



**CENTRAL POLLUTION CONTROL BOARD**  
**PARIVESH BHAWAN, EAST ARJUN NAGAR**  
**SHAHDARA, DELHI-110032**

**E-TENDER NOTICE FOR PURCHASE OF PROFICIENCY TESTING (PT) SAMPLES FOR LABORATORIES OF CPCB**

**Tender Enquiry No. C-48013/PT/2021-22/Mat**

**Dated: 18.01.2022**

Online E-Tender is invited under two bids system i.e. Technical and Financial Bids for Purchase of Proficiency Testing (PT) Samples in various environmental matrices for CPCB Laboratories from ISO/IEC 17043:2010 Accredited Proficiency Testing Sample Providers or their Authorized Agent / Dealer / Distributer in India. Tender forms can be downloaded from the CPP Portal (<http://eprocure.gov.in/eprocure/app>) & CPCB's website <http://www.cpcb.nic.in>. The bids to be submitted on CPP Portal only.

Name of Goods	Purchase of Proficiency Testing (PT) Samples in various matrices for CPCB Laboratories from ISO/IEC 17043.2010 Accredited Manufacturers	
	Date	Time
Date of Publishing	18-01-2022	14:00
Bid download/Bid submission start date	18-01-2022	14:00
Clarification Start Date	18-01-2022	14:00
Clarification End Date	28-02-2022	15:00
Last Date of Technical Bid Submission	28-02-2022	15:00
Technical Bid Opening Date	02-03-2022	11:00
Date and time for opening of financial bids of the technically qualified bidders	It will be announced on the above portal after opening of technical bids.	

-s/d-

DH-Trace Organics Laboratory

Email: [skumar.cpcb@nic.in](mailto:skumar.cpcb@nic.in)



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Ref.: No: C-48013/PT/2019-20/Mat

Dt: 18.01.2022

**E-TENDER NOTICE FOR PURCHASE OF PROFICIENCY TESTING (PT) SAMPLES FOR  
LABORATORIES OF CPCB**

**Pre-Qualification Criteria (PQC):**

1. The Bidder should be a Principal Proficiency Testing Sample Provider or its Authorized Agent / Dealer / Distributer in India having valid Authorization Letter from Principal PT Sample Provider.
2. The Bidder should have Valid Accreditation for PT Sample Provider from a National Accreditation Body as per ISO/IEC 17043:2010 for compounds and matrix concerned.
3. The Bidder shall have Experience of more than 3 Years in conducting PT Schemes for Laboratories for Parameter prescribed in List of matrices. Annexure-III
4. The bidder should have minimum three (3) years' experience for 75% parameters as per Annexure-III.
5. The bidder should have Annual Business of the PT Provider in previous audited year of at least INR 10 Lakh.
6. The Bidder should have a valid PAN (Permanent account Number), GST Registration No. Tender documents are available on CPP Portal for downloading. The bidders have to apply through online mode only. No offline bid will be accepted. Tender documents are also available for reference only on CPCB's Website [www.cpcb.nic.in](http://www.cpcb.nic.in).

The tenders are to be submitted in two part i.e. Technical Bid and Price Bid on or before the date & time fixed for receiving the bid. Offline, Telex, telegraphic or email bids will not be entertained. The submitted Tender Document must be accompanied by Signed copy of Tender, Credentials, Accreditation copy, Information Sheets, Work Order copies, Completion Certificates, Certificates as mentioned in the Tender.

Conditional Tender may disqualify so tenderers are advised to quote price as per NIT conditions only. Price Part shall be opened later of only the technically qualified tenderers on a date to be notified to the qualified tenderers only.

(Sanjay Kumar)

DH-TOL



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**Introduction:**

Central Pollution Control Board (CPCB) is an autonomous statutory body under Ministry of Environment, Forest and Climate Change. CPCB had planned Four Year Plan (2021-2024) for Participation in Proficiency Test (PT) and Inter-Laboratory Comparison (ILC) Programs—for the parameters under Scope of Accreditation. CPCB intends to procure Proficiency Testing (PT) Samples from ISO/IEC 17043:2010 Accredited PT Providers.

**Scope of work** - Purchase of Proficiency Testing (PT) Samples for Various parameters in Environmental Matrices (Ambient Air, Ground/Drinking/Surface Water, Wastewater / Effluent, Stack Emission, Particulate Matter, Soil etc.) (Annexure-III) for its Laboratories from ISO/IEC 17043:2010 Accredited PT Providers.

1. CPCB will purchase Proficiency Testing (PT) Samples for Laboratories situated at various places in India (Delhi, Lucknow, Kolkata, Bengaluru, Vadodara, Bhopal, Shillong) which will participate in Proficiency Testing Scheme (Annexure-II).
2. The specific PT Scheme to be opted will be based on as detailed in the Technical Specifications attached as Annexure-I
3. The supplier shall deliver the PT Samples as per Annexure-III, duly marked the name of the laboratory, directly to the addresses mentioned in Annexure-II.
4. The supplier shall responsible for all the clearances.
5. Delivery charges, GST and any other taxes shall be paid as per actual.
6. Participating Laboratories will analyse the PT Samples as per their own routine method of practice and report the results to the PT Sample Provider directly.
7. PT Performance Evaluation Reports shall be communicated to purchaser only, however, the same will be shared with the Participating Laboratories.



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**GENERAL CONDITIONS OF CONTRACT**

1. **Nature of Tender:** The tenderer should submit their tender online on CPP Portal Only in Two part-Single stages as described in NIT. Instruction for submitting bids on CPP Portal are given at Annexure-IV of this Tender Document.
2. **RATE:** The rate is to be quoted only as per BOQ format of tender document on CPP Portal, failing which your offer shall be rejected. It is to be noted that tenderer should quote rate for all items mentioned in the price format.
3. The rate quoted will remain firm till completion of the contract.
4. Total cost shall be the only deciding factor of L-1 bidder (Ref. BOQ format of tender document on CPP Portal)
5. **RATES IN WORDS & FIGURES:**
  - a. In case of item rate tender, only rates quoted shall be considered.
  - b. Rates shall be filled properly so that no discrepancy remains in rate written in figures and words. However, if a discrepancy is found, the rate which corresponds with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rate written either in figure or in words, then the rates quoted by the contractor in words shall be taken as correct.
  - c. Where the rates quoted by the contractor in figures and in words tally but the amount does not work out correctly, the rate quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s) then rate of such item(s) will be considered as zero.
  - d. The evaluation of price bids will be done on the total cost of PT Samples for all Laboratories basis.
  - e. Any other charges like Handling, Freight and Tax (if any) shall be paid actual.
  - f. Instalments of payments shall be clearly specified.
6. **Payment Terms:**

The payment shall be made through Direct Bank Transfer / Wire Transfer / TT. The bidder must give his bank details along with the bid.

