

**INTERNATIONAL CONFERENCE
ON
WATER – HARVESTING, STORAGE &
CONSERVATION
IIT, KANPUR**

**RAIN WATER HARVESTING AND
ARTIFICIAL RECHARGE TO GROUND
WATER IN INDIA –
A SUSTAINABLE FUTURISTIC VISION**

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SUCCESS STORIES: CENTRAL & STATE GOVTS.

- **Implemented several rain water harvesting and artificial recharge projects throughout the country under varied hydrogeological environments**
- **Created mass awareness and undertaken training programmes to educate and mobilize people on the subject matter**
- **Prepared Guides, Manuals, Master Plan, Brochures for popularizing the concept**
- **Generated posters and leaflets for public distribution highlighting the need for water harvesting**
- **Preparation of films and documentaries on water harvesting and conservation**



SUCCESS STORIES: NGO'S

○ **Gujarat –**

- Sadguru Water & Development Foundation - check dams in Thunthi Kankasiya village - Dahod district
- RTRWH & recharging of wells by Saurashtra Lok Manch Trust in Rajkot district
- Check dams & Percolation ponds by Agakhan Rural Support Programme in Junagarh & Surendranagar districts
- RWH structures by Vivekanand Research & Training Institute in Kutch, Bhavnagar & Amreli districts

○ **Maharashtra –**

- Catchment treatment at Adgaon & Palaswadi - Aurangabad, Ralengaon Siddhi – Ahmednagar and Naigaon – Pune by Shri Anna Hazare

○ **Rajasthan –**

- Tarun Bharat Sangh built water harvesting structures & Johads in Alwar district
- Storage tanks in Jodhpur district by Gramin Vigyan Vikas Samiti
- Barefoot College – rainwater harvesting



FUTURE STRATEGY

Ground water augmentation through rain water harvesting techniques is one of the important management tool to increase the availability of water for various uses

- **Technical Approach**
- **Policy and Issues**



TECHNICAL APPROACH

- **Multi-disciplinary approach need to be adopted for designing rain water harvesting schemes**
- **Priority for "Over-Exploited" and "Critical" areas**
- **Micro-level studies in critical areas to draw detailed plans for ground water resource management**
- **Innovative technological alternatives should be explored, studied, documented through action research in targeted areas**
- **Research and Development Programme should be taken up to evolve cost efficient techniques for rain-water harvesting and conservation methods**

TECHNICAL APPROACH--- CONTD.

- **Regional Aquifer System Analysis should also be taken up on a larger scale**
- **Need to identify aquifers in flood plains of the rivers and other aquifer systems at depth which can be used to store water**
- **In inland salinity areas, brackish / saline water be developed to create storage space to be filled up during monsoon by accelerated recharge**
- **Integrate traditional wisdom with modern technology for rain water harvesting and recharging of ground water**



POLICY AND ISSUES

- **Role of Central, State and Local bodies is to be defined clearly in construction and maintenance of rain water harvesting structures**
- **People's participation and social acceptance is essential for success of rain water harvesting projects**
- **All the rain water harvesting techniques should reach to the Panchayat/ Municipality level**
- **Participatory association of scientists, engineers and beneficiaries**



POLICY AND ISSUES --- CONTD.

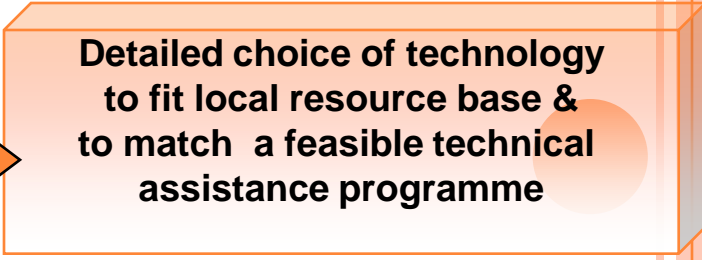
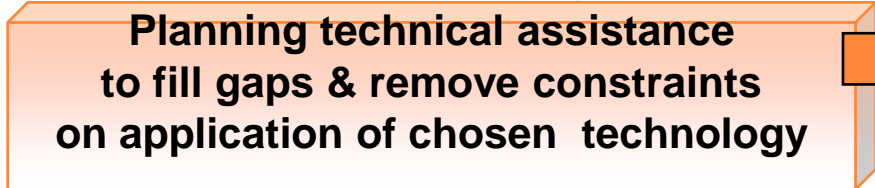
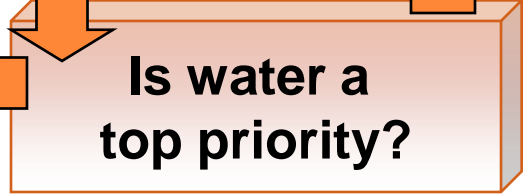
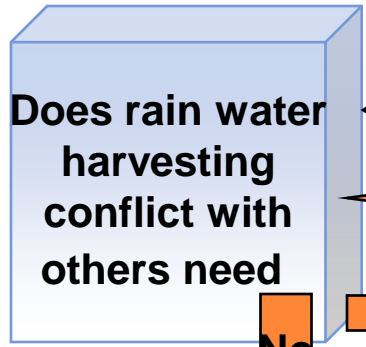
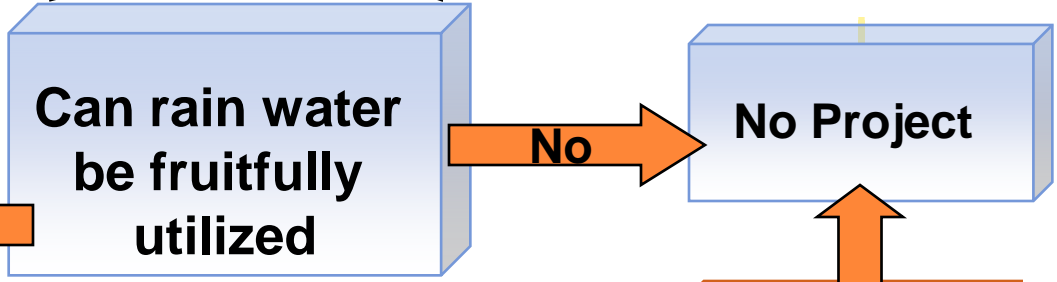
- Mechanism should be evolved so that continuous process of interaction among Central/ State Government Agencies, local bodies, NGO's, VO's and community exists for rain water harvesting
- Co-ordination between various Central and State Government Agencies, Institutions and Community in funding and implementing rain water harvesting schemes
- Stakeholders of water should be sensitized to the social contextualization of technical decisions
- Technical expertise should play a complementary role not a competitive one



