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IRM/CSR/2020

02.09.2020

The Addl. Secy. & Mission Director
National Water Mission
Deptt. Of Water Resources,
River Development & Ganga Rejuvenation
Ministry of Jal Shakti
2nd Floor, Block No.III
CGO Complex, Lodhi Road
NEW DELHI-110003

Kind Attn : Shri. G Ashok Kumar, IAS

Sub : Rain Water Harvesting Structures – Reg.

Ref : 1. E-mail dated 18.08.2020
2. DO Letter No. M 65022/01/2020-NWM/1388 dated 27.07.2020

We are in receipt of the DO Letter No. M 65022/01/2020-NWM/1388 dated 27.07.2020, on the above subject.

2. In this regard, the report on the Rain Water Harvesting and Artificial Recharge measures adopted at BEML Complexes at KGF, Bangalore, Mysore and Palakkad is enclosed.

3. This is for kind information please.

Thanking You,

Yours Sincerely,
For BEML Limited.,



(Debi Prasad Satpathy)
Chief General Manager(HR)

RAIN WATER HARVESTING AT BEML LIMITED

Over the years rising populations, growing industrialization, and expanding agriculture have pushed up the demand for water. Efforts have been made to collect water by building dams and reservoirs and digging wells. Water conservation has become the need of the day.

In the forests, water seeps gently into the ground as vegetation breaks the fall. This groundwater in turn feeds wells, lakes, and rivers. Protecting forests means protecting water 'catchments'. In urban areas, the construction of houses, footpaths and roads has left little exposed earth for water to soak in.

The artificial recharging are becoming very important issues. It is essential to stop the decline in groundwater levels, arrest sea-water ingress, prevent sea-water from moving landward, and conserve surface water run-off during the rainy season.

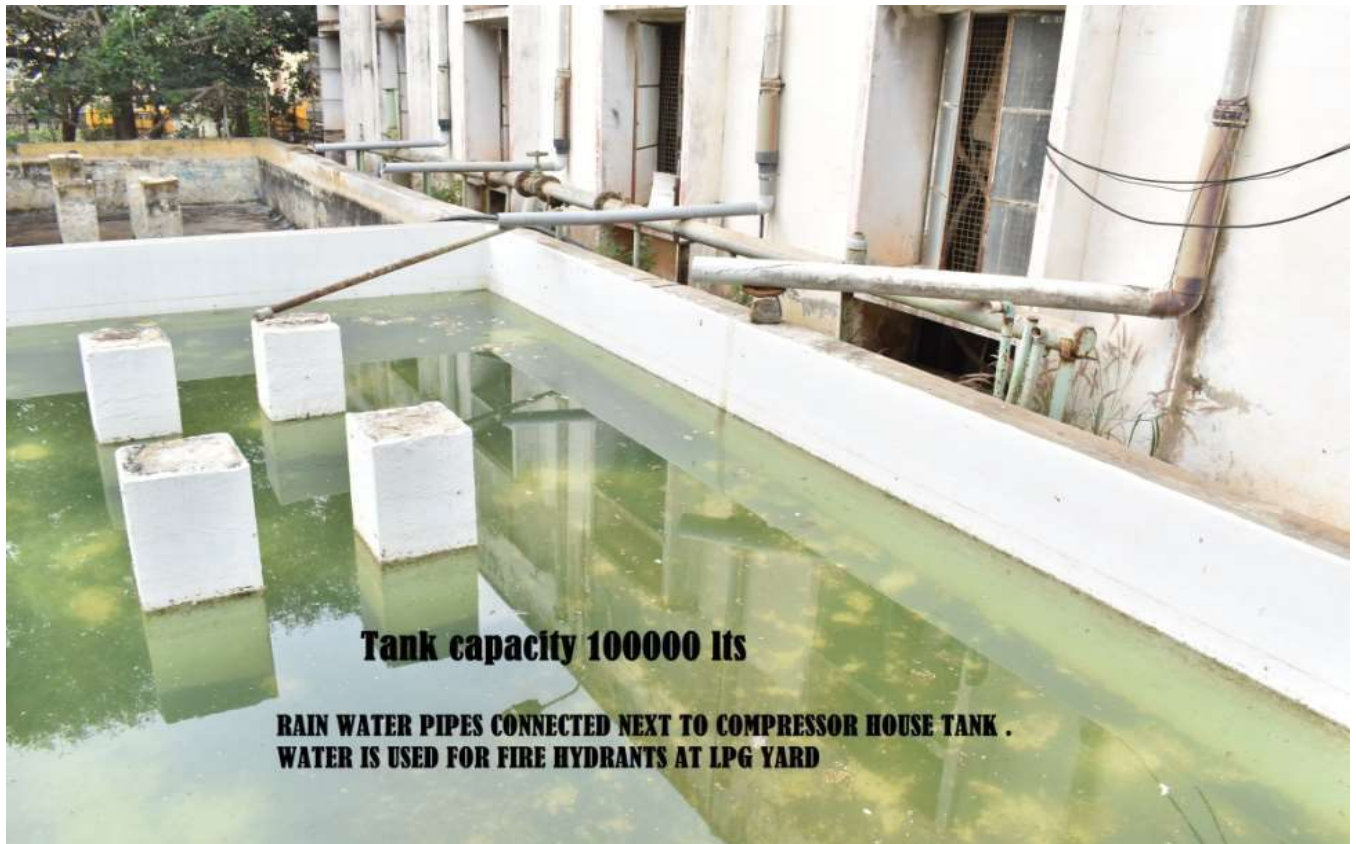
The Company in its endeavor towards conservation of Water and Green initiative, has adopted Rain Water Harvesting Systems (RWH) at all its Divisions / Complexes and Offices.

