



STATE POLLUTION CONTROL BOARD, ORISSA

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII,
Bhubaneswar – 751 012, Orissa

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NOTICE

No. _____

Dt. _____

NOTICE FOR EMPANELMENT OF CONSULTANT

State Pollution Control Board, Orissa invites applications from the consultant working in the field of environment for empanelment. The firm fulfill the following criteria may apply to SPCB for empanelment in the prescribed format. The applications will be processed twice in a year (May & October). The validity of empanelment period will be 3 years from the date of issue of the letter.

1. The CPCB guidelines (publication vide Series LSTS9/1994-95 January 1996) regarding categorization of laboratory, i.e., A, B & C will be considered as the basis for categorization of consultant.
2. The firm should apply in the prescribed format which is available in the reception counter of SPCB, Bhubaneswar. The cost of form is Rs. 250/- by cash and Rs. 300/- by D.D. drawn in favour of Member Secretary, State Pollution Control Board, Orissa for postal delivery.
3. The firms, which do not possess laboratory facilities of their own shall not be considered for empanelment.
4. After thoroughly examining the facilities available for monitoring and other aspects such as ability expertise, infrastructure etc. shall classify the agency into the following 3 categories.

Category

Commensurating Activities

- | | |
|---|---|
| A | Shall be capable of monitoring of stack emission, ambient air quality, water/wastewater and their analysis for all parameters, noise monitoring as per Annexure 1 (A). Preparation of Environmental Audit Report, EIA studies, safety reports, carrying capacity study, Regional Environmental Management Plans, Env. Surveys. |
| B | Shall be capable of monitoring, stack emission, ambient air quality, water/wastewater analysis for specific parameters in addition to all conventional parameters, bacteriological analysis and noise monitoring as Annexure 1(B). Also the agency shall be capable of conducting rapid EIA and prepare Environmental statements. |
| C | Shall be capable of monitoring, stack emission, ambient air quality and water/wastewater as Annexure 1(C). |

5. The firms with their eligibility category recommended for empanelment shall be charged a registration fees as applicable to the category which is given below. After receipt of the fees a certificate of registered / empanelled of consultant will be issue to the firm.

Category

Fees (Rs.)

A	Rs. 25,000/-
B	Rs. 15,000/-
C	Rs. 10,000/-

Approved By,

MEMBER SECRETARY

APPLICATION FORM FOR EMPANELMENT
OF CONSULTANTS WITH
STATE POLLUTION CONTROL BOARD, ORISSA

Document No. :

Cost of Document : Rs. 250/-



STATE POLLUTION CONTROL BOARD, ORISSA
A/118, Nilakantha Nagar, Unit – VIII,
Bhubaneswar – 751 012

**PROFORMA FOR EMPANELMENT OF CONSULTANTS WITH
STATE POLLUTION CONTROL BOARD, ORISSA**

1. Name of the organization

2. Address

(a) Local _____

(b) Head Office _____

Phone _____ FAX _____

E-mail _____ Website _____

3. Whether applied for Fresh _____

Renewal (a) Last Valid Period _____

(b) Change of Category _____

4. a. Year of Establishment _____

b. Registered Under _____ & Regn. No. _____

5. Type of Organisation (please specify):

Government

Private

Autonomous

Public Sector

Any Other

6. Head of the organization

Name _____ Designation _____

7. Laboratory In- charge

Name _____ Designation _____

8. Name of the organization from which the consultancy has already been recognized/
empanelled

9. Whether the Laboratory is recognized as an Environmental Laboratory under E(P) Act, 1986 ? If Yes, give the period of Validity .
10. Whether the Laboratory is accredited by NABL ? If Yes, give the period of Validity . and area of Testing.
11. Which of the following type of analytical works are being carried out in the laboratory (Please Specify):
- (A) Tests for Water and Wastewater
- i. Physical
 - ii. Chemical
 - iii. Radioactive
 - iv. Bacteriological
 - v. Toxicological
- (B) Tests for Ambient air/ Exhaust gases
- i. Ambient Air/ Fugitive Emissions
 - ii. Micro-Meteorological
 - iii. Source Emission
 - iv. Vehicular Emission
 - v. Toxic and Hazardous gases
 - vi. Noise
- (C) Tests for Soil and hazardous waste
12. Mark the parameters given in Annexure "A" which can be analysed in the laboratory.
13. Mark the equipment/ Instrument given in Annexure "B" which are available in the laboratory.
14. Please enclose a list of personnel working in the laboratory with their names, designation, qualifications and experience.