  - a. 30% Advance Payment can only be considered on submission of Bank Guarantee by the supplier for equivalent amount in favour of the buyer and balance payment shall be made on completion of the work satisfactorily.
  - b. In absence of Bank Guarantee, the Payments will be made only after receipt of Proficiency Testing Performance Reports for Participating Laboratories (for sample matrices and Test Parameters as per Annexure III).
  - c. Bill / Invoice shall be submitted directly to the purchasing laboratory as mentioned in **Annexure-II.**
7. **COMPLETION PERIOD:** Entire work shall be completed within 90 days from issue of work order.
8. **OFFER VALIDITY:** Offer shall be valid for 180 days effective from the date of opening of tender.
9. **TERMS OF DELIVERY:** The terms of Delivery shall be CIP/CIF actual delivery address.
10. **DEVIATION FROM ORIGINAL TENDER:** The bidder should indicate any suggestion deviations from the tender document in the bid itself for consideration by the CPCB. These deviations shall constitute part of contract when approved by the CPCB.



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11. The bidder is advised to get clarification regarding any confusion / ambiguity regarding the tender from the CPCB before submitting the tender.
12. **CONTACTING THE CPCB :** From the time of bid opening to the time of contract award, if any bidder wishes to contact CPCB on any matter related to the bid, it should do so by email on [skumar.cpcb@nic.in](mailto:skumar.cpcb@nic.in)
13. **Bid evaluation Criteria**
  - a. Bid is the responsibility of bidder and no relief or consideration can be given for errors and omission by the bidder inadvertently or adherently. Bid with incomplete information is liable for rejection.
  - b. The techno-commercial part of bid shall be the evaluation criteria and other requirements / documents as indicated in the bidding document. Techno-commercial bid containing price shall be summarily rejected.
  - c. Non submission of details / documents as per above may lead to rejection of bid.
14. **AWARD OF CONTRACT:** CPCB will award the contract to the successful bidder whose bid has been determined to be qualified to satisfactorily perform the contract and has been determined as the lowest.
15. **NOTIFICATION OF AWARD:** Prior to the expiration of period of bid validity CPCB will notify the successful bidder by email to be confirmed by letter, about acceptance. The notification of award of contract will be communicated in the form of Purchase Order.
16. **CPCB'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS:** CPCB reserves the right to accept or reject any bid and to cancel the bidding process and reject all bids at any time prior to award of contract without thereby incurring any liability to the affected bidder or bidders.
17. **DOCUMENTS TO BE PROVIDED WITH TECHNICAL BID**
  - a. Tender Acceptance Letter with all terms and conditions mentioned.
  - b. Copy of Valid Accreditation for PT Sample Provider from an Accreditation Body as per ISO/IEC 17043:2010 for compounds and matrix concerned.
  - c. The Bidder shall have Experience of more than 5 Years in conducting PT Schemes for Laboratories for Parameters in various environmental matrices (Annexure-III).
  - d. The bidder should have minimum five (5) years' experience for 75% parameters as per Annexure-III.
  - e. Annual Audit Reports for last three (03) years.
18. **\*Dispute Settlement/ Jurisdiction & Law Applicable**



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In the event of any dispute, differences including breach and termination of the Contract or Claim arising out of or relating to the present Contract, such event shall be resolved amicably by mutual consultation. If, such mutual consultation fails, then the matter shall be referred to Arbitration of the Sole Arbitrator to be appointed by Chairman, Central Pollution Control Board. The Arbitrator shall pass their award in writing with reason. The venue of such Arbitration shall be at Delhi, INDIA. The cost of the arbitration shall be shared equally by the parties in the Contract. However, expenses incurred by each party in connection with the preparation, presentation shall be borne by the party itself.

Subject as aforesaid, provision of the Arbitration & Conciliation Act, 1996, as amended from time to time and the Rules made there under and for the time being in force shall apply to the Arbitration proceedings under the clause.

- The Court of Delhi, INDIA shall be exclusive jurisdiction in all matters or disputes arising under or in respect of this Contract.
  - The Contract shall be governed by the Indian Contract Act, 1872, The Arbitration & Conciliation Act, 1996 and other relevant Laws of India for the time being in force as amend from time to time.
19. **Integrity Pact:** Prospective bidders have to sign a Integrity Pact as per the format given at Annexure-VI and submit it along with the Technical Bid. Bidders are advised to read the Integrity Pact carefully, fill in the required details, sign and affix the seal and submit along with the technical bid. The bids which does not contain the Integrity Pact will be summarily rejected.

**Annexure-I**

**A. Technical Specifications for Proficiency Testing (PT) For Physio-Chemical, Metals, Biological and organic parameters in Air, Water, Waste Water, Soil, Sediments,**

S. No.	Parameter	Requirement	Remarks
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01	Accreditation for Proficiency Testing (PT) Schemes	PT provider should have accreditation as per ISO/IEC 17043:2010.		Attach Copy of Certificate
02	Validity of Accreditation (ISO/IEC 17043:2010)	Up to March, 2023 or beyond.		Attach Copy of valid Certificate <b>Note:</b> 1. If not then submit copy of application for renewal. 2. Rate contract will renew after submitting valid accreditation certificate
03	Scope of Matrices & Parameters	Water, Waste Water, Air, Soil & Sediment (Parameter as per Annexure-III)		Attach list of parameters covered under scope of accreditation
04	Experience in conducting PT	Water & Waste Water	Minimum five years' experience for coverage of 80% parameters	Attach five-year experience certificate. (Last Five Year Annual Report)
04		Air	Minimum five years' experience for coverage of 50% parameters	
04		Soil	Minimum five years' experience for coverage of 60% parameters	





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		Sediment	Minimum five years' experience for coverage of 60% parameters	
		Biological	Minimum five years' experience for coverage of 50% parameters	
		organic parameters	Minimum five years' experience for coverage of 60% parameters	
05	PT cycle frequency per year	PT provider shall have minimum four cycles of PT exercises per year for all matrices & Parameter		Provide latest PT calendar
06	No. of Participants	At least 10 for each parameter in each cycle. <b>Note:</b> Confirmation of Number of participants for PT before sending the sample.		Attach copy of Latest Annual Report
07	Instruction to Lab. participants by PT provider	The package shall include following with PT samples: 1. Necessary instructions for handling, dilution / spiking to matrix. 2. Result Reporting Format.		