At BEML KGF Complex, Rain Water Harvesting Systems has been adopted at the following places:

- a) Rooftop water collection at Machine Shop I & II has the capacity of 40000 Litres each and the water collected is used for coolant Emulsion preparation



- b) At the Old Compressor House in the factory, the Rain water Collection Tank has the capacity of 100000 Litres and the water collected is used for Fire Hydrants in the LPG Yard



- c) A Tank with 15 KL capacity is installed at Transmission Shop I and the water collected is utilized for the requirement at Transmission Shop.



d) Sump Tank has been installed at the test house building for collection of Rain water.



e) In BEML Townships and BEML Schools Borewell charging, Ground Water Charging Rain Water Systems has been installed and the water is used for the various purposes as required.





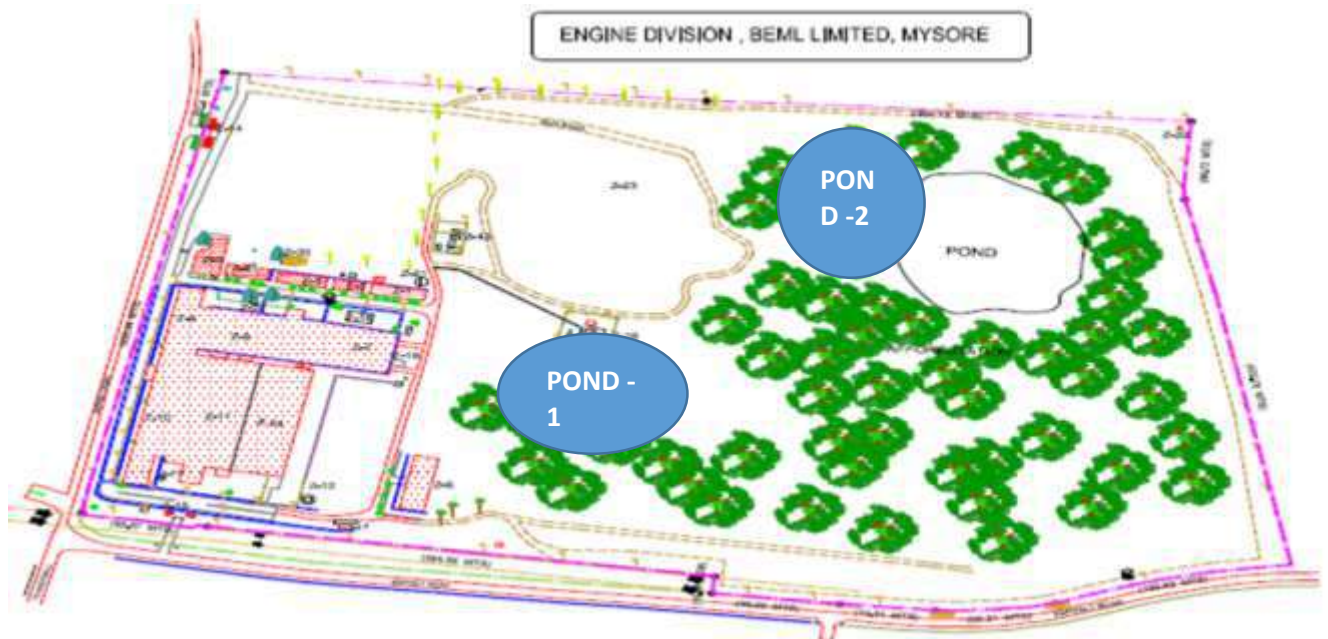
f) In addition to the above, Check Dams has been constructed at H&P, SBM, Pump House and R&D FOR Rain water Harvesting.



- g) The Company has also undertaken rejuvenation lakes and ponds in and around the factory premises at KGF Complex. Bethamangala & Ramasagar Lakes, Kodi Kannur Village Pond in Kolar has been de-silted and rank vegetation were removed by using BEML equipment & required manpower, to upgrade rainwater storage of the lake, which is the main source of drinking water to nearby villages.



At Mysore Complex, 4 Rainwater Harvesting systems has been adopted in factory hangers and shops. 42 Nos in the office buildings and 233 Nos. in the BEML Townships. The storm water drains and the runoff water on the road surfaces are led to the artificial pond created at the strategic locations as per natural gradient available.



At Palakkad Complex, two tanks have been constructed with a water storage capacity of 210KL (Tank-1) & 475KL (Tank-2). The facility is made by diverting the rain water from storm water drain to two rain water storage tanks. Tank-1 is used for ground water recharging. At present water stored in Tank-2 is used for filling of water in test sump. The possibility of extending the utilization of storage water in Tank-2 for toilet cleaning by installing necessary filtering system is being explored.



At BEML Bangalore Complex, seven buildings Viz., Telephone Exchange Building, Technical Buildings, Purchase Building, HR / PR Building, Bills Payable Building and R&D Buildings are equipped with Rain Water System. The Rain water thus collected is utilized inside the factory.



