

## **PART – B**

### **ANNEXURE - 1**

#### **NAME OF WORK : STACKS & AMBIENT AIR QUALITY MONITORING**

<b>SL. NO.</b>	<b>DESCRIPTION</b>	<b>PARAMETERS</b>	<b>UNIT PRICE PER SAMPLE / LOCATION IN Rs.</b>	<b>Applicable taxes</b>
1.	STACK	<ul style="list-style-type: none"><li>• SPM</li></ul>		
2.	STACK	<ul style="list-style-type: none"><li>• SO<sub>2</sub></li></ul>		
3.	*AMBIENT AIR QUALITY ( <b>AAQ</b> ) (24 HOURS)	<ul style="list-style-type: none"><li>• Sulphur dioxide (SO<sub>2</sub>)</li><li>• Nitrogen dioxide (NO<sub>2</sub>)</li><li>• Particulate Matter (less than 10 microns) (PM<sub>10</sub>)</li><li>• Particulate Matter (less than 2.5 microns) (PM<sub>2.5</sub>)</li><li>• Ozone (O<sub>3</sub>)</li><li>• Lead (Pb))</li><li>• Carbon Monoxide (CO)</li><li>• Ammonia (NH<sub>3</sub>)</li><li>• Benzene (C<sub>6</sub>H<sub>6</sub>)</li><li>• Benzo(a) pyrene (BaP)</li><li>• Arsenic (As)</li><li>• Nickel (Ni)</li></ul>		

***\*Ambient Air Quality to be quoted for all 12 parameters as one sample***

***Taxes if any may be quoted separately at the space provided. Otherwise the rate quoted will be consider inclusive of all taxes***

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SIGNATURE OF BIDDER

NAME :

ADDRESS WITH SEAL:

**PART - 'B'**

**ANNEXURE - 2**  
**Schedule for test**

Sub:Testing potable water (physical, chemical and biological), Effluent, sewage, and sludge samples as per prescribed parameters.

Sl. No.	Discription	Unit	Quantity	Schedule	Rate per sample	Taxes
1	Testing treated and untreated trade effluent for the following parameters including collecting sample from factory premises. Test to be carried out as per KSPCB norms as given below:  (i) Colour and odour (ii) Suspended solids mg/l max (200) (iii) pH Value (5.5 to 9) (iv) Oil & Grease, mg/l Max (10) (v) Ammonical Nitrogen (as N) mg/l, Max (50) (vi) Bio - Chemical Oxygen Demand, (3 days at 27°C) mg/l, Max (100) (vii) Lead (as Pb), mg/l, Max (1) (viii) Hexavalent Chromium (as Cr <sup>+6</sup> ) mg/l, Max (2) (ix) Copper (as Cu) mg/l, Max (3) (x) Total Chromium (as Cr), mg/l, Max (2) (xi) Zinc (as Zn) mg/l, Max (15) (xii) Nickel (as Ni) mg/l, Max (3) (xiii) Fluoride (as F) mg/l, Max (15) (xiv) Manganese (as Mn), mg/l, Max (2) (xv) Iron (as Fe) mg/l, Max (3)	Sample	24	Monthly		
2	Testing Sewage discharge for following parameters including collecting sample from factory premises . Tests to be carried out as per KSPCB norms as follows: 1. Suspended solids, 2. Oil & grease, 3. Ammonical Nitrogen, 4. BOD in 3 days at 27°C, 5. Ph value, 6. Iron, 7. Copper, 8. Manganese, 9. Fluoride, 10. Phenolic compounds, 11. Mercury,12. Cadmium,13. Arsanic,14. Cyanide, 14. Lead,15. Zinc, 16. Hexavalent Chromium,17. Total chromium, 18. Selenium, 19. Magnesium, 20. Nickal, 21. Vanadium, 22. Bio- assay test.  (i) Colour and odour (ii) Suspended solids mg/l max (200) (iii) pH Value (5.5 to 9) (iv) Oil & Grease, mg/l Max (10) (v) Ammonical Nitrogen (as N) mg/l, Max (50) (vi) Bio - Chemical Oxygen Demand, (3 days at 27°C) mg/l, Max (100) (vii) Lead (as Pb), mg/l, Max (1) (viii) Hexavalent Chromium (as Cr <sup>+6</sup> ) mg/l, Max (2) (ix) Copper (as Cu) mg/l, Max (3) (x) Total Chromium (as Cr), mg/l, Max (2) (xi) Zinc (as Zn) mg/l, Max (15) (xii) Nickel (as Ni) mg/l, Max (3) (xiii) Fluoride (as F) mg/l, Max (15) (xiv) Manganese (as Mn), mg/l, Max (2) (xv) Iron (as Fe) mg/l, Max (3)	Sample	2	Every Six Month (April & October)		
3	Testing SLUDGE for the following Heavy metals including collecting sample from factory premises .1. CHROMIUM, 2. LEAD, 3. ZINC, 4. CYANIDE, 6. CADMIUM, 7. ARSANIC,8. MERCURY,9. HEXAVALENT CHROMIUM.	Sample	1	Once in a Year (May month)		
4	Testing BWSSB water for potability as per IS 10500 (test based on IS3025 APHA-1622) for the following parameters including collecting sample from factory premises . 1. COLOUR, 2. ODOUR, 3. TASTE, 4.TURBIDITY, 5.Ph value,6. Total Hardness as CaCO <sub>3</sub> , 7. Iron, 8. Chloride, 9. Residual free chlorine, 10. Total dissolved solids, 11. Calcium, 12. Copper, 13. Manganese, 14. Sulphate, 15. Nitrate, 16. Fluoride, 17. Phenolic compounds, 18. Mercury,19. Cadmium. 20. Arsanic,21. Cyanide,22. Lead,23. Zinc,24. Chromium,25. Alkalinity,26. Aluminium,27. Boron, 28 Magnesium.	Sample	12	Monthly		
5	Testing BOREWELL water for potability as per parameters laid by IS 10500 (test based on IS3025 - APHA - 1622) for the following items including collecting sample from factory premises. 1. COLOUR, 2. ODOUR, 3. TASTE, 4. TURBIDITY, 5. Ph value, 6. Total hardness as CaCO <sub>3</sub> , 7. Iron, 8. Chloride, 9. Residual free chlorine, 10. Total dissolved solids, 11. Calcium, 12. Copper, 13. Manganese, 14. Sulphate, 15. Nitrate, 16. Fluoride, 17. Phenolic compounds, 18. Mercury,19. Cadmium. 20. Arsanic, 21. Cyanide, 22. Lead, 23. Zinc, 24. Chromium, 25. Alkalinity, 26. Aluminium, 27. Boron, 28. Magnesium.	Sample	12	Monthly		
6	Testing BOREWELL/BWSSB water for potability as per IS 3025-APHA for Biological parameters for following items and including collecting sample from factory premises. 1.MPN Coliform Bacteria per 100ml,2.FECAL Coliform Bacteria per 100ml,3.F Coli Coliform Bacteria per 100ml, BOD.	Sample	4	Every Six Month (April & October)		

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