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		3. Any other instruction required by PT provider for communication.	
08	Result Reporting Mode	Online by the participant laboratories.	
09	Delivery of samples	Directly to Purchaser or mentioned in annexure-II	
10	Scheme Closing Date	Six-seven weeks after opening date.	(Specify if different)
11	PT Performance Report by PT Provider	Report Shall include: 1. Z score. 2. Statistical analysis of reported results. 3. Graphic presentation of result. 4. Certificate of Performance issued for each participant laboratories. 5. Report within two weeks after scheme closing date.	
12	Time limit to furnish performance report	Within two weeks after scheme closing date.	(Specify if different)
13	Report furnish mode by PT provider	Online	

**B. Financial Part**

The Bidders has to submit all-inclusive cost )tax may be mentioned separately (of respective items as financial bid) :Annexure-VII.(



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The submitted Tender Document must be accompanied with Signed copy of tender, Credentials, accreditation copy, Information sheets, Work order copies, Completion Certificates, Certificates as mentioned in the Tender.

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**Annexure II**

**Shipping Address & Participating Laboratories**

<b>A. Central Laboratory (Central Pollution Control Board, Delhi- INDIA)</b>			
Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032, INDIA			
<b>S.No.</b>	<b>Laboratory</b>	<b>Contact Person</b>	<b>Contact Number</b>
01	Air Laboratory	Mr. V.K. Shukla Additional Director	+91-11-43102441
02	Bio-Science Laboratory	Mr. P. K. Behera Additional Director	+91-11-43102393
03	Instrumentation Laboratory	Smt. Namita Mishra Scientist 'D'	+91-11-43102441
04	Trace Organics Laboratory	Mr. Sanjay Kumar Additional Director	+91-11-43102376
05	Water Laboratory	Mr. P. K. Behera Additional Director	+91-11-43102393

<b>Laboratories of Regional Directorates of Central Pollution Control Board, INDIA</b>	
<b>B. Regional Directorate (South), Bengaluru</b>  Mr. S. Suresh,  Additional Director  Central Pollution Control Board,  Regional Directorate (South) - Bengaluru,  A-Block, Nisarga Bhawan,  1st and 2nd Floors, 7 <sup>th</sup> D Cross,  Thimmaiah Road, Shivanagar,	<b>C. Regional Directorate (Central), Bhopal</b>  Dr. P. Jagan,  Additional Director  Central Pollution Control Board,  Regional Directorate (Central) - Bhopal,  3rd Floor, Sahkar Bhawan,  North TT Nagar, Bhopal - 462 003  <b>INDIA</b>



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Bengaluru - 560 079 <b>INDIA</b>	
<b>D. Regional Directorate (North East), Shillong</b> Dr. Z. Changsan, Additional Director Central Pollution Control Board, Regional Directorate (North East) - Shillong, 'TUM SIR', Lower Motinagar, Near Fire Brigade H.Q., Shillong - 793 014 <b>INDIA</b>	<b>E. Regional Directorate (North), Lucknow</b> Mr. R. K. Singh, Additional Director Central Pollution Control Board, Regional Directorate (North) - Lucknow, 'PICUP Bhawan', Vibhuti Khand, Gomti Nagar, Lucknow - 226 010 <b>INDIA</b>
<b>F. Regional Directorate (West), Vadodara</b> Mr. Prasoon Gargava, Additional Director Central Pollution Control Board, Regional Directorate (West) - Vadodara, 'Parivesh Bhawan', Opp. Ward No. 10 VMC Office, Subhanpura, Vadodara - 390 023 <b>INDIA</b>	<b>G. Regional Directorate (East), H. Kolkata</b> Mr. M. K. Biswas, Additional Director Central Pollution Control Board, Regional Directorate (East) - Kolkata, 'South End Conclave', Block - 502, 5th & 6th Floor, 1582, Raiding, Main Road, Kolkata - 700 107 <b>INDIA</b>



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**Annexure-III**

**Parameters for Participation in Proficiency Testing (PT) Programme**

**A. Central Laboratory**  
**1. Air Laboratory**

**Sample Matrix: Ambient Air**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>	<b>PT Sample</b>
01	Particulate Matter (PM) :	1
02	Sulphur Dioxide (SO <sub>2</sub> ) :	1
03	Nitrogen Dioxide (NO <sub>2</sub> ) :	1
04	Ammonia :	1

**Sample Matrix: Ambient Air (Particulate Matter on Filter Paper)**

<b>S. No.</b>	<b>Anions</b>	<b>PT Sample</b>
01	Chloride :	1
02	Fluoride :	1
03	Bromide :	1
04	Nitrate :	1
05	Nitrite :	1
06	Sulphate :	1
07	Phosphate :	1

**Sample Matrix: Ambient Air (Particulate Matter on Filter Paper)**

<b>S. No.</b>	<b>Cations</b>	<b>PT Sample</b>
01	Ammonium :	1



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02	Lithium	:	1
03	Sodium	:	1
04	Potassium	:	1
05	Calcium	:	1
06	Magnesium	:	1

**Sample Matrix: Particulate Matter on Filter Paper**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Lead	:	1
02	Nickel	:	1
03	Arsenic	:	1
04	Cadmium	:	1
05	Chromium	:	1
06	Copper	:	1
07	Iron	:	1
08	Zinc	:	1

**Sample Matrix: Stack Emission**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>		<b>PT Sample</b>
01	Particulate Matter	:	1
02	Sulphur dioxide	:	1
03	Oxides of Nitrogen	:	1
04	Hydrogen Chloride (HCl)	:	1
05	Hydrogen Fluoride (HF)	:	1



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**2. Bio-Science Laboratory**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Microbiological / Bacteriological</b>	<b>PT Sample</b>
01	Total Coliform :	1
02	Faecal Coliform :	1
03	Total Plate Count :	1
04	Faecal Streptococci :	1
05	Enterococcus :	1

**Sample Matrix: (Effluent / Waste Water)**

<b>S. No.</b>	<b>Microbiological / Bacteriological</b>	<b>PT Sample</b>
01	Total Coliform :	1
02	Faecal Coliform :	1
03	Total Plate Count :	1
04	Faecal Streptococci :	1
05	Enterococcus :	1

**3. Instrumentation Laboratory**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Heavy Metals</b>	<b>PT Sample</b>
01	Total Arsenic :	1
02	Cadmium :	1
03	Total Chromium :	1
04	Copper :	1





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05	Iron	:	1
06	Lead	:	1
07	Manganese	:	1
08	Nickel	:	1
09	Zinc	:	1
10	Mercury	:	1
11	Antimony	:	1
12	Cobalt	:	1
13	Selenium	:	1
14	Vanadium	:	1

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Other Parameter</b>		<b>PT Sample</b>
01	Total and Dissolved Organic/ Inorganic Carbon	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Total Arsenic	:	1
02	Cadmium	:	1
03	Total Chromium	:	1
04	Copper	:	1
05	Iron	:	1
06	Lead	:	1
07	Manganese	:	1



