

/497767/2024

**West Bengal Pollution Control Board**

(Department of Environment, Government of West Bengal)

Memo No. : 17/4A-13/2005(PT-V)

Date : 18.03.2024

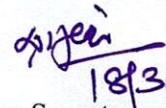
From: **The Member Secretary**  
West Bengal Pollution Control BoardTo: **The Member Secretary**  
**Central Pollution Control Board,**  
(MoEF&CC, Government of India),  
Parivesh Bhawan, East Arjun Nagar,  
Delhi - 110 032.**Subject : Hon'ble NGT Suo Motu matter O.A 693/2023 - "Pollution Control Boards are the Weak Link"**

Ref. No.: CPCB letter F.No.PCP/NGT/693 of 2023/2023-24 dated 09/02/2024

Sir,

In reference to above, enclosed please find the information pertaining to the West Bengal Pollution Control Board in prescribed format, as desired.

Yours sincerely,

  
18/3/2024

Member Secretary

Encl. as stated above.

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**BEFORE THE NATIONAL GREEN TRIBUNAL  
PRINCIPAL BENCH, NEW DELHI**

**Original Application No. 693 / 2023**

**IN RE: NEWS ITEM APPEARING IN DECCAN HERALD DATED 24.10.2023 TITLED  
"POLLUTION CONTROL BOARDS ARE THE WEAK LINK"**

**Name of the SPCBs / PCCs:** West Bengal Pollution Control Board (WBPCB)

| S.No. | Details   | Remarks           |   |               |                     |
|-------|---|-------------------|---|---------------|---------------------|
|       |   | <i>Sanctioned</i> | <i>Working</i>                                  | <i>Vacant</i> | <i>Vacancy in %</i> |
| 1.    | <b>Status of Manpower</b>   | <b>309</b>        | <b>178</b>                                      | <b>131</b>    | <b>42.39</b>        |
| 2.    | <b>Ratio of Administrative, Ministerial and Technical Staff of SPCBs / PCCs</b>                 |                   |   |               |                     |
|       | <b>Technical Posts (Engineering &amp; Science)</b>  |                   | <b>Administrative</b>                           |               |                     |
|       | Name of Post  | <b>Number</b>     | Name of Post                                    | <b>Number</b> |                     |
|       | Chief Engineer  | 2                 | Chairman  | 1             |                     |
|       | Senior Environmental Engineer   | 5                 | Member Secretary                                | 1             |                     |
|       | Environmental Engineer  | 14                | Senior Personnel Manager                        | 1             |                     |
|       | Assistant Environmental Engineer  | 34                | Deputy Secretary                                | 1             |                     |
|       | Junior Environmental Engineer   | 12                | Administrative Officer                          | 1             |                     |
|       | Draftsman   | 0                 | Public Relation Officer                         | 1             |                     |
|       | Tracer  | 0                 | Librarian                                       | 0             |                     |
|       | Chief Scientist   | 1                 | Superintendent                                  | 2             |                     |
|       | Senior Scientist  | 3                 | Information Officer                             | 0             |                     |
|       | Scientist   | 6                 | Head Assistant                                  | 4             |                     |
|       | Junior Scientist  | 7                 | Head Clerk                                      | 1             |                     |
|       | Environmental Analyst   | 11                | Stenographer / Personal Assistant               | 6             |                     |
|       | Laboratory Assistant  | 7                 | Upper Division Assistant                        | 18            |                     |
|       | Junior Environmental Assistant  | 13                | Lower Division Assistant                        | 3             |                     |
|       | Laboratory Attendant  | 0                 | Typist  | 0             |                     |
|       | Programmer  | 0                 | Typist-cum-Clerk                                | 0             |                     |
|       | Computer Operator   | 4                 | Driver  | 0             |                     |
|       | System Analyst  | 0                 | Record Supplier                                 | 0             |                     |
|       |   |                   | Group -D  | 6             |                     |
|       |   |                   | Finance & Accounts Manager                      | 1             |                     |
|       |   |                   | Assistant Finance Manager /<br>Accounts Officer | 3             |                     |
|       |   |                   | Junior Accounts Officer                         | 3             |                     |
|       |   |                   | Senior Accounts Clerk                           | 3             |                     |
|       |   |                   | Accounts Clerk                                  | 2             |                     |
|       |   |                   | Senior Law Officer                              | 1             |                     |
|       |   |                   | Law Officer                                     | 0             |                     |
|       |   |                   | Assistant Law Officer                           | 0             |                     |
|       | <b>Total</b>  | <b>119</b>        | <b>Total</b>                                    | <b>59</b>     |                     |
|       | There is no Ministerial staff in WBPCB. The ratio of Administrative vs. Technical staff is 1:2. |                   |   |               |                     |

