252.770	18.450	126.650	145.100	107.670	108.670	108.670	107.670	23.330	0.000	0.000	0.000	23.330	0.000		
	Total -II					2266.69	623.05	279.43	902.48	1364.21	1251.89	1251.89	911.53	23.33	0.00	0.00	0.00	23.33	0.00		
III	NEW PROJECTS																				
	Major Projects																				
1	Sri Dasmesh Irr.Project	Patiyala, Ropar,Fategarh	--	UA		85.70				85.70	85.70	85.7	21.43	130.00				130		2006-07	
	Sub Total					85.70	0.00	0.00	0.00	85.70	85.70	85.70	21.43	130.00	0.00	0.00	0.00	130.00	0.00	2006-07	0.00
	(B).Medium Project	NIL																			
	ERM Projcts																				
1	Punjab Irr. Project lining	NA	--	UA		205.21				205.21	205.21	100.00	100.00	55.50				55.5		2007-08	
	of channels-Ph-III									0.00	0.00	0.00									
2	Construction of new Hithar Canal Branch	Firozpur,Bhatinda	--	UA		68.67				68.67	68.67	68.67	34.34	NA						2006-07	
3	Remodelling of Sirihind canal,BML etc.	Firozpur,Bhatinda	--	UA		NA						67.50	0.00							2006-07	
4	Raising of lining /Banks of	Firozpur,Bhatinda	--	UA		13.75				13.75	13.75	13.75	13.75							2006-07	
	Sirihind feeder from RD0-447927									0.00	0.00	0.00									
5	Rehabilation of channels of Ist Patiala feeder and Kotla branch	Patiala	--	UA		108.58		20	20	88.58	88.58	88.58	88.58	NA							

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
6	Punjab Irr. Project lining of channels	Amritsar,Patiala, Gurdaspur	--	UA/TAC		49.02				49.02	49.02	49.02	24.51	8.33				8.33			
										0.00	0.00	0.00									
	Sub Total					445.23	0	20	20	425.23	425.23	387.52	261.175	63.83	0	0	0	63.83	0	0	0
Total-III						530.93	0.00	20.00	20.00	510.93	510.93	473.22	282.60	193.83	0.00	0.00	0.00	193.83	0.00		
IV	Spl repairs of																				
	Exisstting Irrgn.Systems					250.00						250.00	125.00								
	Total-IV					250.00	0.00	0.00	0.00	0.00	0.00	250.00	125.00	0.00	0.00	0.00	0.00	0.00	0.00		
V	Dam Safety Measures																				
VI	Improved water																				
	Management																				
a)	Setting up Punjab Irrigation management training					6.07	3.84	0.22	4.06	2.01	2.01	2.01	2.01								
	Total-V					6.07	3.84	0.22	4.06	2.01	2.01	2.01	2.01	0.00	0.00	0.00	0.00	0.00	0.00		
VII	Water Development	Nil																			
VIII	Sruvey & Investigations					13.82	7.50	2.42	9.92	3.90	3.90	3.90	3.90								
	Total-VIII					13.82	7.50	2.42	9.92	3.90	3.90	3.90	3.90	0.00	0.00	0.00	0.00	0.00	0.00		
	Total of (IV+V+VI+VII)					269.89	11.34	2.64	13.98	5.91	5.91	255.91	130.91	0.00	0.00	0.00	0.00	0.00	0.00		
	GRAND TOTAL					3775.39	1107.63	479.55	1587.18	1938.21	1858.63	2064.51	1380.09	430.52	180.35	24.09	205.94	224.59	0.00		
	# Gurdaspur,Amritsar,Sangur,Patiala,Ferozpur,Ludhiana,Ropar																				
STATE - RAJASTHAN																			Rs.in Crore / Potential		
I	Liabilities of Completed Projects																				
A	Major Projects																				
--	Som Kamla Amba (SP)	Dunga			Comp.	211.30	204.68	4.02	208.70	2.60	1.76	1.76	1.76	18.79	18.79	0.00	18.79	0.00			Comp.
--*	Grugaon Canal (SP)	Bharatpur			III	35.40	27.10	3.01	30.11	5.29	5.00	5.00	5.00	28.20	22.77		22.77	5.43	0.00		Comp.
--	L.O.T.C.. Works (SP)	Kota	--		III	7.84	5.38	0.82	6.20	1.64	1.30	1.30	1.64	0.00		0.00	0.00	0.00			Comp.
--	Adustment of BBMB(SP)	IS	--			13.04	13.00	0.04	13.04		0.00	0.00		0.00		0.00	0.00	0.00			Comp.
--	Bhakra Nangal Project (SP)	IS	--		I	1.84	0.00	1.84	1.84		0.00	0.00		0.00		0.00	0.00	0.00			Comp.
--	Sidhmukh Nohar Project	Hanumangarh	DDP		VIII	309.00	276.58	0.00	276.58	32.42	0.00	0.00	32.42	93.00	49.89	43.11	93.00				Comp.
--	RPS	Kota	--		Comp.	10.49	10.01	0.00	10.01	0.48	0.00	0.00	0.48	0.00		0.00	0.00				Comp.
	JSDam	Kota			Comp.	8.50	8.18	0.00	8.18	0.32	0.00	0.00	0.32	0.00		0.00	0.00				Comp.
	Okhala Barrage	IS				2.27	0.20	0.00	0.20	2.07	0.00	0.00	2.07	0.00		0.00	0.00				Comp.
	Others Major(Comp)													799.94	703.78	0.00	703.78	96.16			Comp.
	Modernisation Projects																				
	Others (Meja, Jaisamand & Gambh)					236.68	51.20	0.23	51.43	185.25			185.25	69.72	17.93		17.93	51.79			
1*	Mahi (AIBP)	Banswara	TA		IV	865.38	671.00	194.38	865.38	0.00	0.00	0.00		83.75	60.20	23.55	83.75	0.00	0.00	2006-07	Comp.by 2006
--	Ratanpura Distry (NABARD/SP)	Hanumangarh	DDP	UA	IX	27.53	10.07	13.48	23.55	3.99	3.30	3.30	3.99	18.00	0.00	18.00	18.00	0.00	0.00	2006-07	Comp.by 2006
2*	Bisalpur (NABARD)	Tonk	--	APP	IX	657.00	196.68	156.52	353.20	303.80	0.00	0.00	0.00	81.80	17.45	63.35	80.80	1.00		2006-07	Comp.by 2006
	Sub total					2386.27	1474.07	374.34	1848.42	537.85	11.36	11.36	232.92	1193.20	890.81	148.01	1038.82	154.38	0.00		
B	Medium Projects																				
1*	Panchanna (SP)	Karauli			Comp.	125.00	84.00	39.31	123.31	1.69	1.39	1.39	1.39	10.60	6.88	3.72	10.6	0.00		2004-05	Comp.
2*	Chhapi (SP)	Jhalawar			Comp.	102.38	72.90	29.48	102.38	0.00	0.50	0.50	0.50	10.00	5.50	4.50	10	0.00		2004-05	Comp.
3*	Chauli	Jhalawar			Comp.	98.55	43.17	55.43	98.60		0.03	0.03	0.03	9.10	0.00	9.02	9.02	0.08		2006-07	Comp.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
4	Bethali(NABARD)	Baran			Comp.	50.74	38.47	12.27	50.74		0.00	0.00	0.00	4.32	0.00	4.32	4.32	0.00		2004-05	Comp.
--	Parwan Lift (SP)	Baran			Comp.	41.34	37.29	2.16	39.45	1.89	1.90	1.90	1.90	9.53	9.53	0.00	9.53	0.00			
--	Sawan Bhadon)SP)	Kota			Comp.	39.00	35.78	3.14	38.92	0.08	0.28	0.28	0.28	5.85	5.85		5.85	0.00			
--	Bilas (Completed Project) (SP)	Baran			Comp.	21.73	21.35	0.39	21.74		0.02	0.02		5.12	5.12		5.12	0.00			
--	Others (Meja, Wagan, Bassi etc.)				Comp.	133.60	130.45	0.00	130.45	3.15	0.00	0.00	0.00	500.00	385.61		385.61	114.39			
	Sub total					612.34	463.41	142.16	605.58	6.82	4.12	4.12	4.10	554.52	418.49	21.56	440.05	114.47	0.00	0.00	
C	ERM Projects																				
1	IGNP -I	Hanumangarh	DDP	UA(TAC)	VIII																
--	Jakham (SP)	Udaipur			Comp.	107.38	106.01	1.37	107.38		2.50	2.50	0.00	23.50	23.50		23.50	0.00	0.00		Comp.
--	E.R.M. (SP)					215.00	14.59	10.21	24.80	190.20	150.00	150.00	190.20	0.00	0.00	0.00	0.00	0.00			
	SUB TOTAL(ERM)					322.38	120.60	11.58	132.18	190.20	152.50	152.50	190.20	23.50	23.50	0.00	23.50	0.00	0.00		
	Total of 1					3320.99	2058.09	528.09	2586.17	734.87	167.98	167.98	427.23	1771.22	1332.80	169.57	1502.37	268.85	0.00		
II	Ongoing Projects																				
A	Major Projects																				
a	Externally aided Projects	Nil																			
c	Pre-V Plan Projects	Nil																			
d	Other Projects																				
1*	Narmada	Jalore	DDP	APP	VIII	1447.00	203.17	880.02	1083.20	363.80	363.85	363.85	254.66	246.00	0.00	66.57	66.57	179.43	177.00	2009-10	Comp. by 2006
2*	IGNP -II	Sriganganagar,Bikaner,churu	DDP	APP	V																
	Sub total					1447.00	203.17	880.02	1083.20	363.80	363.85	363.85	254.66	246.00	0.00	66.57	66.57	179.43	177.00		
	SubTotal (Major)					1447.00	203.17	880.02	1083.20	363.80	363.85	363.85	254.66	246.00	0.00	66.57	66.57	179.43	177.00		
B	Medium Projects																				
1	Sukli (NABARD)	Sirohi	TA	APP	X	42.89	0.13	31.95	32.08	10.81	10.83	10.83	10.83	5.00	0.00	0.00	0.00	5.00	5.00	2007-08	
2	Bandi Sendra (NABARD)	Jalore	DPA	APP	X	37.02	0.29	32.05	32.33	4.69	5.00	5.00	5.00	4.20	0.00	0.00	0.00	4.20	4.20	2007-08	
3	Graradada (NABARD)	Bundi	--	UA(TAC)	X	81.40	0.00	53.17	53.17	28.23	28.20	28.20	28.20	9.00	0.00	0.00	0.00	9.00	9.00	2007-08	
4	Takli	Kota	DPA	UA	X	64.00	0.00	1.90	1.90	62.10	62.10	62.10	43.47	7.40		0.00	0.00	7.40	7.40		
5	Piplad	Jhalawar	DPA	UA	X	75.00	0.00	0.30	0.30	74.70	74.7	74.7	52.29	4.70		0.00	0.00	4.70	4.70		
6	Gagrin	Jhalawar	DPA	UA	X	185.00	0.00	0.30	0.30	184.70	184.70	184.70	129.29	6.70		0.00	0.00	6.70	6.70		
7	Lhashi	Baran	DPA	UA	X	60.00	0.00	0.50	0.50	59.50	59.50	59.50	41.65	5.70		0.00	0.00	5.70	5.70		
	SUB TOTAL(MEDIUM)					545.31	0.42	120.16	120.58	424.73	425.03	425.03	310.73	42.70	0.00	0.00	0.00	42.70	42.70		
C	ERM Projects																				
1*	Gang Canal (Mod.)	SRI-GNR	--	Appoved	IX	445.79	83.42	265.00	348.42	97.37	87.70	87.70	68.16	96.51	0.00	57.76	57.76	38.75	38.75	2007-08	
2	Raj Water Sector Rest.Project	All Raj.	--	UA	X	733.60	0.16	519.61	519.77	213.83	206.60	206.60	213.83	0		0.00	0.00	0.00	0.00	2007-08	
	SUB TOTAL(ERM)					1179.39	83.58	784.61	868.19	311.20	294.30	294.30	281.99	96.51	0.00	57.76	57.76	38.75	38.75		
	Total of II					3171.70	287.17	1784.80	2071.97	1099.73	1083.18	1083.18	847.38	385.21	0.00	124.33	124.33	260.88	258.45		
III	New Projects of XI Plan																				
A	Major Projects																				
1	Yamuna Water Project	NA	--	UA	XI	935.00	0.30	0.80	1.10	933.90	934.00	934.00	233.48	97.00		0.00	0.00	97.00	50.00		
	(New)				XI																
2	Parwan Major (New)	NA	--	UA	XI	942.00	0.00	0.00	0.00	942.00	275.00	275.00	235.50	34.00		0.00	0.00	34.00	21.00		
3	Yamuna Link Canal (New)	NA	--	UA	XI	175.00	0.00	0.05	0.05	174.95	174. 95	174. 95	122.47	176.00		0.00	0.00	176.00	20.00		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
4	Isarda Drinking cum irrigation Project	Tonk	--	UA	XI	655.00	0.00	0.00	0.00	655.00	360.00	360.00	163.75	23.00		0.00	0.00	23.00	23.00		
5	New Major Projects (Dholpur lift, Indralift)	NA	--	UA	XI		0.00	0.00	0.00	0.00	1506.89	1506.89	0.00	140.00		0.00	0.00	140.00	130.00		
6	Manoharthana	Jhalawar	DPA	UA	XI	365.00	0.00	0.00	0.00	365.00	155.00	155.00	182.50	54.00				54.00	34.00		
	Sub total (Major)					3072.00	0.30	0.85	1.15	3070.85	3230.89	3230.89	937.69	524.00	0.00	0.00	0.00	524.00	278.00	0.00	0.00
B	Medium Projects																				
1	Hatiadeh	Jhalawar	DPA	UA	XI	96.00	96.00	0.00	96.00	0.00	96.00	96.00	0.00	6.90				6.90	6.90		
2	Andheri	Baran	DPA	UA	XI	87.00	87.00	0.00	87.00	0.00	87.00	87.00	0.00	7.70				7.70	1.70		
3	Rajgarh	Jhalawar	DPA	UA	XI	68.12	68.12	0.00	68.12	0.00	68.30	68.30	0.00	5.00				5.00	5.00		
4	New Projects	NA	--	UA	XI			0.00	0.00	0.00	105.00	105.00	0.00	0.00				0.00	0.00		
	SUB TOTAL(MEDIUM)					251.12	251.12	0.00	251.12	0.00	356.30	356.30	0.00	19.60	0.00	0.00	0.00	19.60	13.60		
C	ERM Projects					0			Nil												
	Total of III					3323.12	251.42	0.85	252.27	3070.85	3587.19	3587.19	937.69	543.60	0.00	0.00	0.00	543.60	291.60		
IV	Spl repairs of																				
	Exisstting Irrgn.Systems	NIL																			
	Total ot IV					0.00	0.00	0.00													
V	Dam Safety Measures																				
	Dam Safety Remedial Measures					135.00	130.27	0.45	130.72	4.28	0.00	0.00	0.00	0.00	0.00						
	Total of V					135.00	130.27	0.45	130.72	4.28	0.00	0.00	0.00	0.00	0.00						
VI	Improved water																				
	Management																				
	Total of VI					0	0	0													
VII	Water Development																				
1	Augmentation of Traditional					53.62	45.12	8.21	53.33	0.29	0.00	0.00	0.00	0.00			0.00	0.00	0.00		
	Water Sources (EFC)																				
2	Water Harvesting Structures					454.00	9.13	162.59	171.72	282.28	294.00	294.00	0.00				0.00	0.00	0.00		
	(NABARD)																				
	Total of VII					507.62	54.25	170.81	225.06	282.56	294.00	294.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
VIII																					
a)	Sruvey & Investigations					0.00	77.65	39.66	117.31		64.50	64.50	64.50	0	0	0.00	0.00	0.00	0.00		
b)	Research & Develoment					5.60	4.40	0.11	4.51	1.09	0.00	1.00	1.00	0	0	0.00	0.00	0.00	0.00		
c)	Training					0.00	19.05	7.37	26.42	0.00	16.80	16.80	16.80	0	0	0.00	0.00	0.00	0.00		
d)	National Hydrology Projects(Others)					277.81	2.54	0.00	2.54	275.27	0.70	0.70	0.70	0	0	0.00	0.00	0.00	0.00		
	Total of VIII					283.41	103.64	47.13	150.77	276.36	82.00	83.00	83.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Grand Total					10741.84	2884.84	2532.12	5416.96	5468.65	5214.35	5215.35	2295.30	2700.03	1332.80	293.90	1626.70	1073.33	550.05		
STATE-TAMIL NADU																					
I	Liabilities of Completed Projects																				
A	Major Projects																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
B	Medium Projects																				
C	ERM Projects																				
1*	WRCP	Whole State	--	APP	VIII	1531.88	863.9	48.23	912.13	619.75				9	9	0	9	0	0		
	Total of 1					1531.88	863.9	48.23	912.13	619.75	0	0	0	9	9	0	9	0	0		
II.	Ongoing Projects																				
	(A) Major Projects			Nil																	
	(B) Medium Projects																				
1	Irrukankudi Project	Virdhunagar	DPA	TAC	VIII	62.20	14.26	43.16	57.42	4.78			4.78	4.64	0.00			4.64			
2	Nanganjiar Project	Dindigul	DPA	UA	VIII	41.68	29.64	9.42	39.06	2.62			2.62	2.55	0.00			2.55			
	Total Medium Projects					103.88	43.90	52.58	96.48	7.40			7.40	7.19	0.00			7.19			
	(C) ERM PROJECTS																				
1	Shenbagathope Res.	Thiruvanamalai	DPA	UA	VIII	34.00	0.44	28.02	28.46	5.54	34.00		2.77	Stabilisation							
2	Reservoir across cheyyar near kuppanatham	Thiruvanamalai	DPA	UA	VIII	43.50	2.17	27.28	29.45	14.05	43.50	14.05	7.03	Stabilisation							
3	Extention of nilayur Channel	Theni	--	UA	IX	19.49	0.00	18.15	18.15	1.34	19.49		0.67	Stabilisation							
	Total ERM					96.99	2.61	73.45	76.06	20.93	96.99	14.05	10.47	0.00	0.00	0.00	0.00	0.00	0.00		
	TOTAL-II					200.87	46.51	126.03	172.54	28.33	96.99	14.05	17.87	7.19	0.00	0.00	0.00	7.19	0.00		
	Total of (III+ IV+V+VI+VII)					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total					1732.75	910.41	174.26	1084.67	648.08	96.99	14.05	17.87	16.19	9.00	0.00	9.00	7.19	0.00		
STATE-TRIPURA																					
I	Liabilities of Completed Projects																				
II	Ongoing Projects																				
A	Major Projects																				
B	Medium Projects					2002 Price Level															
1*	Gumti	South Tripura	TA	Appd	V	70.4	38.98	7.8281	46.8081	23.5919	23.592	23.592	23.592	9.8	3.82	2.511	6.331	3.469	3.469	2009-10	i) Short Working
2*	Khowai	West Tripura	TA	Appd	VI	76.8	48.596	19.1586	67.7546	9.0454	9.0454	9.0454	9.045	9.32	1.24	5.3	6.54	2.78	2.78	2009-10	Season(Nov-April)
3*	Manu	North Tripura	TA	Appd	VI	80.763	38.02	18.5511	56.5711	24.1919	24.1919	24.1919	24.192	7.6	0.36	4.521	4.881	2.719	2.719	2009-10	ii)Scarcity of experience
	Sub-total					227.963	125.596	45.5378	171.1338	56.8292	56.8293	56.8293	56.829	26.72	5.42	12.332	17.752	8.968	8.968		Contractors & skilled
C	ERM Projects																				
	Grand Total					227.963	125.596	45.5378	171.1338	56.8292	56.8293	56.8293	56.829	26.72	5.42	12.332	17.752	8.968	8.968		iii) Land Acqisition problem due to
STATE- UTTARANCHAL																					
I	Liabilities of																				
	Completed projects	Nil																			
	Total of 1					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
II.	Ongoing Projects																				
	(A) Major Projects																				
1*	Lakhwar Vyasi	Saharanpur, Meerut,Dehradun	--	APP	V	1446.00	227.28	2.00	229.28	1216.72	0.00	0.00	0.00	40.00	Transferred to NHPC			40.00		Beyond XI Plan	
	Sub Total (Major Projects)					1446.00	227.28	2.00	229.28	1216.72	0.00	0.00	0.00	40.00	0.00	0.00	0.00	40.00	0.00		

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	(B) Medium Projects	Nil																			
	(C) ERM Projects	Nil																			
	Total-II					1446.00	227.28	2.00	229.28	1216.72	0.00	0.00		40.00	0.00	0.00	0.00	40.00			
III.	New Projects of XI Plan																				
	(A) Major Projects																				
1	Jamrani Dam	Nainital		APP	V	702.86	23.57	0.52	24.09	678.77	678.77	339.38	339.38	60.60	21.00		21.00	39.60		Beyond XI Plan	
--	Song Dam	Dehradun		UA	X	155.00	0.00		0	155.00			77.50	Drinking Water						Beyond XI Plan	
2	Kosi dam	Almora		UA	X	5.00				5.00		5.00	2.50							Beyond XI Plan	
	Total Major					862.86	23.57	0.52	24.09	838.77	678.77	344.38	419.38	60.60	21.00	0.00	21.00	39.60	0.00		
	(B) Medium Projects	Nil																			
	(C) ERM Projects	Nil																			
	Total-III					862.86	23.57	0.52	24.09	838.77	678.77	344.38	419.38	60.60	21.00	0.00	21.00	39.60	0.00		
IV	Spl.repairs of																				
	Existing Irrgn.																				
	Systems																				
	Maintenance of existing canals&other works.			APP		8.51	0	11.29	11.29	0.00		25.00								2007-12	
	Total of IV					8.51	0	11.29	11.29	0.00	0.00	25.00	25.00	0.00	0.00	0	0	0			
V	Dam Safety																				
	Measures																				
	Total of V																				
VI	Improved water																				
	Management																				
1	Flood Works(State Sector)	All Distt.		APP	X	129.03	0.00	43.12	43.12	85.91		100									
2	Flood Works(CSS)	All Distt.		APP	X	17.61	0.00	11.88	11.88	5.73		25									
3	Flood Works(NABARD)	All Distt.		APP	X	21.24	0.00	21.24	21.24	0.00		30									
	Total of VI					167.88	0.00	76.24	76.24	91.64	0.00	155.00	0								
VII	Water Development																				
1	Survey & investigation	All Distt.		APP	X	4.42	0.00	4.37	4.37	0.05		5.00	5.00							2007-12	
2	Research & Development including provisions of jalsoucha			APP	X	2.35	0.00	2.35	2.35	0.00		2.50	2.50							2007-12	
3	Training			APP	X	2.06	0.00	2.06	2.06	0.00		2.50	2.50								
4	Upgradation of training institutions	Ranikhet/Kotwar		APP	X	3.29	0.00	1.05	1.05	2.24		3.50	3.50								
	Total of VII					12.12	0	9.83	9.83	2.29	0	13.5	13.5	0	0	0	0	0	0	0	0
	Grand Total					2497.37	250.85	99.88	350.73	2149.42	678.77	537.88	457.88	100.60	21.00	0.00	21.00	79.60	0.00		
STATE - UTTAR PRADESH																					
I	Liabilities of completed Projects																				
A	Major Projects																				
1*	Tehri Dam Project	Saharanpur, Muzzafarnagar	--	APP	IV	1200.96	736.75	444.21	1180.96	20	20	20	20								

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		Baghpat,Gaziabad																			
2*	Rajghat Canal	Lalitpur, Jhansi, Jalaun	DPA	APP	V	398.38	230.3	167.2	397.5	0.83	0.83	0.83	0.83	138.66	80.27	136.66	138.66				
		Hamirpur																			
3	Madhya Ganga Canal	Bulnshr, Aligarh, Agra,Etah, Manpuri	--	APP	V	1645.31			1645.31					178	162.68	15.32	178				
4*	Eastern Ganga	Bijnor	--	APP	V	579.00			579					105	51.29	53.71	105				
5*	Rajghat Dam	Lalitpur, Jhansi,	DPA	APP	V	150.00			150					0							
6*	Providing Kharif Channel in H K Doab	Meeerut, Muzaffarnagar	--	APP	AP 78-80																
7*	Jarauli Pump Canal	Saharanpur, Muzzaffarnagar	--	APP	AP 90-92	52.35			52.35					39.75		39.75	39.75				
B.	Medium Projects	Nil																			
C.	ERM Projects																				
1*	Upper Ganga Irr.Mod.Project			APP	VI	879.33	831.1	48.23	879.33	0.00				9.00	9.00		9				
2	Dev.of Irr.Management of sarada Canal System			UA(TAC)	AP-90-92	136.00	93.74	13.62	107.36	28.64			28.64								
3	Linning of channel in Bundel Khand &Bhagel Khand Areas			UA(TAC)	VI	97.00	7.5	0.66	8.16	88.84				24.48	6.42	18.06	24.48	0			
	Total of 1					5138.33	1899.39	673.92	4999.97	138.31	20.83	20.83	49.47	494.89	309.66	263.5	494.89	0	0		
II.	Ongoing Projects																				
A	Major Projects																				
b.	Inter state Projects																				
1	Kanhar Irrigation Project	Mirzapur,	DPA	UA	V	382.35	34.56	4.88	39.44	342.91	535.79	621.52	171.455	33.13				33.13	33.13	XI Plan	
2*	Bansagar Project	Mizapur,Allahabad,Sonbhadra	DPA	APP	V	969.74	348.11	562.74	910.85	58.89	69.93	75.53	58.89	150.13				150.13	150.13	2007-08	
	Sub-total					1352.09	382.67	567.62	950.29	401.8	605.72	697.05	230.345	183.26	0	0	0	183.26	183.26		
c,	Pre-V Plan Projects																				
1*	Saryu Canal Project	Bahraich,Gonda, Shravaso	DPA	APP	V	2377.82	820.47	1000.48	1820.95	556.87	661.37	767.18	556.87	1076	438.37	437.63	876	200	200	XI Plan	
	Sub-total					2377.82	820.47	1000.48	1820.95	556.87	661.37	767.18	556.87	1076	438.37	437.63	876	200	200		
d.	Other Projects																				
1	Parallel Hindon cut Canal	Faridabad , Mathura	--	UA	X	74.36		32	32	42.36	43.54	48.77	42.36	82.76				82.76	82.76	XI Plan	
		Agra																			
2	Arjun sahayak Project	Hamirpur,Mahuba	DPA	UA	X	265.56		22.5	22.5	243.06	286.63	321.22	243.06	61.02				61.02	61.02	XI Plan	
3	Madhya Ganga Canal Stage-II	Moradabad, Jobhanphulenagar,	--	UA/TAC	X	993.12		37.5	37.5	955.62	1134.8	1374.8	955.62	146.53				146.53	146.53	XI Plan	
		Badaun,Barelly																			
4	Badaun Irrigation Project	Barelley,Badaun,Shajahanpur	--	UA	X	208.52		15	15	193.52	229.81	257.78	96.76	32.1				32.1	32.1	XI Plan	
5	Ch. Charan Singh Sinhcai	All districts of U.P	--	UA	X	470.32		94.06	94.06	376.26	384.84	434.51	376.26								
	Vikas Yojana																				
6	Jasrana Navin Nahar	Ethah, Firozbad	--	UA	X	50.76		35.1	35.1	15.66	16.1	17.39	15.66	7.9				7.9	7.9	XI Plan	
	Pariyojana																				
--	Land Compansation of	NA	--	UA	X	150.49		150.49	150.49	0	100	100									
	Completed Projects																				
	Sub-total					2213.13	0	386.65	386.65	1826.48	2195.72	2554.47	1729.72	330.31	0	0	0	330.31	330.31		

