

N33	Maharashtra
Title/ Name of work undertaken	Participatory groundwater management in Randullabad Village
Location	Randullabad Village, Koregaon block of Satara district, Maharashtra
Organisation/NGO/Persons responsible to undertake the work	Advanced Center for Water Resources Development and Management (ACWADAM) with the support from Arghyam Trust, Bengaluru and in collaboration with BAIF, Pune. The program was implemented through village water committee (VWSC) in partnership with gram panchayat and community.
Description	<p>Randullabad village is one of the progressive villages from western Maharashtra which is totally dependent on groundwater for fulfilling all its needs. The participatory groundwater management project was implemented in Randullabad between January 2011 and December 2013. During these three years, a detailed hydrogeological study was conducted in Randullabad. A monitoring network, which included an automatic weather station for monitoring of weather parameters, 'V' notch for monitoring run off, monthly well monitoring for selected wells to understand the change in groundwater levels, water quality monitoring to understand the quality of water was set up in the village. The monitoring of these parameters was done for three years. The community was actively involved in the whole monitoring process. Based on the data collected in Randullabad, aquifers were delineated and the storage and transmission capacity of the aquifers was assessed. This helped in developing a water balance for Randullabad for two years. All this information was shared with the community. The following key activities were undertaken in the village.</p> <p>Hydrogeological inputs for the watershed development activities: ACWADAM team conducted hydrogeological study in the village and identified locations for construction of check dams and recharge structures. Additionally, sites were identified for recharge augmentation. BAIF and Village watershed committee implemented the watershed development program on the basis of the guidelines provided by ACWADAM.</p> <p>Capacity building and sensitization of community: ACWADAM team conducted a number of trainings</p>

	<p>and sensitization activities for generating awareness about groundwater management and other water related issues.</p> <p>Aquifer based groundwater management plan: There are 3 aquifer systems in Randullabad. ACWADAM team delineated the aquifer systems, calculated the transmissivity and storativity values, prepared the groundwater balance for the three aquifers for two years. On the basis of this data, a groundwater management plan was prepared which was shared with the community.</p>
Outcome	<p>The aquifer based groundwater management plan was prepared and shared with the community. The plan included 8 protocols for the equitable, efficient and sustainable use of groundwater. The village has a complete ban on bore well drilling. This ban is still in place after almost 18 years. The village is tanker free. No water intensive crops like sugarcane or banana are grown in the village. There is significant improvement in the income of farmers due to allied activities like dairy, horticulture. The entire horticulture is under drip irrigation. Randullabad village was awarded the 'Best water conservation practices award' by IBN Lokmat in May 2016. The award was presented by the Hon'ble Chief minister of Maharashtra, Mr. Devendra Phadanavis in Mumbai.</p>
Photographs	



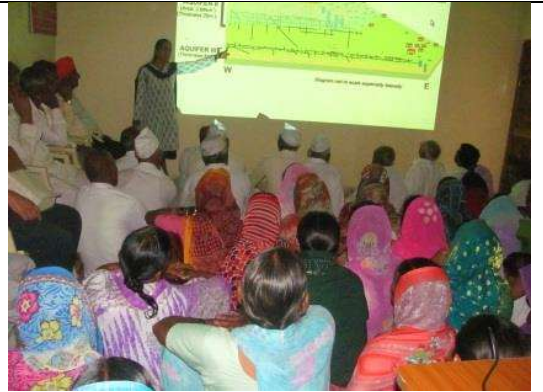
(A)



(B)



(C)



(D)

Photographs

A: Use of sprinklers is more than 60%

B: Construction of check dam on the basis of hydrogeology

C: Monitoring of wells

D: Community sensitization workshop