

Call For Proposal Under
Water Technology Initiative
Of Department of Science & Technology

Department of Science & Technology has carved out a major initiative on Water Technologies in the Eleventh Plan. **The focus of DST's efforts would be on developing low-cost and Indigenous house-hold water filter for providing safe drinking water**, in rural setting primarily. Development of simple cost-effective and easy to operate and maintain house-hold units is a challenge which needs application of scientific knowledge from various disciplines. Hybrid concepts to derive synergy of various technologies to enhance their combined effectiveness would be consciously encouraged for development. Purification processes based on novel materials would be identified and developed into a proven technology system backed by scientific field trials. Applied research work to be carried out by academic/R&D institutions in association with industry, wherever feasible would also fall in the ambit of the programme.

Project proposals in following prescribed format may be sent to Shri Sanjay Bajpai Scientist-'E' & Member Secretary (TSD), Department of Science & Technology, Technology Bhavan, New Mehrauli Road, New Delhi – 110016 (Tel: 26590283 Telefax:26523027E.mail:sbajpai@nic.in). The proforma for submission of project is available on <http://www.dst.gov.in> and can also be obtained from Shri Bajpai.

The proposals can be submitted anytime throughout the year. However, DST aims to convey the decisions on proposals received up to 30.09.2007 by 31.03.2008

FORMAT FOR SUBMISSION OF PROPOSAL FOR SUPPORT UNDER WATER TECHNOLOGY INITIATIVE

Section	Contents	Page No(s)
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3	TECHNICAL DETAILS	
4	PROFILE OF INVESTIGATORS	
5	Budget	

COVER SHEET

1. Project File No:
(to be filled by DST)
2. Project Title :
3. PI (Name, Designation, Address, Date of birth):
4. Co-PI (Name, Designation, Address, Date of birth):
5. Name and address of the user Agency:
6. Name and address of Industry (if any):
7. Proposed Duration of the Project:
8. Proposed Budget for the entire duration of the project:
 - 8.1 Total:
 - 8.2 Equipment:
 - 8.3 Staff (proposed research staff):
 - 8.4 Consumables:
 - 8.5 Travel:
 - 8.6 Contingency
 - 8.7 Testing & fabrication:
 - 8.8 Patenting:
 - 8.9 Any other expenses:
 - 8.10 Overheads:
9. Manpower requirement:
10. List of Major equipment and individual costs:
11. Project Objectives (Max 50 words)
12. Major Milestones (Maximum 3 numbers)
13. Major Deliverables (Maximum 3 numbers)
14. Date of receipt:
(to be filled in by DST)

15. Other projects with the PI/Co-PI(s):

Sr.No.	Title	Cost	Duration	Agency

Cover sheet to be filled in by the Investigator

CERTIFICATE FROM THE INVESTIGATOR(S)

Project Title:

1. I/We have carefully read the terms and conditions of the Water Technology Initiative Programme and agree to abide by them.
2. I/We have not submitted this Project proposal elsewhere for financial support.
3. I/We have explored and ensured that equipment and basic facilities described in the Research Proposal, will actually be available as and when required for the purpose of the Project. I/We shall not request financial support under this project, for procurement of these items. I/We undertake that spare time on permanent equipment will be made available to other users.
4. I/We have enclosed the following materials

a	Endorsement from the head of institution (on letter head)	1
b	(This) Certificate from the Investigator(s)	1
c	Project Proposal	20
d	Name and address of experts/ institutions interested in the subject/ outcome of the project (circulation list)	1

Name and signature of the Investigators

Date
Place

**ENDORSEMENT FROM THE
HEAD OF THE ORGANISATION**

(to be typed on the letter-head of the organization)