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| 3 Regulating And Monitoring Facility Available                                       |                                 |  |                            |                       |                                 |                           |                             |                            |                           |  |
|--|---------------------------------|--|----------------------------|-----------------------|---------------------------------|---------------------------|-----------------------------|----------------------------|---------------------------|--|
| Central Laboratory   |                                 | Regional Laboratories                    |                            | Total                 | No. of EPA Approved labs        | No. of NABL Approved labs | No. of OH&SAS Approved labs |                            |                           |  |
| 01   |                                 | 06                                       |                            | 07                    | 01                              | 02                        | 02                          |                            |                           |  |
| 4. Sanctioned strength and present working strength in laboratory                    |                                 |  |                            |                       |                                 |                           |                             |                            |                           |  |
| Number of Sanctioned Staff in Lab.   |                                 |  |                            |                       | Number of Working Staff in Lab. |                           |                             |                            |                           |  |
| 74   |                                 |  |                            |                       | 48                              |                           |                             |                            |                           |  |
| 5 Further Need of Equipment's and Infrastructure in Labs                             |                                 |  |                            |                       |                                 |                           |                             |                            |                           |  |
| Number of Equipment's available  |                                 |  |                            |                       |                                 |                           | Further need of Equipment's |                            |                           |  |
| Durgapur Regional Lab  | Barrackpore Regional Lab        | Siliguri Regional Lab                    | Central Lab                | Haldia Regional Lab   | Malda Regional Lab              | Asansol Regional Lab      |                             |                            |                           |  |
| 40   | 39                              | 19                                       | 39                         | 34                    | 17*                             | 22*                       | ANNEXURE-I                  |                            |                           |  |
| *Laboratory (Malda R.L. & Asansol Air Lab) development is under progress.            |                                 |  |                            |                       |                                 |                           |                             |                            |                           |  |
| 6. a) Details of Parameters Analysed in Central and Regional Laboratories combined:- |                                 |  |                            |                       |                                 |                           |                             |                            |                           |  |
| Sr. No   | Water Parameter                 | Soil, Solid Waste & Hazardous Parameters | Air Parameters             | Biological Parameters | Stack gases / Source emission   | Noise Level Monitoring    | Pesticides                  | Trace Metals               | Meteorological parameters |  |
| 1.   | Ammoniacal - N                  | Arsenic (As)                             | Ammonia (NH <sub>3</sub> ) | E. coli               | Particulate Matter              | Yes                       | Alpha - BHC                 | Arsenic (As)               | Temperature               |  |
| 2.   | Biochemical Oxygen Demand (BOD) | Cadmium (Cd)                             | Arsenic (As)               | Fecal Coliform        | Mercury                         |                           | Beta - BHC                  | Cadmium (Cd)               | Humidity                  |  |
| 3.   | Boron                           | Chromium hexavalent (Cr+6)               | Benz-a-Pyrene (BAP)        | Fecal Streptococci    | Lead                            |                           | Endosulphan - I             | Chromium hexavalent (Cr+6) | Wind Direction            |  |
| 4.   | Calcium                         | Chromium Total (Cr Total)                | Lead (Pb)                  | Total Coliform        | Fluoride                        |                           | Aldrin                      | Chromium Total (Cr Total)  |                           |  |
| 5.   | Chemical Oxygen Demand (COD)    | Cobalt (Co)                              | Nickel (Ni)                |                       |                                 |                           | Chlorpyrifos                | Copper (Cu)                |                           |  |
| 6.   | Chloride                        | Copper (Cu)                              | PM 2.5                     |                       |                                 |                           | Dieldrin                    | Iron (Fe)                  |                           |  |



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|    |  |                                     |  |  |  |  |  |  |  |  |
|----|--|-------------------------------------|--|--|--|--|--|--|--|--|
|    | 27.  | Temperature (Water)                 |  |  |  |  |  |  |  |  |
|    | 28.  | Total Alkalinity                    |  |  |  |  |  |  |  |  |
|    | 29.  | Total Dissolved Solids (TDS)        |  |  |  |  |  |  |  |  |
|    | 30.  | Total Fixed Solids (TFS)            |  |  |  |  |  |  |  |  |
|    | 31.  | Total Hardness as CaCO <sub>3</sub> |  |  |  |  |  |  |  |  |
|    | 32.  | Total Nitrogen                      |  |  |  |  |  |  |  |  |
|    | 33.  | Total Phosphorus                    |  |  |  |  |  |  |  |  |
|    | 34.  | Total Solids                        |  |  |  |  |  |  |  |  |
|    | 35.  | Total Suspended Solids (TSS)        |  |  |  |  |  |  |  |  |
|    | 36.  | Turbidity                           |  |  |  |  |  |  |  |  |
|    | 37.  | Total Kjeldahl Nitrogen (TKN)       |  |  |  |  |  |  |  |  |
| 6. | <b>b) Details of Parameters Analysed in Central and Regional Laboratories separate:- ANNEXURE-II</b> |                                     |  |  |  |  |  |  |  |  |
| 7. | <b>Provisions Made for Enforcement and Monitoring in Critically Polluted Areas, if applicable</b>    |                                     |  |  |  |  |  |  |  |  |
|    | There is no Critically Polluted Area in West Bengal at present.                                      |                                     |  |  |  |  |  |  |  |  |

