

# **Amrutvahini College of Engineering Sangamner**

**One Page Report of**

## **UMA Ongoing Activity 2018-2019**



**Department of Civil Engineering**

**Maharashtra, 422605**

## Content

### Ongoing Activity Details 2018-2019

| Group No. | Name of Students                                                                         | RWS/JSA/Other         | Title of Project                                                | Region                 |
|-----------|------------------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------|------------------------|
| 1         | WaghApurwa Anil<br>Nagare Harish Balu<br>Navale Anita Bajirao<br>SahaneRushikeshJanardan | RWS                   | Assessment of National Water Supply Scheme for Shahapur Village | ShahapurSinnar         |
| 2         | NawaleDattatrya R.<br>ChobeAkash S<br>Gholap Raj S<br>SonawaneRushikesh S                | Watershed Development | Rejuvenation of JAM River watershed (UMA)                       | NandurShingote, Sinnar |
| 3         | PatilSwapnil N<br>KombadeTejas S<br>DeshmukhTejas K<br>Karanjekar Monika K               | JSA                   | Third Party Assessment of JSA work at SangamnerTaluka(Sakur)    | Sakur, Sangamner       |
| 4         | JadhavSanee<br>BehatiPravin<br>Khillari Sunil<br>LoharkarVaibhav                         | RWS                   | Assessment of Rural Water Supply Scheme For Samanapur Village'' | Samanapur, Sangamner   |

**Objectives of Group One are,**

1. To enhance efficiency of regional systems planning, implementing, and monitoring of rural water supply.
2. To raise the work standards of rural water supply schemes and to improve quality of water.
3. To focus on availability of quality and permanent water supply distribution utilities in water.
4. Physical verification of water supply scheme with respect to DPR.

**Objectives of Group Second are,**

1. Harvesting maximum rainwater in the surrounding of village itself.
2. Increasing level of groundwater.
3. Increasing area under irrigation in the state - Increasing assured water for farming
4. And efficiency of water usage.
5. Guaranteeing availability of sufficient water for all in the state - Increasing water
6. Supply by resurrecting dead water supply schemes in the rural area.
7. Implementing groundwater act.
8. Creating decentralized water storages.
9. Initiating new projects to create water storage capacity.
10. Reinstating / increasing water storage capacity of existing and dysfunctional water
11. Sources (small dams / village tanks / percolation tanks / cement dams).
12. Extracting sludge from existing water sources through public participation and
13. Increasing water storage of water sources.
14. Encouraging tree plantation and planting trees.
15. Creating public concern / awareness about balanced use of water.
16. Encouraging / creating awareness about efficient utilization of water for farming.
17. Sensitizing people about water harvesting / increasing public participation.

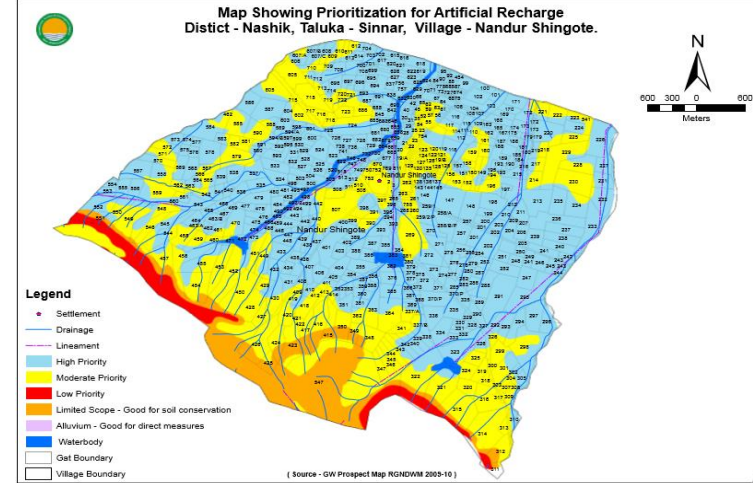
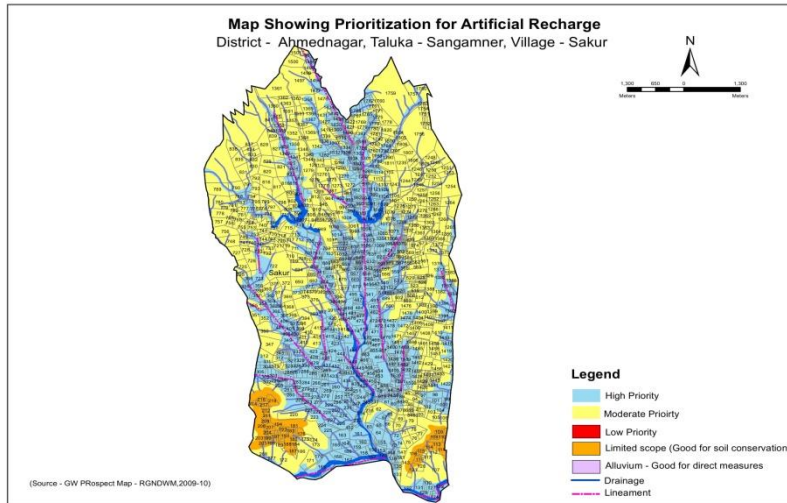
**Objectives of Group Three are,**