1. Certified that the organization welcome the participation of Dr/Mr/Mrsas a PI and Dr/Mr/Mrs.....as Co-PI for the project and that in the unforeseen event of discontinuation by the PI, the Co-PI will assume the responsibility for completion of the project. Information to this effect, endorsed by me, will be promptly sent to DST
2. Certified that the equipment, other basic facilities and other administrative facilities as per terms and conditions of the grant, will be extended to investigator(s) throughout the duration of the project
3. The organization shall undertake the financial and other management responsibilities of the project

(Head of the Institute)
Seal/Stamp

Date:
Place:

SECTION 1 : PROPOSAL SUMMARY

1.1 PROPOSAL:

PI's Reference No:
Broad Area:
Project Title:
Duration :
PI:
Institution:
Contact Details : (Telephone, Fax, Web & E-mail)

1.2 OBJECTIVES (Quantified and Precise)

1.2.1 End Objective

1.2.2 Intermediate Tangibles (Maximum 3) with delivery schedule

1.3 Nature of Project

(Please tick and give supporting justifications)

Applied Research& Analysis	
Development and Engineering (D&E)	
Application oriented Research, Design and Development (RD&D) having production potential	
Prototype/Product/System Development (new, up-gradation of existing, field trials and demonstration)	
Process Development (new, up-scaling of existing, field trials and demonstration)	
Data generation and feasibility study	
Limited production facility for specific technology segment to make the technology competitive	
Sophisticated equipment and technology based job-shops for cost-effective fabrication techniques	
Scientific knowledge leading to future technology development	
Technological capability development	

1.4 Technology Qualifier Criteria

(Tick as applicable)

Based on proven R&D and conforming to national / international, current/ future specification	
Potentially useful, demand driven and required by other agencies and users (name them)	
Use of technology for multiple applications	
Adapting existing technology for applications other than originally intended	
Meeting a critical national need (present/ future) and strengthening technological capabilities for the same	
Application of advanced science and technology with a promise of giving competitive solutions	

1.5 Target beneficiary

(industry,society,scientific knowledge etc)

1.6 Proposal summary (100 words maximum)

Please elaborate salient features of the project

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1.7 Justification for the Project (100 words)

Please elaborate why the project is required to be implemented

1.8 Collaborating organizations

Identify Tasks for each

1.9. TOTAL BUDGET

Rupees in lakh

1.9.1 Resource Sharing

Please specify share of each if more than one collaborator

DST	
Collaborator	

1.9.2 DST Share

Equipment	Consumable	Contingency	Travel	Overheads	Others	Total

Major Equipment & their cost	
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1.9.3 Collaborator (s) Share

Please specify share of each if more than one collaborator

Equipment	Consumable	Contingency	Travel	Overheads	Others	Total

Major Equipment & their cost	
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1.10. MANPOWER

Post				Total
Number				

1.11 DELIVERABLES

Tick appropriately and specify whether having a) Original , or b) Innovative, or c) State-of-the-Art features.

Deliverable	Mark $\sqrt{\quad}$	Brief Specification
Product Development		
Process development		
Data Generation		
Scientific knowledge leading to technology development in future		
Technological capability development		
Any Other		

1.12 Schematic and Specifications

Please give schematic of proposed system and specifications of deliverable(s) as per accepted norms/ standards

SECTION-2 : PROJECT IMPLEMENTORS

- 2.1 Name(s) and Address(es) of the Principal Investigator and Co-Investigator(s) from Nodal implementing Agency**
(including telephone no(s), fax , websites and e-mail)
- 2.2 Status of Nodal implementing Agency**
(whether Central/State Govt/Semi-Govt/Autonomous Educational Institution or Non-Government Registered Society or Commercial Organization)
Enclose supporting documents
- 2.3 Name(s) and Address (es) (including telephone no(s), fax,website and e-mail) of the Co-investigators from collaborating Institutions/Organizations/Industries and their exact role/ contribution envisaged in the project**
- 2.4 Name(s) of any NRI/Foreign Expert and Companies(including telephone no(s), fax and e-mail) to be associated/consulted; their Role**
Attach their Consent documents
- 2.5 Name(s) and Address (es) (including telephone no(s), fax,website and e-mail) of any Indian Experts and companies/agencies to be associated with the project; their role**
Attach their consent document
- 2.6 If no partner is proposed to be associated, Name(s) and Address (es) (including telephone no(s), fax,website and e-mail) of Prospective Commercialization Agencies**