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08	Nickel	:	1
09	Zinc	:	1
10	Mercury	:	1
11	Antimony	:	1
12	Cobalt	:	1
13	Selenium	:	1
14	Vanadium	:	1

**Sample Matrix: (Soil)**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Total Arsenic	:	1
02	Cadmium	:	1
03	Total Chromium	:	1
04	Copper	:	1
05	Iron	:	1
06	Lead	:	1
07	Manganese	:	1
08	Nickel	:	1
09	Zinc	:	1
10	Mercury	:	1
11	Antimony	:	1
12	Cobalt	:	1
13	Selenium	:	1
14	Vanadium	:	1



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**4. Trace Organics Laboratory**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Pesticides</b>	<b>PT Sample</b>
01	$\alpha$ -HCH	1
02	$\beta$ -HCH	1
03	$\gamma$ -HCH	1
04	Aldrin	1
05	Heptachlor	1
06	$\alpha$ -Endosulfan	1
07	<i>p,p'</i> -DDE	1
08	Dieldrin	1
09	$\beta$ -Endosulfan	1
10	<i>p,p'</i> -DDD	1
11	<i>o,p'</i> -DDT	1
12	<i>p,p'</i> -DDT	1
13	Phorate	1
14	Dimethoate	1
15	Methyl Parathion	1
16	Malathion	1
17	Chlorpyrifos	1
18	Quinalphos	1
19	Profenophos	1
20	Ethion	1
21	2,4-D	1



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**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Pesticides</b>	<b>PT Sample</b>
01	$\alpha$ -HCH	1
02	$\beta$ -HCH	1
03	$\gamma$ -HCH	1
04	Aldrin	1
05	Heptachlor	1
06	$\alpha$ -Endosulfan	1
07	<i>p,p'</i> -DDE	1
08	Dieldrin	1
09	$\beta$ -Endosulfan	1
10	<i>p,p'</i> -DDD	1
11	<i>o,p'</i> -DDT	1
12	<i>p,p'</i> -DDT	1
13	Phorate	1
14	Dimethoate	1
15	Methyl Parathion	1
16	Malathion	1
17	Chlorpyrifos	1
18	Qunalphos	1
19	Profenophos	1
20	Ethion	1
21	2,4-D	1



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**5. Water Laboratory**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	Conductivity	1
02	Total Dissolved solids	1
03	Chemical Oxygen Demand	1
04	Biological Oxygen Demand	1
05	Chloride	1
06	Phosphate-P	1
07	Total Hardness	1
08	Calcium	1
09	Magnesium	1
10	Flouride	1
11	pH	1
12	Nitrite - N	1
13	Ammonical - N	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	Conductivity	1
02	Total Suspended Solids	1
03	Total Solids	1
04	Total Dissolved solids	1
05	Chemical Oxygen Demand	1
06	Biological Oxygen Demand	1
07	Oil & Grease	1
08	Phosphate-P	1



**CENTRAL POLLUTION CONTROL BOARD**  
**PARIVESH BHAWAN, EAST ARJUN NAGAR**  
**SHAHDARA, DELHI-110032**

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09	Chloride	:	1
10	pH	:	1
11	Ammonical - N	:	1
12	Hexavalent Cr	:	1

**Sample Matrix: (Soil)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>		<b>PT Sample</b>
01	Moisture %	:	1
02	pH	:	1
03	Conductivity	:	1
04	Exchangeable Ca	:	1
05	Exchangeable Mg	:	1
06	Exchangeable Na	:	1
07	Exchangeable K	:	1
08	Exchangeable Sodium percent	:	1
09	Organic Matter	:	1
10	CEC	:	1



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**B. Regional Directorate (South) Laboratory, Bengaluru**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	pH	1
02	TSS	1
03	TDS	1
04	TS	1
05	Turbidity	1
06	Conductivity	1
07	COD	1
08	BOD	1
09	DO	1
10	Nitrate as N	1
11	Nitrite as N	1
12	Ammoniacal Nitrogen as N	1
13	TKN	1
14	Phosphate as P	1
15	Sulphate as SO <sub>4</sub>	1
16	Alkalinity as CaCO <sub>3</sub>	1
17	Fluoride as F	1
18	Chloride as Cl	1
19	Calcium as Ca	1
20	Sodium as Na	1
21	Potassium as K	1
22	Magnesium as Mg	1
23	Hardness as CaCO <sub>3</sub>	1



**CENTRAL POLLUTION CONTROL BOARD**  
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24	Hexavalent Chromium	:	1
25	Boron	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>		<b>PT Sample</b>
01	pH	:	1
02	TSS	:	1
03	TDS	:	1
04	TS	:	1
05	Turbidity	:	1
06	Conductivity	:	1
07	COD	:	1
08	BOD	:	1
09	DO	:	1
10	Nitrate as N	:	1
11	Nitrite as N	:	1
12	Ammoniacal Nitrogen as N	:	1
13	TKN	:	1
14	Phosphate as P	:	1
15	Sulphate as SO <sub>4</sub>	:	1
16	Alkalinity as CaCO <sub>3</sub>	:	1
17	Fluoride as F	:	1
18	Chloride as Cl	:	1
19	Calcium as Ca	:	1
20	Sodium as Na	:	1
21	Potassium as K	:	1
22	Magnesium as Mg	:	1





**CENTRAL POLLUTION CONTROL BOARD**  
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23	Hardness as CaCO <sub>3</sub>	:	1
24	Hexavalent Chromium	:	1
25	Boron	:	1
26	Oil & Grease	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Metals</b>		<b>PT Sample</b>
01	Copper	:	1
02	Nickel	:	1
03	Lead	:	1
04	Iron	:	1
05	Cadmium	:	1
06	Zinc	:	1
07	Manganese	:	1
08	Chromium (Total)	:	1
09	Cobalt	:	1

**Sample Matrix: Ambient Air**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>		<b>PT Sample</b>
01	Particulate Matter (PM)	:	1
02	Sulphur Dioxide (SO <sub>2</sub> )	:	1
03	Nitrogen Dioxide (NO <sub>2</sub> )	:	1
04	Ammonia	:	1

**Sample Matrix: Particulate Matter on Filter Paper**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
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**CENTRAL POLLUTION CONTROL BOARD**  
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01	Arsenic	:	1
02	Cadmium	:	1
03	Nickel	:	1
04	Lead	:	1

**Sample Matrix: Stack Emission**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>		<b>PT Sample</b>
01	Particulate Matter	:	1
02	Sulphur dioxide	:	1