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|   |   |                          |                    |                      |                    |                         |                    |  |
|---|---|--------------------------|--------------------|----------------------|--------------------|-------------------------|--------------------|--|
| 8.  | <b>Availability of Budget and its sources and expenditure in last two years (2020-21 and 2021-22) (in Lakh Rs.)</b> |                          |                    |                      |                    |                         |                    |  |
| <b>1. Income Generated by Board / Committee</b>   |   |                          |                    |                      |                    |                         |                    |  |
| <i>From Consent &amp; Authorisation Mechanism</i>   |   | <i>From Lab Analysis</i> |                    | <i>Bank Interest</i> |                    | <i>Any Other Income</i> |                    |  |
| <i>F.Y.2020-21</i>  | <i>F.Y.2021-22</i>  | <i>F.Y.2020-21</i>       | <i>F.Y.2021-22</i> | <i>F.Y.2020-21</i>   | <i>F.Y.2021-22</i> | <i>F.Y.2020-21</i>      | <i>F.Y.2021-22</i> |  |
| 1932.71   | 4296.94   | 49.24                    | 51.63              | 4109.45              | 686.64             | 3.54                    | 60.11              |  |
| <b>Expenditure from the Income of Board</b>   |   |                          |                    |                      |                    | <i>F.Y.2020-21</i>      | <i>F.Y.2021-22</i> |  |
|   |   |                          |                    |                      |                    | 6663.04                 | 3534.01            |  |
| <b>2. Environmental Compensation fund of NGT received from CPCB, if any</b>               |   |                          |                    |                      |                    |                         |                    |  |
| <b>Fund Received from CPCB</b>  |   |                          |                    | <b>Expenditure</b>   |                    |                         |                    |  |
| <i>F.Y.2020-21</i>  |   | <i>F.Y.2021-22</i>       |                    | <i>F.Y.2020-21</i>   |                    | <i>F.Y.2021-22</i>      |                    |  |
| NIL   |   | NIL                      |                    | NIL                  |                    | NIL                     |                    |  |
| <b>3. EC Fund collected by respective Board / Committee as per NGT / Board Directions</b> |   |                          |                    |                      |                    |                         |                    |  |
| <b>Fund Received from State</b>   |   |                          |                    | <b>Expenditure</b>   |                    |                         |                    |  |
| <i>F.Y.2020-21</i>  |   | <i>F.Y.2021-22</i>       |                    | <i>F.Y.2020-21</i>   |                    | <i>F.Y.2021-22</i>      |                    |  |
| 1421.70   |   | 173.60                   |                    | 10.16                |                    | 2.47                    |                    |  |
| <b>4. Grant-in-Aid from States / UT, if applicable</b>                                    |   |                          |                    |                      |                    |                         |                    |  |
| <b>Fund Received from State (PLAN)</b>  |   |                          |                    | <b>Expenditure</b>   |                    |                         |                    |  |
| <i>F.Y.2020-21</i>  |   | <i>F.Y.2021-22</i>       |                    | <i>F.Y.2020-21</i>   |                    | <i>F.Y.2021-22</i>      |                    |  |
| 193.34  |   | 211.31                   |                    | 193.34               |                    | 211.31                  |                    |  |
| <b>5. Any other</b>   |   |                          |                    |                      |                    |                         |                    |  |
| <b>Fund Received from State (NON-PLAN)</b>  |   |                          |                    | <b>Expenditure</b>   |                    |                         |                    |  |
| <i>F.Y.2020-21</i>  |   | <i>F.Y.2021-22</i>       |                    | <i>F.Y.2020-21</i>   |                    | <i>F.Y.2021-22</i>      |                    |  |
| 636.13  |   | 792.82                   |                    | 636.13               |                    | 792.82                  |                    |  |
| 9   | <b>Please enclose the list of infrastructure available and needed separately with this report.</b>                  |                          |                    |                      |                    |                         |                    |  |
|   | a) List of lab infrastructure (instruments and equipment) available: ANNEXURE-III                                   |                          |                    |                      |                    |                         |                    |  |
|   | b) List of lab infrastructure (instruments and equipment) Needed: ANNEXURE-IV                                       |                          |                    |                      |                    |                         |                    |  |

