# Rain Water Harvesting and Ground Water Recharge | ...

# Kurukshetra Vol. 58 No. 11 May 2010

## RAIN WATER HARVESTING AND GROUND WATER RECHARGE

Where rights and traditional water most striking have being history in India. The sufficient for today's needs in all places. In the sufficient for today's needs in all places. In sufficient for today's needs in all places. In the sufficient for today's needs in all places. In the sufficient for today's needs in all places. In the sufficient for today's needs in all places. In the sufficient for today's needs in all places. In the sufficient for today's needs in all places. In the sufficient for today's needs in all places. In the sufficient for today's needs in all places in the sufficient for today's needs in all places. In the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today's needs in all places in the sufficient for today'



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Ground water resource development in India is carried out by the Government as well as individual farmers and Industry. Constant depletion and seasonal fluctuations in the groundwater table, which is the prime source of drinking water especially in urual areas, are affecting the groundwater level productivity of agulers and also water quality is developmentation on rating,.

Apart from roofbap rainwater harvesting for providing drinking water to individual households, the collection and storage of surface flood runoffs during high ninhill can also be utilized as a supplement to the existing water supply schemes providing drinking water security during drought. Roofbap rainwater can also recharge groundwater reservoirs recharge pits, recharge tenches, recharge shaft act Sustained advocacy and capacity development of her PRIs, NGOs and the community organizations in promoting adoption of rainwater harvesting is very critical. critical.

### Case Study

Case Study The village Hamirpur in block Data of Data district, Madhya Pradesh with a population of 611, majority of whom beings to scheduled castes and schedule dribes, Jalin is hundelhand region and faces acute shortage of water and regular drought lise istuation due to erratic ninful pattern. Overall rainy days have gone down, from 100 days (740 mm average) two decess ago to an average (340 mm) of 40 rain days today.

## Local Initiative

The Village Water and Sanitation Committee (VWSC) also known as Paylal Samiti was, constituted for taking up water supply scheme for the village under Swajaldhrar programme and also collected Rs. 40,000 as community contribution but could not get necessary approvals.

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The villagers after a sories of meetings decided to take their own initiative and adopted "integrated Water Resource Management" for improving the groundwater level of the village and for successful implementation of water supply scheme in the near future. For rechanging and conservation of rainwater, a plan was made to construct rainwater-harversting structures in all houses well deepening and rechanging trench on abandoned community open wells and tubewells and construction of check dams.

They also identified a place outside the village from where soil for construction of houses and roads







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was to be dugout and taken away so as to create a number of handpumps installed upstream of the huge pond for recharging the handpumps and the checkdam. groundwater aquifer.

The Public Health Engineering Department (PHED) constructed a dyke-cum-boulder dam in the village and checkdams across the nalas in other villages that resulted in recharging a large

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recharging structures to ensure sustainability of rural drinking water sources.

Under the National Rural Drinking Water Porgramme 20 percent of the allocation has been earmarked for the Sustainability component. States will be provided 100 percent grant in aid by the Union Government for taking up water recharging structures to benefit drinking water sources and for rainwater harvesting.

## Bharat Nirman

Burarat Nirman Rural drinking water supply is one of the six components of Bharat Nirman. At the beginning of Bharat Nirman in 1/4/2005, out of 16.61 lakh rural habitations in the country, the States reported that 55,067 uncovered habitations, 3.31 lakh sibped back

Anould be considered as the first option. Substances of the ground water table, system and anould be considered as the first option. Convergence with the National Rural Employment Guarantee Scheme, Integrated the obtained by others. The habitations site based tables and the short of the ground water table, system outling the habitations are therefore dynamic. The States will table there and an annual action plans.

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The VWSC also initiated construction of rooftop rainwater-harvesting structures comprising plastirainwater-harvesting structures comprising plastic drain-pipes from roof inserted into a pit comprising sand and gravel in all the 75 households, school and anganwadi in the village. Pathit, a local NGO, gave Rs 500 to each household and the balance amount of Rs 1000 to 1200 was contributed by the beneficiaries.

For the village of Hamirpur, the journey began with an endeavor to cover all the households with minimum safe drinking water, which led to provision of adequate drinking water supply following the adoptionof'IntegratedWaterResourceManagement' and large-scale construction of rainwater recharging structures. It is a unique experiment that has yielded significant dividends.

Since the launching of the National Drinking (ater Mission in 1987-88, which was renamed Rajiv Gandhi National Drinking Water Mission, inwater harvesting has been one of the major focus reas of the Department of Drinking Water Supply.

areas of the Department of Driving Water Supply. The Department Launched a Sub-Mission on Teisentific source finding, conservation of water and recharge of aquifers', which gave major emphasis provided to all States with funding pattern of 75:25 between Government of India and State Government. A hand book on RainWater Havesting and one on Technologyand Water quality for Sustainability which includes rain water havesting was published and circulated to all the State Departments for adopting the same under Rural Water Supply Programme.

National Workshops on Sustainability of Drinking later Supply Schemes were held in May 2007 and in ne 2009 regarding different techniques of rainwater

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Of the 2,16,968 quality affected habitations, in case of 50,168 habitations potable water is being supplied through completed projects. The remaining habitations targeted under Bharat Nirman and subsequent newly identified (due to more testing) quality affected habitations are being tabled themse tackled through ongoing projects/approved projects to be started. Projects tackling water quality have long gestation periods and would not be completed by 2009. The targets have been continued in the XI Plan/Bharat Nirman Phase II and will be completed by 2011.

Rural drinking water sopping some of the six components of a barart Nirman. At the beginning 1/4/2005, out of 16:61 lah rural habitations ind 1/4/2005, out of 16:61 lah rural habitations ah rupat habitations 3.31 lahk slipped back habitations and 2.17 quality attraction of the source of the sour Apart from rooftop rainwater