15. Which of the methods given below are being followed for the analytical work (Please specify)

a. Water and Waste water analysis

i. APHA (ii) EPA
 iii. ISI (iv) Any other

b. Air pollution Monitoring and analysis

(i) APHA (ii) EPA
 (iii) ISI (iv) Any other

16. Enclose a brief information regarding library facilities available with the laboratory, R & D activities carried out or being carried out, scope of expansion, other field of interest etc.

17. Provide a map showing a layout of the existing laboratory and future expansion plans, if any.

18. Experience in conducting work in the field of environmental management and related areas (separate sheet may be enclosed)

Sl. No.	Activities performed during last two years	Total Numbers	Title
i.	EIA / EMP		
ii.	Environmental Statement		
iii.	Safety Report		
iv.	Regional Environmental Management Plan (REMP)		
v.	Carrying Capacity		
vi.	Other works related to Environment		

19. Category to which Empanelment is sought (A/B/C) :

**Authorised Signatory
With seal and date**

PARAMETERS ANALYSED

WATER ANALYSIS

Sl. No.	Parameters
Physical Parameters	
1.	Colour
2.	Conductivity
3.	pH
4.	Suspended Solids
5.	Suspended Volatile Solids
6.	Settleable Solids
7.	Sludge Volume Index
8.	Salinity
9.	Total Solids
10.	Total Volatile Solids
11.	Temperature
12.	Turbidity
13.	Velocity of flows
Chemical Parameters	
14.	Acidity
15.	Alkalinity
16.	Ammonical Nitrogen
17.	Ammonia Free
18.	Arsenic
19.	Aluminium
20.	Biochemical Oxygen Demand
21.	Boron
22.	Barium
23.	Bromide
24.	Chloride
25.	Carbon Dioxide
26.	Chlorine Demand
27.	Chlorine Residual
28.	Cyanide
29.	Chemical oxygen Demand
30.	Cadmium
31.	Calcium
32.	Chromium
33.	Copper
34.	Dissolved oxygen
35.	Fluoride
36.	Hardness (Total and Calcium)
37.	Hydrocarbons
38.	Iron
39.	Iodide (Traces
40.	Kjeldahl Nitrogen (Total)
41.	Lignin
42.	Lead
43.	Magnesium
44.	Manganese
45.	Manganese

46.	Mercury
47.	Nickel
48.	Nitrite Nitrogen
49.	Nitrate Nitrogen
50.	Oil and Grease
51.	Potassium
52.	Phenols
53.	Pesticides (Organo Chlorine and Organo Phosphorous)
54.	Phosphate
55.	Selenium
56.	Sulphate
57.	Sulphide
58.	Sulphite
59.	Silica
60.	Silver
61.	Tin
62.	Urea Nitrogen
63.	Vanadium
64.	Zinc
Microbiological Parameters	
65.	Faecal Strep Cocci
66.	Faecal Coliform Organism (MPN)
67.	Pathogens
68.	Saprophytic Identification
69.	Total Plate Count
70.	Total Coliform Organisms (MPN)
Biological Parameters	
71.	Benthic Organism Count
72.	Chlorophyll Estimation
73.	Estimation of various diversity indices
74.	Microphytic identification
75.	Planktonic Count
76.	Primary Productivity
Bioassay of Toxic Pollutants	
77.	Bio-accumulation Bio-magnification & Bio- transformation studies
78.	Estimation of the effect at tissue level
79.	Estimation of EC 50 on fish or other organisms like Daphnia, Algae etc.
80.	Estimation of LC 50 on fish
Air Analysis (Ambient Air Quality Monitoring Parameters)	
81.	Acid Mist
82.	Ammonia
83.	Chlorine
84.	Fluoride
85.	Hydrocarbons
86.	Lead
87.	Ozone
88.	Oxides of Nitrogen (NO, NO ₂ , NO _x)
89.	Sulphur dioxide
90.	Suspended Particulate Matter (SPM)
91.	Total Particulate Matter

Vehicle Emission Monitoring Parameters	
92.	Carbon Monoxide
93.	Hydrocarbon
94.	Oxides of Nitrogen
95.	Smoke
Micro-meteorological Monitoring Parameters	
96.	Mixing depth/ Inversion Height
97.	Temperature
98.	Wind Direction
99.	Wind Speed
Source Emission Monitoring Parameters	
100.	Particulate Matter
101.	Acid Mist
102.	Ammonia
103.	Carbon Disulphide
104.	Chlorine
105.	Fluoride