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Total Major					5943.04	1203.14	1954.75	3157.89	2785.15	3462.81	4018.7	2516.94	1589.57	438.37	437.63	876	713.57	713.57	0	
B.	Medium Projects	Nil																			
C.	ERM Projects																				
1*	Modernisation of Agra Canal	Agra, Mathura	--	APP	V	173.52	11.47	122.04	133.51	40.01	47.51	51.3	40.01	64	14	10	24	40	40	XI Plan	
2*	Ch.Charan Singh, Lahchura Dam	Hamirpur, Mahouba,	DPA	APP	VI	99.66	1.65	45.67	47.32	52.34	62.16	69.61	52.34	14.58	0		14.58	0	0	XI Plan	
		Jhansi																			
3	Restortion of Lower Ganga Canal	Ethawah,Kannauj	--	UA	X	116.16		33.79	33.79	82.37	84.69	91.46	82.37	242				242	242	XI Plan	
		Auraiya,Firozbad,Etah																			
4	Restoration of eastern Yamuna Canal	Shaharanpur,Mujaffur nagar	--	UA	X	14.42		7.27	7.27	7.15	11.17	12.06	7.15	96.5				96.5	96.5	XI Plan	
		Meerut																			
5	Restoration of Kishan pur Pump	Fatehpur, Kausambhi	--	UA	X	6.13		0.61	0.61	5.52	5.68	6.37	5.52	19.5				19.5	19.5	XI Plan	
6	Ch.CharanSingh Dhori ghat Pump Canal	Azamgarh, Ballia,Mau	--	UA	X	13.17		5.37	5.37	7.8	8.44	8.44	7.8	20.4				20.4	20.4	XI Plan	
7	Restoration of Canal for saline	Firozbad	--	UA	X	7.75		1.47	1.47	6.28	6.27	7.05	6.28								
	Water Treatment of Eka & Khairagarh Block																				
8	Restoration of GhaggarCanal Systesm	Sonbhadra, Mizapur	DPA	UA	X	11.7		8.5	8.5	3.2	5	5.4	3.2	9.88				9.88	9.88	XI Plan	
9	Restoration of Sarada Canal system	Pilibit,Barelly,	--	UA	X	10.69		6.13	6.13	4.56	4.94	5.32	4.56	7.3				7.3	7.3	XI Plan	
10	Restoration of Dohrighat Sahayak Pump Canal	Ballia	--	UA	X	12.02		4.47	4.47	7.55	7.76	8.38	7.55	9.46				9.46	9.46	XI Plan	
11	Conservation of Water Through Lining Canals	All districts of U.P	--	UA	X	397.25		97.25	97.25	300	300	360	150								
12	Increasing Capacilty of Khiri Br. System	Sitapur, Lakhimpur,Shahjahanpur, Lucknow, Pilibhit	DPA/TA	UA	X	37.48		3.75	3.75	33.73	34.69	38.94	16.865	65.6				65.6	65.6	XI Plan	
13	Water Sector Restructuring	Sultanpur, Raibareli		APP	X	819.31		367.55	367.55	451.76	451.76	451.76	225.88								
	Project	Maharajganz, Barabanki	--	UA																	
	Sub-total					1719.26	13.12	703.87	716.99	1002.27	1030.07	1116.09	609.525	549.22	14	10	38.58	510.64	510.64		
	Total of II					7662.3	1216.26	2658.62	3874.88	3787.42	4492.88	5134.79	3126.46	2138.79	452.37	447.63	914.58	1224.21	1224.21		
III.	New Projects of																				
	XI Plan																				
A	Major Projects																				
1	Kachnaudha Dam	Lalitpur	DPA	UA	X	74.82			0	74.82	88.85	99.25	18.705	13.55				13.55	13.55	XI Plan	
2	Hathnikund Link Channel Stage-II	Shaharanpur, Muzaffarnagar	--	APP	XI	213.55			0	213.55	213.55	296.99	53.3875	50.25				50.25	25.12	XI Plan	
3	Sarda Sahayak Stage-II	Barabanki,Faizabad	--	APP	XI	124.46			0	124.46	147.76	172.9	31.115	21.7				21.7	21.7	XI Plan	
4	NWMP Stage _II (Sarda Canal D.V Feeder)	Peilibhit,Barelley	--	UA	XI	58.08			0	58.08	68.97	80.8	14.52	33.05				33.05	16.52	XI Plan	
		Shahajanpur, Hardoi,																			
5	Panchad Dam		--	UA	XI	559.35			0	559.35	664.27	823.63	55.935	56.1				56.1	56.1	XI Plan	
6	Virat Sagar Dam		--	UA	XI	113.02			0	113.02	134.21	166.42	11.302	161.87				161.87	81.43	XI Plan	
	,--. Const. of Road from Khatoli Murad Nagar	Mizaffanagar, Meerut	--	UA	XI	84.37			0	84.37	131.82	205.96	8.437	0						XI Plan	
	on the left bank of Upper Ganga																				
	Canal																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	- Other Irrigation Projects		--	UA	XI	156.39			0	156.39	244.36	285.9	15.639	32.84				32.84	32.84		
	Sub-total					1384.04	0	0	0	1384.04	1693.79	2131.85	209.041	369.36	0	0	0	369.36	247.26		
B.	Medium Projects																				
1	Bhaurat Uttari Dam	Lalitpur	DPA	UA	X	46.97			0	46.97	48.29	53.65	46.97	12.8				12.8	12.8	XI Plan	
2	Water Supply to Naraura Buland Shahar	Narora Automic Power	--	UA	XI	21.95			0	21.95	34.29	40.12	21.95								
		also Buland shahar																			
3	Bardaha Dam Project	Chitrakut	DPA	UA	XI	3.37			0	3.37	5.26	6.15	3.37	0.97				0.97	0.97	XI Plan	
	Sub-total					72.29	0	0	0	72.29	87.84	99.92	72.29	13.77	0	0	0	13.77	13.77		
C.	ERM Projects																				
1	Restoration of Ch. Charan Singh Tanda Pump AmbedkarNagar canal	Ambedkar nagar	--	UA	X	3.86			0	3.86	6.3	6.78	3.86	2.51				2.51	2.51	XI Plan	
2	Remodelling of Ghyanpur Pump Canal	Allahabad, Mirzapur	DPA	UA	X	30.21			0	30.21	47.2	53.02	30.21								
3	Remodelling of Sone Pump Canal	Mizapur, Sonbhadra	DPA	UA	X	22.32			0	22.32	34.88	39.17	22.32								
4	Restoration of Ch. Charan Singh Tons Pump Canal	Allahabad	DPA	UA	XI	9.63			0	9.63	9.9	11.89	9.63	21.59				21.59	21.59	XI Plan	
5	Restoration of 10 no. Reservoir	Bairampur, Shravasti	DPA	UA	XI	8.99			0	8.99	9.24	11.1	4.495	16.58				16.58	16.58	XI Plan	
	in District Bairampur																				
6	Restoration of Khaira Canal	Shahanpur	--	UA	XI	2.05			0	2.05	3.2	6.1	2.05	4.27				4.27	4.27	XI Plan	
7	Restoration of Gandak Canal System	Ghorakpur, Maharajganj	--	UA	XI	74.61			0	74.61	82.85	92.46	37.305	173				173	173	XI Plan	
		Kushinagar, Deoria																			
8	Restoration of Dalmau B'Pump	Unnao, Raibarelly	--	UA	XI	22.61			0	22.61	23.26	27.95	11.305	17.45				17.45	17.45	XI Plan	
	Canal																				
9	Restoration of Kwano Pump	Sant kabir nagar,	--	UA	XI	1.64			0	1.64	1.69	2.03	1.64	19.9				19.9	19.9	XI Plan	
	Canal	Ghorakpur,																			
10	Restoration of Saryu Pump Canal		--	UA	XI	5.48			0	5.48	8.56	10.26	5.48	24.41				24.41	24.41	XI Plan	
11	Restoration of SaradaSahayak	Barbuki, Faizabad	--	UA	XI	172.91			0	172.91	177.77	213.6	86.455	786.62				786.62	288	XI Plan	
	Canal	Sultanpur, Pratapgarh																			
12	Restoration of Hardoi Branch	Unnao, Raibarelly	--	UA	XI	109.6			0	109.6	112.68	134.78	109.6	95.96				95.96	95.96	XI Plan	
		Luknow,Hurdoi,Pilibhit																			
13	Restoration of Flow of Baigul Esacape	Barelly, Pilibhit	--	UA	XI	0.88			0	0.88	1.38	1.49	0.88								
	Channel																				
14	Restoration of Deoha Pump canal	Sonbhadra	DPA	UA	XI	1.39			0	1.39	1.43	1.72	1.39	0.67				0.67	0.67	XI Plan	
15	Restoration of Chilimal Pump	Chitarakoot	DPA	UA	XI	27.74			0	27.74	28.52	34.27	27.74	6.14				6.14	6.14	XI Plan	
	Canal																				
16	Restoration of BaragaonPump	Jhansi	DPA	UA	XI	1.91			0	1.91	1.66	2.35	1.91								
	Canal																				
17	Remodelling of BelanCanal	Allahabad	DPA	UA	XI	0.81			0	0.81	9.06	10.86	0.81	77.88				77.88	77.88	XI Plan	
	Sub-total					496.64	0	0	0	496.64	559.58	659.83	357.08	1246.98	0	0	0	1246.98	748.36		
	Total of III					1952.97	0	0	0	1952.97	2341.21	2891.6	638.411	1630.11	0	0	0	1630.11	1009.39		

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
IV	Spl.repairs of Existing Irrign. System	All U.P																			
	Total of IV																				
V	Dam Saftey Measures																				
1	Rihand Dam					27.08			0	27.08	42.31	50.67								XI Plan	
2	Marabla Dam					37.63			0	37.63	58.8	60.08								XI Plan	
3	Chandra Prabha Dam	Chandauli, Mizapur				6.55			0	6.55	8	4.36								XI Plan	
4	Sajnam Dam	Lalitpur				1.21			0	1.21	1.86	2.16								XI Plan	
5	Ohan Dam					3.5			0	3.5	5.46	6.38								XI Plan	
6	Dongia Dam					4.48			0	4.48	7	8.19								XI Plan	
7	Kabrai Dam					3.5			0	3.5	4.56	6.38								XI Plan	
8	Arjun Dam					7.39			0	7.39	11.54	13.5								XI Plan	
9	Sirsi Dam					7.56			0	7.56	11.81	13.81								XI Plan	
10	Institutional Strengthening					12.22			0	12.22	19.09	22.32								XI Plan	
	Total of V					111.12	0	0	0	111.12	170.43	187.85	187.85	0	0	0	0	0	0		
VI	Improved water																				
	Management																				
	Total of VI																				
VII	Water Development																				
A	Survey & Investigations					163.26	89.09	31.78	120.87	42.39	42.39	42.39	42.39		0	0	0	0	0	XI Plan	
B.	Research & Developmnet					19.1	1.72	4.56	6.28	12.82	12.82	12.82	12.82		0	0	0	0	0	XI Plan	
	Including provisions for																				
	Jalasoudha																				
C.	Training						6.59	0	0	0	0	0		0	0	0	0	0	0	XI Plan	
D.	National Hydrology Project					6.06		0	0		0	0		0	0	0	0	0	0	XI Plan	
	Total of VII					188.42	97.4	36.34	127.15	55.21	55.21	55.21	55.21	0	0	0	0	0	0		
	Grand Total					15053.14	3213.05	3368.88	9002	6045.03	7080.56	8290.28	4057.4	4263.79	762.03	711.13	1409.47	2854.32	2233.6	0	0
STATE:- -WEST BENGAL																					
I	Liabilities of the Completed Project																				
(A)	Major Projects	Nil																			
(B)	Medium Projects																				
1*	Hanumata	Purulia	DPA/TA	APP	VII	8.80	5.58	0.4513	6.0313	2.7687		2.76866	2.76866	6.249	3.66	2.589	6.249				
2*	Tatko	Purulia	DPA/TA	APP	V	12.57	7.7800	0.5768	8.3568	4.2132		4.2132	4.2132	3.4	1.60	1.80	3.40				
3*	Patloi	Purulia	DPA/TA	APP	V	10.80	5.52	0.8662	6.3862	4.4138		4.4138	4.4138	3.3218	0.1568	3.165	3.3218		12.00		
	Sub Total(Medium)					32.17	18.88	1.89	20.77	11.40	0.00	11.40	11.40	12.97	5.42	7.55	12.97	0.00	12.00		
(C)	ERM Projects	Nil																			
	Total-I					32.17	18.88	1.89	20.77	11.40	0.00	11.40	11.40	12.97	5.42	7.55	12.97	0.00	12.00		
II	On-going Projects																				
(A)	Major Projects																				
	(b) Inter-State Project																				
	(c) Pre-V Plan Project																				
	(d) Other Project																				

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1*	Teesta Barrage	Darjeeling	TA	APP	V	2068.00	903.33	147.6344	#########	1017.04		410.00	410.00	527.00	119.11	64.32	183.43	343.57	128.00	2008-09	Land
	Project (1st Sub-	Coochbehar																			
	stage)	Jalpaiguri																			acquisition
																					court Cases
2*	Subarnarekha	Midnapore	DPA/TA	APP	VIII	1261.68	33.79	10.02	43.81	1217.87		199.50	199.50	114.20	0.00			114.2	114.20		Land
	Barrage Project																				acquisition
	Sub Total(Major)					3329.68	937.12	157.65	1094.77	2234.91	0.00	609.50	609.50	641.20	119.11	64.32	183.43	457.77	242.20		
(B)	Medium Irrigation Scheme																				
1	Golamarajore	Purulia	DPA/TA	APP	V	3.92	3.06	0.1645	3.2245	0.6955		0.6955	0.6955	1.76	0.26	1.50	1.76				
2	Moutorejore	Purulia	DPA/TA	APP	V	1.90	0.64	0.0576	0.6976	1.2024		1.2024	1.2024	2.076	0.574	1.50	2.08				
3	Beko	Purulia	DPA/TA	APP	V	5.90	4.1900	0.2516	4.4416	1.4584		1.4584	1.4584	2.51	1.002	1.51	2.51				
4	Khaira Bera	Purulia	DPA/TA	APP	VII	4.15	3.1900	0.2296	3.4196	0.7304		0.7304	0.7304	2.12	0.574	1.55	2.12				
5	Futiary	Purulia	DPA/TA	APP	VII	17.04	11.26	0.1855	11.4455	5.5945		5.5945	5.5945	1.5	0.00	1.50	1.50				
--	Ranichak Pump Irrigation	Midnapore	DPA/TA	APP	VII	5.5564	5.26	0.2964	5.5564	0.0000			0	1.531	0.00	1.53	1.53				
	cum Drainage																				
	Sub Total(Medium)					38.4664	27.6	1.1852	28.7852	9.6812		9.6812	9.6812	11.497	2.41	9.084	11.49		0		
(C)	E R M Project																				
1	Mod. of Mayurakshi	Birbhum	DPA/TA	UA	VI	17.00	3.68	0.00	3.68	13.3200		13.3200	6.66	6.00	0.00	0.00		6.00	6.00	2008-09	
2*	Mod. of D V C	Burdwan,Bankura,	DPA/TA	UA	VI	50.00	3.39	0.00	3.39	46.6100		46.61	32.627	44.00	0.00	0.00		44.00	44.00	2008-09	
3	Extension of Bandhu	Purulia	DPA/TA	UA	VII	6.70	5.15	0.3986	5.5486	1.1514		1.15	1.1514	6.50	0.08	0.42	0.50	6.00	6.00		
	& other 11 Nos.																				
	scheme																				
4	Special repairs to	Midnapore	DPA/TA	UA	VIII	3.21	2.59	0.6156	3.2056												
	Midnapore Canal																				
5	Special repair to	Birbhum	DPA/TA	UA	VIII	11.43	10.54	0.8876	11.4276					0.00	0.00	0.00		0.00	0.00	2008-09	
	Mayurakshi	Murshidabad																			
6	Mod. of Kangsabati	Bankura	DPA/TA	UA	VIII	491.00	0.99	0.00	0.99	490.0100		490.01	343.007	40.00	0.00	0.00	0.00	40.00	40.00	2009-10	
	Sub Total(ERM)					579.33	26.34	1.90	28.24	551.09		551.09	383.45	96.50	0.08	0.42	0.50	96.00	96.00		
	Total of II					3947.48	991.06	160.74	1151.80	2795.68	0.00	1170.27	1002.63	749.20	121.60	73.82	195.42	553.77	338.20		
III	New Projects of XI Plan																				
(A)	Major Projects																				
1	Darkeswar &	Bankura	DPA/TA	UA	XI	400.00	0.03	0.00	0.03	400.00		220.00	100.00								
	Gandheswari																				
2	Upper Kangsabati	Bankura	DPA/TA	UA	XI	43.80	0.09	0.00	0.09	43.80			10.95								
3	Dolong	Midnapore	DPA/TA	UA	XI	35.00	0.00	0.00	0.00	35.00			8.75								
4	Ajoy Reservoir	Birbhum	DPA/TA	UA	XI	70.00	0.00	0.00	0.00	70.00		5.00	17.50								
5	Suddheswari-Noonbeel	Birbhum	DPA/TA	UA	XI	120.00	0.00	0.00	0.00	120.00		5.00	30.00								
	Reservoir																				
6	Teesta Barrage Project	Darjeeling	TA	UA	XI	111.60	0.00	0.00	0.00	111.60			27.90								
	(2nd Sub-stage)	Coochbehar																			
	Sub Total(Major)					780.40	0.12	0.00	0.12	780.40		230.00	195.10								
(B)	Medium Irrigation Project																				
1)	Karu	Purulia	DPA/TA	UA	XI	57.60	0.49	0.0015	0.4915												

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start	Latest Estd. Cost	Expendt. Up to IX Plan	Expendit during X Plan	Likely Exp. Up to X Plan	Likely Spillover cost in XI Plan	XI plan outlay at constant price	Proposed outlay in XI Plan	Outlay Proposed By Sub group in XI Plan	Ultimate Irrigation Potential	Potential created up to IX Plan	Pot. Creation during X Plan	Likely Pot. Creation upto X Plan	Likely Balance Potential in XI plan	Proposed Targets of Pot. Created In XI Plan	Likely year of completion	Reasons for Dealy
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
2)	Dambera	Purulia	DPA/TA	UA	XI	78.87	0.05	0.0015	0.0515												
3)	Horai	Purulia	DPA/TA	UA	XI	10.08	0.06	0.0010	0.0610												
4)	Sobha	Purulia	DPA/TA	UA	XI	54.77	0.00	0.00	0.00												
5)	Saphai	Purulia	DPA/TA	UA	XI	48.20	0.00	0.00	0.00												
6)	Rajbundh	Purulia	DPA/TA	UA	XI	52.58	0.00	0.0010	0.00												
7)	Attla	Purulia	DPA/TA	UA	XI	46.01	0.00	0.00	0.00			9.00	9.00								
8)	Pathartikuri	Purulia	DPA/TA	UA	XI	52.58	0.00	0.00	0.00												
9)	Kuskarni	Purulia	DPA/TA	UA	XI	18.00	0.00	0.00	0.00												
10)	Pagla	Purulia	DPA/TA	UA	XI	12.00	0.00	0.00	0.00												
11)	Bansloi	Purulia	DPA/TA	UA	XI	15.00	0.00	0.00	0.00												
12)	Integrated Irrigation	Purulia	DPA/TA	UA	XI	3.60	0.00	0.00	0.00												
	Scheme																				
	Sub Total(Medium)					449.29	0.60	0.01	0.61	0.00	0.00	9.00	9.00								
(C)	E R M Project																				
1	Extension of Dangra	Purulia	DPA/TA	UA	XI	65.72	0.00	0.00	0.00	65.72			32.86								
2	Special repair of	Bankura	DPA/TA	UA	XI	20.00	0.00	0.00	0.00	20			20								
	Kangsabati	Hooghly																			
3	Mod. & improvement		DPA/TA	UA	XI	4.90	0.14	0.00	0.14	4.9			4.9								
	of existing Irrigation																				
	Scheme																				
	Sub Total(ERM)					90.62	0.14	0	0.14	90.62			57.76								
	Total of III					1320.31	0.86	0.01	0.87	871.02	0.00	239.00	261.86	0.00	0.00	0.00	0.00	0.00	0.00		
	GRAND TOTAL(I+II+III)					5299.96	1010.80	162.64	1173.44	3678.09	0.00	1420.67	1275.88	762.17	127.02	81.38	208.39	553.77	350.20		

* Projects Assisted under AIBP

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
	STATE: AndhraPradesh				
A	MAJOR PROJECTS				
1	SRBC	KNL.,KDP	DPA	Approved	VI
2*	Somasila	NLR	DPA	Approved	V
3	Telugu Ganga	KNL,KDP, NLR,CTR	DPA	UA	VI
4	SLBC (AMRP)	NLG	DPA	UA	VI
5*	Thotapally barrage	VZNM, SKLM	DPA/TA	Approved	X
6	Pushkara LIS	EG	TA	Approved	X
7*	Gundlakamma Project	PKSM	DPA	Approved	X
8*	SRSP - II	WGL, KMM, NLG	DPA/TA	Approved	X
9*	FFC from SRSP	KRMR, WGL, NLG	DPA/TA	Approved	X
B	MEDIUM PROJECTS				
1*	Kanupur canal Stage-I	NLR	DPA	Approved	III
2*	Gundlavagu	KMM	DPA/TA	Approved	V
3	Jhanjhavathi	VZNM	--	UA	V
4*	Palemvagu	KMM	DPA/TA	Approved	IX
5*	Tharakarama Thirthasagaram	VZNM	--	Approved	X
6	Peddagedda	VZNM	--	UA	X
7	Bhupathipalem	EG	TA	UA	X
8	Surampalem	EG	TA	UA	X
9	Kovadakaluva	WG	TA	UA	X
10*	Swarnamukhi Barrage	NLR	DPA	Approved (SPB)	X
11	Komarambheem (Peddavagu Ada)	ADB	DPA/TA	UA	X
12	Peddavagu Jagannadhapur	ADB	DPA/TA	Approved	X
13	Neelwai	ADB	DPA/TA	UA	X
14	Gollavagu	ADB	DPA/TA	Approved	X
15	Ralivagu	ADB	DPA/TA	Approved	X
16	Mathadivagu	ADB	DPA/TA	Approved	X
C	ERM PROJECTS				
1	TBP HLC Stage-II	KNL,ATP, KDP	DPA	Approved	IV
2	Improvements to Nizamsagar (Stab.)	NZB	--	UA	V
3	Pulichintala (Stab.)	KRN, GTR, PKSM, WG	DPA/TA	UA	VIII
4	Godavari Delta System (Stab.)	EG, WG	TA	UA	IX
	KMM - Khammam, WGL - Warangal, NLG - Nalgonda, ADB - Adilabad, NZB - Nizamabad, KRMR- Karimnagar, KNL- Kurnool, K)P-Kadapa, WG - West Godavari, EG - East Godavari, KRN-Krishna,GTR-Guntur,				
	PKSM-Prakasham, SKLM-Srikakulam, NLR-Nellore, MDK-Medak, CTR-Chit				
STATE: ASSAM					
A	Major Projects				
1*	Dhansiri Irrigation Project	Darang	TA	Approved	V
2*	Champamati Irrigation Project	Kokrajhar	TA	Approved	VI
B	Medium Projects				
1*	Burihehing Irrigation Project	Sibrugarh	TA	Approved	AP-1978-80
2*	Borolia Irrigation Project	Nalbari	TA	Approved	AP-1978-80
C	ERM Projects				
1*	Modernisation of Jamuna I.P.	Nagaon	TA	Approved	IX
2	Modernisation of Sukla I.P.	Baska	--	UA	X