**Sample Matrix: Sediment & Sludge**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	pH	:	1
02	Flash Point	:	1
03	Gross Calorific Value	:	1



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**C. Regional Directorate (Central) Laboratory, Bhopal**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	pH	1
02	Conductivity	1
03	Total Solid	1
04	Total Suspended Solid	1
05	Fixed Dissolved Solid	1
06	Total Hardness	1
07	Calcium	1
08	Magnesium	1
09	Chloride	1
10	Amonical Nitrogen	1
11	Nitrate-N	1
12	Nitrite-N	1
13	Phosphate	1
14	Sulphate	1
15	Flouride	1
16	Boron	1
17	Sodium	1
18	Potasium	1

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Heavy Metals</b>	<b>PT Sample</b>
01	Copper (Cu)	1



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02	Zinc (Zn)	:	1
03	Nickel (Ni)	:	1
04	Manganese (Mn)	:	1
05	Iron (Fe)	:	1
06	Lead (Pb)	:	1
07	Chromium (Cr)	:	1
08	Cadmium (Cd)	:	1

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Microbiological / Bacteriological</b>		<b>PT Sample</b>
01	Total Coliform	:	1
02	Feacal coliform	:	1
03	Feacal steptococsi	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>		<b>PT Sample</b>
01	pH	:	1
02	Conductivity	:	1
03	Total Solid	:	1
04	Total Suspended Solid	:	1
05	Fixed Dissolved Solid	:	1
06	Chloride	:	1
07	Amonical Nitrogen	:	1
08	COD	:	1
09	BOD	:	1



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10	Phosphate	:	1
11	Sulphate	:	1
12	Flouride	:	1
13	Boron	:	1
14	Sodium	:	1
15	Potasium	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Copper (Cu)	:	1
02	Zinc (Zn)	:	1
03	Nickel (Ni)	:	1
04	Manganese (Mn)	:	1
05	Iron (Fe)	:	1
06	Lead (Pb)	:	1
07	Chromium (Cr)	:	1
08	Cadmium (Cd)	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Microbiological / Bacteriological</b>		<b>PT Sample</b>
01	Total Coliform	:	1
02	Feacal coliform	:	1
03	Feacal steptococsi	:	1

**Sample Matrix: Ambient Air**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>	<b>PT Sample</b>



**CENTRAL POLLUTION CONTROL BOARD**  
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01	Particulate Matter (PM10)	:	1
02	Particulate Matter (PM2.5)	:	1
03	Sulphur Dioxide (SO <sub>2</sub> )	:	1
04	Nitrogen Dioxide (NO <sub>2</sub> )	:	1

**Sample Matrix: Particulate Matter on Filter Paper**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Copper (Cu)	:	1
02	Zinc (Zn)	:	1
03	Nickel (Ni)	:	1
04	Manganese (Mn)	:	1
05	Iron (Fe)	:	1
06	Lead (Pb)	:	1
07	Chromium (Cr)	:	1
08	Cadmium (Cd)	:	1

**Sample Matrix: Stack Emission**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>		<b>PT Sample</b>
01	Particulate Matter	:	1
02	Sulphur dioxide	:	1
03	Oxides of Nitrogen	:	1

**Sample Matrix: Stack Emission**



**CENTRAL POLLUTION CONTROL BOARD**  
**PARIVESH BHAWAN, EAST ARJUN NAGAR**  
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<b>S. No.</b>	<b>Heavy Metals</b>	<b>PT Sample</b>
01	Copper (Cu) :	1
02	Zinc (Zn) :	1
03	Nickel (Ni) :	1
04	Manganese (Mn) :	1
05	Iron (Fe) :	1
06	Lead (Pb) :	1
07	Chromium (Cr) :	1
08	Cadmium (Cd) :	1



**CENTRAL POLLUTION CONTROL BOARD**  
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**D. Regional Directorate (North East) Laboratory, Shillong**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	Colour	1
02	Odour	1
03	pH value	1
04	Taste	1
05	Turbidity	1
06	Total Dissolved Solids	1
07	Ammonia (as total ammonia-N)	1
08	Calcium (as Ca)	1
09	Chloride (as Cl)	1
10	Fluoride (as F)	1
11	Free residual chlorine	1
12	Iron (as Fe)	1
13	Nitrate (as NO <sub>3</sub> )	1
14	Sulphate (as SO <sub>4</sub> )	1
15	Sulphide (as H <sub>2</sub> S)	1
16	Total Alkalinity as calcium carbonate	1
17	Total Hardness (as CaCO <sub>3</sub> )	1

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Microbiological / Bacteriological</b>	<b>PT Sample</b>
01	Total Coliform	1
02	E.Coli	1





**CENTRAL POLLUTION CONTROL BOARD**  
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**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	Colour :	1
02	Odour :	1
03	pH value :	1
04	Suspended solids :	1
05	Temperature :	1
06	Oil and grease :	1
07	Total residual chlorine :	1
08	Ammonical Nitrogen (as N) :	1
09	Total Kjeldhal Nitrogen (as NH <sub>3</sub> ) :	1
10	Free ammonia (as NH <sub>3</sub> ) :	1
11	Biochemical Oxygen Demand :	1
12	Chemical Oxygen Demand :	1
13	Fluoride (as F) :	1
14	Phosphates (as P) :	1
15	Sulphide (as S) :	1
16	Iron (as Fe) :	1
17	Nitrate Nitrogen :	1
18	Total Dissolved Solids :	1
19	Sulphate (as SO <sub>4</sub> <sup>2-</sup> ) :	1
20	Chlorides (as Cl) :	1
21	Turbidity :	1
22	Dissolved Oxygen :	1
23	Conductivity :	1



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24	Acidity	:	1
25	Alkalinity	:	1
26	Total Hardness	:	1
27	Nitrite Nitrogen	:	1
28	Sulphite	:	1
29	Calcium	:	1
30	Magnesium	:	1
31	Potassium	:	1
32	Sodium	:	1

**Sample Matrix: (Waste Water)**

S. No.	Microbiological / Bacteriological		PT Sample
01	Total Coliform	:	1
02	Feacal coliform	:	1

**Sample Matrix: Ambient Air**

S. No.	Particulate Matter & Gases		PT Sample
01	Particulate Matter (PM10)	:	1
02	Particulate Matter (PM2.5)	:	1
03	Sulphur Dioxide (SO <sup>2</sup> )	:	1
04	Nitrogen Dioxide (NO <sup>2</sup> )	:	1
05	Ozone (O <sub>3</sub> )	:	1
06	Carbon Monoxide (CO)	:	1
07	Ammonia (NH <sub>3</sub> )	:	1



