

AY 2022-23

17.2

Relationships to Support the Goals

17.2.1 Relationships with regional NGOs and government for SDG policy

MRIIRS weblink to SDG17:

<https://mriirs.edu.in/sdg17-partnerships-for-the-goals/>

1. Relationships with regional NGOs and government for SDG policy

MRIIRS actively engages with both national government and regional non-government organizations to contribute to the development of Sustainable Development Goals (SDG) policies. This involvement spans a range of critical activities, including problem identification, policy formulation, scenario modeling to assess potential outcomes with and without interventions, monitoring and reporting on the implementation of these policies, and facilitating adaptive management.

Furthermore, the university has established strategic plan with state and national government bodies as well as regional non-government organizations to achieve the objectives associated with SDG's. These collaborations extend to grassroots monitoring, evaluation, and enabling the implementation of adaptive management practices to support SDGs.

The university's is very much emphasizing on various SDG's such as 2, 3,4,5 and 6 which pertains to No poverty, Zero hunger, Good Health and Well-being ,Gender Sensitization and Clean Water and Sanitation. Additionally, they are actively involved in projects related to Water Research, Good Health and Well-being, Sustainable Farming, addressing hunger through initiatives like "Ek Muthi Daan," Health camps and promoting Gender Equity, and more. All of these initiatives and evidence of their work are accessible to the public through the university's website.

The ISR arm of MRIIRS, Dr O P Bhalla Foundation operates with the objectives to carry forward development activities in various fields like education, sustainable development, environment protection, women empowerment and gender equality, health and wellbeing, geriatric health care, empowering weaker sections of society and reviving our rich cultural heritage. Serving the nation through efforts in inclusive growth, societal development, and diversity conservation, the students, and staff of MRIIRS have endeavored with great alacrity and commitment.

The university has collaborated with both the state and national governments to promote awareness and enhance capacity in the context of Sustainable Development Goals (SDGs). This collaborative effort aims to facilitate the development of SDG-related policies through adaptive management. In this sphere, the university has already formulated policies related to SDG 3 (Health and Well-Being), SDG 4 (Quality Education), SDG 5 (Gender Equality), and

SDG 6 (Water Conservation), and is currently in the process of developing policies for SDG 11 (Sustainable Cities and Communities), SDG 12 (Sustainable Production and Consumption), and SDG 14 (Life below Water).

Cooperation of MRIIRS with Local, Regional, National or Global Governments on Water Conservation:

MRIIRS have developed cooperation on water security at local, regional and national level:

- ✚ **Manav Rachna Centre for Advance Water Technology & Management (MRCAWTM):** <https://mriirs.edu.in/sdg06-clean-water-and-sanitation/>

Manav Rachna Centre for Advance Water Technology & Management (MRCAWTM) was established in 2017 to pursue teaching, research, consultancy and impart training programmes in hydrogeology, water resources engineering and management, water quality and collateral environment and ecology issues.

- **Accreditations and Awards**

- ✓ MRCAWTM is accredited by CGWA, GOI on 1st Oct 2021 for next 5yrs. The accreditation is valid for next five years and required to be renewed subsequently. The MRCAWTM hold accreditation for conducting 1. Impact Assessment Reports without modelling studies. 2. Hydrogeological Report for Mining projects.







- ✓ MRCAWTM was also awarded for its exemplary work in the revival of the Badhkal Lake in


Faridabad, Haryana, India and for its commitment to promote awareness, and trigger action on critical water issues at all levels, including the highest decision-making level, to facilitate the efficient conservation, protection, development, planning, management and use of water in all its dimensions on an environmentally sustainable basis for the benefit of all life on earth.

- **Major Projects undertaken: An initiative towards Sustainability**

Manav Rachna Centre for Advance Water Technology and Management, MRIIRS is actively involved in projects which target sustainable resilience. Among others MRCAWTM is currently working with two National Program and with two other industrial and community driven scientific projects. The centre is pressing hard to be involved with other such projects of national repute

A. Atal Bhujal Yojana (Atal Groundwater Mission) is to demonstrate community-led sustainable ground water management which can be taken to scale. The Atal Bhujal Yojana which is implemented in seven water stress states of India, including Haryana, is funded by **Govt. of India and World Bank**.









