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RAIN WATER HARVESTING AND GROUND WATER RECHARGE



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 rural areas, are affecting the productivity of aquifers and also water quality is not productivity of applies.

Apart from rooftop rainwater harvesting for providing drinking water to individual households, the collection and storage of surface flood runoffs during light nitrial can also be utilized as a supplement to the existing water supply schemes providing drinking water security during drought. Booftop rainwater can also recharge groundwater reservoirs through abandoned dispwells, defunct handpumps, recharge pits, recharge terreches, recharges shafts etc. Sustained advocacy and capacity development of the PRIS, NGOs and the community organizations in promoting adoption of rainwater harvesting is very critical.

The village Hamirpur in block Data of Data district, Madhya Pradesh with a population of 611, majority of whom belong to scheduled castes and scheduled tribes, Islain is Bundelshard region and faces acute shortage of water and regular drought like situation due to erratic rainful pattern. Overall rainy days have gone down, from 100 days (740 mm average) two decades ago to an average (340 mm) of 40 rain days today.

Local Initiative

The Village Water and Sanitation Committee (VWSC), also known as PayJal 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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Written by Administrator

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rainwater-harvesting structures comprising plastic rainwater-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. Parhit, a local NGO, gave Rs 500 to each household and the balance amount of Rs 1000 to 1200 was contributed by the beneficiaries.

with an endeavor to cover all the households with minimum safe drinking water, which led to provision of adequate drinking water supply following the adoption of 'Integrated Water Resource Management' and large-scale construction of rainwater recharging structures. It is a unique experiment that has yielded

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

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

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 scaled this component of the component of the

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.

Under the National Rural Drinking Water Programme 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

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 slipped back Apart from rooftop rainwater

mill be covered by 2011.

The target of 3.31,604 slipped-back habitations has been exceeded by some states and not achieved has been exceeded by some states and not achieved with full by others. The habitations slip back due to many reasons such as sources going div, lowering of the ground water table, systems outling their lives, increase in population resulting in lower per per part availability, etc. The figures for slipped back habitations are therefore dynamic. The States will tackle these habitations are therefore dynamic. The States will tackle these habitations are therefore dynamic. The States will tackle these habitations are therefore dynamic. The States will tackle these habitations are therefore dynamic. The States will take the set of the sum of

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