List of Projects Likely to be Completed in XI Plan

ANNEX. 5.2(2/11)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
STATE: BIHAR					
A	Major Projects				
1	Jamania Pump Canal Scheme	Kaimur	--	UA	V
2*	Western Kosi Canal Scheme	Madhubani,Darbhanga	DPA	Approved	III
3*	Durgawati Reservoir Scheme	Rohtas, Kaimur	DPA	Approved	V
B	Medium Projects				
1*	Batane Reservoir Scheme	Aurangabad	--	Approved	V
C	ERM Projects				
1*	Sone Modernisation Scheme	Rohtas,Patna, Kaimur,Gaya	DPA	Approved	VII
2	Restoration of Lower Kiul Irrigation Scheme	Jamui	DPA	UA	X
3	Restoration of Eastern Gandak Canal System	W Champaran, E Champaran, Muz., Vaishali	--	Approved	X
4	Restoration of Western Gandak Canal System	Siwan, Gopalgang, Chapra	--	UA	X
5	Restoration of Eastern Kosi Canal System	NA	--	UA	X
6	Restoration of Distribution System of Phulwaria Irrigation Scheme	Nawada	DPA	UA	X .
7	Restoration of Distribution System of Upper Yamuna Irrigation Scheme	Gaya	DPA	UA	X .
8	Restoration of Distribution System of Lokain Irrigation Scheme	Nalanda	--	UA	X .
9	Restoration of Distribution System of Satgharwa Reservoir Scheme	Munger	--	UA	X .
10	Restoration of Distribution System of Hirambi Dam	Bhagalpur	--	UA	X .
11	Restoration of Distribution System of Kharagpur Lake	Munger	--	UA	X .
12	Restoration of Distribution System of Chandan Reservoir Scheme	Banka	--	UA	X .
13	Restoration of Distribution System of Badua Reservoir Scheme	Banka	--	UA	X .
14	Restoration of Distribution System of Sindhwarni Complex Reservoir Scheme	Munger	--	UA	X .
STATE: CHHATTISGARH					
A	MAJOR PROJECTS				
1*	Mahanadi Proj MRP	Raipur, Dhamtari, Durg	DPA/ TA	Approved	IV
2*	Hasdeo Bango Proj.	Korba, Rgrh, Janjgir	DPA/ TA	Approved	VI
B	Medium Projects				
1*	Kosarteda	Bastar	DPA/ TA	Approved	VI
2	Kharkhara Mohdipat Canal	Durg	DPA/ TA	UA	IX
3	Sutiyapat	Kawardha	DPA	UA	IX
4	Mongra Barrage	Rajnandgaon	DPA/ TA	Approved	X
5	Karranalla Barrage	Rajnandgaon	DPA/ TA	UA	X
6	Ghumariya Barrage	Rajnandgaon	DPA/ TA	UA	X
C	E.R.M. Projects				
1	Saroda Lining	Kawardha	DPA	UA	X
STATE: GOA					
A	Major Projects				
--*	Tillari Irrigation Project	North Goa	--	Approved	VII
State:-Gujarat					
A	Major Projects				
-	Bajajsagar	Project of Rajasthan Government and being executed by Rajsthan Govt.			
1*	Sardar Saro var	12 Districts**	DPA/ DDP/TA	Approved	VI

List of Projects Likely to be Completed in XI Plan

ANNEX. 5.2(3/11)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
B	Medium Projects				
1*	Ozat-II	Junagadh	DDP	Approved	VIII
3	Koliyari	Punchmahal	TADPA	UA	VIII
4	Limbdi Bhogavo-II	Surendranagar	DDP	UA	VIII
5*	Bhadar-II	Rajkot/Junagadh	DDP/DPA	Approved	IX
6	Varansi	Kheda		Approved	IX
7	Chinchai lift Scheme (T)	Valsad	TA/DPA	Approved	IX
8	Gunda (Utavali)	Ahmedabad	DPA	UA	IX
C	ERM Projects				
1	Restoration of Mitti	Kachchh	DDP	UA	VII
2	Augmentation of Surface Water for Gujarat Region including tribal area	Whole Gujatat		UA	IX
3	Kadana Left Bank High level Canal	Panchmahal	DPA/TA	UA	IX
4	Extension of Dharoi RBMC	Mehsana		UA	IX
5	Ukai Purna High Level LBC	Surat	TA	UA	IX
6	Sujalam Suflam Spreading Canal (Kadna Recharge canal) & Distribution network of Sujalam- Sufalam	Gandhinagar,Sabar-kantha,Mehsana, Patan,Banaskantha	DPA/TA	Unpproved	X
7	Link of Bhadar M.C. with KRBC	Punchmahal	DPA/TA	Unpproved	X
8	i) Dharoi (Sabarmati) L.B.H.L. Canal	Sabarkantha,	DDP	UA	Not Started
	II) Dharoi (Sabarmati) L.B.Main Canal	Sabarkantha,	DDP	UA	Not Started
9	Dharoi Project- Sipor loop Canal	Mehsana		UA	X
10	Panam High Level Canal (T)	Panchmahal	DPA/TA	UA	X
11	Dantiwada-Sipu Lnk Canal	Bznaskantha	DPA/TA	UA	Not Started
12	Sukhi-Deo Link	Vadodara	DPA/TA	UA	Not Started
13	Sabarmati Pickup Wier (Vataman)	Ahmedabad	DPA	UA	X
14	Mahi Pick up Wier	Kheda		Unpproved	X
15	Harnav-Guhai Link Canal	Sabarkantha,	DPA/TA	UA	Not Started
16	Dharoi Reverse Canal	Mehsana	DPA	UA	Not Started
17	Kadana Right Bank Ccanal System	Punchmahal	DPA/TA	UA	Not Started
18	Sabarmati-Saraswati Link Canal	Mehsana		Unpproved	Not Started
STATE: HARYANA					
A	MAJOR PROJECTS				
1	SYL Project(Punjab portion)	Whole State	DDP	UA(TAC)	VI
B	MEDIUM PROJECTS		NIL		
C	ERM				
1	Improvement/Reconditioning and Remodelling of old existing canals.	NA	--	UA	VII
STATE: HIMACHAL PRADESH					
	Major Project.				
1*	Shahnehar.	Kangra	-	Approved	VIII
	Sub Total				
	Medium Project.				
1*	Sidhatha	Kangra	-	Approved	IX
2*	Changer Area medium Irrigation .	Bilaspur	-	Approved	IX
STATE-JAMMU&KASHMIR					
	(A) Major Projects	Nil			
	(B) Medium Projects				
1*	Marwal Lift	Phulwama,Budgam	--	Approved	IV
2	Niv-Karewa	Phulwama, Budgam	--	Approved	IV
3*	Rajpora Lift	Phulwama	--	Approved	AP78-80
4*	Tral Lift	Phulwama	--	Approved	AP78-80
5*	Rafiabad High Lift	Baramula	--	Approved	VII

List of Projects Likely to be Completed in XI Plan

ANNEX. 5.2(4/11)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
(C) ERM Projects					
1	Mod. of Dadi Canal	Anantnag	--	Approved	VII
2	Mod. of Martand Canal	Anantnag	--	Approved	VII
3*	Mod. of Ranbir Canal	Jammu	--	Approved	VII
4*	Mod. of New Pratap Canal	Jammu	--	APP	VII
5	Mod of Ahaji canal Budgam	NA	--	UA	IX
6	Mod of Mav Khul Kulgam	NA	--	Approved	IX
7	Mod Babul canal Tangmarg	NA	--	Approved	IX
8	Mod. Of Nandi canal Kulgam	NA	--	Approved	IX
9	Lar canal budgam	NA	--	UA	IX
STATE- JHARKHAND					
A	Major Projects				
	North Koel Project	Palamu, Aurangabad	DPA/TA	(TAC) UA	V
	Batane Res. Project	Palamu, Aurangabad	DPA/TA	Approved	V
1	Ajay Barrage Project	Deoghar, Dumka	TA/DPA	(TAC) UA	V
B	Medium Projects				
1*	Gumani Barrage Project	Sahebganj/Pakur	TA/DPA	Approved	V
2	Kans Res. Sch.	Ranchi/Singhbhum	TA	Approved	V
3*	Torai Res. Sch.	Pakur	DPA	Approved	V
4*	Sonua Res. Sch.	W. Singhbhum	TA	Approved	VI
5*	Upper Sankh Res.Sch.	Gumla	TA	Approved	VII
6*	Surangi Res. Sch.	Ranchi/Singhbhum	TA	Approved	VII
7*	Punchkhero Res. Sch.	Hazaribagh, Giridih	DPA	Approved	VII
8	Bhairwa Res. Sch.	Hazaribagh/	DPA	Approved	VII
9	Nakti Res. Sch.	W.Singhbhum	TA	Approved	VII
C	ERM Projects				
1	Tapkara Res. Sch.	Gumla	TA	UA	X
2	Latratu Res. Sch.	Ranchi	TA	UA	XI
3	Palna Res. Sch.	W.Singhbhum	TA	UA	
4	Sona Irri. Sch.	Saraikela, Kharsawan	--	UA	XI
5	Sunder Res. Sch.	Godda	DPA/TA	UA	XI
6	Kajia Weir Sch.	Godda	DPA/TA	UA	XI
7	Anraj Res. Sch.	Garhwa	DPA	UA	XI
8	Chirka res. Sch.	Garhwa	DPA	UA	XI
9	Bayi Banki Res. Sch.	Garhwa	DPA	UA	XI
STATE-KARNATAKA					
A	MAJOR PROJECTS:				
1*	Malaprabha	Belgaum, Bijapur & Dharwad	DPA	Approved	II
2	Harangi	Hassan, Kodagu, Mysore	DPA	UA	III
3	Bennithora	Gulbarga	DPA	Approved	IV
4*	Karanja	Bidar	DPA	Approved	IV
5	Markendeya	Belgaum	DPA	UA	AP-1990-92
6*	U.K.P. Stage-I	Bijapur, Gulbarga, Bagalkot	DPA	Approved	AP 66-69
	U.K.P. Stage-II				VIII
B	MEDIUM PROJECTS				
1	Manchanabele	Bangalore (R)	DPA	Approved	IV
2	Amarja	Gulbarga	DPA	Approved	V
3*	Hirehalla	Koppal	DPA	Approved	V
4	Lower Mullamari	Gulbarga	DPA	Approved	V

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
5	Arkavathy	Bangalore (R)	DPA	UA	V
6	Iggalur	Bangalore (R)	DPA	UA	AP-1978-80
7	Kamasamudra L.I.S	Hassan	DPA	UA	VI
8	Huchanakoplu L.I.S	Hassan	DPA	UA	AP-1990-92
9	Basapura lift	Haveri	DPA	UA, SPD	VIII
10*	Gandhorinala	Gulbarga	DPA	Approved	VIII
11	Itagi Sasalwad lift	Gadag	DPA	UA, SPD	VIII
12	Harinala	Belgaum	DPA	UA	IX
13	Javalahalla	Belgaum	DPA	UA	X
14	Rameshwari LIS	Belgaum	DPA	UA	X
15	Bennihalla	Gadag	DPA	UA	X
16	Kenchanagudda	Bellary	--	UA	X
C	ERM PROJECTS				
1*	Ghataprabha-III	Bijapur & Belgaum	DPA	Approved	IV
2	Taraka	Mysore	DPA,TA	UA	IV
3	D.D.Urs Canal	Mysore, Mandya	DPA,TA	UA	AP-1978-80
4	K.R.S. Modn.	Mysore, Mandya	DPA,TA	UA	AP-1978-80
5	Shimsha Modernisation	Mandya	--	UA	X
STATE-KERALA					
A	Major Projects				
1*	Muvattupuzha Valley Irrigation Project	Iddukki, Kottayam, Ernakulum	TA	Approved	V
B	Medium Projects				
1	Karapuzha	Waynad	TA	Approved	V
C	ERM Projects				
2	Bridge cum Regulator at Thirthala	Palakkad	TA	UA	IX
STATE: MADHYA PRADESH					
(A)	MAJOR PROJECTS				
1*	Sindh Phase-II	Shivpuri/Gwalior	DPA	Approved	V
2	Rani Awanti Bai Sagar	Jabalpur,Narsinhpur	DPA/TA	UA (TAC)	V
3*	Bariyarpur LBC	Chhatarpur	--	Approved	V
4*	Mahi	Dhar/Jhabua	DPA/TA	Approved	VI
5*	Mahan	Sidhi	DPA/TA	Approved	VI
6	Jobat (NVDA)	Dhar	DPA/TA	Approved	VI
7	Man (NVDA)	Dhar	DPA/TA	Approved	VI
8*	IndiraSagar (NVDA)	Khandwa, Khargaon	DPA/TA	Approved	VI
9*	Bargi Diversion (NVDA)	Jabalpur, Satna, Rewa	DPA/TA	Approved	VII
10*	Omkareshwar (NVDA)	Khandwa, Khargaon, Dhar	DPA/TA	Approved	VII
11*	Bansagar Unit-I	Rewa	DPA	Approved	V
12*	Bansagar Unit-II	Rewa,Shahdol, Sidhi,Satna, Umaria	DPA/TA	Approved	V
--	Bawanthadi Unit-I	Balaghat	TA	Approved	VI
	Unit-II	Balaghat	TA	Approved	VI
(B)	MEDIUM PROJECTS				
1	Upper Beda(NVDA)	Khargone	DPA/TA	Approved	IX
2	Sagar	Vidisha	--	Approved	X
3	Tawa machak	Hoshangabad	TA	UA	X
(C)	ERM Projects				
1	Harsi	Gwalior	--	UA	VII

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
2	Sindh remova link	Gwalior	--	UA	VII
3	Chambal LIS	Bhind,Morena	DPA/TA	UA	VII
State: MAHARASHTRA					
A	Major Projects				
1*	Bawanthadi	Bhandara	--	Approved	V
2*	Tillari	Sindhudurga	--	Approved	V
3*	Gosikhurd	Bhandara/ Nagpur/ Chandarpur	DPA/TA	Approved	VII
4*	Kukadi Project	Pune, Solapur, A'Nagar	DPA/TA	Approved	AP 66 -69
5*	Upper Wardha	Amravati & Wardha	DPA/TA	Approved	IV
6*	Upper Tapi-1 (Hatnur)	Jalgaon	DPA/TA	Approved	IV
7*	Upper Penganga Project	Nanded Hingoli Yeotmal	DPA/TA	Approved	IV
8	Upper Godawari	Nasik	DPA/TA	Approved	IV
9*	Waghur	Jalgaon, Bhusawal (Maharashtra State)	DPA/TA	Approved	V
10*	Nandur Madhmeshwar Canal	Aurangabad	DPA	Approved	V
11*	Krishna	Satara Sangli	Partly DPA	Approved	III
12*	Bhima (Ujjani)	Solapur, Pune, Ahmednagar	DPA	Approved	III
13	Shankerrao Chavan Vishnupuri Project (Part.I)	Nanded.	DPA	UA	V
14*	Warna	Kolhapur, Sangli.	DPA	Approved	V
15*	Surya Project	Thane	TA	Approved	AP 78-80
16	Kadawa Project	Nasik	DPA /TA	Approved	VI
17	Dhom Balkawadi	Satara Pune	Partly DPA	UA	VIII
18	Bhima Sina Link Canal	Solapur	DPA	UA	VIII
19	Janai Shirsai L.I.S.	Pune	DPA /TA	UA	VIII
20	Mula Project				
	a) Mula High Level Right Bank Canal (Wambori Canal)	A'Nagar	DPA	UA	IX
	b) Mula High Level Left Bank Canal (Bhagada Canal)	A'Nagar	DPA	UA	IX
B	Medium Projects				
1	Mor	Jalgaon	DPA /TA	Approved	V
2	Mangrul	Jalgaon	DPA /TA	Approved	V
3	Pothra Project	Chandrapur	DPA /TA	Approved	V
4	Hetawane	Raigad	--	Approved on 16.3.2001	VI
5*	Shivana Takali	Aurangabad	DPA	Approved	VI
6	Deoghar	Sindhudurg	--	Approved	VI
7	Tajanapur	A'Nagar	DPA /TA	Approved	VI
8	Purna	Amravati	DPA /TA	Approved	VIII
9	Utawali	Buldana	DPA	Approved	VIII
10	Sonapur Tomta	Chandarpur	DPA /TA	Approved	VIII
11*	Gul	Jalgaon	DPA /TA	Approved	VIII
12	Anjani	Jalgaon	DPA /TA	Approved	VIII
13	Pothra Nallah		--	Approved	X
14	Jam	Nagpur	DPA	UA(TAC)	VI
15	Bori (S)	Solapur	DPA	UA	VI
16	Dehali	Nandurbar	DPA	UA(TAC)	VI
17	Talni Project	Nanded.	DPA /TA	UA	VI
18	Andhali	Satara	DPA	UA	VII
19	Gadnadi	Ratnagiri	--	UA	VII
20	Chandrabhaga	Amravati	DPA /TA	UA	AP-1991-92
21	Gautami Godawari Project	Nasik	DPA /TA	UA	VIII
22	Kar	Wardha	--	UA(TAC)	VIII
23	Kashyapi Project	Nasik	DPA /TA	UA	VIII
24	Kalpathri	Gondia	--	UA	VIII
25	Wagholibuti LIS	Chandarpur	DPA /TA	UA	VIII

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
26	Morna Gureghar	Satara	DPA	UA	VIII
27	Nagewadi	Satara	DPA	UA	VIII
28	Lalnalla	Wardha/ Chandrapur	DPA /TA	UA(TAC)	VIII
29	Sondyatola	Bhandara	--	UA	VIII
30	Akkalpada	Dhule	DPA /TA	UA	VIII
31	Jamkhedi	Dhule	DPA /TA	UA	VIII
32	Suwade Barrage	Dhule	DPA /TA	UA(TAC)	VIII
33	Wadi Shewadi	Dhule	DPA /TA	UA	VIII
34	Dara	Nandurbar	DPA	UA(TAC)	VIII
35	Naradave	Sindhudurg	--	UA	VIII
36	Nagan	Nandurbar		UA	VIII
37	Virchek [Shivan]	Nandurbar		UA(TAC)	VIII
38	Prakasha Barrage	Nandurbar		UA(TAC)	VIII
39	Sangameshwar	Osmanabad	DPA	UA	VIII
40	Wakod	Aurangabad	DPA	UA	VIII
41	Dhapewada LIS	Gondia	--	UA	IX
42	Uttarmand	Satara	DPA	UA	IX
43	Wang	Satara	DPA	UA	IX
44	Pimpalgaon (Dhale)	Solapur	DPA	UA	IX
45	Kudali	Satara	FA	UA	IX
46	Manikpunj	Nasik	DPA /TA	UA	IX
47	Sarangkheda Barrage	Nandurbar	DPA	UA(TAC)	IX
48	Mulshi	Pune	DPA /TA	UA	X
49	Sapan River Project	Amravati	DPA /TA	UA	X
C	ERM Projects				
1	Sangola Br. Canal Project, Tal. Sangola, Dist. Solapur	Satara / Solapur	DPA	UA	VI
2	Extension of Krishna Canal	Satara, Sangli	DPA	UA	VI
3	Gated weir @ Khodashi	Satara, Sangli	DPA	UA	VI
STATE: MANIPUR					
A	Major Projects				
a					
1*	Khuga Multipurpose Project	Churachanpur & Bisnupur	TA	Approved	VI
2*	Thoubal Multipurpose Project	Imphal East & Thoubal	TA	Approved	VI
B	Medium Projects				
1*	Dolaithabi Barrage Project	Imphal East	TA	Approved	VIII
C	ERM Projects				
1	Mod. Of Loktak Lift Irr.	Bishenpur	--	UA	VIII
2	Mod. Of Imphal Barrage	Thoubal	--	UA	VIII
3	Mod. Of Sekmai Barrage.	Thoubal	--	UA	VIII
4	Mod. Of Khoupum Dam	Tamenglong	--	UA	VIII
5	Singda Irrigation Project	Senapati,Imphal West	Ta	UA	VIII
State:-Meghalaya					
	(A) Major Projects	Nil			
	(B) Medium Project				
1*	Rongai Valley Project	West Garo Hills	TA	Approved	VIII
	(C) ERM	Nil			

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
STATE: NAGALAND					
A	Major Projects	NIL			
B	Medium Projects				
STATE: - ORISSA					
A	Major Projects				
*1	Rengali Left Bank Canal (RD. 29.177 Km. to 71.313 Km.)	Anugul & Dhenkanal	DPA	Approved	IX
*2	Subernarekha Irr. Project				
a)	Subernarekha Part-I (Jambhira Truncated under RIDF scheme)	Mayurbhanj & Balasore	TA	Approved	VII
b)	Subernarekha Part-II under AIBP				
c)	Subernarekha Part-III				
*3	Lower Indra Irrigation Project	Nuapada & Bolangir	DPA	Approved	IX
*4	Lower Suktel Irrigation Project	Bolangir & Sonepur	DPA	Approved	IX
--	Rengali Right Bank Canal (RD 0.00 km. to 79.00 Km.)	Anugul & Dhenkanal	DPA	Approved	IX
*5	Telengiri	Koraput	TA	Approved	X
B.	Medium Projects				
1*	Titilagarh Irr. Project	Bolangir	DPA	Approved	VII
*2	Cheligada Dam Project	Ganjam	TA	Approved	X
*3	Ret Irrigation Project	Kalahandi	DPA/TA	Approved	X
C.	ERM & Other Projects				
1	Daha Extn.	Ganjam	TA	UA(TAC)	X
2	Ong Extn.	Sonepur	DPA	UA(TAC)	X
3	Bahuda Renovation	Ganjam	TA	UA(TAC)	X
4	Satiguda MIP	Malkangiri	--	UA(TAC)	X
5	Salia Extn.(Sumandal Canal)	Ganjam	TA	UA(TAC)	X
6	Malibasa Tantiapal Creek	Kendrapada	--	UA(TAC)	X
7	Kathilogotha Creek	Khurda	--	UA(TAC)	X
8	Weekhia Creek	Khurda	--	UA(TAC)	X
9	Galiajore Creek	Bhadrak	--	UA(TAC)	X
10	Arjunbindha Creek	Bhadrak	--	UA(TAC)	X
11	Rajkanika Creek	Kendrapada	--	UA(TAC)	X
12	Tikarapada Creek	Puri	--	UA(TAC)	X
13	Embankment Protection Work(Rushikulya,Mahamadpur	Jajpur & Ganjam	TA	UA(TAC)	X
14*	Upper Indravati Extn.	Kalahandi	DTA	Approved	X
STATE - PUNJAB					
	(A) Major Projects				
1*	Shahpur Kandi Project	Gurdaspur	--	Approved	IX
-	SYL Canal Project(I.S.)	Patiyala, Ropar	--	TAC (UA)	VI
	(B) Medium Projects)				
--	Irrigation to H.P. below Talwara	No Irr.Benefit	--	Approved	
	(C) ERM Projects				
1	Construction of super passage of RD 203760 of Jalandhar Br. & RD 79700 of Bist Doab canal	NA	--	UA	VIII
2*	Extn. of ph.II of Kandi canal from Hoshiarpur to Balachaur RD 59.5 to 130	Hashiarpur,Kapurthala, Jalandhar	--	Approved	IX
3	Punjab Irr. Project lining	NA	--	UA	

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
	of channels-Ph-III				
4	Construction of new Hithar	Firozpur,Bhatinda	--	UA	
	canal branch				
5	Remodelling of Sirihind canal,BML etc.	Firozpur,Bhatinda	--	UA	
6	Raising of lining /Banks of	Firozpur,Bhatinda	--	UA	
	Sirihind feeder from RD0-447927				
STATE - RAJASTHAN					
A	Major Projects				
1*	Narmada	Jalore	DDP	Approved	VIII
2*	IGNP -II	Sriganganagar,Bikaner,churu	DDP	Approved	V
B	Medium Projects				
1	Sukli (NABARD)	Sirohi	TA	Approved	X
2	Bandi Sendra (NABARD)	Jalore	DPA	Approved	X
3	Graradada (NABARD)	Bundi	--	UA(TAC)	X
C	ERM Projects				
1*	Gang Canal (Mod.)	SRI-GNR	--	Appoved	IX
STATE-TAMIL NADU					
	(A) Major Projects			Nil	
	(B) Medium Projects				
1	Irrukankudi Project	Virdhunagar	DPA	TAC	VIII
	Total Medium Projects				
	(C) ERM PROJECTS				
STATE-TRIPURA					
A	Major Projects				
B	Medium Projects				
1*	Gumti	South Tripura	TA	Appd	V
2*	Khowai	West Tripura	TA	Appd	VI
3*	Manu	North Tripura	TA	Appd	VI
STATE - UTTARANCHAL					
	(A) Major Projects				
	SUBTotal (Major Projects)				
	(B) Medium Projects	Nil			
	(C) ERM Projects	Nil			
STATE - UTTAR PRADESH					
A	Major Projects				
1*	Bansagar Project	Mizapur,Allahabad,Sonbhadra	DPA	Approved	V
2*	Saryu Canal Project	Bahraich,Gonda, Shravaso	DPA	Approved	V