ATAL BHUJAL YOJANA HARYANA

अटल भुजल योजना हरियाणा

Engagement of MRIIRS as DIP for Faridabad, Rewari and Palwal district



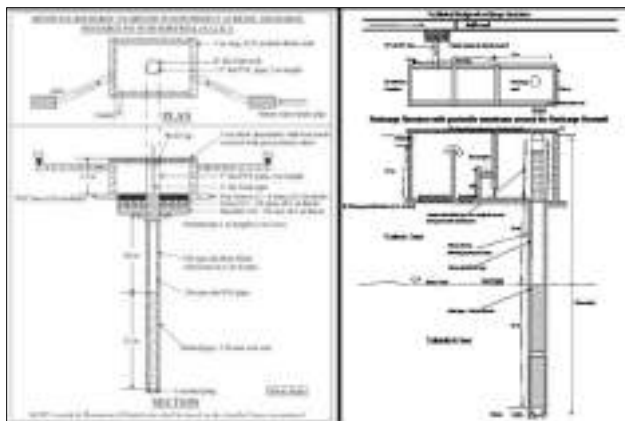
Sanction No . **ABY/2122/26w/952- 956**
 District Implementation Partner Cluster-06(Faridabad- Rewari Districts)
 Duration 48 months, Budget 290.37lakh

Sanction No . **ABY/2122/27w/957- 961**
 District Implementation Partner Cluster-07(Palwal District)
 Duration 48 months, Budget 483.96lakh

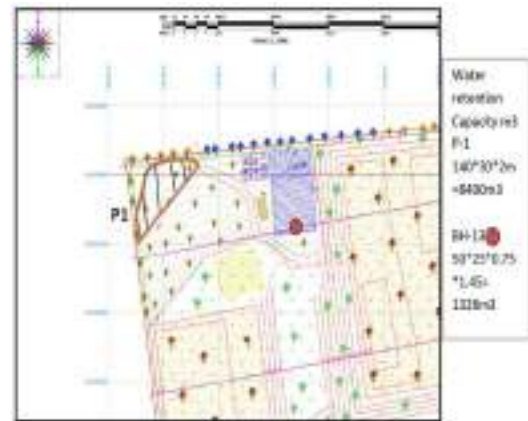
TWO PROJECTS



B. Study for Rainwater harvesting around Iron ore mine of Dholta Pahar, and Netrabandh Pahar, Sundergarh, Odissa to investigate water use and water balance. Hydrogeological investigation was conducted within core zone and its 10km radius of buffer zone for assessment of impact of dewatering of groundwater by the mine. A proposal was submitted for the water utilization and two structures (Roof top RWH and Ponds) for Rain Water Harvesting (RWH) in core zones were proposed.



Proposed Design of rooftop rain water Structure harvesting structure



Proposed location of Pond and RWH



C. Impact assessment of underground mining of Manganese Ore on GW (Ground Water) in and around Miragpur, Balaghat Madhya Pradesh, India and Panderwani, Balaghat Madhya Pradesh, India



D. Hydrogeological Investigation and Impact Assessment for Dholtapahar and Netrabandha Pahar (West) for Iron Ore Block, Sundergarh District, Odisha (2 Projects)