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**ANNEXURE-I****Instruments / Equipment Needed**

| Sl. No | Name of the Instruments                                   | West Bengal Pollution Control Board |                          |                    |                     |                       |                      |                                    | Durgapur Regional Lab |
|--------|---|-------------------------------------|--------------------------|--------------------|---------------------|-----------------------|----------------------|------------------------------------|-----------------------|
|        |   | Central Lab                         | Barrackpore Regional Lab | Malda Regional Lab | Haldia Regional Lab | Siliguri Regional Lab | Asansol Regional Lab |                                    |                       |
| 1.     | Analytical Balance (weighing upto 0.01 mg)                | 0                                   | 1                        | 1                  |                     | 1                     |                      | No Instruments / Equipment Needed. |                       |
| 2.     | AOX / TOX Analyzer  | 1                                   | 1                        | 0                  |                     |                       |                      |                                    |                       |
| 3.     | Atomic Absorption Spectrophotometer (Flame)               | 0                                   | 0                        | 1                  |                     |                       |                      |                                    |                       |
| 4.     | Autoclave   | 1                                   | 1                        | 1                  | 1                   | 2                     |                      |                                    |                       |
| 5.     | Automatic Burette (Digital-50 ml)                         | 2                                   | 2                        | 2                  |                     |                       |                      |                                    |                       |
| 6.     | Bottom Sampler  | 1                                   | 1                        | 1                  |                     |                       |                      |                                    |                       |
| 7.     | BOD Incubator   | 2                                   | 2                        | 2                  | 1                   |                       |                      |                                    |                       |
| 8.     | Centrifuge  | 1                                   | 1                        | 1                  |                     |                       |                      |                                    |                       |
| 9.     | COD Digester with Aluminium Heating Block System          | 0                                   | 1                        | 2                  | 1                   | 1                     |                      |                                    |                       |
| 10.    | Colony Counter (Electronic)                               | 0                                   | 1                        | 1                  |                     |                       |                      |                                    |                       |
| 11.    | Conductivity Meter  | 1                                   | 1                        | 2                  | 1                   | 1                     | 1                    |                                    |                       |
| 12.    | Current Meter   | 1                                   | 1                        | 1                  | 1                   | 1                     |                      |                                    |                       |
| 13.    | Depth Sampler   | 1                                   | 1                        | 1                  | 1                   | 1                     |                      |                                    |                       |
| 14.    | Digester with condensers                                  | 2                                   | 2                        | 2                  |                     | 1                     |                      |                                    |                       |
| 15.    | Dissolved Oxygen Meter                                    | 1                                   | 1                        | 1                  | 1                   | 1                     |                      |                                    |                       |
| 16.    | Flame Photometer  | 0                                   | 1                        | 1                  |                     |                       |                      |                                    |                       |
| 17.    | Filtration Assembly with Vacuum Pump                      | 0                                   | 1                        | 2                  |                     |                       |                      |                                    |                       |
| 18.    | Hot Air Oven  | 1                                   | 1                        | 2                  | 1                   | 1                     |                      |                                    |                       |
| 19.    | Hot Plates (different sizes)                              | 1                                   | 1                        | 2                  |                     |                       |                      |                                    |                       |
| 20.    | Incubators for bacteriological test                       | 0                                   | 0                        | 2                  |                     | 2                     |                      |                                    |                       |
| 21.    | Laminar Flow (Inoculation Chamber)                        | 0                                   | 0                        | 1                  |                     |                       |                      |                                    |                       |
| 22.    | Liquid Handling System (Dispensers)                       | 1                                   | 1                        | 2                  |                     |                       |                      |                                    |                       |
| 23.    | Magnetic Stirrer with hot plate                           | 3                                   | 3                        | 3                  |                     |                       |                      |                                    |                       |
| 24.    | Mechanical Shaker   | 2                                   | 2                        | 2                  |                     |                       |                      |                                    |                       |
| 25.    | Muffle Furnace  | 0                                   | 0                        | 1                  |                     |                       |                      |                                    |                       |
| 26.    | pH meter with combined gas electrode                      | 2                                   | 2                        | 2                  | 1                   | 1                     | 1                    |                                    |                       |
| 27.    | Portable Analyzer Kit (DO, pH, Temp, Cond)                | 1                                   | 0                        | 0                  |                     |                       |                      |                                    |                       |
| 28.    | Specific Ion Meter (Microprocessor controlled)            | 1                                   | 1                        | 1                  | 1                   | 1                     |                      |                                    |                       |
| 29.    | Spectrophotometer (UV visible)                            | 0                                   | 0                        | 1                  | 1                   | 1                     |                      |                                    |                       |
| 30.    | Spectrophotometer (visible)                               | 2                                   | 2                        | 1                  |                     |                       |                      |                                    |                       |
| 31.    | Standard weights  | 0                                   | 0                        | 1                  |                     |                       |                      |                                    |                       |
| 32.    | TKN Analyser semi automatic with aluminium block digester | 1                                   | 1                        | 1                  |                     |                       |                      |                                    |                       |
| 33.    | Water Purification System (RO based)                      | 0                                   | 0                        | 1                  | 1                   |                       |                      |                                    |                       |