**CENTRAL POLLUTION CONTROL BOARD**  
**PARIVESH BHAWAN, EAST ARJUN NAGAR**  
**SHAHDARA, DELHI-110032**

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**Sample Matrix: Stack Emission**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>	<b>PT Sample</b>
01	Particulate Matter	1
02	NO <sub>x</sub>	1
03	NO	1
04	SO <sub>2</sub>	1
05	%O <sub>2</sub>	1
06	CO	1
07	%CO <sub>2</sub>	1
08	C <sub>x</sub> H <sub>y</sub>	1

**Sample Matrix: (Soil)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	pH	1



**CENTRAL POLLUTION CONTROL BOARD**  
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**E. Regional Directorate (North) Laboratory, Lucknow**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	Conductivity (Specific Conductance) :	1
02	Suspended Solids (SS) :	1
03	Total Solids :	1
04	Total Dissolved Solids (TDS) :	1
05	Chloride :	1
06	pH :	1
07	Cr <sup>+6</sup> :	1
08	Fluoride :	1
09	Nitrate as N :	1
10	Nitrite as N :	1
11	Boron :	1
12	Sulphate :	1
13	Alkalinity :	1
14	Potassium :	1
15	Total Hardness :	1
16	Calcium :	1
17	Orthophosphate :	1
18	Sodium :	1
19	Chemical Oxygen Demand :	1
20	Biological Oxygen Demand :	1
21	TKN :	1

**Sample Matrix: (Water Drinking / Ground)**



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<b>S. No.</b>	<b>Microbiological / Bacteriological</b>		<b>PT Sample</b>
01	Total Coliform	:	1
02	Fecal Coliform	:	1
03	Heterotrophic Plate Count	:	1
04	E. Coli	:	1

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Arsenic	:	1
02	Cadmium	:	1
03	Chromium	:	1
04	Copper	:	1
05	Zinc	:	1

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Pesticides</b>		<b>PT Sample</b>
01	$\alpha$ - HCH	:	1
02	$\beta$ - HCH	:	1
03	$\gamma$ - HCH	:	1
04	Aldrin	:	1
05	4,4' - DDT	:	1
06	Dieldrin	:	1
07	Chlorpyrifos	:	1

**Sample Matrix: (Waste Water)**



**CENTRAL POLLUTION CONTROL BOARD**  
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<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	Conductivity (Specific Conductance) :	1
02	Suspended Solids (SS) :	1
03	Total Solids :	1
04	Total Dissolved Solids (TDS) :	1
05	Chloride :	1
06	pH :	1
07	Cr <sup>+6</sup> :	1
08	Fluoride :	1
09	Nitrate as N :	1
10	Nitrite as N :	1
11	Boron :	1
12	Sulphate :	1
13	Alkalinity :	1
14	Potassium :	1
15	Total Hardness :	1
16	Calcium :	1
17	Orthophosphate :	1
18	Sodium :	1
19	Chemical Oxygen Demand :	1
20	Biological Oxygen Demand :	1
21	TKN :	1

**Sample Matrix: (Waste Water)**



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<b>S. No.</b>	<b>Microbiological / Bacteriological</b>		<b>PT Sample</b>
01	Total Coliform	:	1
02	Fecal Coliform	:	1
03	Heterotrophic Plate Count	:	1
04	E. Coli	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Arsenic	:	1
02	Cadmium	:	1
03	Chromium	:	1
04	Copper	:	1
05	Zinc	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Pesticides</b>		<b>PT Sample</b>
01	$\alpha$ - HCH	:	1
02	$\beta$ - HCH	:	1
03	$\gamma$ - HCH	:	1
04	Aldrin	:	1
05	4,4' - DDT	:	1
06	Dieldrin	:	1
07	Chlorpyrifos	:	1

**Sample Matrix: Ambient Air**



**CENTRAL POLLUTION CONTROL BOARD**  
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<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>	<b>PT Sample</b>
01	Suspended Particulate Matters (SPM) :	1
02	Sulphur Dioxide (SO <sub>2</sub> ) :	1
03	Nitrogen Dioxide (NO <sub>2</sub> ) :	1

**Sample Matrix: Particulate Matter on Filter Paper**

<b>S. No.</b>	<b>Heavy Metals</b>	<b>PT Sample</b>
01	Chromium :	1
02	Copper :	1
03	Zinc :	1

**Sample Matrix: Stack Emission**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>	<b>PT Sample</b>
01	Particulate Matter (PM) :	1
02	Sulphur Dioxide (SO <sub>2</sub> ) :	1

**F. Regional Directorate (West) Laboratory, Vadodara**

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	pH :	1
02	Specific Conductivity :	1
03	Total Dissolved Solids(TDS) :	1





**CENTRAL POLLUTION CONTROL BOARD**  
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04	Fixed Dissolved Solids(FDS)	:	1
05	Calcium	:	1
06	Calcium Hardness as CaCO <sub>3</sub>	:	1
07	Total Hardness as CaCO <sub>3</sub>	:	1
08	Magnesium	:	1
09	Total Alkalinity	:	1
10	Chloride	:	1
11	Fluoride	:	1
12	Sulphate	:	1
13	Dissolved Phosphate	:	1
14	Sodium	:	1
15	Potassium	:	1
16	Nitrite as N	:	1
17	Nitrate as N	:	1
18	Nitrate+Nitrite as N	:	1
19	Acidity	:	1
20	Turbidity	:	1

**Sample Matrix: (Water Drinking / Ground)**

S. No.	Microbiological / Bacteriological	:	PT Sample
01	Presence or Absence of Total Coliforms	:	1
02	Presence or Absence of Faecal Coliforms	:	1
03	Presence or Absence of E.Coli	:	1

**Sample Matrix: (Water Drinking / Ground)**



**CENTRAL POLLUTION CONTROL BOARD**  
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<b>S. No.</b>	<b>Pesticides</b>	<b>PT Sample</b>
01	Aldrin	1
02	Dialdrin	1
03	$\alpha$ -BHC	1
04	$\beta$ -BHC	1
05	$\gamma$ -BHC	1
06	2-4 DDT	1
07	$\alpha$ Endosulphan	1
08	$\beta$ Endosulphan	1
09	Chlorpyrifos	1
10	Dimethoate	1
11	Ethion	1
12	Malathion	1
13	Methylparathion	1
14	Ethylparathion	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	Boron	1
02	TKN	1
03	Total Phosphorous	1
04	COD	1
05	BOD	1
06	Carbonaceous BOD	1
07	Calcium	1