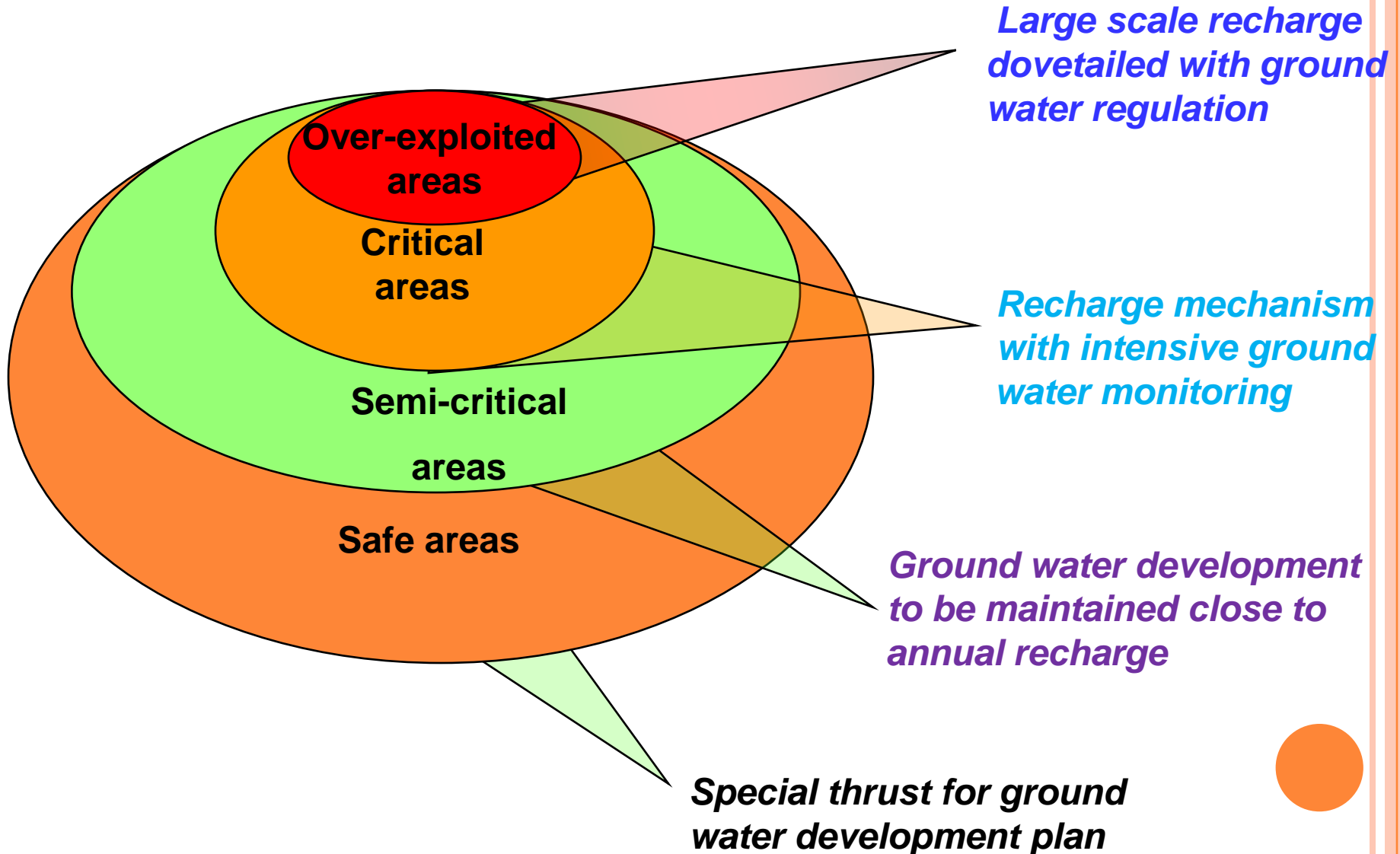
POLICY AND ISSUES --- CONTD.

- **Gender issues need to be explicitly addressed through training and awareness**
- **Techno-economic evaluation of rain water harvesting schemes should be taken up to assess the benefits**
- **Financial assistance from institutional finance agencies, including NABARD, must be set for recharge schemes and extended for the purpose**
- **A suitable pricing mechanism need to be adopted for water so as to recover the cost of rain water harvesting and management of water resources**





GROUND WATER STEWARDSHIP DESTINATION



**The Country has just begun a long voyage ...
We invite you to join us in this journey.**



THANK YOU