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| Sl. No | Name of the Instruments                                    | West Bengal Pollution Control Board |                          |                    |                     |                       |                      |                       |  |
|--------|--|-------------------------------------|--------------------------|--------------------|---------------------|-----------------------|----------------------|-----------------------|--|
|        |  | Central Lab                         | Barrackpore Regional Lab | Malda Regional Lab | Haldia Regional Lab | Siliguri Regional Lab | Asansol Regional Lab | Durgapur Regional Lab |  |
| 34.    | Water Distillation Assembly (Glass)                        | 0                                   | 0                        | 1                  |                     |                       |                      |                       |  |
| 35.    | Water Bath (thermostatic control)                          | 1                                   | 1                        | 1                  | 1                   | 1                     |                      |                       |  |
| 36.    | Conductivity Meter with electrode                          |                                     |                          |                    |                     |                       |                      |                       |  |
| 37.    | Desiccator   |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 38.    | Distilled H <sub>2</sub> O Apparatus Milli-q system        |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 39.    | Fridge 4°C   |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 40.    | Micropipette Eppendorf                                     |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 41.    | Pipette Container  |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 42.    | Icebox box   |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 43.    | Balance Macro  |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 44.    | Hot Air oven   |                                     |                          |                    |                     |                       |                      |                       |  |
| 45.    | Heating Mantle   |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 46.    | Balance 5 Digit  |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 47.    | Micropipette   |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 48.    | Thermometer  |                                     |                          |                    |                     |                       | 5                    |                       |  |
| 49.    | Computer with Accessories (Desktop, Printer, Scanner, UPS) |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 50.    | Air Conditioner  |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 51.    | Stack Monitoring kit                                       |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 52.    | Respirable Dust Sampler PM <sub>10</sub>                   |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 53.    | PM <sub>2.5</sub> Dust Samplers.                           |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 54.    | Orset Operators  |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 55.    | Barometer  |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 56.    | Spectro Photometer   |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 57.    | Desiccator   |                                     |                          |                    |                     |                       | 1                    |                       |  |
| 58.    | Distilled H <sub>2</sub> O Apparatus Milli-q system        |                                     |                          |                    |                     |                       | 1                    |                       |  |

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**ANNEXURE-II****Details of Parameters Analysed in Central and Regional Laboratories**Haldia Regional Laboratory

| <i>Sl. No.</i>                    | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i>       | <i>Sl. No.</i> | <i>Name of the Parameters</i> |
|-----------------------------------|-------------------------------|----------------|-------------------------------------|----------------|-------------------------------|
| <b>Water Parameters</b>           |                               |                |                                     |                |                               |
| 1.                                | BOD                           | 2.             | Conductivity                        | 3.             | DO                            |
| 4.                                | pH                            | 5.             | Temp                                | 6.             | Ca Hardness                   |
| 7.                                | Mg Hardness                   | 8.             | Total Hardness as CaCO <sub>3</sub> | 9.             | Chloride                      |
| 10.                               | COD                           | 11.            | P-Alkalinity                        | 12.            | Total Alkalinity              |
| 13.                               | Na                            | 14.            | K                                   | 15.            | TSS                           |
| 16.                               | Sulphide                      | 17.            | Oil and Grease                      | 18.            | Salinity                      |
| <b>Microbiological Parameters</b> |                               |                |                                     |                |                               |
| 1.                                | TC                            | 2.             | FC                                  | 3.             | EC                            |
| 4.                                | FS                            |                |                                     |                |                               |