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08	Calcium Hardness as CaCO <sub>3</sub>	:	1
09	Total Hardness as CaCO <sub>3</sub>	:	1
10	Magnesium	:	1
11	Total Solids(TS)	:	1
12	Total Suspended Solids(TSS)	:	1
13	Total Dissolved Solids(TDS)	:	1
14	Fixed Dissolved Solids(FDS)	:	1
15	Hexavalent Chromium	:	1
16	Total Alkalinity	:	1
17	Chloride	:	1
18	Fluoride	:	1
19	Specific Conductivity	:	1
20	Sulphate	:	1
21	Dissolved Phosphatate	:	1
22	pH	:	1
23	Sodium	:	1
24	Potassium	:	1
25	Nitrite as N	:	1
26	Oil & Graese	:	1
27	Total Cyanide	:	1

**Sample Matrix: (Waste Water)**

S. No.	Heavy Metals		PT Sample
01	Mercury total	:	1
02	Boron	:	1
03	Cadmium	:	1



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04	Chromium	:	1
05	Cobalt	:	1
06	Copper	:	1
07	Iron	:	1
08	Lead	:	1
09	Manganese	:	1
10	Nickel	:	1
11	Zinc	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Microbiological / Bacteriological</b>		<b>PT Sample</b>
01	Heterotrophic Plate Count	:	1
02	Total Coliforms	:	1
03	Faecal Coliforms	:	1
04	E.Coli	:	1

**Sample Matrix: Ambient Air**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>		<b>PT Sample</b>
01	Sulphur Di-oxide	:	1
02	Nitrogen Di-oxide	:	1
03	Ammonia	:	1
04	PM-10	:	1
05	PM-2.5	:	1

**Sample Matrix: Particulate Matter on Filter Paper**



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<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Cadmium	:	1
02	Chromium	:	1
03	Cobalt	:	1
04	Copper	:	1
05	Arsenic	:	1
06	Lead	:	1
07	Manganese	:	1
08	Nickel	:	1
09	Zinc	:	1
10	Iron	:	1

**Sample Matrix: Stack Emission**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>		<b>PT Sample</b>
01	Sulphur Di-oxide	:	1
02	Oxides of Nitrogen	:	1
03	Ammonia	:	1
04	Particulate Matter	:	1

**Sample Matrix: Stack Emission**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Cadmium	:	1
02	Chromium	:	1
03	Cobalt	:	1
04	Copper	:	1



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05	Aesenic	:	1
06	Lead	:	1
07	Iron	:	1
08	Mangnese	:	1
09	Nickel	:	1
10	Zinc	:	1

**Sample Matrix: Soil**

<b>S. No.</b>	<b>Parameter</b>		<b>PT Sample</b>
01	pH	:	1
02	Electrical Conductivity	:	1
03	Organic Matter(%)	:	1
04	Organic Carbon (%)	:	1
05	Total water soluble salts (TWSS)	:	1
06	Loss on Ignition (LoI)	:	1

**Sample Matrix: Sludge / Sediment**

<b>S. No.</b>	<b>Parameter</b>		<b>PT Sample</b>
01	pH	:	1
02	Electrical Conductivity	:	1
03	Organic Matter(%)	:	1
04	Organic Carbon (%)	:	1
05	Total water soluble salts (TWSS)	:	1
06	Loss on Ignition (LoI)	:	1

**G. Regional Directorate (East) Laboratory, Kolkata**



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**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	pH	1
02	TSS	1
03	TDS	1
04	TS	1
05	Turbidity	1
06	NO <sub>3</sub> -N	1
07	BOD	1
08	COD	1
09	NO <sub>2</sub> -N	1
10	PO <sub>4</sub> -P	1
11	NH <sub>3</sub> -N	1
12	Chloride	1
13	Hardness	1
14	Alkalinity	1
15	Calcium	1
16	Magnesium	1
17	TKN	1
18	Phenol	1
19	Fluoride	1
20	Cr <sup>+6</sup>	1
21	Sodium	1
22	Potassium	1
23	Sulphate	1
24	Oil and Grease	1



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25	Cyanide	:	1
26	Sodium	:	1

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Iron (Fe)	:	1
02	Zinc (Zn)	:	1
03	Manganese (Mn)	:	1
04	Copper (Cu)	:	1
05	Cadmium (Cd)	:	1
06	Cobalt (Co)	:	1
07	Chromium (Cr)	:	1
08	Lead (Pb)	:	1
09	Nickel (Ni)	:	1
10	Arsenic (As)	:	1
11	Boron (B)	:	1

**Sample Matrix: (Water Drinking / Ground)**

<b>S. No.</b>	<b>Microbiological / Bacteriological</b>		<b>PT Sample</b>
01	Total Coliform	:	1
02	Faecal Coliform	:	1
03	Faecal Streptococcus	:	1
04	Escherichia-Coli	:	1

**Sample Matrix: (Waste Water)**





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<b>S. No.</b>	<b>Physico-Chemical Parameters</b>	<b>PT Sample</b>
01	pH	1
02	TSS	1
03	TDS	1
04	TS	1
05	Turbidity	1
06	NO <sub>3</sub> -N	1
07	BOD	1
08	COD	1
09	NO <sub>2</sub> -N	1
10	PO <sub>4</sub> -P	1
11	NH <sub>3</sub> -N	1
12	Chloride	1
13	Hardness	1
14	Alkalinity	1
15	Calcium	1
16	Magnesium	1
17	TKN	1
18	Phenol	1
19	Fluoride	1
20	Cr <sup>+6</sup>	1
21	Sodium	1
22	Potassium	1
23	Sulphate	1
24	Oil and Grease	1
25	Cyanide	1



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26	Sodium	:	1
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**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Heavy Metals</b>		<b>PT Sample</b>
01	Iron (Fe)	:	1
02	Zinc (Zn)	:	1
03	Manganese (Mn)	:	1
04	Copper (Cu)	:	1
05	Cadmium (Cd)	:	1
06	Cobalt (Co)	:	1
07	Chromium (Cr)	:	1
08	Lead (Pb)	:	1
09	Nickel (Ni)	:	1
10	Arsenic (As)	:	1
11	Boron (B)	:	1

**Sample Matrix: (Waste Water)**

<b>S. No.</b>	<b>Microbiological / Bacteriological</b>		<b>PT Sample</b>
01	Total Coliform	:	1
02	Faecal Coliform	:	1
03	Faecal Streptococcus	:	1
04	Escherichia-Coli	:	1

**Sample Matrix: Ambient Air**



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<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>	<b>PT Sample</b>
01	SO <sub>2</sub> :	1
02	NO <sub>2</sub> :	1
03	RSPM :	1