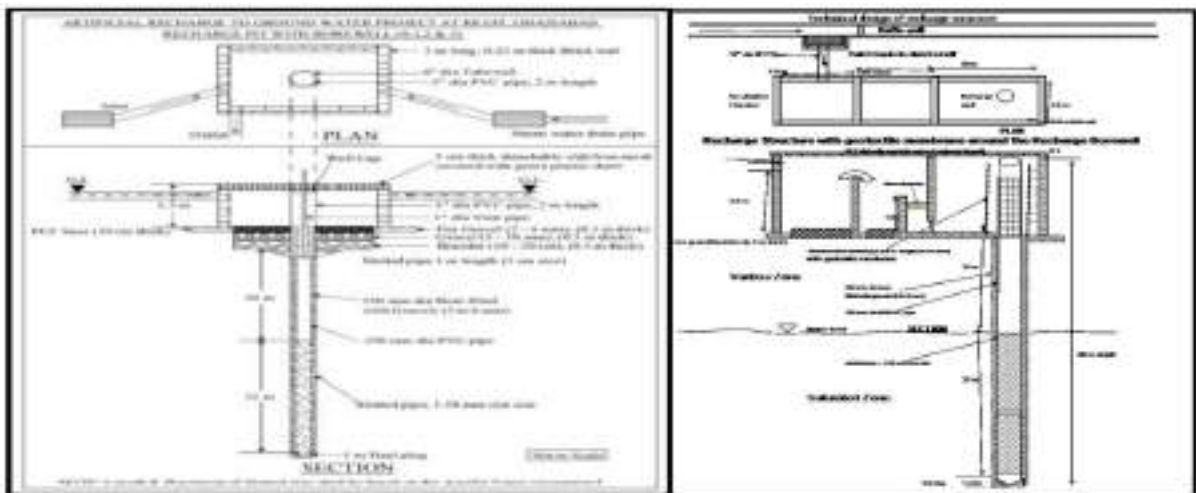
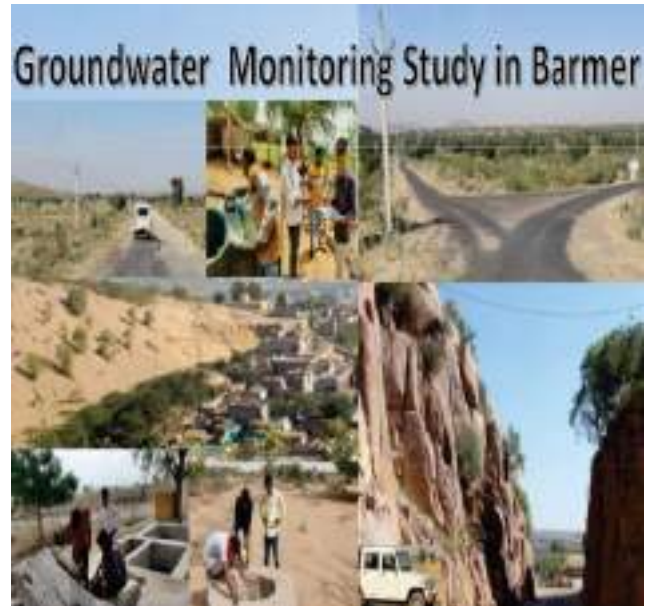
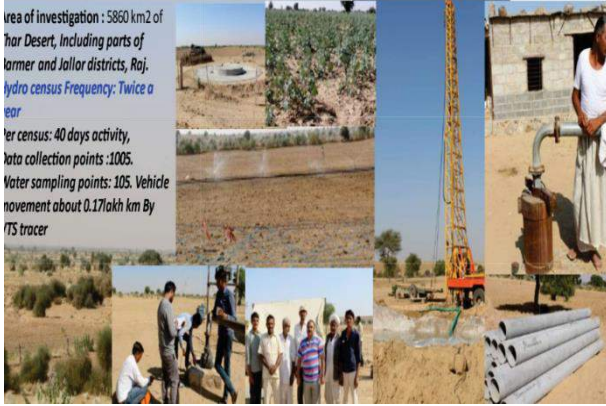
E. Jal Jeevan Mission is an ambitious project taken by the Govt. of India to ensure achieving the Sustainable Development Goal SDG-6, where functional tap connection has to be provided to each individual household of rural India. The project has been adopted by Haryana State and MRCAWTM, MRIIRS has been engaged as State Implementation Support Agency (SISA).

F. Hydrogeological surveillance of fresh water and saline water interface at **Barmer area** of Rajasthan funded by CAIRN – Vedanta Oil & Gas Pvt. Ltd. CAIRN Oil and Gas use saline water for increasing oil production. For which they withdraw huge quantity of saline water from deeper aquifers of Barmer area developed within the cenozoic faulted basin. MRCAWTM through more than 1000 observation point covering nearly 5800 km² area monitor groundwater level and quality and collect various dynamic and static well and aquifer data.