Barrackpore Regional Laboratory

| <i>Sl. No.</i>                      | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i>       |
|-------------------------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------------|
| <b>Water Parameters</b>             |                               |                |                               |                |                                     |
| 1.                                  | BOD                           | 2.             | Conductivity                  | 3.             | DO                                  |
| 4.                                  | Nitrate – N                   | 5.             | pH                            | 6.             | Temp                                |
| 7.                                  | B                             | 8.             | Ca Hardness                   | 9.             | Chloride                            |
| 10.                                 | COD                           | 11.            | Fluoride                      | 12.            | Mg Hardness                         |
| 13.                                 | Total Nitrogen                | 14.            | Nitrite – N                   | 15.            | P-Alkalinity                        |
| 16.                                 | Total Phosphorus              | 17.            | Phosphate – P                 | 18.            | K                                   |
| 19.                                 | Na                            | 20.            | Sulphate                      | 21.            | Total Alkalinity                    |
| 22.                                 | TDS                           | 23.            | TFS                           | 24.            | Total Hardness as CaCO <sub>3</sub> |
| 25.                                 | TSS                           | 26.            | Turbidity                     | 27.            | Total Solids                        |
| 28.                                 | MLSS                          | 29.            | MLVSS                         | 30.            | SVI                                 |
| 31.                                 | Cyanide                       | 32.            | Sulphide                      | 33.            | Ammoniacal - N                      |
| 34.                                 | Phenols                       | 35.            | Oil and Grease                |                |                                     |
| <b>Heavy Metal Parameters</b>       |                               |                |                               |                |                                     |
| 1.                                  | As                            | 2.             | Cd                            | 3.             | Cr Total                            |
| 4.                                  | Cr+6                          | 5.             | Cu                            | 6.             | Fe                                  |
| 7.                                  | Pb                            | 8.             | Hg                            | 9.             | Ni                                  |
| 10.                                 | Zn                            | 11.            | Mn                            | 12.            | Co                                  |
| 13.                                 | Sb                            |                |                               |                |                                     |
| <b>Pesticide Parameters</b>         |                               |                |                               |                |                                     |
| 1.                                  | Alpha - BHC                   | 2.             | Gamma - BHC                   | 3.             | Endosulphan – I                     |
| 4.                                  | Aldrin                        | 5.             | Chlorpyriphos                 | 6.             | Dieldrin                            |
| 7.                                  | Anilophos                     | 8.             | Malathion                     | 9.             | Methyl Parathion                    |
| 10.                                 | o,p – DDT                     | 11.            | p,p – DDT                     | 12.            | Endosulphan – II                    |
| <b>Soil, Solid Waste Parameters</b> |                               |                |                               |                |                                     |
| 1.                                  | As                            | 2.             | Cd                            | 3.             | Cr Total                            |
| 4.                                  | Cu                            | 5.             | Fe                            | 6.             | Pb                                  |
| 7.                                  | Hg                            | 8.             | Ni                            | 9.             | Zn                                  |
| 10.                                 | Mn                            | 11.            | Co                            | 12.            | Sb                                  |
| <b>Microbiological Parameters</b>   |                               |                |                               |                |                                     |

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|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 1. | TC | 2. | FC | 3. | EC |
| 4. | FS |    |    |    |    |

Siliguri Regional Laboratory

| <i>Sl. No.</i>                    | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> |
|-----------------------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------|
| <b>Water Parameters</b>           |                               |                |                               |                |                               |
| 1.                                | COD                           | 2.             | Na                            | 3.             | K                             |
| 4.                                | Ca <sup>2+</sup>              | 5.             | Mg <sup>2+</sup>              | 6.             | Total-Hardness                |
| 7.                                | Total Alkalinity              | 8.             | TDS                           | 9.             | TSS                           |
| 10.                               | pH                            | 11.            | DO                            | 12.            | BOD                           |
| 13.                               | Conductivity                  | 14.            | Temp                          | 15.            | Chloride                      |
| <b>Microbiological Parameters</b> |                               |                |                               |                |                               |
| 1.                                | TC                            | 2.             | FC                            | 3.             | FS                            |

Central Laboratory

| <i>Sl. No.</i>                    | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i>       |
|-----------------------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------------|
| <b>Water Parameters</b>           |                               |                |                               |                |                                     |
| 1.                                | BOD                           | 2.             | Conductivity                  | 3.             | DO                                  |
| 4.                                | Nitrate – N                   | 5.             | pH                            | 6.             | Temp                                |
| 7.                                | B                             | 8.             | Ca                            | 9.             | Chloride                            |
| 10.                               | COD                           | 11.            | Fluoride                      | 12.            | Mg                                  |
| 13.                               | Total Nitrogen                | 14.            | Nitrite – N                   | 15.            | P-Alkalinity                        |
| 16.                               | Total Phosphorus              | 17.            | Phosphate – P                 | 18.            | K                                   |
| 19.                               | Na                            | 20.            | Sulphate                      | 21.            | Total Alkalinity                    |
| 22.                               | TDS                           | 23.            | TFS                           | 24.            | Total Hardness as CaCO <sub>3</sub> |
| 25.                               | TSS                           | 26.            | Turbidity                     | 27.            | Total Solids                        |
| 28.                               | MLSS                          | 29.            | MLVSS                         | 30.            | SVI                                 |
| 31.                               | Cyanide                       | 32.            | Sulphide                      | 33.            | Ammoniacal - N                      |
| 34.                               | Phenols                       | 35.            | TKN                           | 36.            | Oil and Grease                      |
| <b>Heavy Metal Parameters</b>     |                               |                |                               |                |                                     |
| 1.                                | As                            | 2.             | Cd                            | 3.             | Cr Total                            |
| 4.                                | Cr+6                          | 5.             | Cu                            | 6.             | Fe                                  |
| 7.                                | Pb                            | 8.             | Hg                            | 9.             | Ni                                  |
| 10.                               | Zn                            | 11.            | Mn                            | 12.            | Co                                  |
| <b>Pesticide Parameters</b>       |                               |                |                               |                |                                     |
| 1.                                | Alpha - BHC                   | 2.             | Beta - BHC                    | 3.             | Endosulphan – I                     |
| 4.                                | Aldrin                        | 5.             | Chlorpyriphos                 | 6.             | Dieldrin                            |
| 7.                                | Anilophos                     | 8.             | Gamma -BHC                    | 9.             | Malathion                           |
| 10.                               | Methyl Parathion              | 11.            | o,p – DDT                     | 12.            | p,p – DDT                           |
| <b>Microbiological Parameters</b> |                               |                |                               |                |                                     |
| 1.                                | TC                            | 2.             | FC                            | 3.             | EC                                  |
| 4.                                | FS                            |                |                               |                |                                     |
| <b>Ambient Air Parameters</b>     |                               |                |                               |                |                                     |
| 1.                                | PM10                          | 2.             | PM2.5                         | 3.             | SOx                                 |
| 4.                                | NOx                           |                |                               |                |                                     |
| <b>Stack Parameters</b>           |                               |                |                               |                |                                     |
| 1.                                | PM                            | 2.             | Mercury                       | 3.             | Lead                                |
| 4.                                | Fluoride                      |                |                               |                |                                     |