**Sample Matrix: Particulate Matter on Filter Paper**

<b>S. No.</b>	<b>Heavy Metals</b>	<b>PT Sample</b>
01	Iron (Fe) :	1
02	Zinc (Zn) :	1
03	Manganese (Mn) :	1
04	Copper (Cu) :	1
05	Cadmium (Cd) :	1
06	Cobalt (Co) :	1
07	Chromium (Cr) :	1
08	Lead (Pb) :	1
09	Nickel (Ni) :	1
10	Arsenic (As) :	1

**Sample Matrix: Stack Emission**

<b>S. No.</b>	<b>Particulate Matter &amp; Gases</b>	<b>PT Sample</b>
01	PM :	1
02	SO <sub>2</sub> :	1
03	NO <sub>x</sub> :	1

**Sample Matrix: Stack Emission**



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<b>S. No.</b>	<b>Heavy Metals</b>	<b>PT Sample</b>
01	Iron (Fe) :	1
02	Zinc (Zn) :	1
03	Manganese (Mn) :	1
04	Copper (Cu) :	1
05	Cadmium (Cd) :	1
06	Cobalt (Co) :	1
07	Chromium (Cr) :	1
08	Lead (Pb) :	1
09	Nickel (Ni) :	1
10	Arsenic (As) :	1



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**Annexure - IV**

**TENDER ACCEPTANCE LETTER**

DATE \_\_\_\_\_

TENDER NOTICE NO \_\_\_\_\_

TO

THE CHAIRMAN

CENTRAL POLLUTION CONTROL BOARD

(MINISTRY OF ENVIRONMENT & FORESTS GOVERNMENT OF INDIA)

C.B.D. CUM OFFICE COMPLEX

EAST ARJUN NAGAR DELHI - 110 032.

Sir,

Having examined the terms and conditions of Tender Document and specifications for PT Samples, the acceptance of which is hereby acknowledged. We, the undersigned, offer to supply the following:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 8.
- 9.
- 10.
- 11.



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12.

(Please add additional pages, if required). The above supply shall be in conformity with the specifications and conditions of supply.

We undertake if our bid is accepted to deliver the items quoted by us, we shall deliver within the period indicated by us in our offer. We also undertake that in case of our failure to deliver the item on specified time, appropriate penalty can be levied on us.

We agree to abide by this bid for a period of 180 days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before expiration of that period.

We are submitting a Demand Draft for Rs...../ in bid Currency in favour of "Central Pollution Control Board", Delhi towards the Earnest Money.

This Bid, together with your written acceptance thereof in your notification of award shall constitute a bidding contract between us.

We understood that you are not bound to accept the lowest or any bid you may receive.

Dated this.....day of.....2021

Signature of authorized Person,

Name with Stamp & full Address.



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**Annexure-V**

**INSTRUCTIONS FOR ONLINE BID SUBMISSION**

As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL: <http://eprocure.gov.in>). The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at:

<https://eprocure.gov.in/eprocure/app>.

**REGISTRATION**

- 1) Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Click here to Enrol” on the CPP Portal is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

**SEARCHING FOR TENDER DOCUMENTS**

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID,



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organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal.

2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder.

This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

#### PREPARATION OF BIDS

1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF formats. Bid documents may be scanned with 100 dpi with black and white option.

3) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders.

4) Bidders can use "My Space" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and





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need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

#### SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as “offline” to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original EMD should be submitted at Directorate of Logistics, New Delhi by ..... at 13:00 hrs. The details of the EMD physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) A standard price bid schedule format has been provided with the tender document to be filled by all the bidders. If the price bid file is found to be modified by the bidder, the bid will be rejected.
- 6) The serve time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by

Unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128-bit encryption technology. Data storage encryption of sensitive fields is done.



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- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

**ASSISTANCE TO BIDDERS**

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is 1800 233 7315.



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Annexure-VI

**INTEGRITY PACT**

Between

**Central Pollution Control Board (CPCB)** hereinafter referred to as “**The Principal**”, and

..... hereinafter referred to as “**The Bidder/ Contractor**”

**Preamble**

The Principal intends to award, under laid down organizational procedures, contract/s for.....The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness / transparency in its relations with its Bidder(s) and / or Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

**Section 1 – Commitments of the Principal**

1. The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
  - a. No employee of the Principal, personally or through family members, will in connection with the tender for , or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
  - c. The Principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

**Section 2 – Commitments of the Bidder(s)/ Contractor(s)**

- 1.The Bidder(s)/ Contractor(s) commit themselves to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commit themselves to observe



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the following principles during participation in the tender process and during the contract execution.

- a. The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
  - b. The Bidder(s)/ Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.
  - c. The Bidder(s)/ Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d. The Bidder(s)/Contractors(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly the Bidder(s)/Contractors(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the Tender document, shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only.
  - e. The Bidder(s)/ Contractor(s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
  - f. Bidder(s) /Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.
2. The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

**Section 3 - Disqualification from tender process and exclusion from future contracts**

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take any other penal action against defaulting bidder.



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**Section 4 – Compensation for Damages**

- (1) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- (2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

**Section 5 – Previous transgression**

- (1) The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or appropriate penal action can be taken.

**Section 6 – Equal treatment of all Bidders / Contractors / Subcontractors**

- (1) In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor.
- (2) The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

**Section 7 – Criminal charges against violating Bidder(s) / Contractor(s) / Subcontractor(s)**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

**Section 8 – Independent External Monitor**

- (1) The Principal appoints competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission (Sh Jagdish Rai Garg, C/o Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi-110032, Phone-+91-120-4286713, Mobile No. 8008516763, email : jr.garg@yahoo.com). The task of the Monitor is to review independently and



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objectively, whether and to what extent the parties comply with the obligations under this agreement.

- (2) The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all Contract documents, whenever required. It will be obligatory for him / her to treat the information and documents of the Bidders/Contractors as confidential. He/ she reports to the Chairman, CPCB.
- (3) The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest, unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.
- (4) The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s)/ Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non-Disclosure of Confidential Information' and of 'Absence of Conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform Chairman, CPCB and recuse himself / herself from that case.
- (5) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- (6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- (7) The Monitor will submit a written report to the Chairman, CPCB within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- (8) If the Monitor has reported to the Chairman CPCB, a substantiated suspicion of an offence under relevant IPC/ PC Act, and the Chairman CPCB has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
- (9) The word '**Monitor**' would include both singular and plural.

## **Section 9 – Pact Duration**



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This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Chairman of CPCB.

**Section 10 – Other provisions**

- (1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.
- (2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- (3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- (4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- (5) Issues like Warranty / Guarantee etc. shall be outside the purview of IEMs.
- (6) In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

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(For & On behalf of the Principal)

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(For & On behalf of Bidder/ Contractor)

(Office Seal)

(Office Seal)

Place -----

Date -----

Witness 1:  
(Name & Address)

Witness 2:  
(Name & Address)

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