Aquifer monitoring program of Barmer area to study possible impact on fresh water zone due to developing saline aquifer for hydrocarbon extraction by CAIRN Oil and Gas Vedanta Ltd.

Project duration :3.0 Yrs , Status: Ongoing

Area of investigation : 5860 km² of Thar Desert, including parts of Jaisalmer and Jalore districts, Rajasthan.
Hydro census Frequency: Twice a year
Hydro census: 40 days activity,
Data collection points :1005.
Water sampling points: 105. Vehicle movement about 0.17 lakh km By GPS tracer



- G. Hydrogeological Investigation and Impact Assessment for Dubiyara Iron Ore Mines, Sihora Tahsil, Jabalpur District, Madhya Pradesh.** A Rain Water Harvesting system has been built and it is further proposed to install a Rooftop rainwater harvesting system to boost the local groundwater supply.

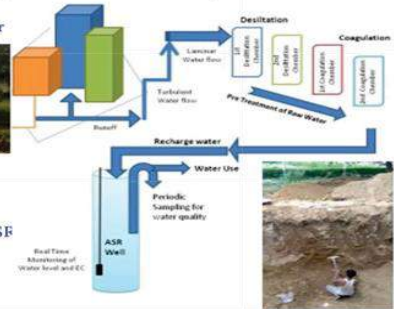


Hydrogeological Investigation and Impact Assessment for Dubiyara Iron Ore Mines, Sihora Tahsil, Jabalpur District, Madhya Pradesh

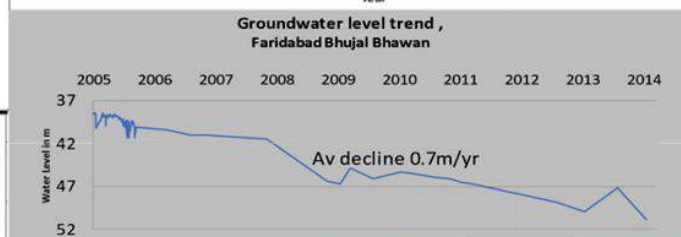
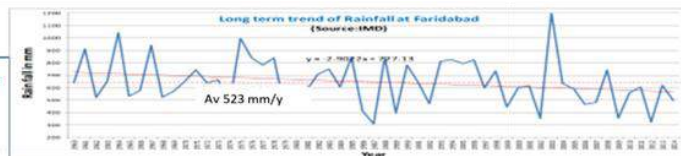
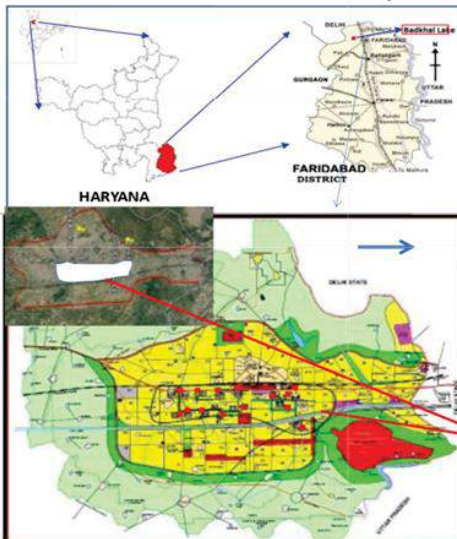
- H. Co-solving water logging and groundwater depletion** issues in parts of **Faridabad SmartCity-Project**” is for targeting the urban water management and for improving its sustainability. This **DST funded project** has been sanctioned to MRCAWTM, MRIIRS in May 2021 with 36 months duration with Rs 0.7012 crore budget. Under this investigation it is proposed to divert the urban flash flood creating water logging condition and is hampering day-to-day life during monsoon period to improve the groundwater condition within the depleted aquifer. This **aquifer storage and recovery project** of taming urban flood water is addressing two critical issues of urban hydrology to improve the sustainability.