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
B.	Medium Projects	Nil			
C.	ERM Projects				
1*	Modernisation of Agra Canal	Agra, Mathura	--	Approved	V
2*	Ch.Charan Singh, Lahchura Dam	Hamirpur, Mahouba,	DPA	Approved	VI
		Jhansi			
3	Restortion of Lower Ganga Canal	Ethawah,Kannauj	--	UA	X
		Auraiya,Firozbad,Etah			
4	Restoration of eastern Yamuna Canal	Shaharanpur,Mujaffur nagar	--	UA	X
		Meerut			
5	Restoration of Kishan pur Pump	Fatehpur,Kausambhi	--	UA	X
6	Ch.CharanSingh Dhori ghat Pump Canal	Azamgarh, Ballia,Mau	--	UA	X
7	Restoration of Canal for saline	Firozbad	--	UA	X
	Water Treatment of Eka & Khairagarh Block				
8	Restoration of GhaggarCanal Systesm	Sonbhadra, Mizapur	DPA	UA	X
9	Restoration of Sarada Canal system	Pilibit,Barelly,	--	UA	X
10	Restoration of Dohrighat Sahayak	Ballia	--	UA	X
	Pump Canal				
11	Conservation of Water	All districts of U.P	--	UA	X
	Through Lining Canals				
12	Increasing Capacilty of Khiri	Sitapur, Lakhimpur,	DPA/TA	UA	X
	Br. System	Shajahanpur,Lucknow, Pilibhit			
13	Water Sector Restructuring	Sultanpur, Raibareli		Approved	X
	Project	Maharajganz,Barabanki	--	UA	
14	Restoration of Ch. Charan Singh Tanda	Ambedkar nagar	--	UA	X
	Pump Ambedkar Nagar Canal				
15	Remodelling of Ghyanpur Pump Canal	Allahabad, Mirzapur	DPA	UA	X
16	Remodelling of Sone Pump Canal	Mizapur,Sonbhadra	DPA	UA	X
17	Restoration of Ch. Charan	Allahabad	DPA	UA	XI
	Singh Tons Pump Canal				
18	Restoration of 10 no. Reservoir	Bairampur,Shravasti	DPA	UA	XI
	in District Bairampur				
19	Restoration of Khaira Canal	Shahanpur	--	UA	XI
20	Restoration of Gandak Canal System	Ghorakpur, Maharajganj	--	UA	XI
		Kushinagar, Deoria			
21	Restoration of Dalmau B'Pump	Unnao, Raibarelly	--	UA	XI
	Canal				
22	Restoration of Kwano Pump	Sant kabir nagar,	--	UA	XI
	Canal	Ghorakpur,			
23	Restoration of Saryu Pump Canal		--	UA	XI
24	Restoration of SaradaSahayak	Barbuki, Faizabad	--	UA	XI
	Canal	Sultanpur, Pratapgarh			
25	Restoration of Hardoi Branch	Unnao, Raibarelly	--	UA	XI
		Luknow,Hurdoi,Pilibhit			
26	Restoration of Flow of Baigul Esacape	Barelly, Pilibhit	--	UA	XI
	Channel				
27	Restoration of Deoha Pump canal	Sonbhadra	DPA	UA	XI
28	Restoration of Chilimal Pump	Chitarakoot	DPA	UA	XI
	Canal				
29	Restoration of BaragaonPump	Jhansi	DPA	UA	XI
	Canal				
30	Remodelling of BelanCanal	Allahabad	DPA	UA	XI
STATE -WEST BENGAL					

List of Projects Likely to be Completed in XI Plan

ANNEX. 5.2(11/11)

	Name of Project	Districts Benifitted	DPA/ TA/FA	Approval Status	Plan of Start
1	2	3	4	5	6
(A)	Major Projects				
1*	Teesta Barrage	Darjeeling	TA	Approved	V
	Project (1st Sub-	Coochbehar			
	stage)	Jalpaiguri			
2*	Subarnarekha	Midnapore	DPA/TA	Approved	VIII
	Barrage Project				
(B)	Medium Irrigation Scheme				
1	Golamarajore	Purulia	DPA/TA	Approved	V
2	Beko	Purulia	DPA/TA	Approved	V
3	Futiary	Purulia	DPA/TA	Approved	VII
--	Ranichak Pump Irrigation	Midnapore	DPA/TA	Approved	VII
	cum Drainage				
(C)	E R M Project				
1	Mod. of Mayurakshi	Birbhum	DPA/TA	UA	VI
2*	Mod. of D V C	Burdwan,Bankura,	DPA/TA	UA	VI
3	Extension of Bandhu	Purulia	DPA/TA	UA	VII
	& other 11 Nos.				
	scheme				
4	Special repairs to	Midnapore	DPA/TA	UA	VIII
	Midnapore Canal				
5	Special repair to	Birbhum	DPA/TA	UA	VIII
	Mayurakshi	Murshidabad			
6	Mod. of Kangsabati	Bankura	DPA/TA	UA	VIII

* Projects Assisted under AIBP

Annex – 5.3

Proposed State-wise Outlay in Flood Sector

Sl. No.	States/UTs	Outlay as demanded by States for XI Plan (2002-2007)		Outlay as proposed by SG for XI Plan (2002-2007)	
		(Rs.crore)	Area benefited (m.ha.)	(Rs.crore)	Area benefited (m.ha.)
(A)	**STATES**				
1	Andhra Pradesh	1059.77	0.519	700	0.343
2	Arunachal Pradesh	540	0.1	500	0.093
3	Assam	1186	0.01	600	0.005
4	Bihar	6044.3	0.88	3000	0.437
5	Chattisgarh	174.51	-	10	
6	Delhi (NCT)	-	NR	100	
7	Goa	-	-	40	
8	Gujarat	362	NR	300	
9	Haryana	630	NR	300	
10	Himachal Pradesh	262	0.007	200	0.005
11	Jammu & Kashmir	849.3	0.05	500	0.029
12	Jharkhand	111	NR	40	
13	Karnataka	60	-	60	
14	Kerala	149.87	-	150	
15	Madhya Pradesh	-	-	25	
16	Maharashtra	-	-	30	
17	Manipur	279.21	-	30	
18	Meghalaya	79.29	-	10	
19	Mizoram	45.64	-	5	
20	Nagaland	100	-	100	
21	Orissa	857.48	0.495	400	0.231
22	Punjab	430	-	430	
23	Rajasthan	38.77	NR	40	
24	Sikkim	197.48	-	20	
25	Tamil Nadu	1171	-	430	
26	Tripura	144.86	-	70	
27	Uttar Pradesh	1695	0.485	1200	0.343
28	Uttaranchal	25	0.011	25	0.011
29	West Bengal	927	0.902	700	0.681
(B)	**UNION TERRITORIES**				
1	Andaman & Nicobar	-	-	50	
2	Chandigarh	-	-	-	
3	Dadra & Nagar Haveli	-	-	-	
4	Daman & Diu	-	-	3	
5	Lakshadweep	-	-	50	
6	Pondicherry	-	-	70	
	TOTAL	**17419.48**	**3.459**	**10188**	2.178

CONTENTS

RURAL WATER SUPPLY AND SANITATION
ELEVENTH FIVE-YEAR PLAN
APPROACH PAPER

Rural Water Supply

Objectives

1. The objectives are to provide safe drinking water to all rural areas, in a sustainable and equitable manner. The outcomes of this objective would be better quality of life by improving the general health status, reducing drudgery of women and meeting the requirements of good governance. It would also facilitate realization of the Fundamental Right to life, of which clean water is a recognized component.

Goals for XI Plan

2. The following goals will be set for achieving the objective of providing safe and sustainable drinking water supply to all rural habitations:

- Cover all the 'not covered' and 'partially covered' habitations with sustainable and stipulated supply of drinking water in the first two years of the Plan.
- Habitations facing a severe water quality problem are fully covered with safe drinking water facilities on a sustainable basis.
- Cover newly emerged habitations and those which have slipped back to 'partially covered' or 'not covered' status due to a variety of reasons.
- Coverage of schools in rural areas with safe drinking water.
- Ensure social equity in distribution of assets for drinking water so that scheduled caste/scheduled tribe (SC/ST) population and other poor and weaker sections are covered fully.
- Tackling problems of seasonal shortage.

3. Further, the country is committed to attain the United Nations' Millennium Development Goals (MDGs) which stipulate, inter alia, halving, by 2015, the proportion of people without sustainable access to safe drinking water and basic sanitation.

Current Status of the Sector

4. The primary responsibility of providing drinking water facilities in the country rests with State Governments. The Union Government has been extending policy, technological and financial support through a Centrally Sponsored Scheme – the Accelerated Rural Water Supply Programme (ARWSP) – under which funds are provided to State Governments for implementing rural water supply schemes. With the 73rd and 74th amendments, drinking water and sanitation are included in the list of subjects to be devolved to Panchayats.

5. An investment of Rs. 62500 crores has been made in the plans since independence. The Plan-wise investments is at Annexure A. In the first four years of 10th Plan, 245821 habitations were covered. Coverage of habitations is a dynamic concept and there are reports of slippage of covered habitations to NC /PC category due to various reasons like:

- Source going dry or lowering of the ground water table
- Sources becoming quality affected
- Sources outliving their lives
- Systems working below rated capacity due to poor operation and maintenance
- Increase in population resulting in lower per capita availability
- Emergence of new habitations etc.
- Slippage also take place due to seasonal shortage of water. During 2005-06, drinking water had to be transported in Andhra Pradesh (1749 habitations), Haryana (175 habitations), Gujarat (869 habitations), Karnataka (528 habitations), Maharashtra (7353 habitations), Orissa (1357 habitations) and Rajasthan (9863 habitations). The figures for 2006-07 are Gujarat (345 habitations), Karnataka (188 habitations), Maharashtra (5178 habitations), Orissa (491 habitations) and Rajasthan (4510 habitations)

6. State-wise reason for slippages deduced from data entered so far by the States is given in Annexure B. The long-term solution lies with the sustainability of sources and systems. For sustainability of systems, the Department introduced reform principles through Sector Reform projects taken up on pilot basis in selected districts in 1999 and later extended to the entire country through Swajaldhara. Under reform principles, the Community is involved in all stages of planning and implementation and they have to bear 10% of the capital cost with full responsibility on operation and maintenance. For sustainability of sources, States can utilize 5% of ARWSP funds and the funding pattern for this is 75:25 between the Centre and State. A number of other schemes for water conservation are in operation in the Department of Land Resources, Ministry of Water Resources, Ministry of Agriculture, Planning Commission etc.

7. According to Census 1991, 55.54% of the population had access to an improved water source. The Census 2001 shows 86.77% of the rural population have access to safe drinking water. The Department's figures show that that in 2006, of the 14.23 lakh habitations, 13.80 lakh habitations (97%) have been provided with some drinking water source. Around 2.17 lakh habitations (14%) have water quality problems and do not have a safe source. Also, from the reported coverage, there are slippages in the prescribed supply level, reducing the per capita availability due to a variety of reasons.

8. The details of Habitation Survey 2003 are as follows:

Category	Total number of Habitations	Number of Habitations (As per ARWSP norms)
Fully Covered (FC)	916382	869997
Not Covered (NC)	270405	247943
Partially Covered (PC)	412646	389409
Total	**1599433**	**1507349**

Table 1: Results of Habitation Survey 2003

The state wise details are at Annexure C. It is relevant to mention here that these NC/PC habitations include 55,067 remaining uncovered habitations of CAP 1999; quality affected habitations, slipped back habitations and newly emerged habitations.

Infrastructure Created

9. As per available information, there are over 41.55 lakh hand pumps, around 15.77 lakh public standposts, around 1.60 lakh mini-piped water supply schemes and 45000 multi village schemes in the country under the Rural Water Supply Programme (Annexure D). Of these systems, 88.21% handpumps, 93.49% standposts, 91.95% mini schemes and 96.265 multi village schemes are reported functional by the States.

Achievements in X Plan

10. The achievements are:

- Priority given to cover the 'not covered' and 'partially covered' habitations with reference to CAP 1999.
- Coverage of habitations with water quality problems on a sustainable basis
- Coverage of slipped back habitations
- Coverage of SC/ST and marginal groups

11. In the first four years of 10^{th} Plan, 2,45,821 habitations were covered and these include uncovered habitations, slipped back habitations and water quality affected habitations. In 2006-07, it is proposed to cover the uncovered 1120 NC habitations, 17000 PC habitations, 40000 slipped back habitations and 15000 quality-affected habitations. It is also proposed to sanction projects for covering 27000 quality-affected habitations.

Constraints during X Plan

12. The major problems encountered by the States in coverage of 'uncovered' habitations are (i) Population lives in scattered habitations on isolated hilly terrain; (ii) the cost of water supply system network for the same is very high due to inaccessibility of habitations; (iii) multi stage pumping; (iv) depleting surface streams; (v) lack of ground and surface sources availability near the habitations; (vi) difficulty in procurement and transportation of materials; (vii) long gestation period; (viii) poor recharge of ground water due to hard rock in many places; (ix) deterioration of water quality.

New Initiatives in X Plan

Sector Reforms and Swajaldhara

13. Based on the experience gained, the Sector Reform Programme was expanded as the Swajaldhara Programme, under which the participation of the community in planning, implementation, operation and maintenance is a major factor. The projects also include taking up water conservation and recharge measures for source strengthening for drinking water. To enhance the sense of ownership and promote community participation, the scheme has an element of cost sharing by the community. Presently, 10% of the capital cost is contributed by the community and 90% funds are provided by the Government of India. The major constraints faced during implementation of Swajaldhara are:

- Line department officials slow to adopt reforms
- Panchayats lack finances and skills to take up the responsibility immediately.

Water Quality

14. For tackling water quality, a policy change has been introduced in February 2006. 20% of ARWSP funds will be retained at the Centre to provide focused funding to the quality affected States. This ceiling could be exceeded in exceptional cases for providing focused funding to tackle severe contaminations of water. The funding pattern remains as 75:25 between Centre and State.

15. T**he National Rural Drinking Water Quality Monitoring and Surveillance Programme** (NRDWQM&SP) has been started in February 2006, which envisages institutionalization of community participation for monitoring and surveillance of drinking water sources at the grass root level by GPs/VWSCs by user friendly field test kits for both bacteriological and chemical contaminants followed by checking of the positively tested samples at the District and State level laboratories was launched in February 2006. The budgetary requirement for the remaining 10th FYP was worked out as Rs.269.88 crores. The programme emphasizes awareness generation about water quality and its importance in relation to health. IEC, HRD and Monitoring and Surveillance activities, which include strengthening of laboratories also in terms of manpower and equipment, are major components of the programme. Implementation manual and guidelines have been circulated to all the States/UT's. State/district level, block level and Panchayat level training modules were also circulated to all States/UT's.

16. In order to provide technical consultancy for this programme the National Institute of Communicable Diseases (NICD), New Delhi has been identified as the National Referral Institute. The entire programme of water quality 'assurance' will be monitored by Department of Drinking Water Supply. To this effect, the Management Information System (MIS) will be provided by DDWS.

Bharat Nirman

17. Drinking Water Supply is one of the six components of Bharat Nirman which has been conceived as a plan to be implemented in four years, from 2005-06 to 2008-09 for building rural infrastructure. The objective of the said component is "Every habitation to have a safe source of drinking water: **55067 uncovered habitations to be covered by 2009.** In addition, **all habitations which have slipped back from full coverage to partial coverage due to failure of source and habitations which have water quality problems to be addressed**."

18. Major Concerns

- 3052 NC and 38894 PC (Total 41946) uncovered habitations of CAP 1999 located in remote / difficult areas.
- High number of slipped back habitations due to a number of factors
  - sources going dry or lowering of the ground water table.
  - sources becoming quality affected.
  - systems outliving their lives.
  - systems working below rated capacity due to poor operation and maintenance.
  - increase in population resulting into lower per capita availability.

- emergence of new habitations.

- Acute seasonal shortages
- 2.17 lakh habitations with water quality problems (Annexure E). The major contaminants are arsenic, fluoride, brackishness, nitrate and iron.
- Bacteriological contamination
- Over exploitation of ground water. Approximately 85% of rural drinking water depends on ground water. This over exploitation also aggravates water quality problems.
    - Survey of Central Ground Water Board shows that
        - Total of 7910 hydro-geological blocks
        - 671 blocks over exploited (more than 100% of replenishable potential)
        - 424 blocks identified as dark (extraction 85% - 100% to total replenishable potential)
- Poor community involvement in planning, operation, maintenance; overall lack of ownership of assets by the users.
- High O&M costs leading to closure of water supply schemes due to inability to meet the costs of operation. It is estimated that the funds available presently do not cover even 20% of the requirement (approximately Rs. 6570 crores annually against availability of Rs. 600 crores per annum). The Government departments not in a position to maintain and monitor assets.
- 35% treatment plants not working due to poor O&M
- Disposal of sludge in treatment technology a problem
- Lack of community awareness for domestic treatment
- Preference of States for coverage of quality affected habitations through alternate sources, which increases costs
- Predominantly engineering solutions and apathy to low cost options and disuse of traditional systems.
- Pollution of water sources due to pesticides, sewage, effluent discharge, etc.
- Inadequate capacities of PRIs to take up the responsibility of rural drinking water
- Lack of willingness for devolution of financial and technical resources by State departments.
- Weak monitoring and surveillance mechanisms.
- Political systems / institutions hesitant to levy user charges and to obtain community contribution for capital costs.

Recommendations of State Ministers in-Charge of rural drinking water

19. In the conference of State Ministers in charge of Rural Drinking Water Supply and Sanitation held on 31st January – 1st February 2006, Hon'ble Prime Minister in his address has drawn attention to five aspects that must be addressed on a priority basis. The five points are:

- We must eliminate the backlog and provide safe water to all remaining habitations which are either uncovered or have slipped back from full coverage.

- We must address problems of water quality.
- We should entrust the responsibility of water supply management to local institutions and build their capacity in the management of water supply.
- We must improve comprehensive management of water supply by strengthening the management of our environment.
- We must mobilize communities to spread awareness of the linkage between good health and safe water supply.

20. At this conference, 3 Working Groups were constituted to go into modalities of the schemes to be implemented in the XI Plan (Recommendations at Annexure F).

Monitorable targets proposed for XI Plan

21. The targets to be monitored in the XI Plan are:

- Completion of 3052 NC and 38894 PC uncovered habitations (Total 41946 habitations) in the first two years of the Plan.
- Tackling of water quality problems in 60,000 habitations affected by arsenic, salinity, fluoride and nitrate by 2009.
- Coverage of 2.52 lakh slipped back and newly emerged habitations by 2009.
- Coverage of left over schools with adequate drinking water facilities.
- Provision of roof top rain water harvesting structures in 50,000 schools which already have toilet facilities.
- Source protection by recharge etc. of 10% of the drinking water sources every year for the next five years with funds available under 'Sustainability' head of ARWSP and integrating with programmes of other Departments.
- Coverage of habitations as per relaxed norms in the last three years of the Plan.
- Continuation of survey for detection of chemical contamination and provision of safe source in such quality affected habitations
- Coverage of uncovered SC habitations in 71406 villages which have SC population of 40% or above and uncovered ST habitations in 116850 villages which have ST population of 40% or above.

Strategy

22. The following strategy will be adopted to attain the objectives set in the drinking water component of Bharat Nirman:

- Providing regional schemes from alternative sources by extending new pipelines;
- Supplementing with new schemes for habitations served by outlived schemes;
- Rejuvenation of outlived schemes which are functioning below their rated capacity;
- Reviving traditional sources; Providing rainwater-harvesting structures;
- Adoption of technology and propmotion of R&D;
- Integrated approach by combining in-situ treatment with alternate safe sources, recharging and roof-top rainwater harvesting;

Policy & Implementation measures for XI Plan

23. State driven Public Health Engineering Departments are not in a position to ensure O&M and sustainability of drinking water supply systems and merely transferring these assets to PRIs has no meaning without creating an agency to support them. There is a need for an institutional structure which is responsible to the District PRI. Therefore, the District Water and Sanitation Mission (DWSM) should be converted in an agency for implementation and maintenance of water supply and sanitation facilities. The PHED staff should be a part of this agency and should be headed by an officer of the Superintending Engineer level. This agency will work under the control of the Zila Parishad or under the District Collector where the PRI does not exist. There should be a presence of this agency at the Sub-Divisional and Block level. The cost involved in the creation of the agency will be minimal by amalgamating the PHED staff into this agency. At the Gram Panchayat level, an O&M fund should be created and the GP empowered to levy user charges, hire pump operators, mistries, etc. The VWSC should be a standing committee of the GP. There should be a Junior Engineer for 3-4 GPs for providing technical assistance.

24. For the active involvement of communities in implementation of schemes and O&M of systems and for coordination with other Departments for water conservation, demand management etc, and for taking a holistic approach on the issue of sustainability, the establishment of the district agency and strengthening of the GP is suggested. The control of the State will be mainly for technical guidance and for funding.

25. It is suggested that in the Eleventh Five Year Plan there should be only one scheme of ARWSP in which there would be an element of token community contribution and involvement of user groups/ Panchayats in the selection and implementation of the schemes and for subsequent O&M. The present Swajaldhara programme with the pattern of Centre-State funding ratio of 90:10 may be discontinued and funds given only for completion of ongoing projects. ARWSP funding of Centre-State share ratio of 50:50 would need to continue in order to ensure that States give priority to the supply of safe drinking water and more funds flow to this sector. For creating a sense of ownership and for obtaining their commitment to taking on the responsibility of O&M of the schemes on completion it is essential for the community to be involved right from the planning stage. The State Government should have the responsibility of formulating the policy for community/ Gram Panchayat involvement and quantum of community contribution and there could be reduced level of community contribution in case of SC/ ST habitations/ villages and villages/ habitations located in difficult or hilly terrain, or in desert areas or in drought or flood prone areas etc. In exceptional cases of hardship the State Government, in consultation with the Government of India, could exempt communities of identified areas from making a contribution.

26. The community should be given the choice to make their contribution in the form of cash, kind, labour, land etc. It would be the responsibility of the Village Water and Sanitation Committee (VWSC)/ Gram Panchayat to make the community contribution towards capital cost.

27. However, the major source of funding for rural water supply schemes has to be the State and Central Governments and therefore adequate Plan provision has to be provided. Funds would also need to be provided for involving the community in water quality testing and for strengthening laboratories.

28. The States would also be required to provide matching share, as well as adequate funds for O&M and augmentation cost. It is proposed to have an O&M fund at the VWSC level, to which both the Center and State would contribute 10% of the capital cost each. The VWSC/

PRIs could be empowered to levy user charges. The village O&M Fund could be used for O&M of distribution network and such single-village schemes as the States consider feasible to transfer to the Gram Panchayats. The present criteria for allocation under ARWSP (Normal), the funds of which are mainly used for coverage is based on the following weightage principle:

Parameter	Weightage
Rural population	40%
Area under DDP/DPAP/HADP	35%
No. of NC/PC habitations	15%
Water quality status	10%

Table 2: Present weightage criteria for allocation of ARWSP funds

29. The above weightage principle needs to be revised on account of following reasons:

- Since there is separate funding for quality, the quality parameter under ARWSP (Normal) has got no sanctity.
- As States/UTs with more NC/PC habitations tend to get more funds, there is dis-incentive for the States to have less NC/PC. Further on account of this parameter, there could be a tendency for the States to show more NC/PC. Our experience shows that though habitations have been covered as per ARWSP norms, States are showing these habitations as NC/PC on various pleas, eg. these are not covered with piped water supply; covered through a private source, etc.
- There should be some incentive to States for promoting larger involvement of PRIs.

30. The entire allocation criteria were discussed in State Minister's Conference held on 31st January-1st February 2006. There was consensus that allocation criteria need revision. The Department intends to take up the matter in this regard and the likely proposed weightage principle would be on the following parameters:

- Weightage for rural population;
- Weightage for area under DDP, DPAP and HADP;
- Weightage for transfer of rural water supply schemes to VWSC under Panchayats;
- Reduced weightage NC/PC habitations
- Weightage as incentive for coverage

31. Scientific planning by increasing use of the hydro-geomorphological maps prepared from satellite imageries, for planning and locating drinking water sources based on felt needs of the community. Promoting the use of surface sources (including ponds) for conjunctive use of water to tackle quality problems.

32. Convergence of programmes like NREGA, Hariyali, State Schemes, for augmentation of water table and its recharge by adopting a holistic approach.

33. Sustainability of sources to be ensured by judicious use of ground and surface sources for tackling drinking water problems, specific interventions for recharging and strengthening of sources along with promotion of rain water harvesting, revival of traditional practices. Also, enactment of regulatory measures to ensure appropriate ground water use.

34. The components of Natural Calamity and DDP under ARWSP would continue in the XI Plan with the same funding pattern.

35. Bacteriological contamination is more dynamic and hazardous when compared to chemical contamination. About 1000 deaths every day is being projected by diarrheal diseases. This can be combated by proper sanitation and imparting hygiene education. National Rural Drinking Water Quality Monitoring and Surveillance Programme has been designed to address this problem at the GP level who are being empowered to test bacteriological quality. The programme also requires co-ordination with Health authorities and field workers. This programme will be continued in the XI Plan. As chemical contamination of fluoride leading to fluorosis among human beings is a major problem in a number of States, it is proposed to tackle this problem with a multi-disciplinary approach by setting up Regional Fluoride Mitigation Centres at Hyderabad/Gandhinagar by way of upgradation of existing institutions.

36. The centres would not only undertake a multi-pronged mitigation strategy comprising preventive, curative, control and remediation and health promotion measures by providing necessary technical, human resources development and other support to the states, local governments and grass-root level organizations, but there would also coordinate the activities of various sectors working for this cause. In tune with this concept, the center should have multidisciplinary infrastructure for purposes of timely initiatives, guidance and world class services to all sector partners involved, in the planning and mitigation activities of fluorosis problem in the country so as to eventually bridge the gap between risk assessment and risk management.

37. Sustainability measures like Water conservation and rainwater harvesting leads to in-situ remediation of water quality and as such will have to be a priority in water supply sector. A quantum of ARWSP funds would be allocated for sustainability of drinking water sources that would be prioritized in over-exploited and dark blocks identified by CGWB, Ministry of Water Resources.

38. Develop a proper IEC strategy & capacity development plan at the State, District, PRI, User levels.

Monitoring

39. This Department is striving to strengthen monitoring mechanism as indicated below:

- Periodic review meetings are conducted to review the physical and financial progress in implementation of schemes in all states.
- Field inspections are conducted by designated Area Officers from the Ministry to oversee the implementation of the drinking water and sanitation programmes.
- On-line data entry has been introduced and State officials responsible for online data entry have been imparted training to undertake this job. The list of habitations as per the cleansed data of the 2003 survey indicating status has been hosted and forms the base on which on-line data entry of coverage and reason for slippage etc. is to be done by States. Some States have already started online data entry. With the co-operation of the States it will be possible to further refine the system.
- System of monitoring of ARWSP through independent District level Monitors to be introduced from November 2006.