PARAMETERS ANALYSED**WATER ANALYSIS**

Sl. No.	Parameters
Physical Parameters	
1.	Colour
2.	Conductivity
3.	pH
4.	Suspended Solids
5.	Suspended Volatile Solids
6.	Settleable Solids
7.	Sludge Volume Index
8.	Salinity
9.	Total Solids
10.	Total Volatile Solids
11.	Temperature
12.	Turbidity
13.	Velocity of flows
Chemical Parameters	
14.	Acidity
15.	Alkalinity
16.	Ammonical Nitrogen
17.	Ammonia Free
18.	Arsenic
19.	Aluminium
20.	Biochemical Oxygen Demand
21.	Boron
22.	Bromide
23.	Chloride
24.	Carbon Dioxide
25.	Chlorine Demand
26.	Chlorine Residual
27.	Cyanide
28.	Chemical oxygen Demand
29.	Cadmium
30.	Calcium
31.	Chromium
32.	Copper
33.	Dissolved oxygen
34.	Fluoride
35.	Hardness (Total and Calcium)
36.	Iron
37.	Kjeldahl Nitrogen (Total)
38.	Lead
39.	Magnesium
40.	Manganese
41.	Manganese
42.	Mercury
43.	Nickel
44.	Nitrite Nitrogen
45.	Nitrate Nitrogen
46.	Oil and Grease

47.	Potassium
48.	Phenols
49.	Phosphate
50.	Sulphate
51.	Sulphide
52.	Sulphite
53.	Silica
54.	Tin
55.	Urea Nitrogen
56.	Zinc
Microbiological Parameters	
57.	Faecal Strep Cocci
58.	Faecal Coliform Organism (MPN)
59.	Total Plate Count
60.	Total Coliform Organisms (MPN)
Biological Parameters	
61.	Benthic Organism Count
62.	Chlorophyll Estimation
63.	Microphytic identification
64.	Planktonic Count
65.	Primary Productivity
Bioassay of Toxic Pollutants	
65.	Bio-accumulation Bio-magnification & Bio- transformation studies
66.	Estimation of EC 50 on fish or other organisms like Daphina, Algae etc.
67.	Estimation of LC 50 on fish
Air Analysis (Ambient Air Quality Monitoring Parameters)	
68.	Acid Mist
69.	Ammonia
70.	Chlorine
71.	Fluoride
72.	Oxides of Nitrogen (NO, NO ₂ , NO _x)
74.	Sulphur dioxide
75.	Suspended Particulate Matter (SPM)
76.	Total Particulate Matter
Vehicle Emission Monitoring Parameters	
77.	Carbon Monoxide
79.	Hydrocarbon
80.	Oxides of Nitrogen
81.	Smoke
Micro-meteorological Monitoring Parameters	
82.	Temperature
83.	Wind Direction
84.	Wind Speed
Source Emission Monitoring Parameters	
85.	Acid Mist
86.	Particulate Matter
87.	Ammonia
88.	Carbon Disulphide
89.	Chlorine
90.	Fluoride

PARAMETERS ANALYSED**WATER ANALYSIS**

Sl. No.	Parameters
Physical Parameters	
1.	Colour
2.	Conductivity
3.	pH
4.	Suspended Solids
5.	Settleable Solids
6.	Sludge Volume Index
7.	Salinity
8.	Total Solids
9.	Temperature
10.	Turbidity
11.	Velocity of flows
Chemical Parameters	
12.	Acidity
13.	Alkalinity
14.	Ammonical Nitrogen
15.	Ammonia Free
16.	Biochemical Oxygen Demand
17.	Chloride
18.	Carbon Dioxide
19.	Chlorine Demand
20.	Chlorine Residual
21.	Cyanide
22.	Chemical oxygen Demand
23.	Cadmium
24.	Calcium
25.	Chromium
26.	Copper
27.	Dissolved oxygen
28.	Fluoride
29.	Hardness (Total and Calcium)
30.	Iron
31.	Lead
32.	Magnesium
33.	Manganese
34.	Mercury
35.	Nickel
36.	Nitrite Nitrogen
37.	Nitrate Nitrogen
38.	Oil and Grease
39.	Phenols
40.	Phosphate
41.	Sulphate