1. To assess Kharif protective irrigation requirements across farmlands in project area.
2. To enable preparation of village level plans which supplement existing water infrastructure and programs of GoM.
3. To assess Rabi water balance in project area and to suggest cropping patterns, water use and interventions.
4. To prepare a surface water balance status for project area.
5. To provide advisory on scope for water conservation interventions in the village.

**Objectives of Group Four are,**

1. Assessment of supporting documents and study of design of assets
2. To inspect Existing water supply scheme of samanapur village is properly working or not
3. Verification of distribution network design with help of EPANET Software
4. Ensuring source sustainability and quality of material by checking yield test report and material test report respectively
5. Tracing of rising main and distribution network for getting actual paths and lengths
6. Measuring of pump flow rate in order to know the duration for filling of ESR
7. Collection of household connection data and zone wise distribution of habitation by interviewing the Gram panchayat officials and operator
8. Measuring actual flow rates across the Distribution network
9. Ensuring whether the scheme was covered the all households and checking amount of water received by household having individual connection

## Glimpses of UMA work



Map of Prioritization for Artificial Recharge (Sakur Village) Group 3

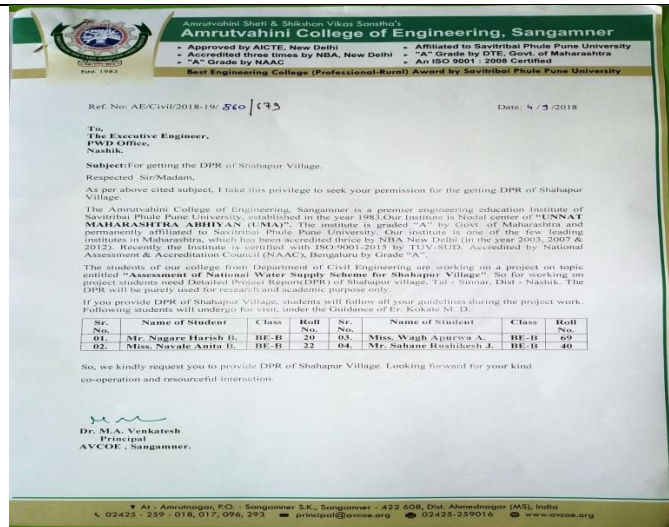


Helpings Hands From YuvaMitra NGO SinnarNashik Group 2

Map of Prioritization for Artificial Recharge (NandurShingote Village) Group 2

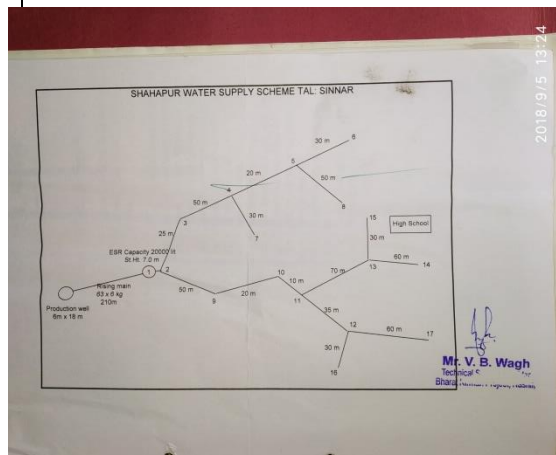


Measurement of well water table Group 2



Permission for Getting the DPR from Executive Engg. Group 1

Field Visit and Measurement of GSR Group 1



|                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Distribution Network Map Group 1                                                  | Field Visit and Measurement of ESR Group 4                                          |
|  |  |
| ESR at Samanapur Village Group 4                                                  | Field Visit and Measurement of Diameter .of Well Group 4                            |