- There is also a system of National Level Monitors which enquires into specific allegations received regarding any rural development programme. In addition the Ministry of Rural Development has constituted District Vigilance Committees under the Chairmanship of the local M.P. which are required to review the performance of all programmes of the Ministry, including ARWSP.
- Action has been initiated to get drinking water supply in rural areas incorporated in SRS in collaboration with RGI office. This will help in obtaining independent feed back in selected areas on half yearly basis in future.
- Field inspections will be done in nearly 17,000 habitations on random basis to compare current water availability against the status reported in Survey 2003. This exercise by third party is expected to provide insights into per capita water availability, quality of service delivery and reasons for slippages.
- The feasibility of engaging an independent agency for ensuring timely completion, quality and cost control of water supply schemes, particularly of projects funded under the Sub-Mission water quality is under consideration.
- Evaluation of ARWSP is proposed to be conducted.

Management Information System (MIS)

40. Management Information System is extremely important for effective monitoring and implementation of various components of the Rural Water Supply Programme and Rural sanitation Programme and availability of data is necessary, not only to the Central and State Governments, people's representatives, but also to the users. It will be ensured that public has access to habitation-wise survey data through effective communication system. The objectives of computerization are to generate information relating to:

- Fast and reliable communication system
- Office automation and effective utilization of software tools for enabling E-Governance to improve the general productivity
- Training for using the computers and software purchased and application software that are developed
- Habitation-wise status availability for water supply and details of water sources as well as progress of implementation of projects/ schemes
- Mechanism of handling micro level data obtained from related departments/ agencies
- Evaluating different design alternatives based on costing ,Preparation of detailed scheme/ project documents including drawings and easy mechanism of storage and retrieval of schematic details
- Sharing of information in respect of technological innovations and experience in the water supply and sanitation sector
- Decision support systems and Geographic Information systems can go a long way in improving decisions and effective planning

Financial requirement during 11th Plan

41. Rural drinking water is one of the components of Bharat Nirman, which has been conceived as a plan to build rural infrastructure in four years period 2005-2006 to 2008-2009. The last two years of Bharat Nirman coincide with the first two years of the 11th Plan. In view of the progress made so far and the unfinished tasks ahead, the roadmap for the future has been worked out in terms of physical coverage as well as financial costs involved in the form of following abstract: This takes in to account the financial projection made by the States.

Year			CAP 99	Slipped back	Quality affected	Total	O&M, Sustainability & Calamity	Grand Total
2006-07	Physical (Habitations)		*18120	75000	15000	108120		108120
	Financial (Rs in Crores)	Centre	1721.89	2118.75	1040.00	4880.60	850.00	5730.64
		State	1721.89	2118.75	346.67	4187.3	566.66	4753.97
		Total	3443.78	4237.50	1386.70	9068.00	1416.66	10484.61
2007-08	Physical (Habitations)		16886	90000	48613	155499		155499
	Financial (Rs in Crores)	Centre	1730.25	2542.50	3859.60	8132.40	1500.00	9632.36
		State	1730.25	2542.50	1286.50	5559.30	1000.00	6559.28
		Total	3460.50	5085.00	5146.10	13692.00	2500.00	16191.64
2008-09	Physical (Habitations)		6963	87060	59948	153971		153971
	Financial (Rs in Crores)	Centre	936.30	2459.45	4911.90	8307.70	1500.00	9807.65
		State	936.30	2459.45	1637.30	5033.10	1000.00	6033.05
		Total	1872.60	4918.90	6549.20	13341.00	2500.00	15840.70
Total for last three years of Bharat Nirman	Physical (Habitations)		*41969	252060	123561	417590		417590
	Financial (Rs in Crores)	Centre	4388.44	7120.70	9811.50	21321.00	3850.00	25170.65
		State	4388.44	7120.70	3270.50	14780.00	2566.66	17346.30
		Total	8776.88	14241.40	130820	36100.00	6416.66	42516.95

* Report of coverage of 23 habitations in 2005-06 was received after targets were fixed for 2006-07

Table 3:Action Plan for Bharat Nirman – Physical and Financial Abstract

42. It is expected that the States will cover uncovered habitations of CAP'99 as well as address majority of quality affected and slipped back habitations. Therefore, it is proposed that in the remaining years of XI Plan (2009-2012) focus will be to address remaining quality affected habitations as well as converge of habitations with less than 100 populations. There has been continuous demand from Sates like Himachal Pradesh, Rajasthan and Uttaranchal for relaxation of norms to extend coverage to smaller habitations with less than 100 populations. It is also proposed to improve service delivery by enhancing per capital water availability from 40 lpcd to 55 lpcd for 4,74,885 habitations within proposed outlay. However, the action plan for this period will have to be finalized only after reviewing the status and actual progress made during Bharat

Nirman period in due consultation with States with whom the primary responsibility of planning and implementation lies. The details are as:

Category of Habitations	2009-10	2010-11	2011-12	Total
Quality affected habitations	24015	24015	24015	**72045**
Coverage of habitations with less than 100 population	23722	12189	9788	**45699**
Enhanced water availability from 40 lpcd to 55 lpcd	102976	167847	204062	**474885**
Total	**150713**	**204051**	**237865**	**592629**

Table 4: Proposed coverage during 2009-2012

Category of Habitations	2009-10	2010-11	2011-12	Total
Quality affected habitations	4360.67	4360.67	4360.67	**24777.35**
Coverage of habitations with less than 100 population	4507.18	2315.91	1859.72	**8682.81**
Enhanced water availability from 40 lpcd to 55 lpcd	5818.14	9483.36	11529.50	**26831.00**
O&M, Sustainability and Natuaral Calamity	2750.00	3000.00	3250.00	**9000.00**
Total	**17435.99**	**19159.94**	**20999.89**	**69291.16**

Table 5: Financial requirement 2009-2012 (Rs. in crores)

Category of Habitations	2009-10	2010-11	2011-12	Total
Quality affected habitations	3270.50	3270.50	3270.50	**9811.51**
Coverage of habitations with less than 100 population	2612.01	1602.89	1472.31	**5687.21**
Enhanced water availability from 40 lpcd to 55 lpcd	3267.49	5186.61	6307.20	**14761.30**
O&M, Sustainability and Natuaral Calamity	1650.00	1800.00	1950.00	**5400.00**
Total	**10800.00**	**11860.00**	**13000.01**	**35660.02**

Table 6: Central Share 2009-2012 (Rs. in crores)

Category of Habitations	2009-10	2010-11	2011-12	Total
Quality affected habitations	1090.17	1090.17	1090.17	**3270.50**
Coverage of habitations with less than 100 population	1895.17	713.03	387.42	**2995.62**
Enhanced water availability from 40 lpcd to 55 lpcd	2550.65	4296.75	5222.31	**12069.71**
O&M, Sustainability and Natuaral Calamity	1100.00	1200.00	1300.00	**3600.00**
Total	**6635.99**	**7299.95**	**7999.90**	**21935.83**

Table 7: State Share 2009-2012 (Rs. in crores)

43. States may require additional focused funding with special problems, such as Rajasthan. Keeping in view the Bharat Nirman and other activities, the funds requirement for the entire Eleventh Plan period is as follows:

Year	Total	Centre	State
2007-08	16192	9632	6560
2008-09	15840	9807	6033
2009-10	17436	10800	6636
2010-11	19160	11860	7300
2011-12	21000	13000	8000
Total	**89628**	**55099**	**34529**

Table 8: Financial requirement for XI Plan as per existing funding pattern (Rs. In crores)

44. States clearly need to opt for low cost technologies to reduce costs. They may also opt for short term measures to meet the immediate requirements and take up long term measures in the future. Only a few States such as Gujarat take loan from financial institutions for taking up drinking water supply schemes. Maharashtra, Kerala and Karnataka have ongoing World Bank Projects and Punjab, Tamil Nadu, Andhra Pradesh, Uttaranchal and Rajasthan propose to tap external funding for which talks are on with the World Bank. These projects would be approximately worth USD 1 billion. States should be encouraged to obtain assistance from financial institutions and external agencies.

45. During 2005-06 and 2006-07, allocation provided to the Centre is Rs. 9260 crores (Rs. 4060 Crores for 2005-06 and Rs. 5200 Crores for 2006-07). It may be noted that in 2005-06 an additional Rs. 200 crores was recommended by the Planning Commission for tackling water quality problems, but this was not released. In 2006-07, Rs. 5550 crore allocation was asked for, however only Rs. 5200 crores was allocated for rural water supply. Keeping in mind the requirement of funds as projected by the States, the need for augmentation rejuvenation, O&M and also the proposed funding pattern for NE States, the financial requirement for the XI Plan is estimated to be around Rs. 55099 crores as per existing funding pattern and Rs 57854 crores in case funding pattern is revised to 75:25 in respect of NE states.

Component for SC/ST Sub-Plans

46. The State/UTs are required to earmark and utilize at least 25% of the ARWSP funds for drinking water supply to the SCs and another minimum 10% for the STs. Where the percentage of SC or ST population in a particular State is considerably high warranting earmarking/ utilization of more than stipulated provisions, additional funds can be utilized. As a measure of flexibility, States may utilize at least 35% of the ARWSP funds for the benefit of SCs /STs, particularly in those States where SC/ST coverage is less than the coverage of the general population. Under ARWSP, a habitations consisting of 100 person or 20 households, is considered to be a habitation for the purpose of coverage of habitation with drinking water facilities utilizing fund released under the programme. This criteria has been relaxed for SC/ST habitations, where those having less than 100 persons can also be covered under ARWSP. It is also proposed to give priority to 71406 villages with over 40% SC/ST population (as per Census 2001), for water and sanitation coverage. A communication to this effect has already been sent to the States.

47. The Department monitors the expenditure incurred for the benefit of SC/ST population and SC/ST population covered periodically, through Monthly Progress Reports (MPR) furnished by the State Governments and periodic review meeting /conferences. During 2005-06, out of 2.66 crore total population covered under ARWSP, the coverage for SC/ST is 27%.

North East States

49. As in the Tenth Plan, the priority for North-Eastern Region will continue to be given in the XI Plan. At the beginning of the X plan, the number of uncovered habitations with reference to Comprehensive Action Plan, 99(CAP, 99) in the North Eastern Region was 24997 (1668 NC and 23329 PC). During four years period of the Tenth Plan, 1467 NC and 17455 PC are reported to have been covered leaving a balance of 201 NC and 6075 PC. The State wise detail is as under:

State	**No. of Uncovered habitations of CAP, 99 as on 1.4.2006**		
	NC	**PC**	**Total**
Assam	144	4803	4947
Arunachal Pradesh	34	309	343
Manipur	0	0	0
Meghalaya	7	127	134
Mizoram	0	26	26
Nagaland	16	609	625
Tripura	0	0	0
Sikkim	0	0	0
Total	**201**	**5874**	**6075**

Table 9: Coverage Status in NE States

50. It is proposed to cover all the uncovered habitations of CAP, 1999 by 2008-09. With the targets of coverage of 159 NC and 2902 PC during 2006-07, 42 NC and 2972 PC are likely to spill over to the 11th Plan and these would be covered in the first two years of 11th Plan. Besides, the coverage of uncovered habitations of CAP, 1999, the other priority areas are to tackle the problem of Slippage and water quality problem. In order to tackle the quality problem, focused funding is now being provided for taking up water quality projects.

51. As per the instructions, 10% of the Annual allocation is set aside for releases to the North Eastern States and the unutilized amount is transferred to the Non-lapsable pool. In the first year of the Tenth Plan (2002-03), an amount of Rs. 5.98 crores remained unitized from the 10% quota of North East and this was transferred to Non-lapsable pool. In the subsequent years, the Department has taken full care to ensure full release from the 10% quota of North East.

52. Due to resource constraints, the North Eastern States find difficult to provide their matching share against the release of Central funds under ARWSP. They are insisting for changing the funding pattern to 90% Central and 10% State. The matter was taken up with Planning Commission to change the funding pattern from 50:50 to 75:25. Planning Commission advised that change in funding pattern for NE States may be decided in the 11th Plan. Accordingly, it is now proposed to change funding pattern for NE States in the ratio of 75:25

between Centre and State. Consequently instead of 10% of total allocation under ARWSP, 15% of total allocation would be earmarked for NE States during 11th Plan period. It has also been decided that in the Annual Plan, likely State-wise allocation will be indicated so that Planning Commission could provide sufficient funds for rural drinking water sector at the time of finalizing the State Plan. This would enable the North Eastern States to provide their matching share.

Year	Total	Centre	State
2007-08	1619	1011	608
2008-09	1584	1030	554
2009-10	1744	1134	610
2010-11	1916	1245	671
2011-12	2100	1365	735
Total	**8963**	**5785**	**3177**

Table 10: Financial requirement for XI Plan as per funding pattern of 75:25(Rs in crore)

Rural Sanitation - Total Sanitation Campaign

Objectives

53. The objective is to eliminate the practice of open defecation in rural areas and to ensure safe disposal of night soil, domestic liquid and solid waste. The expected outcomes would include improved health, decrease in incidence of water and sanitation related diseases and provide dignity and privacy to rural women and also improve attendance and enrolment of girls in schools. It would bring about an improvement in the general quality of life in rural areas.

Goals for XI Plan

54. The goals for XI Plan are:

- 100% sanitation coverage of individual households.
- Encourage cost effective and appropriate technology development and application.
- Generate demand through awareness and health education.
- 100% school sanitation coverage and promotion of hygiene education amongst students and teachers.
- Inclusion of solid and liquid waste management in villages.

55. Of the 13.82 crore rural households in India (Census 2001), 3.04 crore (22%) households had access to sanitation. Since then, 224.71 lakh toilets have been constructed under the TSC and the coverage at present is 38%. In 2006-07 it is proposed to construct another 120 lakh toilets. Thus about 729 lakh toilets have to be constructed in the XI Plan.

TSC Implementation Mechanism

56. The TSC is being implemented in 559 districts of the States/UTs with support from the GOI and the respective State/UT Governments. The States/UTs draw up a TSC Project for the select districts to claim GOI assistance. A TSC Project is expected to take about 3-5 years for implementation. At the district level, Zilla Panchayats implement the project. In case, Zilla Panchayat is not functional, District Water and Sanitation Mission (DWSM) can implement the TSC. Similarly, at the block and the Panchayat levels, Panchayat Samitis and respective Gram Panchayats are involved in implementation of the TSC.

Mid Term Evaluation of TSC

57. In order to assess the impact of TSC implementation in the country and whether the policies adopted in TSC were in order or not, M/s Agriculture Finance Corporation (AFC) was engaged in the year 2004 for conducting Mid Term Evaluation of TSC Programme. The study was conducted in 20 TSC districts of the country in the states of Andhra Pradesh, Bihar, West Bengal, Tamil Nadu, Maharashtra, Kerala, Uttar Pradesh, Madhya Pradesh, Rajasthan, Haryana, Tripura, Orissa, Assam and Jharkhand. The study concentrated on assessing the impact of the policy changes introduced in 1999 in the rural sanitation sector and mid course correction required. The main findings of the study are at Annexure G.

Coverage in the 9th & 10thPlan

58. Since TSC implementation began in year 1999-2002 for accelerating sanitation coverage in rural population, presently 559 sanitation projects in the country are under implementation with total outlay of Rs. **6240** crore. Central, State and beneficiary shares of the projects are Rs. **3675** crore, Rs. **1424** crore and Rs. **1140** crore respectively. The Government of India for implementation of these projects has already released Rs. **1399** crore (Till last financial year-March 2006).

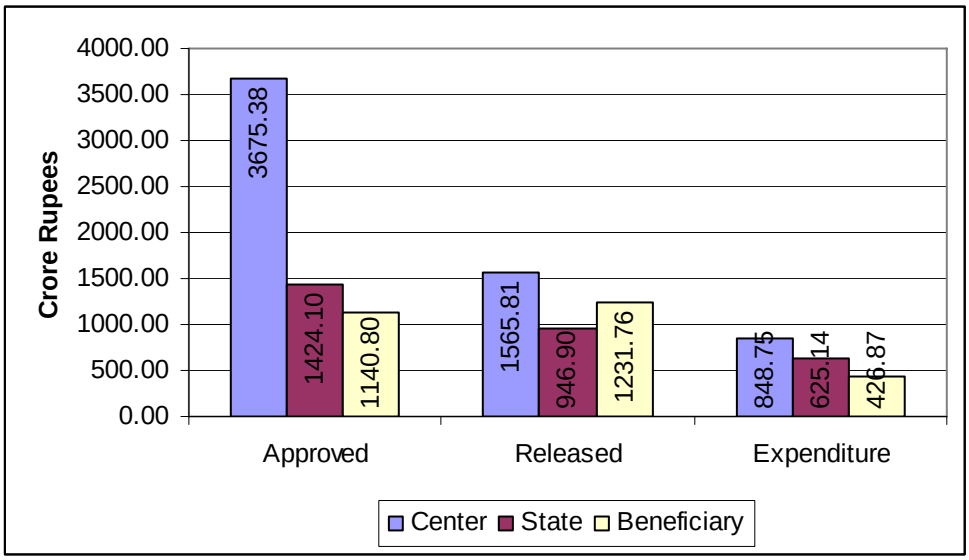

Figure 1: Funds approved and released under TSC

59. The main physical (sanitation) components sanctioned in the 559 projects (Districts) to be achieved over a period of 4-5 years are as follows:

- Construction of 499 lakh individual household latrines for BPL families
- Construction of 455 lakh individual household latrines for APL families
- 6.56 Lakh toilets for schools
- 1.99 lakh toilets for Balwadis /Anganwadis
- 36,098 community sanitary complexes
- 4,498 Rural Sanitary Marts / Production Centers
- Of the 138.2 million rural households in India (as per Census, 2001), so far nearly 22.5 lakh have constructed their own household toilets with support from the TSC. Besides, 2.07 lakh school toilets, 46,228 Anganwadi toilets, 6,466 community complexes, and 6,007 production centers/ rural sanitary marts (RSMs) have also been set up.

60. Components wise achievements against these are further shown as follows:

- Construction of 145.59 lakh against total of 499.28 lakh individual household latrines for BPL families i.e. 28.90%.
- Construction of 79.12 lakh units against total of 444.21 lakh individual household latrines for APL families i.e. 17.81 %.

- Therefore the total work combining APL & BPL families is showing only 23,60 % so far
- Construction of 61482 toilets for Balwadis/ Anganwadis. The achievement till date is 30.89%.
- Construction of 7152 for community Sanitary complexes. The achievement till date is 20.51%.
- Construction of 6885 for RSMs/ PCs.

Incentives and Awards - Nirmal Gram Puraskar

61. To add vigor to the TSC, in June 2003, GoI initiated an incentive scheme for fully sanitized and open defecation free Gram Panchayats, Blocks, and Districts called the 'Nirmal Gram Puraskar'. The incentive pattern is based on population criteria. The following can receive the Nirmal Gram Puraskar

a) **Gram Panchayats, Blocks and Districts**, which achieve 100% sanitation coverage in terms of
    - 100% sanitation coverage of individual house holds,
    - 100% school sanitation coverage
    - Free from open defecation and
    - Clean environment maintenance.
b) **Individuals and organizations**, which have been the driving force for effecting full sanitation coverage in the respective geographical area.

Targets for XI Plan

62. **Individual House Hold Latrines:** The total no. of 729 lakh IHHL units have to be constructed under rural sanitation programme for APL & BPL families by March 2012. The required growth rate per year to complete 100 % target by 2012 is 10.54 % as against the current growth rate of 2.95 % per year. For achieving extra 7.59 % along with the existing progress pattern the focus in the 11th Plan has to be more on IEC and HRD. Besides this target and achievement, the consideration on increased households (HH) over the years is also to be added. According to Census 2001 data now at the rate of 21% growth more households will also have to be covered which would require more funds in the remaining period. The growth rate is not uniform for all States and only some states are doing well (W. Bengal, Maharashtra, Tamil Nadu, Kerala, Gujarat & Tripura).

63. Total Sanitation Campaign (TSC) is the main vehicle for promoting rural sanitation in the country. TSC is at present sanctioned in 559 districts in the country. It is proposed to sanction TSC in all the rural districts (old 559+new 15 no.) of the country by the end of 2006-07. Each TSC project is to be implemented over a period of 4-5 years. So it is expected that all these projects will be completed by 2010. There will be a few slow moving districts, which may take one, or two years more, so by 2012 all projects are expected to be completed. Since the objective of each project is to ensure 100% coverage of households, schools, anganwadis etc, the same is expected to be achieved by 2012. It is expected that household coverage acceleration and year wise achievement be proposed as per table:

Year	Projected achievement (million households)
2005-06	9
2006-07	12
2007-08	14
2008-09	18
2009-10	18
2010-11	12
2011-12	7

Table 11: Projected achievement of Household coverage

64. **Coverage of Rural Schools:** As part of the TSC implementation, greater thrust has been given to ensure 100 percent coverage of rural schools with toilet facilities by the end of 2006-07. The coverage will target all government schools in the rural areas with the funds available under the TSC and the private schools by their own resources. Special provisions will be made for girl students in all the schools. In all the co-educational schools, separate toilet blocks for girls will be constructed. This programme is tied up with Sarva Shikhsa Abhiyan (SSA) of the Dept. of Education, MoHRD, GoI. In XI Five Year Plan the remaining schools will be covered. Districts have been directed to give the correct figures after taking into account schools covered with SSA funds. The achievement till date is 36.14%.

65. **Construction Of Toilets For Balwadis/ Anganwadis:** Coverage of all the remaining 133, 114 Anganwadis will be the target for the 11th Five Year Plan.

66. **Community Sanitary Complexes:** Coverage of the all the remaining **25, 769** units Sanitary Complexes will be the target for the 11th Five Year Plan.

67. **RSM/PCs:** More RSMs/ PCs will be required in remaining States/ Districts/ Blocks/ Villages. These figures and setting up of Targets will be finalized after the receipt of revised proposal from the districts.

Monitoring of the programme.

District level monitoring (DLM)

68. For Successful implementation of any programme, robust monitoring system is required. For TSC following monitoring arrangement has been made:

- All project districts through an on line monitoring system, which is accessible through Internet, are submitting the physical and financial progress reports.
- To monitor the quality of implementation, process parameters, use and maintenance of toilets, 49 no. of District level monitoring (DLM) agencies have been appointed for covering each TSC district. The agencies monitor the implementation every quarter in 20 Gram Panchayats in each district and submit the data panchayat wise through an on line monitoring system. The data collected by DLMs is for minimum 25 households in each panchayat. 8 panchayats are taken as control GPs where monitoring is done every quarter to assess the improvement in the quality of implementation over a period of time and 12 new GPs are

taken up every quarter. The data is collected on the quality of construction, use and maintenance of facilities, hygiene behavior issues i.e. washing of hand before eating and after defecation, proper storage of drinking water in the household etc. This ensures that proper feed back on the quality of implementation is received timely. Presently District level Monitoring is done in total 398 Districts out of 559 Districts.

National level Monitoring

69. In addition, a panel of National Monitors has also been made which includes experts working in the water & Sanitation sector in Govt. of India, State Governments, External Support Agencies, Non Governmental Organizations, and Training Institutions etc. They go to the states to review the quality of Implementation as part of Review Mission constituted by Govt. of India. There are total 297 no. of National level monitors undertaking monitoring work in these TSC Districts.

Report Card

70. A system of report card for each state has been developed to assess the performance of TSC implementation in various districts of the state on a number of parameters. The report cards are made twice a year and also shared with the State Governments with suggestions to improvement the implementation in the relevant areas.

Major Constraints

71. The major constraints faced by TSC are:

- Lack of priority for sanitation by many States
- Non-release of State share by some States
- Lack of emphasis on inter-personal communication at village level
- Inadequate capacity building at grass root level
- Only 80% of the toilets constructed are being used

Areas of focus in the XI Plan

72. **Solid Waste Management:** Till now Solid/ Liquid Waste Management was not a part of TSC programme. The Mid Term Evaluation Study of TSC by AFCL had strongly recommended the inclusion of solid waste management as a component of TSC. Accordingly, it has been felt necessary to incorporate Solid/Liquid Waste disposal in villages as a component of Total Sanitation Campaign (TSC). Upto 10% of the TSC project outlay may be earmarked for taking up various activities related to solid and liquid waste management. The fund sharing pattern between the Centre, State and Panchayat / Community would be in the ratio of 60:20:20. Under this component activities like common compost pits, low cost drainage, soakage channels/ pits, reuse of waste water, system for collection, segregation and disposal of household garbage etc may be taken up. Successful models may be further replicated dovetailing funds from other Rural Development programmes. Adding these activities in TSC with 10% cost to come from 12th Finance Commission grants.

73. **Provision of revolving fund for Self Help Groups & Cooperative Societies:** Based on the successful initiative taken by Self Help Groups, Dairy cooperative societies in arranging cheap finance to their members for toilet construction in many parts of the country, a sum of upto Rs 50 Lakhs subject to the restriction of 5% earmarked for alternate delivery mechanism (which includes the cost for setting up RSMs and PCs) may be given to each TSC project as revolving fund. This revolving fund may be further given to Dairy cooperative societies or Self Help Groups whose creditworthiness is beyond any doubt as revolving fund to provide cheap finance to their members. Not more than Rs 2000 per household can be given as loan from this fund, which needs to be recovered in not more than 12 installments. District TSC projects will have the flexibility to decide the other terms and conditions for sanction of the revolving fund. APL households can access this revolving fund also.

