



BHEL, BHOPAL

TXM DIVISION

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SCOPE OF WORK

REV. 00

NIT No. : TPTN/TXM/ASSY/1920/ETP/01A Dt: 17.06.2019

Scope of Work: operation of ETP plant for TXM division

Quantity: To deploy 1 operator (8 hourly basis including supervision) along with required consumables and testing of 2 nos. treated & untreated water samples fortnightly.

“ **Scope of work**” involved on day to day basis for works contract for operation of ETP plant of rated capacity 5 KL/Day in TXM division.

1. To operate the ETP plant using existing facilities so that the final effluent parameters are within limit of MPPCB.
2. Deputation of trained operator for successful day to day running of the plant and its supervision.
No. of operator(skilled) required (8 hourly basis) = 1 no.
The operator shall be experienced in
 - a) Safe handling the consumable chemicals
 - b) Operation of the plant
 - c) Minor maintenance of the plant.
 - d) Spot testing of pH/TDS, if possible
 - e) Collection of samples.
3. Operator shall be capable of filling log-book on day to day basis incorporating the following information-
 - a) Assistance to maintenance and repair work done.
 - b) Quantity of effluents treated per day.
 - c) Chemicals used per day.
 - d) End result of treated water based on both spot testing and final analysis.
 - e) The log book shall be verified by section supervisor/authorized representative.
Log book shall be presentable for audit purpose when MPPCB inspector visits for verification.
4. All necessary consumable chemicals shall be provided by the contractor.
5. All necessary PPE's for chemical handling (Safety Helmets, Safety Shoes, Safety goggle, Hand gloves, Chemical cartridge respirator etc.) shall be provided by the contractor to his employee.
6. Testing in detail shall be done fortnightly for both waste water and treated water and record shall be maintained in file and log book. In addition to testing at our TSD on random basis for limited 3 parameters (pH, TDS, TSS) all six parameters (pH, TDS, TSS, BOD, COD, O&G) shall be arranged by contractor to

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be analysed in a reputed NABL approved laboratory with periodicity as mentioned above.

7. As per norms, following parameters are to be monitored with acceptance levels after effluent treatment/neutralization of treated water as mentioned below:

- i. pH : 6.5-7.5
- ii. BOD : <10 mg/litre
- iii. COD : <75 mg/litre
- iv. Suspended Solids (SS) : Nil