Co-solving Water logging and Groundwater depletion issue in parts of Faridabad S using Underground Taming of Flood water for Aquifer Storage and Recover

- Topographic survey and DGPS elevation mapping of the area of interest
- Micro level hydrological and hydrogeological study for designing for UTFW during pre monsoon and monsoon period
- Surface geophysical Investigations VES & Profiling
- Study for construction of connecting drain, desiltation chambers, coagulation chamber
- Experiments for selection of suitable Iron based coagulant
- Study for Optimization of flow rate and dosing of coagulant
- Auger hole drilling and slug testing- Vadose zone study
- Drilling of bore hole and litho sampling
- Subsurface geophysical logging
- Well completion and development
- Pumping test for aquifer characterization and well efficiency test
- Collection and analysis of groundwater samples for base level data acquisition
- DWLR with EC and Temp sensor and installation
- Installation of UTFW system by connection civil construction and drilled well for ASF
- Installation of energy meter and pump
- Water sampling for analysis of regular and emerging pollutants /contaminants
- Impact assessment of UTFW



Faridabad Smart City



Faridabad Area-187Km²
 Population- 16 lakh
 Water logging area-17Km²
 Effected population~3lakh
 Present av DTW+40mbgl





Construction of Structures for Co-solving of Water Logging and Ground Water Depletion Issues in Officer's Colony, Sector 15A of Faridabad City of Haryana State of India



**Constructed Structure at Officer's Colony, Sector 15A of Faridabad
City of Haryana State of India**

I. Rainwater Harvesting in Khoh Village in Manesar, Haryana, India

MRCATM have also coordinated with Faridabad Smart City Ltd, Faridabad Municipal Corporation and Faridabad Metropolitan Development Authority to improve the sustainability and availability of water in the area for the Maruri Suzuki Foundation (MSF) under CSR activity at Khoh Village, Manesar. Accordingly, CAWTM, MRIIRS investigated the area of Khoh village appreciating the significance of Integrated Micro Watershed Management for:

- Improvement in water security, ecology & livelihood by increasing water availability.
- Data collection- Meteorological, Geological, Hydrological, hydrogeological, Remote Sensing GIS investigations.

Groundwater inventory in post monsoon & water budgeting of the village Geophysical Investigations for locating community water well site & Artificial Recharge sites

J. Feasibility of Revival of Badkhal Lake at Faridabad, Haryana, India

During a National Workshop held at Manav Rachna to address Water Conservation and Pollution, a major concern was shown on the drying up and receding water levels of the Badkhal Lake- once a major Tourist attraction of Faridabad City, Haryana. Manav Rachna has worked on the project and successfully submitted the report on Revival of Badkhal Lake at Faridabad, Haryana, India



Extension and Outreach Activities with NGO's

MRIIRS actively collaborates with government accredited bodies and non-governmental organizations (NGOs) to advance the "No Poverty" Sustainable Development Goal (SDG). These partnerships create a powerful synergy by combining the resources and expertise of the institution with the grassroots reach and specialized knowledge of NGOs and accredited bodies. These collaborations facilitate the implementation of sustainable development projects, such as skill development and educational support, in impoverished communities. By leveraging the strengths of both parties, MRIIRS and its partner NGOs and accredited bodies contribute significantly to the reduction of poverty and the empowerment of marginalized populations, ultimately working towards a more just and equitable society.

MRIIRS has joins hands with various Government accredited bodies and NGOs including All India Council of Human Rights, Liberties and Human Justice Reading Raccons Charitable Trust, Art of Living Foundation, Bhartiya Yuva Shakti Trust and Sneh asharmStudent volunteers and faculty members actively participate in these partnerships, social services, extension activities, and outreach programs focusing on SDG 1, 2, 3, 5, 6, 12, 13, and 16.

I. DONATION DRIVES

MRIIRS, in alignment with the "No Poverty" Sustainable Development Goal (SDG), consistently conducts donation drives to support underprivileged communities. These drives aim to collect essential resources like Clothing, Food, Educational materials, and other supplies for those in need.

Under the Paridaan initiative, Cloth Donation drive is conducted to collect warm clothes and blankets from the students and faculty members to be distributed among the unprivileged people. The donation drives have time and again contributed to the society in different ways even at the time of Natural Calamities like Floods.