74. Larger focus on **School Sanitation** with increased coverage / increase in no. of toilet construction & their proper use, ensuring water availability at site, creation of school sanitation fund (SSF) by participatory method and partial support from District Education dept., planned discussion for gearing up school sanitation coverage at dist./ state sanitation mission (DWSM/ SWSM), encouraging new technologies like child friendly toilets, regulation of water usage (techniques), and making school environment plan & its implementation.

75. **School Sanitation & Hygiene Education (SSHE):** The strategic focus of the project was to combine technology with human resource development and develop a sustainable approach that had children's participation at the core. Children are more receptive to new ideas and schools /Anganwadis are appropriate institutions for changing the behavior, mindset and habits of children from open defecation to the use of lavatory through motivation and education. The experience gained by children through use of toilets in school and sanitation education imparted by teachers would reach home and would also influence parents to adopt good sanitary habits. School Sanitation, therefore, forms an integral part of every TSC Project. Toilets in all types of Government Schools i.e. Primary, Upper Primary, Secondary and Higher Secondary and Anganwadis should be constructed. Emphasis should be given on toilets for Girls in Schools.

76. In addition to creation of hardware in the schools, it is essential that education is imparted to the children on all aspects of hygiene. For this purpose, at least one teacher in each school must be trained in hygiene education that in turn should train the children through interesting activities and community projects that emphasize hygiene behavior. The expenditure for this purpose can be met from the IEC fund earmarked for the project. Each project district must prepare a comprehensive action plan for school sanitation covering hardware and software activities.

77. **Anganwadi Toilets:** In order to change the behavior of the children from very early stage in life, it is essential that Anganwadis are used as a platform of behavior change of the children as well as the mothers attending the Anganwadis. For this purpose each anganwadi should be provided with a baby friendly toilet.

78. **Sectoral Linkages:** While implementing DDWS many diverse issues and involvement of other sectors like Health & family welfare, RES, DWCRA, ICDS, Education, Tribal/ Social Welfare will be effective at Center, State, District, Block & Village level. Therefore in next plan National level Coordination with dept. of Elementary Education & Literacy, Dept. of Health, MOH & FW, Women & Child dev. & Min. of Tribal affairs needs to be emphasized.

79. Effective steps have been taken for convergence with National Rural Health Mission (NRHM) for better health and sanitation facilities in the field. It has been decided to ensure

convergence in institutional structure at district and Village level by having common committees wherever possible. In addition, it has been decided to have common IEC for behavior change communication and to include ASHA as motivators for taking up inter personal communication and facilitator (one of the 5 members to form a team) for water quality surveillance programme at the grass root level.

80. **Emphasis on IEC:** 729 lakh IHHL units have to be constructed under TSC (rural sanitation programme) for all rural families by March 2012. The required growth rate per year to complete 100 % target by 2012 is 10.54 % as against the current growth rate of 2.95 % per year. For achieving extra 7.59 % along with the existing progress pattern the focus in the 11th Plan has to be more on IEC and HRD. For taking up effective IEC, a national communication strategy has been developed. Along with this, prototype of district communication strategy and communication tools has also been developed. The communication strategy focuses on mass media campaign on sanitation and hygiene issues at the national level and interpersonal communication at the grassroots level. IEC activities would also need to focus on maintenance in gram panchayats which have been declared to be "open defecation free".

81. **Capacity building:** Different stakeholders like PRIs, NGOs, School Teachers, Anganwadi workers, Masons, Health workers, Engineers, District & Block level programme managers need to be trained and oriented towards different aspects of sanitation promotion. In addition, lot of focus on information, education & communication (IEC) is required. This requires focused attention of the state governments and for this purpose, fresh guidelines have been developed to assist the states to set up Communication & Capacity Development Units (CCDUs) in each state which are funded 100% by Government of India. The primary responsibility of the CCDU is to plan and manage Communication & Capacity Development activities in the state.

82. **Construction of individual household latrines:** A duly completed household sanitary latrine shall comprise of a Basic Low Cost Unit with a super structure. All existing dry latrines in rural areas should be converted to pour flush latrines. The programme is aimed to cover all the rural families. Incentive as provided under the scheme may be extended to Below Poverty Line families. The financing pattern including the incentive for BPL household for construction of Individual house hold latrines is as follows:

Basic Low Cost Unit Cost (Rs.)	**Contribution**					
	GOI		**State**		**House hold**	
	BPL	**APL**	**BPL**	**APL**	**BPL**	**APL**
Model 1: Upto Rs. 1500 (including superstructure)	60%	Nil	20%	Nil	20%	100%
Model 2: Between Rs. 1500/- and Rs. 2000/-	30%	Nil	30%	Nil	40%	100%
Above Rs.2000/-	Nil	Nil	Nil	Nil	100%	100%

Table 12: NGP Cost Structure

83. The incentive given by the Central Government will continue to be admissible with reference to the cost of the basic low cost unit as given in the above Table but in no case will the overall quantum of Central incentive exceed the admissible amount. As per the above table the

maximum incentive per toilet given by central government will be Rs 900 in case of model 1 and Rs 600 in case of model 2.

84. It is assumed that APL families, through motivation, will take up construction of the household latrines on their own. The IEC activities, will, however, cover all the families in the district, without exceptions. APL families facing cash crunch may access the revolving fund as outlined in an earlier paragraph.

85. Construction of dry latrines is not permitted in the rural areas. The existing dry latrines, if any, should be converted to pour flush latrines and the unit cost and sharing pattern shall be identical to that of construction of individual household latrines.

86. **Community sanitary complex:** Community Sanitary Complex is an important component of the TSC. These Complexes can be set up in a place in the village acceptable to women/men/ landless families and accessible to them. The maintenance of such complexes is very essential for which Gram Panchayat should own the ultimate responsibility or make alternative arrangements at the village level. Maximum unit cost prescribed for a community complex is upto Rs 2 lakhs. However, the National Scheme Sanctioning Committee based on the detailed design and estimates will approve it. Sharing pattern amongst Central Government, State Government and the community is in the ratio of 60:20:20. The Panchayat, however, can make the community contribution. There will not be any upper ceiling for expenditure on this item. Ordinarily such complexes should be constructed only when there is lack of space in the village for construction of household toilets and the community owns up the responsibility of their operation and maintenance. The ultimate aim is to ensure construction of maximum IHHLs and construction of community complexes will be restricted to only when IHHLs cannot be constructed, for whatever reason, and also teach the community of "Hygiene practices". Such complexes can also be made at public places, markets, etc. where large-scale congregation of people takes place.

87. **Technology and Maintenance issues:** TSC encourages low cost technology depending upon local soil and climate conditions for construction of toilets. Different models have been developed by Fey Resource Centres and expert organizations working in this field for different regions of the country. For dry areas, models with little requirement of water have been developed and for flood plains and places with high water table, waterless models have been developed. The present does not specify any preferred technology but gives the district and state authorities autonomy of choice. It is proposed to promote realistic approach for designing the structures at various cost option for increasing the demand level. The following creation & maintaining issues for implementation are to be addressed:

- Various low cost and affordable technological information
- Hydro-geological information
- Local availability of construction Materials
- Design or model Cost
- Variations and steps in superstructure
- Materials procurements

88. **Phase II of TSC:** Construction of toilets is going on at a significant pace. As the number of toilets increases, TSC needs to focus on other aspects like use and maintenance, assessment of impact of these toilets in water quality of the area, solid and liquid waste management and other hygiene practices required for a healthy life. As states move towards high

coverage of IHHL form low coverage, these issues will gain prominence and have to be emphasized to ensure sustenance of sanitation. Impact evaluation is required to be conducted. These issues are proposed to be tackled in TSC Phase II, which is likely to come in operation in the middle of the XI Plan.

Budget Requirement for TSC

89. Considering the importance of rural sanitation promotion the fund allocation has been increased more than four fold in last two years. The allocations and utilization of funds for the first 4 years of the Xth Plan is as follows:

Year	Allocation (in crore)	Utilization (in crore)
2002-03	165	141
2003-04	165	205
2004-05	400	368
2005-06	700	660.71
2006-2007	800	

Table 13: Allocation and utilization of funds in the 10th plan

The budgetary requirement for the XI Plan is as:

Total outlay of 559 projects-	Rs. 10,337 crore
Central Share-	Rs. 6,412 crore
Funds available till the end of 10th Five year Plan-	Rs. 2,400 crore
Fund requirement for construction of toilets, IEC, etc	Rs. 4,300 crore
Fund for Solid & Liquid waste management	Rs. 500 crore
Fund required due to revision of cost in 2008-09	Rs. 900 crore
Funds for Nirmal Gram Puraskar	Rs. 6,000 crore
Requirement for the 11th Plan	Rs. 11,700 crore

Year	Normal Scheme	NGP	Total
2007-08	910	600	1510
2008-09	1000	1000	2000
2009-10	1500	1800	3300
2010-11	1300	1600	2900
2011-12	990	1000	1990
Total	**5700**	**6000**	**11700**

Table 14: Financial requirement for XI Plan (Rs. In crore)

Component for SC/ST Sub-Plans

90. Total Sanitation Campaign (TSC) aims to provide sanitary toilet facility to all households in rural area. The guideline provides for special emphasis on Scheduled Caste, Scheduled tribe and disadvantaged sections of the society. Out of total incentives earmarked for construction of

household latrines, a minimum of 25% is to be provided to the households from SC/ST. Recently, State governments have been requested to pay special attention to 71,406 villages where population of SC/ST is more than 40% as per Census 2001 . Under TSC, out of total coverage of 1.67 crore BPL families, 40.66 lakh (24%) families belong to SC category and same for ST families are 15.11 lakh (9%).

North East States

91. The following Status on Physical and Financial progress shows that out of 8 States only Tripura & Sikkim are showing good pace of work and remaining all 6 States are still in a very dismal position. Meghalaya & Mizoram require a very special intervention because they are yet to take off, besides there is poor performance in remaining 4 States. The two tables below show State wise physical and financial progress in all TSC components.

Sr	State	Project Objectives							Project Performance						
		IHHL BPL	IHHL APL	IHHL TOTAL	San. Comp	School Toilets	Toilets for Bal	RSM /PC	IHHL BPL	IHHL APL	IHHL TOTAL	San. Comp	School Toilets	Toilets for Bal	RSM /PC
1	ARUNACHAL PRADESH	144556	11453	156009	234	3461	1500	71	14938	1129	16067	0	1453	228	10
2	ASSAM	1153531	605402	1758933	10	11767	2482	90	63465	3081	66546	0	202	6	17
3	MANIPUR	63578	0	63578	56	606	0	13	672	0	672	9	72	0	6
4	MEGHALAYA	91087	12661	103748	200	2048	649	11	0	0	0	0	0	0	0
5	MIZORAM	59679	16852	76531	486	1753	812	20	0	0	0	0	0	0	0
6	NAGALAND	90153	10151	100304	1186	752	99	12	28401	0	28401	71	291	34	2
7	SIKKIM	51302	3197	54499	937	1604	340	12	23607	47750	71357	222	1495	171	0
8	TRIPURA	361409	107511	468920	528	3643	2950	31	362084	71507	433591	135	2453	3545	527
	GRAND TOTAL	2015295	767227	2782522	3637	25634	8832	260	493167	123467	616634	437	5966	3984	562

Table 15: Physical Progress Report As Per Information Received Upto 6-2006

(Rs. in Lakhs)

State	Total Project Outlay	Approved Share			Release of funds			Expenditure Reported			
		Centre	State	Benef	Central	State	Benef	Centre	State	Benef	Total
1 ARUNACHAL PRADESH	3151.59	2115.64	680.92	355.03	634.68	66.79	19.31	289.22	20.04	86.55	395.81
2 ASSAM	12118.4	7774.95	2614.82	1728.6	2353.51	319.85	149.25	383.32	84.43	67.55	535.3
3 MANIPUR	1039.55	505.48	270.46	263.61	151.64	0	0	5	0	0	5
4 MEGHALAYA	1960.26	982.59	520.23	457.44	294.77	0	0	0	0	0	0
5 MIZORAM	1576.99	1012.86	352.11	212.02	280.84	7.5	0	5.12	0	0	5.12
6 NAGALAND	1082.31	736.88	212	133.43	274.18	52.36	85.19	238.19	50.67	59.67	348.53
7 SIKKIM	1936.88	1268.86	408.41	259.61	617.71	1010.82	403.88	427.63	384.47	398.14	1210.24
8 TRIPURA	4628.3	2685.54	1079.93	862.83	2417.51	959.96	1252.34	1942.34	907.62	815.88	3665.84
GRAND TOTAL	27494	17083	6138.9	4272.6	7024.8	2417.3	1910	3290.8	1447	1427.8	6165.8

Table 16: Financial Progress Report As Per Information Received Upto 6-2006

92. TSC Projects have been sanctioned in 62 Districts of the 8 States at a total cost of Rs. 274.94 crores, with GoI's share of Rs. 170.83 crores, State share of Rs. 61.39 crores and Beneficiary contribution of Rs. 42.73 crores. The funds released against sanctioned amount in

these 8 States are Rs. 70.25 crore by GoI, Rs. 24.87 crores by State Govt., with the beneficiaries contributing Rs. 19.23 crores till now. Possible Approach for Improvement

- Internal Performance appraisal among all 8 states
- Utilizing new Guidelines as incentive for gear up in remaining time frame (IEC)
- Immediate opening and functioning of CCDUs with proper skill enhancement and capacity building of stake holders
- Intersectoral coordination among all allied agencies in rural development sector and setting up issue based strategy with NEDC (North East Development Council).

ANNEXURES

Annexure A

Plan-wise Investment in Rural Water Supply Sector

(Rs. in crores)

Plan Period	**Rural Water Supply**		
	Center	**State**	**Total**
I Plan 1951-56	0.00	3.00	3.00
II Plan 1956-61	0.00	30.00	30.00
III Plan 1961-66	0.00	48.00	48.00
IV Plan 1969-74	34.10	208.00	242.10
V Plan 1974-79	157.17	248.00	505.17
VI Plan 1980-85	895.38	1530.17	2425.55
VII Plan 1985-90	1905.64	2471.53	4377.17
Annual Plan 1990-91	410.54	595.85	1006.39
Annual Plan 1991-92	644.49	692.54	1337.03
VIII Plan 1992-97	4139.74	5084.44	9224.18
IX Plan 1997-02	8454.57	10773.11	19227.68
X Plan 2002-03	2100.70	2395.65	4496.35
2003-04	2564.90	2488.06	5052.96
2004-05	2930.79	2971.52	5902.31
2005-06	4098.03	2975.36	7073.39
2006-07 (As on 07.07.2006)	1543.88	35.27	1579.15
Total	**29879.93**	**32650.50**	**62530.43**

Annexure B

Reasons for Slippages from FC To PC/NC

S. No.	State	Total entry done for habitations	Slipped Back Habitations	Drying up of Sources	Quality	Quantity	Population Increase	O&M	Life of Source outlived	Multiple Reasons
1	ARUNACHAL PRADESH	100%	62.80%	2.71%	7.28%	15.17%	6.03%	0.37%	0.00%	68.44%
2	ASSAM	99.81%	28.62%	0.54%	5.47%	0.83%	5.10%	5.04%	45.47%	83.02%
3	BIHAR	9.14%	61.91%	0.28%	0.66%	0.00%	1.02%	0.07%	1.02%	52.51%
4	CHATTISGARH	98.86%	45.47%	30.22%	8.90%	12.98%	23.58%	1.25%	0.00%	22.05%
5	GOA	6.9%	4.17%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	GUJARAT	99.83%	24.75%	1.68%	22.27%	75.64%	0.39%	0.01%	0.78%	0.01%
7	HARYANA	96.31%	38.11%	9.82%	13.11%	34.51%	3.74%	0.21%	0.00%	37.84%
8	HIMACHAL PRADESH	100%	21.82%	14.82%	1.03%	45.04%	13.05%	0.56%	0.00%	25.51%
9	JHARKHAND	26.3%	13.40%	18.79%	4.33%	8.55%	31.70%	0.31%	11.20%	36.32%
10	KARNATAKA	100%	0.95%	19.96%	10.39%	9.37%	3.67%	0.20%	0.00%	45.21%
11	KERALA	100%	40.56%	0.24%	5.11%	7.68%	48.30%	0.24%	0.00%	38.43%
12	MADHYA PRADESH	94.79%	30.33%	49.41%	4.02%	13.65%	17.97%	0.82%	0.00%	14.14%
13	MAHARASHTRA	64.77%	31.03%	12.80%	2.31%	38.65%	24.19%	1.86%	0.00%	20.19%
14	MEGHALAYA	100%	39.16%	0.05%	1.29%	0.03%	0.00%	0.00%	0.00%	98.63%
15	MIZORAM	100%	64.58%	0.00%	0.00%	0.00%	0.60%	0.00%	0.00%	99.40%
16	ORISSA	100%	21.73%	13.35%	9.51%	26.20%	25.54%	0.66%	0.00%	24.73%
17	PONDICHERRY	100%	24.19%	0.00%	65.00%	0.00%	35.00%	0.00%	0.00%	0.00%
18	PUNJAB	3.68%	49.70%	0.00%	66.93%	31.47%	0.40%	0.80%	0.00%	0.40%
19	RAJASTHAN	95.91%	41.46%	13.89%	35.77%	26.29%	1.39%	0.18%	0.00%	22.47%
20	SIKKIM	100%	39.19%	12.87%	0.00%	0.00%	87.03%	0.10%	0.00%	0.00%
21	TAMIL NADU	100%	34.46%	94.95%	5.05%	0.00	0.00%	0.00%	0.00%	0.00%
22	TRIPURA	0.15%	50.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%
23	UTTAR PRADESH	10.32%	9.15%	0.04%	3.38%	91.17%	0.69%	0.00%	0.00%	4.72%
24	UTTRANCHAL	1.18%	17.35%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%
25	WEST BENGAL	25.47%	49.40%	0.39%	0.61%	0.50%	83.39%	11.53%	0.00%	3.58%

* Analysis based on data entry done by States upto 20th October 2006.

Annexure C

Results of Habitations Survey 2003 received from State/UT Government

S No.	State	Total habitations reported by states				Habitations as per ARWSP Norms			
		TOTAL	NC	PC	FC	TOTAL	NC	PC	FC
1	ANDHRA PRADESH	64547	3579	34229	26739	61496	3402	33550	24544
2	ARUNACHAL PRADESH	5228	2067	2183	978	5215	2062	2178	975
3	ASSAM	80468	29355	23813	27300	75734	26981	23766	24987
4	BIHAR	107642	28712	45242	33688	105205	27440	44892	32873
5	CHANDIGARH	18	0	0	18	18	0	0	18
6	CHATTISGARH	72724	15398	13300	44026	70820	14599	13237	42984
7	DADRA & NAGAR HAVELI	70	0	19	51	70	0	19	51
8	DAMAN & DIU	21	0	0	21	21	0	0	21
9	GOA	348	0	6	342	331	0	5	326
10	GUJARAT	34642	1401	9306	23935	34584	1396	9302	23886
11	HARYANA	6605	53	3357	3195	6528	50	3315	3163
12	HIMACHAL PRADESH	51848	9868	22797	19183	28215	4929	13040	10246
13	JAMMU AND KASHMIR	12394	2177	4627	5590	12393	2177	4626	5590
14	JHARKHAND	120473	15346	5555	99572	120010	15217	5555	99238
15	KARNATAKA	51543	80	24442	27021	42183	70	21073	21040
16	KERALA	12165	366	9457	2342	12165	366	9457	2342
17	LAKSHADWEEP	9	0	9	0	9	0	9	0
18	MADHYA PRADESH	127397	20176	31888	75333	127036	20091	31834	75111
19	MAHARASHTRA	77651	2505	40493	34653	77466	2498	40406	34562
20	MEGHALAYA	9326	2285	2849	4192	9326	2285	2849	4192
21	MIZORAM	775	187	430	158	766	179	430	157
22	NAGALAND	1377	72	1043	262	1377	72	1043	262
23	ORISSA	139338	35784	15177	88377	133697	33534	15166	84997
24	PONDICHERRY	248	0	107	141	248	0	107	141
25	PUNJAB	13724	4461	5450	3813	13703	4447	5443	3813
26	RAJASTHAN	121133	61995	18796	40342	107768	55934	17168	34666
27	SIKKIM	2498	0	1053	1445	2498	0	1053	1445
28	TAMIL NADU	81787	11799	40926	29062	81787	11799	40926	29062
29	TRIPURA	7940	1050	2779	4111	7940	1050	2779	4111
30	UTTAR PRADESH	260110	7993	18776	233341	260081	7992	18775	233314
31	UTTRANCHAL	39142	4784	14040	20318	18311	1311	6921	10079
32	WEST BENGAL	96242	8912	20497	66833	90348	8062	20485	61801
	Total	**1599433**	**270405**	**412646**	**916382**	**1507349**	**247943**	**389409**	**869997**

Annexure D

Status of Handpumps and Pipe Water Supply Schemes

(As per information received from States/UTs till 31-5-2006)

S.No.	State/UT	Handpumps			Pipe Water Supply Schemes									Other Sources		
					Village(Mini)			Multi-Village			Public Standposts					
		Installed	Working	%age working	Installed	Working	% working	Installed	working	% working	Installed	working	% working	Installed	working	% working
1	Andhra Pradesh	253290	253208	99.97	28251	28226	99.91	242	242	100.00						
2	Arunachal Pradesh	1930	1357	70.31				3913	3913	100.00	29523	29523	100.00			
3	Assam	198926	159141	80.00	0	0	0.00	3337	2718	81.45	66740	54360	81.45	26093	23958	91.82
4	Bihar	724276	574668	79.34	7	5	71.43	731	310	42.41	3584	1896	52.90			
5	Chhattisgarh	155115	152985	98.63	1323	1232	93.12				1335	1183	88.61			
6	Goa	648	648	100.00	0	0		295	295	100.00	11829	11776	99.55			
7	Gujarat	153282	147665	96.34	1055	1055	100.00	406	406	100.00	9342	8895	95.22	878	878	100.00
8	Haryana	15	15	100.00				3280	3251	99.12	275000	231500	84.18			
9	H.P.	7237	7103	98.15												
10	Jammu & Kashmir	1573	1237	78.64	1783	1370	76.84	529	428	80.91	164659	141574	85.98			
11	Jharkhand	266155	212855	79.97	260	161	61.92									
12	Karnataka	174033	134560	77.32	17888	16600	92.80	13440	13440	100.00	2700	2700	100.00			
13	Kerala				1365	1358	99.49	241	241	100.00	132415	130932	98.88			
14	Madhya Pradesh	341830	309679	90.59	3180	2760	86.79	4150	3723	89.71				3326	2626	78.95
15	Maharashtra	210000	190000	90.48	30439	27569	90.57	592	544	91.89						
16	Manipur	1770	1429	80.73	1415	1230	86.93	235	200	85.11	6848	6085	88.86			
17	Meghalaya	956	883	92.36	2982	2838	95.17							2756	2722	98.77
18	Mizoram	1817	1543	84.92	694	573	82.56	29	29	100.00	4454	4007	89.96	17816	13455	75.52
19	Nagaland	174	0	0.00	1342	1342	100.00									
20	Orissa	232192	222938	96.01	1029	1029	100.00	492	492	100.00	23447	23447	100.00	5644	5644	100.00
21	Punjab	1382	1359	98.34	964	964	100.00	2057	2057	100.00	64688	64688	100.00			
22	Rajasthan	21647	21647	100.00	1811	1811	100.00	9850	9850	100.00	2993	2993	100.00	1531	1531	0.00
23	Sikkim	0	0		3588	3178	88.57	57	55	96.49	43056	38136	88.57	0	0	0.00
24	Tamilnadu	157740	127482	80.82	57508	51003	88.69	440	440	100.00	615575	603264	98.00	56675	51721	91.26
25	Tripura	38798	32589	84.00							603	574	95.19			
26	Uttar Pradesh	802043	759816	94.74	2150	1918	89.21				36089	35139	97.37	1806	1378	76.30
27	Uttaranchal	4828	4182	86.62	720	634	88.06				3356	3010	89.69			
28	West Bengal	401088	343877	85.74	176	176	100.00	703	703	100.00	71736	71736	100.00	0	0	
29	A & N Islands	128	0	0.00	5	5	100.00				1219	1215	99.67			
30	D & N Haveli	1361	1310	96.25	149	149	100.00				2316	2279	98.40	232	225	96.98
31	Daman & Diu	643	643	100.00	22	22	100.00	0	0		635	635	100.00			
32	Delhi															
33	Lakshadweep	0	0								1408	1408	100.00			
34	Pondicherry	0	0		140	140	100.00	5	5	100.00	1667	1667	100.00			
35	Chandigarh	29	29	100.00							27					
	Total	4154906	3664848	88.21	160246	147348	91.95	45024	43342	96.26	1577244	1474622	93.49	116757	104138	89.19

Annexure E

Water Quality affected Habitations reported by States

(On the basis of survey ordered in March 2000 - as on 31-3-04)

S.No.	State / UT	Habitations Affected by					
		Fluoride	Salinity	Iron	Nitrate	Multiple	Total
Andhra Pradesh	3072	973	5	0	0	0	4050
Arunachal Pradesh	0	0	0	0	0	0	0
Assam	0	0	7585	0	0	534	8119
Bihar	43	0	629	45	50	9	776
Chattisgarh	17	61	4932	11	0	0	5021
Goa	0	0	0	0	0	0	0
Gujarat	4341	2575	0	0	1336	465	8717
Haryana	144	72	0	0	0	145	361
Himachal Pradesh	0	0	0	0	0	0	0
Jharkhaand	15	0	113	0	1	39	168
Jammu & Kashmir	0	0	49	0	0	0	49
Karnataka	5838	4460	6633	0	4077	0	21008
Kerala	34	86	564	0	78	105	867
Madhya Pradesh	3764	604	856	0	0	157	5381
Maharashtra	800	2077	196	0	296	418	3787
Manipur	0	0	37	0	0	0	37
Meghalaya	0	0	160	0	0	0	160
Mizoram	0	0	26	0	0	0	26
Nagaland	0	0	157	0	0	0	157
Orissa	504	771	30979	0	0	0	32254
Punjab	613	1291	189	0	0	0	2093
Rajasthan	8992	5428	131	0	7882	18639	41072
Sikkim	0	0	0	0	0	0	0
Tamilnadu	737	674	1058	0	237	2868	5574
Tripura	0	0	6850	0	0	181	7031
Uttaranchal	0	0	0	0	0	0	0
Uttar Pradesh	1046	295	2198	0	1	1522	5062
West Bengal	1346	4126	54711	4973	0	0	65156
A & N Islands	0	0	16	0	0	10	26
D & N Haveli	0	0	0	0	0	0	0
Daman & Diu	0	0	0	0	0	0	0
Delhi	0	0	0	0	0	0	0
Lakshadweep	0	0	0	0	0	0	0
Pondicherry	0	2	14	0	0	0	16
Chandigarh	0	0	0	0	0	0	0
Total	31306	23495	118088	5029	13958	25092	216968

Annexure F

Conference of State Minister of Rural Drinking Water Supply and Sanitation

Inaugural Session
Tuesday, the 31st January 2006
Chief Guest: Dr. Manmohan Singh, Hon'ble Prime Minister
In the Chair: Dr. Raghuvansh Prasad Singh, Hon'ble Minister for Rural Development

Summary Record of the Session

Welcoming the Hon'ble Prime Minister to the Conference, Minister of State in the Ministry of Rural Development, Shri A Narendra, MoS (RD-N) thanked him for gracing the occasion with his presence. He also welcomed Minister for Rural Development and all the invitees and delegates to the Conference. Shri Narendra stated that the Government is committed to provide potable drinking water and sanitation facilities to the rural population. Government of India is committed to accord top priority to covering the remaining NC and PC habitations as per the Comprehensive Action Plan, 1999 besides coverage of 'slipped back' as well as quality affected habitations under Bharat Nirman within the next four years. Detailed strategy needs to be worked out in this regard so that the aforesaid goals are achieved in the stipulated time frame. He further stated that besides rural drinking water supply, rural sanitation also needs a lot of attention. The Total Sanitation programme is being implemented in the country to bring about hygienic and healthy environment in the rural areas. The TSC is being implemented in 540 districts in the country and the remaining districts will be covered for implementation by 2006-07. With the joint effort of the Central Government and State Governments, we can hope to have all our rural areas free of open defecation by the year 2012. So far 1.92 crore household have been provided with toilet facilities under TSC. The attainment of these goals will become possible only with full and active cooperation of the State Governments. He further said that such Conferences give an opportunity to share experiences and improve the implementation of drinking water and sanitation programmes. During the Conference, it is proposed to hold wide ranging discussions on various aspects including strategy for coverage of rural habitations and rural schools, tackling water quality problems and rural sanitation and also policy issues for involvement of community or user groups or Panchayati Raj Institutions. While concluding his welcome speech, Shri Narendra, MoS(RD-N) said that the inspiration of Hon'ble Prime Minister we will be able to attain the goals of providing potable drinking water and sanitation facilities to all in the rural areas.