Microbiological Parameters	
42.	Strep Cocci
43.	Faecal Coliform Organism (MPN)
44.	Total Plate Count
45.	Total Coliform Organisms (MPN)
Biological Parameters	
46.	Chlorophyll Estimation
47.	Planktonic Count
48.	Primary Productivity
Bioassay of Toxic Pollutants	
49.	Estimation of LC 50 on fish
Air Analysis (Ambient Air Quality Monitoring Parameters)	
50.	Acid Mist
51.	Ammonia
52.	Chlorine
53.	Fluoride
54.	Oxides of Nitrogen (NO, NO ₂ , NO _x)
55.	Sulphur dioxide
56.	Suspended Particulate Matter (SPM)
57.	Total Particulate Matter
Micro-meteorological Monitoring Parameters	
58.	Temperature
59.	Wind Direction
60.	Wind Speed
Source Emission Monitoring Parameters	
61.	Particulate matter
62.	Acid Mist
63.	Ammonia
64.	Chlorine

ANNEXURE B

LIST OF EQUIPMENT

	Quantity
1. Refrigerator	<input type="text"/>
2. Deep Freezer	<input type="text"/>
3. BOD Incubator	<input type="text"/>
4. Bacteriological Incubator	<input type="text"/>
5. Oven	<input type="text"/>
6. Muffle Furnace	<input type="text"/>
7. Autoclave	<input type="text"/>
8. Waterbath	<input type="text"/>
9. Centrifuge	<input type="text"/>
10. Water Distillation Assembly	
Glass	<input type="text"/>
Metal	<input type="text"/>
11. Heating mantle	<input type="text"/>
12. Hot Plate	<input type="text"/>
13. Magnetic stirrer with Hot Plate	<input type="text"/>
14. Vacuum Filtration Pump	<input type="text"/>
15. Electronic Colony Counter	<input type="text"/>
16. Inoculation Hood	<input type="text"/>
17. Aquarium for Bioassay and Aerators	<input type="text"/>
18. Water Deionizer	<input type="text"/>
19. Water Current Meter	<input type="text"/>
20. Depth Sampler	<input type="text"/>
21. Bottom Sampler	<input type="text"/>

- | | | |
|-----|--|----------------------|
| 22. | Filtration Assembly (Millipore) | <input type="text"/> |
| 23. | Any Other Equipment | <input type="text"/> |
| 24. | Fluoride distillation assembly | <input type="text"/> |
| 25. | Cyanide distillation unit | <input type="text"/> |
| 26. | Ammonia distillation assembly | <input type="text"/> |
| 27. | Kjeldahl Nitrogen Assembly | <input type="text"/> |
| 28. | COD digestion assembly | <input type="text"/> |
| 29. | Soxhelt extraction Unit | <input type="text"/> |
| 30. | Arsenic Estimation Assembly (Gutzit Generator) | <input type="text"/> |
| 31. | Semi-micro Nitrogen Estimation Assembly | <input type="text"/> |
| 32. | Any other Assembly | <input type="text"/> |
| 33. | High Volume sampler | |
| 34. | Respirable Dust Sampler | |
| 35. | Stack Monitoring Kit | |
| 36. | Sound Level Meter | |
| 37. | Anemometer | |
| 38. | Min. max. Thermometer | |

LIST OF INSTRUMENT

- | | | |
|----|--|----------------------|
| 1. | Analytical Balance | <input type="text"/> |
| 2. | Physical Balance | <input type="text"/> |
| 3. | pH meter portable/ table model | <input type="text"/> |
| 4. | Conductivity meter | <input type="text"/> |
| 5. | Portable Analysis kit (For O ₂ , pH, Temp., Conductivity, Redox Potential etc.) | <input type="text"/> |
| 6. | Turbidity meter | <input type="text"/> |
| | | <input type="text"/> |

7. Binocular microscope
8. Flame photometer
9. Dissection microscope
10. Inverter Plankton Microscope
11. Stereoscopic Microscope
12. Colorimeter
13. Dissolved Oxygen Meter
14. Any other Instrument

SOPHISTICATED INSTRUMENTS

1. Atomic Absorption Spectrophotometer
2. Gas Liquid Chromatograph
3. Mercury Analyser
4. UV-Visible Spectrophotometer
5. Micro Analytical Balance
6. Specific Ion Meter
7. Any Other Sophisticated Instrument