SECTION-3 : TECHNICAL DETAILS

3.1 Title of the Project

3.2 Duration

3.3 Objectives of the Proposal (*precise and quantified*)

3.5.1 Overall development objectives

3.5.2 Intermediate objectives

3.4 Fulfillment of Technology Qualifiers Criteria

(please tick and provide supporting evidence)

Based on proven R&D and conforming to national / international, current/ future specification	
Potentially useful, demand driven and required by other agencies and users (name them)	
Use of technology for multiple applications	
Adapting existing technology for applications other than originally intended	
Meeting a critical national need (present/ future) and strengthening technological capabilities for the same	
Application of advanced science and technology with a promise of giving competitive solutions	

3.5 Origin and need of the Proposal

Please justify based on identified Indian needs/market surveys or new initiative based on international findings, etc.

3.6 Technical Details including definition of the problem:

justified by identifying proven basic R,D&E which forms the basis for the proposal

3.7 Expected Outcome in Physical Terms

- i) New/Upgraded Product*
- ii) New/Upscaled Process*
- iii) New/ Upgraded System*
- iv) Services (including software)*
- v) Feasibility analysis*

3.8 Targeted Specifications of expected outcome:

3.9 Statement on deliverables

3.10 Review of RD&E Scenario (with a view to justify the project) with references including contemporary development in the field

3.10.1 National Scenario:

3.10.2 International Scenario:

3.11 Importance of the Project in current context and expected future developments vis-à-vis the state-of-the art in India and abroad:

3.12 Work Plan

Attach bar chart

3.13 Methodology

Please highlight how success in the project execution is being made certain

3.14 Important Milestones and Target Dates

- (a) Host Institution
- (b) Collaborating Industry/Institute/Agency

3.15 Time Schedule of the Proposed Activities (in PERT Chart) under different milestones

show distinctly for different participating agencies

3.16 Year-wise break-up of distribution of work elements at the Host Institute/ Organisation and at Collaborating Organisation/ Industry:

3.17 Name of the Agency including Industry & Institution with which link up is established/proposed to be established

details may be furnished as applicable including their financial and technical commitment and resources allocated by them with supporting evidence

3.18 Any other information relevant to the Project proposal/execution of the project:

SECTION-4 : PROFILE OF INVESTIGATORS

4.1 Principal Investigator

(Name, Designation, Department, Address, Institute Name, Telephone, e-mail, Web, Date of Birth, Qualifications)

4.2 Name(s) of the Co-Investigator(s)

(Designation(s), Department(s), Address(es), Institute Name(s), Telephone(s), Web(s), Date(s) of Birth, Qualifications)

4.3 Name of the Co-PI

4.4 Brief Bio-data of PI and Co-PIs

Please attach separate sheets, including list of publications under different heads: Publications in International Journals, Publications in National Journals, Publications in International conferences, Publications in National Conferences, Book Publications, patents, industry interaction/technology transfer in project area, details on important ongoing/completed projects, employment Record etc

4.5 Percentage of time i.e. ½, 1/4th etc., PI/Co-PIs shall commit to the project

Other commitments of the PI and Co-PIs including lectures, research projects, responsibilities, regular academic/clinical responsibilities may be listed

4.6 Other project proposals submitted to funding agencies (like MIT, DST, DRDO, DSIR, MNRE etc.). by PI/Co-PI awaiting consideration

Please give their titles, period of duration and funding

4.7 List of Sponsored Projects under implementation (ongoing) with PI & Co-PI's

Please give their titles, period of duration and funding, date of Completion and names/telephone nos. of the dealing Coordinating officers in the sponsoring agency