Dr. Raghuvansh Prasad Singh, Minister for Rural Development welcomed the Hon'ble Prime Minister on behalf of all the delegates and said that his presence in the Inaugural Session of the Conference is an indication of the importance he attaches to rural drinking water supply and sanitation in the country. He said that although Rs. 55,000 crores have been spent in drinking water sector, there still remain 55067 uncoverd and 2.17 lakhs quality affected habitations in the country. Safe drinking water is the basic necessity and our task is to provide safe drinking water to each and every habitation in the country. Our endevaour is to reach to the remotest corners of the country. Hon'ble President has also suggested Provision of Urban Amenities in Rural Areas (PURA) to end the urban-rural divide. We should, however, strive to provide at 40 lpcd to all habitations in the country within the shortest possible time. The programme of Bharat Nirman

has been envisaged by the Government to complete this gigantic task in a time bound manner. Therefore, the Centre and the States must strive together to achieve the targets set under Bharat Nirman to make available safe drinking water to all in rural areas and also to provide basic sanitation facilities in villages. The Government is committed to cover under Bharat Nirman all the remaining uncovered habitations, the water quality affected habitations as also those habitations which have slipped back from FC to NC or PC categories. In the current year, which is also the first year of Bharat Nirman, we have chalked out a strategy to achieve the targets. Priority is to be given to uncovered habitations of CAP '99, water quality affected habitations and SC/ST habitations. This Conference will give us the opportunity to review this strategy. The onus of the success of the schemes is on the shoulders of the States and Union Territories. Talking about rural sanitation, he said that we have to make India totally open defecation free by 2012 i.e. well before the target set under Millennium Development Goal. By 2020 we have to bring India at par with other developed countries. Today, 65% rural Indian households still lack toilet facilities. Keeping its commitment for rural sanitation, the government has enhanced the fund allocation for rural sanitation from Rs. 400 crores to Rs. 700 crores. The programme envisages achieving full sanitation coverage in all the districts of the country. However, full sanitation coverage will not be achieved only by constructing toilets. There is an urgent need to make everybody aware of the need for sanitation and clean environment in the rural country side. He stated that the Government is committed to give top most priority to rural India and Hon'ble Prime Minister is fully supportive to this commitment. The Centre and all States together have to take up this task on a war footing. He expressed his vision and belief that after 11th Plan there will be no BPL population in the country and it would be possible to achieve the goal of providing potable drinking water and sanitation facilities to the rural population all over the country.

Delivering the Inaugural Speech, Dr. Manmohan Singh, Hon'ble Prime Minister said that he was pleased to be present in the discussions of an area of deepest concern to the government in ensuring that the basic needs of our people are met and met adequately. He emphasized the importance of the work of Rajiv Gandhi Drinking Water Mission for the welfare of millions of our people living in rural India. A recent comprehensive survey of national opinion revealed that a staggering 73 per cent said that availability of safe drinking water to all our people would truly make them proud of being an Indian. Therefore, our government's flagship programme, Bharat Nirman, has made availability of safe drinking water to every single habitation, a key component of the agenda to be delivered in the next four years.

The Prime Minister said that the government has increased investments in this sector by about 40% over last year, raising it from Rs.2,900 crores last year to Rs. 4,050 crores in 2005-06 and is committed to sustaining this level of investment over the next few years. the goal under Bharat Nirman is to ensure that first the uncovered 55067 habitations are provided with water supply at the earliest; second that the problem of 2.8 lakh slipped back habitations are effectively addressed and third, that the problem of water quality in over 2 lakh habitations is to be addressed comprehensively.

The Prime Minister stated that our water infrastructure has grown but has not been accompanied by an improvement in the quality of governance of water services in our country. In other words, we must 'not merely fix pipes, but also fix institutions that fix pipes'. We must tackle the problem of water supply, taking into account linkages with environment management and the linkages with our health care system. He also said that it is also important to develop institutional arrangements for sustainable management of water supply through local institutions

particularly the Panchayats system. The responsibility for water supply must shift towards civic institutions. He also stressed that sustainability and recharging of safe water resources necessitates better management of ground water, since much of the infrastructure built so far depends on ground water.

The Prime Minister drew attention to five aspects of agenda that must be addressed on a priority basis. First, eliminate the backlog and provide safe water to all remaining habitations which are either uncovered or have slipped back from full coverage. Second, address problems of water quality. Third, entrust the responsibility of water supply management to local institutions and build their capacity in the management of water supply. Four, improve comprehensive management of water supply by strengthening the management of our environment. And lastly, mobilize communities to spread awareness of the linkage between good health and safe water supply.

Regarding the sanitation sector, The Prime Minister recalled that no less a person than Mahatma Gandhi emphasized the link between water supply and health as a key goal for our society. It is not merely an issue of operating a Centrally Sponsored Programme, for which in any case, allocations have nearly doubled over the past year. He exhorted all present to make it a truly people's movement. The supportive programme should be made as flexible as possible. He pointed out that sanitation is a not a civil engineering activity but it is about changing attitudes and mindsets. In the absence of the latter merely spending money is of limited utility. He said that there is no country in the world where sanitation has been provided mainly through government investment. Most often, sanitation is based on people's investment in changing attitudes and perceptions of hygiene. He envisaged a major role for Panchayats and local institutions in implementing changes through social mobilization. He urged the State governments to take this up not just as a public health engineering issue, but as a challenge to our Panchayats, for our educational institutions and campaigns for the empowerment of our women.

The Prime Minister concluded by urging all of delegates to personally lead the movement in their respective state for meeting this vital goal of Bharat Nirman and to lead the total sanitation campaign by making it a collective agenda. He assured that funds would not be the constraint on the successful implementation of these vital programmes. He called for commitment. He wished all success in this noble effort of every participant.

Proposing a vote of Thanks, Smt. Sunila Basant, Secretary, Department of Drinking Water Supply, Ministry of Rural Development said that it was an honour to thank the Hon'ble Prime Minister on behalf of all participants for sparing his valuable time to inaugurate this Conference. She Stated that the message of the Prime Minister would serve as guidelines in the endeavour to provide safe drinking water and sanitation facilities in rural India. With the cooperation of all of the State Governments, efforts will be made to implement the goals set under Bharat Nirman. The conference would provide a forum to deliberate on policy issues and strategy to provide safe drinking water supply on a sustainable and equitable basis, and to provide clean and hygienic rural environment through the Total Sanitation Campaign. She thanked all honoured guests and delegates to the Conference for their presence and support. The session ended with thanks to the Chair.

Plenary Session

Tuesday, the 31st January 2006

In the Chair: Hon'ble Minister for Rural Development, Dr. Raghuvansh Prasad Singh

Summary Record of the Session

Hon'ble Minister of Rural Development, Dr. Raghuvansh Prasad Singh started the proceedings by saying that it was an excellent opportunity to take stock of the progress made in rural drinking water and sanitation programmes and to draw up a road map for the future. He told the delegates that the onus of the success of the Department was on their shoulders. A clear vision and dedicated approach on their part for achievement of goals in the drinking water and sanitation sector will lead us to success. He stressed to meet the challenges of coverage, water quality and sustainability of sources and systems. He expressed his concern about water quality, quantity and coverage of schools. The Government has taken a decision to ensure availability of drinking water and sanitation facilities in all schools and anganwadis in the rural areas of the country by 2006. He told all the States to mobilize every resource to cover all the schools by the end of this financial year itself. He further emphasized that keeping its commitment for rural sanitation; the Government has enhanced the fund allocation from Rs. 400 crores to Rs. 700 crores. The programmes envisage achieving sanitation coverage in all the districts of the country. State governments should encourage more PRIs to implement the Total Sanitation Campaign in efficient and effective manner in order to become eligible for the Nirmal Gram Puraskar. The Hon'ble Minister of Rural Development drew attention to 'Bharat Nirman' which aimed at strengthening of rural infrastructure. He said that the task before us was to effectively and visibly implement the projects at the ground level under Bharat Nirman Business Plan with a sense of urgency and dedication for the benefit of rural masses. Thereafter, he invited the respective State Ministers to present their address to the Conference.

Andhra Pradesh

Shri D. Srinivas, Minister PHED, Government of Andhra Pradesh said that they have so far covered 360 schools and will cover all the schools by the end of the year 2005-06. They have also planned to cover all ST habitations under ARWSP and have envisaged a special programme 'Ambedkar Jeevan Dhara' to cover all SC population from NABARD funds. He added that there are 2,19,000 bore wells in the State. Most of the sources are ground water ones. Due to erratic rains most of the ground water sources have dried up resulting in problem of sustained coverage. Therefore, surface water source can only solve their problem. They will see that efforts are streamlined for educating the masses about water harvesting. An integrated approach should be adopted. The State Government has forwarded the Bharat Nirman Action Plan to the centre and they would request for additional allocations under ARWSP to meet the targets.

Arunachal Pradesh

Shri Kipa Tatar, Minister PHED, said Arunachal Pradesh is situated on the topographical front of Tibetan plateau in the furthest eastern corner of country. Although, it is a largest State amongst the NE, its density of population is the thinnest at 13 per sq km. The State suffers huge losses due to rain and flood damages in the summer on the lower belt and damage of reservoirs and pipe lines due to freezing of water during winter in upper region of the State. As per CAP 99

there are 155 NC, 510 PC out of 4298 identified habitations. To complete all the NC/PC habitations of CAP 99 an amount of Rs. 94 crores is required. However, as per a recent survey there are 2195 NC and 1246 PC in 5135 habitations. To meet this they would require Rs. 535 crores. ARWSP guidelines may be relaxed in respect of matching share and consider for 90:10 ratio of funding. Regarding rural schools he said there are 2883 rural schools in the States of which 797 have been provided with drinking water supply and 257 will be covered during this year. They would require Rs. 226 crore for complete the targets for schools. He added that in the sanitation sector, as on 31st Dec 2005 they have been able to provide low cost latrines in 9734 individual household and 365 schools. Considering high cost of material and transportation, the per unit cost of Rs. 625 is very low and it should be revised to Rs. 3500 per unit. He, however, assured that inspite of various teething financial and socio problem they will try to achieve the targets of providing potable drinking water and rural sanitation to all during the Bharat Nirman period.

Assam

Shri Dinesh Prasad Goala, Minister, Public Health Engineering Department, said that the availability of ground water in Brahmaputra Valley is substantially high and water level normally does not go beyond reasonable depth. However the water supply scenario became more complex in the recent past with the emergence of fluoride and arsenic in ground water sources. The State has to address the water quality problem of all the existing ground water sources as well as to switch over to more and more piped water supply schemes based on surface sources for all the fresh slipped back and newly established habitations. Under Bharat Nirman they will cover all the remaining NC and PC habitations of CAP 99 along with slipped back and newly established habitations besides addressing the quality problem and arranging water supply to all the rural schools of the State. To accomplish the activities under Bharat Nirman, the amalgamation of ARWSP and Swajaldhara is a welcome step. However, its conversion into a reform-oriented programme with realization of even a token beneficiaries share towards capital cost may be difficult to implement. Considering the financial constraints of the State the proportional earmarking of funds between the Centre and State should be in the ratio of 90:10 in place of existing 50:50. The transition of O&M to PRIs should be gradual and should be taken up only after awareness generation and capacity building among PRI functionaries. Under TSC upto 2004-05, TSC projected were administratively approved in 11 districts. Till now 49,896 low cost latrines in BPL families and 186 sanitation blocks in schools have been installed.

Bihar

Dr. Prem Kumar, Minister for Public Health Engineering Department, said that as per 2003-04 survey 105303 habitations have been provided handpumps as per laid down guidelines. But due to depletion of ground water and outliving of handpumps some of the habitations have come under slipped back category. He, however, suggested that installation of handpumps for a cluster of 250 people should be reduced to 150 people. Under Bharat Nirman the State Government will meet the targets for which they will require Rs. 525 crore. He added that there are 6 lakh handpumps in the State and on preliminary enquiry that there are 68 habitations affected with fluoride, 1445 with nitrate and 2656 habitations affected with iron. He said there are 51134 schools in the State. 44696 schools have been provided with drinking water facility and in the balance schools they will complete the target by 2006-07.

Chhattisgarh

Shri Kedar Kashyap, Minister of State (IC) Public Health Engineering Department, said that though the ground water table in the State is fairly high, however, due to dense forests, approaches to habitations and villages located in the deep forest are a challenging task. They have achieved cent percent coverage in providing potable drinking water to 54818 habitations in the States. Out of 17957 new habitations identified in the new survey, 3092 NC habitations and 2699 PC habitations have been provided with potable water. However, 8701 NC and 8690 PC habitations still remain to be covered, which they will cover by 2007-08. In the case of Swajaldhara he said out of 312 schemes sanctioned for the State, work has been completed in 199 whereas in 113 nos the work is in progress. In the field of TSC, the State Govt has dovetailed its funds with the GoI's allotments, under which, in the coming 3 years, the State plans to construct a total of 10 lakhs individual household toilets for both APL and BPL families. A toilet with super structure is estimated to cost Rs. 3600 unit. In case of APL families the State Govt will be provided a grant of Rs. 1000.

Goa

Shri Ramkrishna Dhavalikar, Minister PHED, Government of Goa said that they will take up all the 6 PC habitations of CAP 99 this year and complete them by the next year. The total cost involved is about Rs. 2.53 crores. He pointed out to the rurban nature of Goa's habitations and that when they did their Sector Status Study, they found that their issues are different from other States. The tariff structure is the same for urban and rural Goa. The principle of paying for drinking water is there all over the State. There is no free water except in public stand-posts. No distinction is made between urban and rural water supply. It is in this context that they propose to implement their drinking water supply schemes and requested to take Ministry of Urban Development on Board for formulation of uniform approach in the matter of drinking water supply throughout Goa. He said that though Goa has 2% SC and 12% ST population, they are scattered and there is no separate SC/ST habitation(s).

Gujarat

Shri Narottambhai Patel, Minister for Water Resources and Water Supply, said that Gujarat is a drought prone State. Almost every alternate year they face the drought problems. Providing drinking water during such years to the drought affected areas becomes a Herculean task for the administration. The dependence on ground water for drinking water supply, its excessive exploitation and drying of sources have become quite grim during the recent years. In order to provide a solution, Sardar Sarovar Canal Based Drinking Water Supply Project, Sujalam Suphalam Yojana and Regional Rural Water Supply Projects are being implemented in the State. They have very ambitious planning for effective implementation of Bharat Nirman Programmes in which it is envisaged to cover all the NC/PC habitations with safe drinking water supply. Decentralization of the sector and empowerment of PRIs has been given a major focus in the State. Augmentation of ground water recharge has also been made a public movement and more than 5 lakh water harvesting structures have been created in the State during the last 5 years. Summing up he said that although the State has made huge investment in the sector, these efforts are still midway of implementation. The State has to invest more than 2,900 crores for completing the bulk transmission line and group distribution networking. For Bharat Nirman the

State would require Rs. 2000 crores. Therefore, he requested GoI to at least fund the gap for implementation of Bharat Nirman and enhance the allocations.

Himachal Pradesh

Addressing the delegates Shri Kaul Singh Thakur, Minister for Irrigation and Public Health, said that as on 1st April 2005 only 6030 PC habitations remained to be covered with safe drinking water facilities. He suggested that the State's' contribution be reduced to bare minimum so as to fulfil the objectives of Bharat Nirman. This reduction is necessary as the State's sources of revenue are limited. As on 31.12.2005 they have completed 333 schemes under Swajaldhara. Under Total Sanitation Campaign projects have been sanctioned for all the 12 districts of the State. The State Government is committed to meet the targets set under Bharat Nirman. The State has submitted the corrected version of survey status 2003 and this is under scrutiny by the DDWS and IIPA. Monitoring of the progress of Bharat Nirman shall continue to be done through the Monitoring Cell of the IPH Department. He said that PRIs in the States are not adequately equipped to take on the full responsibility for operation and maintenance of rural water supply schemes. The Government of HP agrees with the objectives of the modified ARWSP included in the Concept Note circulated by the Department. The proposal of GoI to provide upto 10% of the capital cost of the schemes transferred to the GPs as a one time incentive to the O&M Corpus fund created for and operated by the GPs is a welcome step.

Jammu & Kashmir

Jenab Qazi Mohammad Afzal, Minister for PHE, Irrigation and Floor Control, said that they have already submitted an Action Plan for achieving Bharat Nirman targets which include coverage of all NC/PC habitations of CAP 99, slipped back NC/PC habitations and all water quality affected habitations. The State has submitted a proposal for relaxing the norm of a habitation having at least 100 souls for being eligible to be taken up under ARWSP, keeping in view the difficult terrain and resultant scattered nature of population in the State. He added that State Govt is sparing no efforts to achieve the objective of covering the remaining number of schools as early as possible. The implementation of Swajaldhara was started in the State in 2003-04. 469 water supply schemes and 1209 hand pumps were taken up out of which 290 water supply schemes and 1026 hand pumps have been completed. After the devastating earth quark in the State, substantial damages to rural water supply infrastructure have been caused. The State has almost completed the task of temporary restoration of water supply. He said while it is a welcome to involve the people at the grass roots through PRIs in implementation, operation and maintenance and management of water supply schemes, the peoples participation should be achieved in a phased manner ensuring that the rural water supply system built so painstakingly over the years does not fall prey to poor management/maintenance as a result of lack of willingness or capacity of the PRIs to take over the responsibility. The PRIs should be encourage to own the assets for drinking water and for this purpose we should focus on not only capacity building and awareness generation but also on some incentives for such PRIs.

Jharkhand

Shri Jaleshwar Mahto, Minister of PHED, said that the State Government is committed to provide pure drinking water to all the habitations as the provisions laid down by Government of

India from time to time. They will meet the targets set forth under Bharat Nirman. For coverage of rural habitations, schools, sustainability of sources, water quality problems and mitigation and Total Sanitation Campaign the State Government machinery has been fully accelerated.

Karnataka

Shri B Satyanarayana, Minister for Rural Water Supply, Sanitation and Panchayats Raj Engineering Department, said that the State Govt is giving top priority for rural drinking water supply and sanitation over the years. Karnataka took up the implementation of piped water supply and mini water supply schemes in a big way. So far 17,981 piped water supply and 23,259 mini water supply schemes have been commissioned under the State and Central Sector programmes. Rural drinking water finds a top place under Bharat Nirman. They have planned to cover 5618 PC and 6036 slipped back NC/PC habitations in the next two years. Regarding water quality he said the State will locate sustainable surface water sources such as river, canal or tank and design multi-village schemes, identify underground sources which is not contaminated even if it is far away from the habitation, construct rainwater harvesting structures such as tanks, check dams, and percolation pits and take up watershed development in order to improve the ground water table, which would reduce the contamination and improve the quality of underground water, adopt roof water harvesting technique to store water for drinking purpose, take up information, education and communication activities in a big way to create awareness about water quality problem and how it could be tackled. Under TSC so far they have constructed around 1.56 lakh individual household latrines and they are in the process of providing latrines to about 20000 schools, 26000 anganwadi Kendra and 2000 community sanitation complexes.

Maharashtra

Shri Ajit Pawar, Minister Drinking Water and Sanitation, said that as per survey of 2003 there are 86164 habitations. Out of this 1313 are NC, 47021 are PC and 37822 are FC. The validation work is on and final figures will be available soon. There are 56092 schools out of this 31628 schools have been provided with drinking water facility and rest of schools will be covered under Bharat Nirman. A decision was taken in their State to have tanker free villages and service level of 55 lpcd. Highly capital intensive schemes were taken up. Now there is a total shift from the past. They are going for service level upto 40 lpcd. Villages are to take up O&M and collection of user charges. This amounted to a vast change from the past but the transformation has taken place and people have accepted it. He requested that (i) ARWSP and Swajaldhara should be clubbed and increase in the ARWSP allocations, (ii) increase in allocations for IEC activities, (iii) increase in the provision of funds for the operation and maintenance of schemes; and (iv) increase in the provision of funds for source sustainability.

Meghalaya

Shri H.D.R. Lyngdoh, Minister in-Charge PHED, said time bound programme of Bharat Nirman to provide safe drinking water supply and sanitation to all the rural habitations by the year 2009 is a welcome step. He said that the rural water supply and rural sanitation sector receives top priority in the State. The State Govt is committed to take all necessary steps to accelerate the programme. As on 1st April 2005, there were 12 NC of CAP 99 habitations and

235 PC habitations of which 6 NC and 129 PC habitations are targeted to be covered during the current year. Out of these targeted habitations, 19 nos PC habitations will be fully covered by December 2006. He said that he would request to give more realistic assistance both in technical and financial terms to the NE States and in particular to Meghalaya to jointly carry on the task that lie before the State in reaching safe and adequate drinking water supply to all the habitations by the year 2009.

Nagaland

Shri P.L. Longon, Minister, Public Health Engineering and Land Revenue, said that in a huge and diverse country like India, State specific problems and constraints will be faced while implementing various programmes. Hence there is a need to allow for flexibility in implementation. Adoption of a common yardstick for the entire country can be counter productive. He added that the State has already drawn up the action plan for covering all habitations by 2009 under Bharat Nirman. All remaining NC and PC habitations will be taken up in a phased manner during the next four years under ARWSP, Swajaldhara and State Plan. The monitoring cell in the Chief Engg office will be strengthened to effectively supervise and monitor the project in the divisions. A total of 136 rural habitations in the Dimapur Dist are affected by excess iron content. An action plan has been drawn up. They have, as on December 2005, 19 NC and 939 PC habitations. In the current year 19 NC and 45 PC habitations are targeted to be covered. They have covered 740 schools under Sarva Siksha Abhiyan and balance schools will be completed within two years period. Under Swajaldhara the response of the villages is very encouraging. They are ready to contribute their share. The State has examined the concept note for institutionalizing community based decentralization of rural drinking water and the state is on its way to decentralizing rural water supply by empowering the community.

Orissa

Sri Biswabhusan Harichandan, Minister, Rural Development, Industries and Law, said that so far as rural drinking water supply is concerned there were 21232 and 13680 PC habitations in the State as on 1.4.2005. There are also 28,016 water quality affected habitations. The task under Bharat Nirman is to provide safe source of drinking water in all NC/PC habitations and to address water quality problems by 2008-09. Accordingly alternative safe sources of water will have to be provided in habitations having water quality problem. An Action Plan has been prepared for provision of drinking water in habitations under Bharat Nirman. He said that Swajaldhara is gaining popularity among the people, TSC is also gather momentum. Under TSC during 2004-05, 253385 individual household latrines were constructed and during the current year they intend to exceed this number. He requested that Swajaldhara funds covering total allocation for 2005-06 and balance allocation of the previous years may be released at the earliest.