- 🌈 **Clothes Collection Drive held on 11th November 2022 and Clothes Distribution Drive held on 23rd and 28th November 2022**



Students distributing clothes in Slum near MRIIRS

🌈 **Delhi Flood Donation Drives**

Delhi faced the worst flood in 30 years during the month of June-July 2023. MRIIRS Students and Faculty members came forward to donate towards these victims. The collections received for the Flood Victims was donated to the needy near Akshardham, Mayur Vihar and Sarai kale khan. These people are rescued from the flood affected areas and are staying in temporary arrangements.



<https://dropbhallaoundation.org/d/>

Kindness Week - Visit to Rescue Home for Boys on 12th November 2022

A visit to the rescue home was planned to address SDG 1 - No Poverty, under which clothes and food items were also donated on 12th November 2022.

In celebration of Children's Day, a group of 28 students from MRIIRS paid a visit to the rescue home for boys.



A Collage of activities conducted by the MRIIRS Students with the Children at Rescue Home

EK MUTHI DAAN- NO ONE SLEEPS HUNGRY

The Ek Mutthi Daan campaign was initiated on March 28, 2014 initiated by father of Manav Rachna, visionary late Dr. O.P. Bhalla to make his dream true that no child on the street should sleep hungry as much as possible.

On 16th September 2023, Manav Rachna International Institute of Research and Studies organized Ek Mutthi Daan: Mega Grain Donation Drive in which with diligent support from students and teachers from MRIIRS, we were able to collect 11,807 kg of dry grains from the year 2023 and donated to orphanages, old age homes, animal shelters and to District Administration (for supporting migrant labourers and needy people).



dropbhallaoundation.org/ek-mutthi-daan/

EK MUTTHI DAAN

74,000 kgs
Collected till 2021

19,500 kgs
Collected in 2022

93,498 kgs
Collected so far

Ek Mutthi Daan: No One Sleeps Hungry

No one Sleeps hungry - A Movement... RA KID BATTLE

The Ek Mutthi Daan campaign program has been shown from the life and times of Founder (Chairman of NRI), Dr. P.P. Mehta. The Ek Mutthi Daan campaign was started on March 28, 2014, Friday, Chief guest of NRI, Mr. Suresh Mehta inaugurated the campaign by donating the first handful of rice towards the Ek Mutthi Daan. Through this campaign, the foundation had urged everyone in the NRI family to donate just a handful of rice, as a humble beginning. 1000 kgs rice collected during March-May 2015 had been donated as an NRI's gift to the poor. Ever since then, the Ek Mutthi Daan initiative has been following its tradition of the NRI family to keep the noble movement going, as that's what keeps changing.

The foundation stands firm commitment to the cause of social welfare and creating the spirit of social and moral responsibility amongst the students. Through this campaign, all members of the NRI family have come together to donate for the underprivileged sections of society. Till date approx. 1130 kg rice, 170 kg wheat flour has been contributed and donated to following NRI's Peoples, Raj Mahal, Raj Foundation.

<https://dropbhallaoundation.org/ek-mutthi-daan/>

II.FREE HEALTH CAMPS

Community Health Camps are **free-for-all** check-up camps set up primarily to bring awareness among the deprived and needy population. Most low-income and marginalized people have little access to basic health facilities. Community Health Camps aim to provide a free consultation to the patients and suggest further treatment if needed. The free consultation ensures that people get the proper treatment immediately without further delays. MRIIRS organised various health camps under the department of Physiotherapy, Nutrition and Dietetics, Psychology and Dental Sciences on regular basis.

As part of the Health for All mission 29 community health camp were organized by Manav Rachna International Institute of Research and Studies in collaboration with O.P. Bhalla Foundation in year 2022-23.



Health camps – Community Outreach Programme



Health camp Announcement and awareness campaign



Nutrition counselling by Msc Nutrition and Dietetics students and faculty members



Anthropometric measurement of the participants



Measurement of Blood Pressure by Physiotherapy team



Treatment provided by physiotherapy expert



Assessment by Dental team in health camp



Counselling by Psychology experts



O.P.Bhalla Foundation team



Manav Rachna International Institute of Research and Studies, Faridabad