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Durgapur Regional Laboratory

| <i>Sl. No.</i>                    | <i>Name of the Parameters</i>       | <i>Sl. No.</i> | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> |
|-----------------------------------|-------------------------------------|----------------|-------------------------------|----------------|-------------------------------|
| <b>Water Parameters</b>           |                                     |                |                               |                |                               |
| 1.                                | BOD                                 | 2.             | Conductivity                  | 3.             | DO                            |
| 4.                                | Nitrate – N                         | 5.             | pH                            | 6.             | B                             |
| 7.                                | Ca                                  | 8.             | Chloride                      | 9.             | COD                           |
| 10.                               | Fluoride                            | 11.            | P-Alkalinity                  | 12.            | Phosphate – P                 |
| 13.                               | K                                   | 14.            | Na                            | 15.            | Sulphate                      |
| 16.                               | Total Alkalinity                    | 17.            | TDS                           | 18.            | TFS                           |
| 19.                               | Total Hardness as CaCO <sub>3</sub> | 20.            | TSS                           | 21.            | Turbidity                     |
| 22.                               | Cyanide                             | 23.            | Sulphide                      | 24.            | Ammoniacal - N                |
| 25.                               | Phenols                             | 26.            | Oil and Grease                |                |                               |
| <b>Heavy Metal Parameters</b>     |                                     |                |                               |                |                               |
| 1.                                | As                                  | 2.             | Cd                            | 3.             | Cr Total                      |
| 4.                                | Cr+6                                | 5.             | Cu                            | 6.             | Fe                            |
| 7.                                | Pb                                  | 8.             | Hg                            | 9.             | Ni                            |
| 10.                               | Zn                                  |                |                               |                |                               |
| <b>Pesticide Parameters</b>       |                                     |                |                               |                |                               |
| 1.                                | Alpha - BHC                         | 2.             | Beta - BHC                    | 3.             | Endosulphan – I               |
| 4.                                | Aldrin                              | 5.             | Chlorpyriphos                 | 6.             | Dieldrin                      |
| 7.                                | Anilophos                           | 8.             | Gamma -BHC                    | 9.             | Malathion                     |
| 10.                               | Methyl Parathion                    | 11.            | o,p – DDT                     | 12.            | p,p – DDT                     |
| <b>Microbiological Parameters</b> |                                     |                |                               |                |                               |
| 1.                                | TC                                  | 2.             | FC                            | 3.             | FS                            |

Malda Regional Laboratory

| <i>Sl. No.</i>                    | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> |
|-----------------------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------|
| <b>Water Parameters</b>           |                               |                |                               |                |                               |
| 1.                                | COD                           | 2.             | Na                            | 3.             | K                             |
| 4.                                | Ca <sup>2+</sup>              | 5.             | Mg <sup>2+</sup>              | 6.             | Total-Hardness                |
| 7.                                | Total Alkalinity              | 8.             | TDS                           | 9.             | TSS                           |
| 10.                               | pH                            | 11.            | DO                            | 12.            | BOD                           |
| 13.                               | EC                            | 14.            | TSS                           | 15.            | Temp                          |
| 16.                               | Chloride                      |                |                               |                |                               |
| <b>Microbiological Parameters</b> |                               |                |                               |                |                               |
| 1.                                | TC                            | 2.             | FC                            | 3.             | FS                            |

Asansol Regional Laboratory

| <i>Sl. No.</i>        | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> | <i>Sl. No.</i> | <i>Name of the Parameters</i> |
|-----------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------|
| <b>Air Parameters</b> |                               |                |                               |                |                               |
| 1.                    | SO <sub>x</sub>               | 2.             | NO <sub>x</sub>               | 3.             | PM10                          |
| 4.                    | PM2.5                         | 5.             | Pb                            | 6.             | NH <sub>3</sub>               |
| 7.                    | As                            | 8.             | Ni                            | 9.             | BAP                           |