Punjab

Shri Avtar Henry, Minister for Public Health, said that the State proposed to cover all NC and PC habitations under Bharat Nirman upto 31st March 2009 for which funds to be tune of Rs. 1055 crore are required. It will be essential to substantially enhance the allocations from the existing level of Rs. 40 crore to Rs. 100 crore per annum as the average annual requirement of

funds is Rs. 300 crore for the next three years. The State Government has handed over the O&M of 774 single village schemes to Panchayats. He added that TSC is not popular in the State due to inadequate technical design because it does not include super structure or second pit. He added that in order to improve the environmental sanitation in villages proper drainage arrangements will be provided for the disposal of silage water and liquid animal waste from each house through small bore drainage system. He requested to enhance the amount for individual household latrines under TSC from Rs. 375 per latrine to at least Rs. 4000 per toilet.

Rajasthan

Shri Chunni Lal Dhakkar, State Minister for Public Health Engineering Department, said Rajasthan is the largest State as far as the area is concerned. There are 237 blocks. These can be categorized as 140 over exploded, 50 critical and 14 semi-critical. As per 2003 Survey, out of 122250 habitations only 39878 habitations have been provided with safe drinking water. Under CAP 99, there are 2300 habitations left which are yet to be covered. To meet this gigantic task they require Rs. 2834 crores. He said a better mechanism for popularizing it among the masses should be devised. For this he said special emphasis would have to be given on IEC activities. TSC is being implemented in 10 districts and has been started is 32 districts. For school sanitation he said the norms should be relaxed and should be brought at par with Sarva Siksha Abhiyan programme of the central government.

Sikkim

Shri K.N. Rai, Minister for Rural Development, Government of Sikkim said that Sikkim is a very small State with 4 districts. The increase in number of uncovered habitation is due to increase in population, which resulted in fully covered habitation becoming partially covered. Another reason for slippage is due to decrease in the discharge of sources. He further said that in Sikkim they are taking up gravity based piped water schemes, costing Rs. 6000 per capita. They are also taking up water harvesting schemes, costing Rs. 5000 per household. The Action Plan for Bharat Nirman has been prepared and they will meet the targets as stipulated therein.

Tripura

Shri Jitendra Choudhary, Minister for Rural Development said that Secretary the reason for slippage is basically due to shallow tube wells and ring wells. They are depending on Mark III handpumps and sanitary wells. They have decided to take up henceforth only surface piped water supply. In South Tripura District, they have taken up pumping water and the water is filtered with chlorine. Regarding Bharat Nirman, he informed that State Government has planned targets for the next 4 years. Regarding TSC he said targets set for the State will be met within the stipulated time frame.

Uttar Pradesh

Shri Rajpal Tyagi, Minister for Rural Development said that they are generally going for coverage through hand pumps. For quality they are going for alternative sources from ground water. They do have some piped water schemes. Its cost comes to Rs. 1000 per capita. The cost of hand pump is in the range of Rs. 21,000 – 25,000 though in some difficult areas like Saharanpur it goes up to Rs. 1.25 lakhs. Hence requested for additional allocation are ARWSP.

The main factors of covered habitations slipping to NC/PC status were the pressure of population, drying up of sources, systems outliving the design period and also faulty construction. Regarding Bharat Nirman he said the State Government will strive to meet the targets within the stipulated time frame.

Thereafter, MRD requested the Representatives of States from where the respective Ministers could not attend the Conference.

Mizoram

As Shri PU Tawnluia, Minister PHED, could not attend the Conference, the speech of the Minister was presented by the Representative of the State Government to the House. Representative of Mizoram said that there Minister met with an accident while coming to attend the Conference. MRD expressed concern and conveyed the best wishes of the House for his speedy recovery. The State Representative said that they have 886 habitations in all. They have identified 26 habitations as quality affected. 2224 schools are without drinking water facilities and it will be very difficult to meet the targets of Bharat Nirman without additional funds. He added that it will be very difficult for the State like Mizoram to meet 50:50 share under ARWSP. He appealed that atleast for Bharat Nirman the centre should make it 90:10. Regarding Swajaldhara, he said they have implemented only 4-5 projects and requested that the community contribution under Swajaldhara should be reduced to 5%. Under Total Sanitation Campaign he said they require atleast Rs. 2000 per toilet. BPL families may not be able to pay their share hence under this the centre-state share should be fixed at 75:25.

West Bengal

Principal Secretary, Government of West Bengal said that our prime and focused attention should on sustainability of sources or else slipped back habitations will continue to grow. Besides this we have to emphasis on water quality. Maintaining water quality standards is a must and all out efforts should be made to bring awareness among the masses.

Uttranchal

Secretary, PHED, Government of Uttaranchal said that funding needs to be enhanced in view of large number of slipped back habitations. Due to geographical topography the people live in small habitations. 67% of the total population in Uttaranchal lives in villages with less than 100 people. The dependence on pumping schemes is very high in the State because of fast depletion of ground water. Therefore we want multi-purpose schemes to be approved by Government of India. The reform process should be in set-set mode. Water regulation is not in place and very soon we have to work in this direction.

Tamil Nadu

MD TWAD Board, Government of Tamil Nadu said that proposals worth Rs. 7.6 crores are pending with Government of India. In Tamil Nadu there are many integrated water schemes where we need immediate funds. If the funds are not released immediately the sanctity of the projects will be lost and may lead to extra burden on the exchequer.

Pondicherry

Commissioner and Secretary, Government of Pondicherry said that they have constructed 8 new bed dams. It has improved water quality and removed salinity from the water. They have covered 156 villages till now.

Madhya Pradesh

Secretary, Madhya Pradesh said that they will meet the targets under Accelerated Rural Water Supply Programme (ARWSP) and they will complete the schools by next year. He said that he has one suggestion to implement – that maintenance charges should not be reduced to 10% instead it should be increased to 20%. M(RD) clarified that the proposal is under consideration of Ministry of Finance. Secretary, Government of Madhya Pradesh that they have constructed 1500 piped water schemes and they would request that they may be allowed to rejuvenate them and they may also be permitted for drilling rigs under the ARWSP. He said that there should be provision of APL in the TSC guidelines. They have sent proposals for Nirmal Gram Puraskar.

Kerala

Principal Secretary, Government of Kerala said that they will meet the targets set under Bharat Nirman but funds under Operations and Maintenance should not be reduced as this will defeat the purpose. He was requested to give us a proposal for examination.

Haryana

Secretary, Government of Haryana, informed that there are no remaining NC/PC habitations of CAP 99 but there have been slippages. As per Survey 2003, the scenario of water supply in habitations is as NC-50, PC 3357, and FC 2805. However, this information is under validation. They are working on the on-line data entry for Bharat Nirman and they will furnish the information as required by the Department by 15th October 2005. Regarding coverage, he said that they propose to raise the status of some habitations from 40 to 55 lpcd. Secretary (DWS) said that their priority should be coverage from PC to FC, i.e. upto 40 lpcd and that the target should be coverage of 800 PC habitations.

Andaman & Nicobar Islands

Chief Engineer, Andaman and Nicobar Admn said that they have still not recovered for the havoc of tsunami but they are working hard and will try to achieve the targets.

Concluding the Plenary Session, Minister (RD) said that he was happy to note that all States are keen to build a strong rural India and their suggestions are very encouraging. He exhorted the States to make efforts to improve the pace of expenditure, which is slow at present. GoI have released Rs. 3198 crores so far to the States/UTs and the expenditure till date is only Rs. 1152 crores. Only if the expenditure is accelerated by the States can we meet the targets and request for more funds from the Finance Ministry. He made the following suggestions:

- to speed up expenditure to meet the targets and claim the second installments at the earliest;
- Send monthly reports on-line;
- Ensure that the funds are utilized properly;
- Implement the spirit of Article 243 and increasingly involve the PRIs;
- Grants under 12th Finance Commission meant for rural water supply and capacity building of PRIs should be used properly.

MRD further said he would ask the Department to hold a separate Conference for water conservation and rainwater harvesting where the technology and innovative ideas should be discussed. He mentioned that he had written to all State Chief Ministers regarding implementation of Total Sanitation Campaign and making it compulsory for all officials and elected representatives of the State to have a toilet in their household. So far, only Sikkim has brought out such an order and Maharashtra and Chhatisgarh are going to do this. He requested all the State Representatives to take immediate and concrete steps in this regard. He stressed that all targets for schools should be met by 2006-07 so that children would become habituated to using toilets and then they would ask their families to adopt Total Sanitation Campaign. For monitoring water quality under the Water Quality Monitoring & Surveillance Programme, the Department is in the process of releasing funds for the current year. All States would be required to take up the works approved for the year quickly and complete them within March 2006. He expressed his confidence in completing the mandate of Bharat Nirman within the stipulated time period with the co-operation of all.

Recommendations

Working Group I - TSC – Implementation And Policy Issues

The following recommendations with respect to TSC implementation and policy issues - modifications of TSC guidelines:

Increase in the unit cost of household toilets:

Increase in the unit cost of IHHLs to offset inflation as well as make provision for a superstructure was recommended. The group recommended the proposal of the Department to increase the unit cost of the two models to Rs.1500/- and Rs.2000/- respectively. The fund sharing pattern between the Center, State and community for the two models may remain the same as given below:

Basic Low Cost Unit Cost (BLCU) (Rs.)	**Contribution**		
	GOI	**State**	**House hold**
	BPL	**BPL**	**BPL**
Model 1-Upto Rs.1500/- (direct pit)	60%	20%	20%
Model 2- Between Rs. 1500/- and Rs. 2000/- (Offset pit)	30%	30%	40%

It was also recommended that if possible only one type of funding pattern should be provided.

Inclusion of solid and liquid waste management:

A component on solid & liquid waste management should be added in the TSC guidelines whereby upto 10% of TSC funds would be earmarked for this component. It was also recommended that funds available under 12th Finance Commission Grants, NREGP and other programmes of Ministry of Rural Development should be tied up for this purpose and it would be desirable if suitable provisions are made in the guidelines of those programme.

Revolving fund for zero percent interest loan to Self Help Groups / Milk Cooperative Societies

Field experiences in Tamil Nadu, Gujarat etc. have shown that if adequate funds at zero or low interest is provided to the SHGs/ Milk Cooperative Societies for construction of toilet units, sanitation coverage could be accelerated even without giving any subsidy. In views of these experiences, it was recommended that a revolving fund with a maximum of Rs. 50 lakh per district be set up which could be given to the SHGs/ Milk Cooperative Societies having 100% credit worthiness for distributing loan among their members at zero percent interest rate.

Removing contribution from community for school and Anganwadi toilets:

In order to bring TSC at par with SSA, the element of community contribution for school and anganwadi toilets should be removed. It was recommended that the fund sharing ratio for school and anganwadi toilets under TSC between the Center and the State may be in the ratio of 70:30 in place of 60:30:10.

Increase in the unit cost of toilets for Anganwadis:

Increase in the unit cost of anganwadi toilets from Rs.5,000/- to Rs.10,000/- was recommended.

For promotion of ECO Sanitation models, each State should take up a pilot project. National/ Regional/ State level workshops be conducted to popularize this technology. It was

also recommended that for ECO-SAN toilets higher unit cost was needed, so some additional grant needed to be tied up.

The Working Group (WG) recommended that for successful implementation of TSC, it was essential that women were involved in programme implementation. It was recommended that Self help groups, Thrift groups, Mahila Samakhya and other women's groups be involved in IEC activities and encouraged to manage rural sanitary marts and production centers.

Communication and Capacity Development:

It was felt that awareness creation and capacity development are two important requirements for a successful sanitation campaign. For this purpose, National and District level Communication strategy along with required tools developed by Department of Drinking Water Supply should be implemented. It was recommended that the States should adopt these strategies in their annual plan and implement them quickly in a time bound manner. It was also recommended that success stories of PRIs in sanitation sector should be properly publicized.

It was also recommended that a National mass media campaign on various issues related to sanitation & hygiene should be launched on TV & Radio. The media plan should be a proper mix of audio & visual spots telecast both in Doordarshan & private channels. The frequency should be about 4-5 times a day. It was also recommended that GOI should launch the campaign in Hindi language only. For taking up campaign in regional languages, funds should be given to states.

It was also recommended that the guidelines for CCDU and support to Key Resource Centres should be revised and one common guideline may be issued.

Funding for hardware support mainly for class rooms, hostel rooms should be provided to the State Govts / Key Resource Centres involved in capacity development of TSC functionaries.

There should be separate CCDU for sanitation & water supply in those States where two separate Departments are handling these subjects.

Nirmal Gram Puraskar (NGP)

Changes in guidelines of Nirmal Gram Puraskar (NGP):

Considering, wide variation of population of Gram Panchayats throughout the country from a population of 300 to 25,000 in different States, it was recommended that the population slabs for award for GP should be increased. Following five such slabs have been recommended:

Population less than 1,000	Rs.50,000/-
Population more than 1,000 but less than 2,000	Rs.1 lakh
Population more than 2,000 but less than 5,000	Rs.2 lakh
Population more than 5,000	Rs.4 lakh
Population more than 10,000	Rs 6 lakh

Working Group II - Implementation of ARWSP in the Eleventh Plan for institutionalization of community participation.

- In tune with the constitutional provisions contained in Article 243G of the Indian Constitution read with the Eleventh Schedule, the State Governments are required to transfer funds, functions and functionaries to the appropriate Panchayati Raj Institutions for operation & maintenance and management of the rural drinking water supply systems, particularly, stand-alone water supply systems. The functions should be devolved to the VWSCs constituted for the purpose. The VWSCs may be linked to the PRIs wherever these are in place or integrated with them when setup.
- All State Governments to sign Memorandum of Understanding (MoU) before commencement of the 11th Plan and take steps to enact legislative / administritative measures, which would commit the States to an Action Plan for decentralized service delivery and involvement of communities, within a mutually agreed timeframe. The MoU may be revised on request of the State and should not be an instrument of dis-incentive.
- From the 11th Plan, there may be only one rural water supply scheme based on reform principles. The name of Swajaldhara may be retained in some form in the scheme. Weightage for DDP may be removed as there is 5% separate allocation for it. Change in the allocation criteria of annual ARWSP funds may be as:

SN	Proposed Weightage for	From 2007-08
1	Rural Population	40
2	No. of GPs/ rural population managing rural drinking water supply schemes	10
3	States under DPAP, HADP & special category Hill States in terms of rural areas	30
4	Proportion of NC/PC habitations (2:1)	20

- ARWSP may have only 5 components, namely coverage, quality, natural calamity, DDP and O&M Fund. Proportionate earmarking of funds may be as shown in the following table:

Component	Proposed distribution of annual budgetary allocation
ARWSP (Coverage)	60%
ARWSP (Quality)	20%
ARWSP (Natural Calamity)	5%
ARWSP (DDP)	5%
For Village O&M fund	10%

Some states recommended that 15% should be earmarked for O&M.

- Community contribution of atleast 10% of the estimated capital cost of the scheme (subject to a minimum per household) to be an integral part of all rural drinking water supply schemes. It may be only 2.5% for SC/ST habitations. The extent of community contribution could be paid in cash, labour, land or material or a combination of these. The minimum contribution per household to be decided by the State. In difficult SVS (quality affected habitations / PWS from distant source) and MVS, the State may decide on the quantum of community contribution for common facilities.
- Central and State Governments will bear the balance capital cost of approved schemes (after deducting the community contribution). In case of difficult SVS and MVS, Government agency will bring water from the source to the entry point of the village. The capital cost of schemes upto the entry point of habitation will be shared by Central and State Government. The distribution network of water supply inside the village /habitation will be constructed with involvement of the GP /VWSC, with community contribution and subsequent O&M. They will be assisted by PHED in the process.
- Operation and maintenance of all new simple SVS and intra-village network of MVS taken up under any component of ARWSP will be the responsibility of the local community. PHED will make clear the O&M requirement in terms of finances and personnel and assist the community in taking up the responsibility.
- Multi-village schemes, capital intensive schemes for addressing problems of water quality would continue to be the responsibility of the State Governments. However, the State Government may devolve this responsibility to an appropriate level of the Panchayati Raj Institution, depending upon the technical requirements of the scheme and the capability of the PRI.
- All State Governments will be required to transfer existing schemes in a phased manner to the Gram Panchayat after obtaining their consent and preparing them for undertaking this responsibility.
- The Panchayats / VWSCs would recover O&M cost through collection of user charges and by mobilizing resources. The user charges so collected would be used exclusively for the O&M of the assets for drinking water. The charges per month per household may be decided by the GP / VWSC for sustained O&M and may be supplemented from the resources of the State initially, especially for electricity charges.
- Government of India and State Governments would each provide up to 10% of the capital cost of the schemes to be transferred to the Gram Panchayats, as a one time incentive to the O&M fund created /transferred to the Gram Panchayat/VWSC.
- PRIs, primarily the GPs / VWSCs, shall be the implementing agencies for SVS (except capital intensive multi-village schemes which could be executed by Government Departments /Boards). The Government / Department / Board will provide technical assistance to PRIs in implementation. In NE States and hill States, difficult SVS may be executed by Government agencies, depending on the technology. Each State Government shall notify a nodal department for rural drinking water and sanitation and set up State Water & Sanitation Mission (SWSM), as a registered society, at the State level under the chairmanship of the Departmental Secretary or officer of equivalent rank. At the District level, approval of all schemes will be by the District Water and Sanitation Committee

(DWSC). At the village level, Gram Panchayat / Village Water and Sanitation Committee (VWSC) will be the implementing agency.

- State Governments would also be required to develop proper training and capacity development facilities for providing requisite training to members of the Gram Panchayats (GPs) / Village Water & Sanitation Committee (VWSC) etc. on various aspects relating, inter alia, to Operation and Maintenance; water quality; system and source sustainability.
- Integrated approach to water conservation, demand management, with well defined roles for all stakeholders.

Working Group III - Coverage and its norms, technology options, source and system sustainability, water quality monitoring and surveillance

- The distance of the water source should be 0.5 kilometre instead of 1.6 kilometre and 30 metres elevation instead of 100 metres in hilly areas to lessen the drudgery of carrying water from distant source.
- The present guidelines for service level should remain as it is for ARWSP (Normal) in respect of per capita water supply. The allocation which is applicable to DDP areas under ARWSP (DDP) should be extended also to DPAP, Heavy Cattle Load and Hilly Areas.
- A habitation covered by Mark II & III hand pump not to be categorized as 'not covered'.
- In Hilly areas the population criteria should be relaxed to cover habitations with 50 persons or more or more than 10 households to all.
- Vigorous efforts are to be made for training and capacity building of the PRIs for handling O&M of domestic /community treatment plants.
- Sustainability of drinking water sources should be made an integral part of the project and funds can be earmarked for this purpose. VWSC /GP should be encouraged in taking sustainability measures and in water management.
- There is need for earmarking funds for rooftop /catchment based rainwater harvesting and this water may be treated as coverage as distinguished from recharging of ground water.
- There is need for inter-sectoral co-ordination amongst various Ministries at Centre and Departments at State level for a holistic approach to water conservation measures.
- Many of the Districts lack adequate technical manpower including chemists and micro-biologists. There is a need to increase manpower for this purpose so the ban on creation of such posts should be lifted wherever required.
- Community Rooftop rainwater harvesting, handpumps, development of springs and other low cost technology be used for early coverage of habitation.
- It should be made compulsory for all Government buildings, institutional buildings, schools, industrial units etc in rural areas to put roof top rain water harvesting structures and utilize the collected /filtered water.
- States may enact Ground Water Regulation, Control and Development Legislation which would include provision for recharging ground water.
- Women and youth of rural areas be trained to operate and maintain water supply systems. Manuals /guidelines be developed for this purpose.
- Community Rooftop rainwater harvesting, handpumps, development of springs and other low cost technology be used for early coverage of habitation.
- Community /Gram Panchayat /VWSC be involved in regularly monitoring and documenting water quality of all sources in the village /Gram Panchayat workshops /Awareness Camps be held for this purpose.
- Workshop for communication and dissemination of information about various technologies may be held both at the Central and State level.

- Distribution systems be improved for minimizing the leakages. States should come up with means to prevent leakages in the distribution systems to make it economical with cost recovery.
- Good production centers /sanitary marts /Self Help Groups etc should be utilized for supply of spare parts, training of local rural youth and women as mechanics for O&M of water sources and also involved in water quality monitoring and maintenance.
- The coverage of rural schools in DDP areas should be also on the basis of 100% funding from ARWSP.
- The scheme for constructing individual roof top rainwater harvesting structures with NABARD assistance should be circulated to all the States/UTs for their comments.

Funding Pattern

- Some states recommended a funding pattern of ARWSP between Center and State to be in the ratio of 75:25 and North Eastern States requested this ratio to be 90:10 for consideration of the government.

Resolution

In conclusion, it was resolved to –

- Work towards achieving the goals set under Bharat Nirman with all sincerity, i.e, provision of at least 40 litres per capita per day (lpcd) of safe drinking water to all habitations, in a time bound manner, in the next four years.
- Cover the remaining 55,067 uncovered habitations.
- Tackle water quality affected habitations to provide safe drinking water in a sustainable manner, with priority to tackling problems of arsenic, fluoride and salinity.
- Augment water supply in all habitations that have slipped back from full coverage.
- To improve the governance of delivery structure for rural water supply and sanitation.
- To increasingly entrust the responsibility of rural water supply management to local institutions and build their capacity in this regard.
- Provide safe drinking water to all the schools of the country by end of March, 2007.
- Provide sanitary toilet facilities to all the schools by March, 2007.
- Promote Community /group roof-top rain water harvesting, especially in Government buildings, institutional buildings, schools, industrial units etc in rural areas, and integrated water recharge to augment the water supply for drinking purposes.
- Move towards enactment of Ground Water Regulations and control and development legislation, which could include provision for recharging of ground water.
- Involve Gram Panchayats /VWSC in regular water quality monitoring and surveillance.
- To report all achievements against the targets set on the web-based monitoring system on-line.
- Give more importance to Total Sanitation Campaign to achieve the goal of full sanitation by 2012, with full backing for the Campaign at the highest political and official level in the State.
- Make at least one district in each State full open defecation-free by end of 2006.
- Put Rural India in a place of pride amongst the Nations of the World.

Annexure G

Evaluation of Total Sanitation Campaign

A mid term evaluation of TSC Programme was carried out through Agriculture Finance Corporation in 2004, which made some major recommendations to improve the TSC implementation.

- Rate of adoption of sanitary toilets is 61.5% at all India level. BPL households have better adoption rate. Financial constraint was the most frequently stated reason for non-adoption of toilet facility.
- An overwhelming majority of those who do not have toilets feel the need for it. In many places people without toilets are making efforts to acquire the improved sanitation facility.
- Awareness about TSC and about relationship between poor sanitation and water borne diseases is at a high level in almost all the study districts.
- People want the per unit cost to be revised upward to above Rs.2500
- Necessity for superstructure is very strongly felt everywhere
- School going children at home in a large number of households and children appear to be a major influencing factor for adoption decision discusses sanitation issues.
- Awareness and practice of personal hygiene was found to exist in a very large extent in almost all the study districts.
- 55% of sampled schools toilets were supported through TSC, 15% through State Govt. funds and the rest through DPEP or SSA
- Health and hygiene education has become a universal practice in school in those districts where TSC is being implemented.
- The impact of SSHE has been seen in the reducing drop out rates (in 64% of the sample schools), improving enrollment rates (48%) and decreasing absenteeism (3%), which is very encouraging.
- A little over half the number of sampled Anganwadis had toilet facilities. But this included Anganwadis, which operated from school buildings and shared the school's sanitation facilities.
- Community sanitary complexes provided yeoman service to poor people especially women who cannot afford toilets
- The practice of training women as masons especially in some districts of Tamilnadu and West Bengal were quite commendable. The women masons proved to be very efficient not only in construction but also in motivating other villagers to adopt toilets and best practices in health and hygiene.
- Of the total RSMs studied 40% were operated by NGOs and one fourth by SHGs and they managed ventures more successfully than others as they combined IEC and motivation work with business.

AFC study (evaluation team) had broadly endorsed the TSC programme stating many positive achievements and recommended the following policy level changes:

- While the low-to no subsidy regime may be acceptable as a long-term policy goal, in order to achieve the objective of full coverage of rural households through appropriate sanitation systems, providing financial incentives to BPL households will have to continue as a strategy. The quantum of subsidy as well as unit costs needs to be revised suitably.
- It was suggested that the feasibility of providing superstructure for individual household toilets be considered and the financial incentive should have suitable provision for constructing the superstructure.
- Success stories like the Vellore Solid Waste Management Project must be publicized in the entire country and every TSC project must include such innovative projects. A portion of the TSC allocation can be set apart for this purpose.

In addition, based on the requests made by the State Governments from time to time, CCEA in its held on 9th March 2006 has approved the following major changes in the TSC Guidelines:

- The unit cost for household toilets has been increased from Rs 625 to Rs 1500 and from Rs 1000 to Rs 2000 respectively for two categories of models. This unit cost will include an amount of Rs 650 for construction of superstructure. This implies that the subsidy given to the Below Poverty Line families has been increased from Rs 500 to Rs 1200. This measure is expected to accelerate the rural sanitation coverage in the country.
- In TSC guidelines, a component on solid and liquid waste management has been included which can be of maximum 10% of the total project cost. This would help in improving overall cleanliness in the villages.
- In order to accelerate construction of toilet blocks in Schools and Anganwadis, the community contribution has been removed in construction of institutional toilets. The fund share of GOI has been increased from 60% at present to 70% of the unit cost.
- In order to make available cheap finance system with the Self Help Groups (SHGs) and Milk Cooperative Societies at village level, a provision of revolving fund (maximum Rs 50 Lakh per district) has been made. This will facilitate lending at zero percent interest among the members of SHGs and milk cooperatives whose credit worthiness are beyond any doubt.

The component wise earmarking of fund has also been revised to incorporate the other changes approved in TSC guidelines.