4.8 Details of completed Projects by the PI:

Please give Titles, Duration period of budget amount, funding agency, equipment etc. and whether project accounts have been settled or not and names and telephone nos. of coordinating officers in the sponsoring agency

4.9 Annual Accounts/Annual Report of Collaborating Agency/Company

4.10 Proposed Action Plan with time scheduling for Utilisation of Research Outcome/Product expected from the Project including specific Technological fallout's

4.11 Availability for the Purpose of the Project and proposed utilisation of infra-structural facilities within Institute/Laboratories/Industries and also within the PI's Group including uninterrupted Power Supply Facility required for implementation of the proposed activities

Please list the equipment and facilities available

4.12 Additional assuring measures to ensure that the project is successful

4.13 Names of 5-6 Area Experts

Please give complete Address, telephone numbers & e-mail addresses

4.14 Any other Relevant Information, the Proposer (s) wants to provide

SECTION – 5: BUDGET ESTIMATES
SECTION- 5 : BUDGET ESTIMATES

5.1 Break-up of Total Budget

Amount in Lakh Rupees

S.No	Item	1 st Year		2 nd Year		3 rd Year		Total	
		DST	Collaborator	DST	Collaborator	DST	Collaborator	DST	Collaborator
1.	Manpower								
2.	Consumables								
3.	Contingency								
4.	Other Costs (Fabrication, Testing and patents etc)								
5.	Travel								
6	Permanent Equipment								
7	Overhead Charges								
	Total								

Grand Total (DST + Collaborator)

5.2 Itemised Budget

(Please provide justification)

5.2.1 Manpower

Budget for Salaries (DST component)

Designation	Qualification	Salary month	per	No. of Persons	Amount Rupees in Lakh	Justification

Budget for Salaries (Collaborator)

Designation	Qualification	Salary month	per	No. of Persons	Amount Rupees in Lakh	Justification

5.2.2 Consumables

Budget for Consumable Materials (DST)

1st Year	2nd Year	3rd Year	Total	Justification including basis of cost estimates/quotations

Budget for Consumable Materials (Collaborator)

1st Year	2nd Year	3rd Year	Total	Justification including basis of cost estimates/quotations

5.2.3 Contingencies

Budget for Contingencies (DST component)

1 st Year	2 nd Year	3 rd Year	Total	Justification including basis of cost estimates/quotations

Budget for Contingencies (Collaborator)

1 st Year	2 nd Year	3 rd Year	Total	Justification including basis of cost estimates/quotations

5.2.4 Fabrication, Testing and patents

Budget for Other Costs (DST component)

1 st Year	2 nd Year	3 rd Year	Total	Justification including basis of cost estimates/quotations

Budget for Other costs (Collaborator)

1 st Year	2 nd Year	3 rd Year	Total	Justification including basis of cost estimates/quotations

5.2.5 Domestic Travel*

Budget for Domestic Travel (DST)

1 st Year	2 nd Year	3 rd Year	Total Rupees	Justification indicating Travels and mode of t transport etc

Budget for Domestic Travel (Collaborator)

1 st Year	2 nd Year	3 rd Year	Total Rupees	Justification Indicating Travels and mode of transport etc

(*) No foreign travel is permitted under DST grants. Class and mode of transportation should be as per the entitlement of the concerned staff in the institute. Travel component of PRC visits would be added by DST separately in the project cost)

5.2.6 Equipment

Budget for Permanent Equipment (DST)

Description of Equipment	Foreign/Indigenous	Unit Landed Price (CIF+Custom Duty+ others)	Nos. of Equipment	Total Rupees	Justification in relation to project requirement

Budget for Permanent Equipment (Collaborator)

Description of Equipment	Foreign/Indigenous	Unit Landed Price (CIF+Custom Duty+ others)	Nos. of Equipment	Total Rupees	Justification in relation to project requirement