

SCOPE OF WORK & WORK SPECIFICATION:

WORK : CONDUCTION OF ENVIRONMENTAL MONITORING

Contractor shall undertake this work as detailed in :

- 1.** Annexure – 1 : Schedule of Quantities
- 2.** Annexure – 2 : General Terms and Conditions
- 3.** Annexure – 3 : Price Bid

Contractor shall submit Environment Test Reports to UPPCB twice in a year and shall obtain:

- (i) Water Consent
- (ii) Air consent .

Detail parameters for Test and TLV to be furnished also in front of measured readings, along with limit values and Reference Standard against which measurements are taken.:

STANDARD REFERENCE : LATEST ENVIRONMENT (PROTECTION) ACT 1986 , LATEST NAAQS, ISO 14001:2015

Boiler & DG (Stack Emission)

- A- Flue Gas Temp. Degree Cells.
- B- Velocity M/Sec.
- C- Concentration of SPM/ in Mg/ Nm³
- D- Concentration of SO₂ in ug/M³
- E- Concentration of NO_x in ug/M³
- F- Concentration of Carbon Mono Oxide
- G- Hydrocarbon
- H- CO₂ %
- I- O₂%
- J- CO%
- K- NO%

Ambient Air Quality & Work Place Monitoring : (Reference Standard - NAAQS)

- A-Concentration of SPM/ in Mg/ Nm³
- B-Concentration of SO₂ in ug/ M³
- C-Concentration of NO_x in ug/ M³
- D-Concentration of Carbon Mono Oxide
- E- Repairable particulate matter less than 10 and less than 2.5 um, PM₁₀ & PM_{2.5}
- F- Lead (PB)
- G- Ozone
- H- Ammonia
- I ó Benzene
- J ó Benzo(a)Pyrene (BaP) ó Particulate phase only.
- K - Arsenic
- L ó Nickel í í í í í í í í í ..(Plus any other parameter as per latest Standard)

Factory and Township Oxidation Discharge :

- A- Ph
- B- Total suspended solids
- C- Total dissolved solids
- D- BOD ó 5days, AT 20 degree Celsius
- E- COD
- F- Oil and grease

- G- Chlorides Cl
- H- Sulphate as SO₄
- I- Fluoride as F
- J- Total phosphorous
- K- Total Kjeldahl Nitrogen as N
- L- Chromium Hexavalent
- M- Iron
- N- Copper
- O- Zinc
- P- Cadmium í í í í í í í í í í .(Plus any other parameter as per Water Act)

Noise Level in (db) :

Intensity of Light :

Measured in lux The monitoring of noise level of all locations shall be made. (Where required by BHEL night time measurements also to be taken).

Fiber Glass Dust :

Repairable in mg/ M³

M.S. Welding Fumes :

1. Fe in mg/ M³
2. Mn in Mg/ M³
3. MnO in Mg/ M³. Fe₂O₃ in Mg/M³
5. Total fumes in mg/ M³

Soldering Fumes During Soldering On Copper Or Tinning Process On Copper :

1. Total fumes in mg/ M³
2. Lead in mg/ M³
3. Copper oxide in mg/ M³
4. Cu in mg/ M³
5. Chlorides in mg/ M³

Vacuum Pump Exhaust Fume :

1. Carbon mono oxide concentration
2. Oil fumes concentration
3. CO₂
4. Solvent

Saw Dust (Wooden) :

Respirable in mg/ M³

Coal Dust :

Respirable in mg/ M³

Drinking Water :

As per Water Act (All 35 parameters at every monitoring cycle)

MANAGER (HSE & OHSAS)