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Besides, the CPHEEO implements AUWSP for small towns (scrutinizing/approving the schemes received from State Departments from techno-economic angle), solid waste management in 10 airfield towns, sponsors research studies, organises training courses for the in-service engineers working in the water supply and sanitation sector. It has developed computer software for design of water supply distribution networks, sewerage networks, economical size of pumping main & distributed them to all the States & ULBs for extensive use. To its credit, it has prepared and published the following Manuals, which are technical guidebooks for the help of field engineers:

1. Manual on Water Supply & Treatment, Third Edition, Revised-updated, May 1999.
2. Manual on Sewerage & Sewerage Treatment, Second Edition, 1993.
3. Manual on Municipal Solid Waste Management, 2000.

Greater Shillong Water Supply Project – 7.5 MGD Water Treatment Plant

CLARIFLOCCULATOR: Water from the flash mixer flows through 600 mm size central shaft of the clarifier and enters the flocculating zone 15 m dia, 5 m effective depth through four openings in the shaft. In the flocculator, water is stirred by three sets of paddles. Then the water passes to the clarifier of size 37 m dia and 4 m deep. The settled water from the clarifier passes to the battery of 6 nos. of rapid gravity filters.

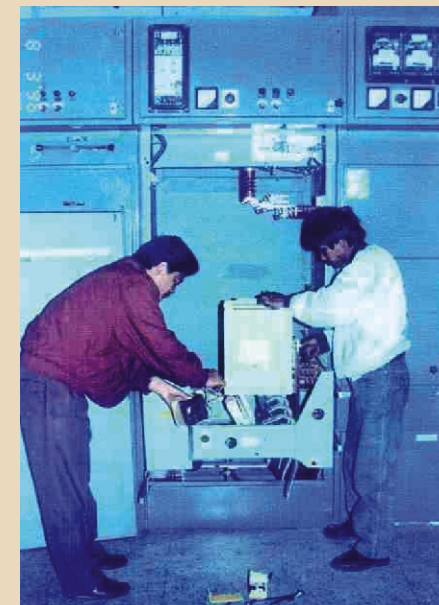


↑ Control soles for 6 nos. rapid sand filters. The 7.5 MGD water treatment plant at Mawphlang is one of its kinds in the North East to be installed with pneumatic operation.

Battery of 6 nos. BHR 35-30° 4 stage self water lubricated pumps installed in the intake pumping station. Each pump has a transmission line of 38 m. →



↑ RAW WATER CHANNEL: Raw water through the inlet channel is received in inlet chamber. The rate of flow of raw water is measured by flow meter. Alum solution from the constant dosing tank flows directly through a taper needle valve at preset dosage, which adjusts itself automatically to any change in the flow rate of water. The raw water then enters the flash mixer where the coagulant is added and rapidly mixed.



← Maintenance of the HT motor control centre in progress. The electric motors installed are directly fed with a voltage of 6.6 Kv.