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**ANNEXURE-III****Instrument & Equipment Available**Haldia Regional Laboratory

| <i>Sl. No.</i> | <i>Name of the Instrument</i>  | <i>Sl. No.</i> | <i>Name of the Instrument</i>       | <i>Sl. No.</i> | <i>Name of the Instrument</i>                |
|----------------|--|----------------|-------------------------------------|----------------|--|
| 1.             | Autoclave (1)  | 2.             | Autopipette (2)                     | 3.             | Analytical Balance (1)                       |
| 4.             | Rough Balance /<br>Electronic Digital<br>weighing Scale (1)                          | 5.             | Double Pan manual<br>Balance (1)    | 6.             | Bunsen Burner (1)                            |
| 7.             | COD Hot Plate (1)  | 8.             | Conductivity Meter (1)              | 9.             | Conductivity Electrode<br>(1)                |
| 10.            | Cyclomixer / Vortex (1)  | 11.            | Dispensate (3)                      | 12.            | Flame Photometer (1)                         |
| 13.            | Heating Mantle (1)   | 14.            | Incubator for BOD (2)               | 15.            | Incubator for<br>Bacteriology (1)            |
| 16.            | Laminar Air Flow<br>Chamber (1)  | 17.            | Magnetic stirrer (1)                | 18.            | Muffle furnace (1)                           |
| 19.            | Oven (Hot air) (1)   | 20.            | pH Meter (Pocket Tester)<br>(1)     | 21.            | Ambient air Quality<br>Monitoring Device (1) |
| 22.            | Microprocessor controlled<br>stable Beam scanning<br>UV-VIS<br>Spectrophotometer (1) | 23.            | Refractometer (1)                   | 24.            | Screw Driver Set (1)                         |
| 25.            | Suction Pump (1)   | 26.            | Spinix Mixer (1)                    | 27.            | Thermoreactor (1)                            |
| 28.            | Water Bath (1)   | 29.            | Water distillation<br>apparatus (1) | 30.            | Temperature & Humidity<br>Meter (1)          |
| 31.            | Water purification system<br>(1)   | 32.            | Stack Monitoring Kit (1)            | 33.            | High Volume Sampler (1)                      |
| 34.            | UV-Visible double Bim<br>(1)   |                |                                     |                |  |

Barrackpore Regional Laboratory

| <i>Sl. No.</i> | <i>Name of the Instrument</i>                      | <i>Sl. No.</i> | <i>Name of the Instrument</i>                 | <i>Sl. No.</i> | <i>Name of the Instrument</i>         |
|----------------|--|----------------|---|----------------|---------------------------------------|
| 1.             | AAS with all accessories<br>(1)                    | 2.             | Gas Chromatograph with<br>all accessories (1) | 3.             | Rotary Vacuum<br>Evaporator (1)       |
| 4.             | Circulating Water Bath /<br>Cooling Bath (1)       | 5.             | UPS System (15 KVA)<br>(1)                    | 6.             | UPS System (5 KVA) (1)                |
| 7.             | UPS System (2 KVA) (1)                             | 8.             | Fume Chamber (1)                              | 9.             | Analytical Balance (3)                |
| 10.            | UV-VIS<br>Spectrophotometer and<br>accessories (1) | 11.            | Muffle Furnace (1)                            | 12.            | Refrigerator (5)                      |
| 13.            | Double door Refrigerator<br>(2)                    | 14.            | Hot Air Oven (1)                              | 15.            | Rotary High Vacuum<br>Pump (1)        |
| 16.            | Incubator Bacterial (2)                            | 17.            | Autoclave (Sterilizer) (1)                    | 18.            | Autoclave (Model-<br>Vertical) (1)    |
| 19.            | BOD Incubator (2)                                  | 20.            | Thermoreactor (2)                             | 21.            | Clean Bench (Laminar<br>Air Flow) (1) |
| 22.            | Spinix, Vortex Mixture (1)                         | 23.            | RigoHeyroth Type Water<br>Sampler (2)         | 24.            | Rigo Van Dorn Water<br>sampler (1)    |
| 25.            | Colony Counter (1)                                 | 26.            | pH Meter (1)                                  | 27.            | Conductivity Meter (1)                |

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| <i>Sl. No.</i> | <i>Name of the Instrument</i>        | <i>Sl. No.</i> | <i>Name of the Instrument</i>    | <i>Sl. No.</i> | <i>Name of the Instrument</i> |
|----------------|--------------------------------------|----------------|----------------------------------|----------------|-------------------------------|
| 28.            | Magnetic Stirrer (1)                 | 29.            | Magnetic Stirrer with Heater (1) | 30.            | Ultrasonic (1)                |
| 31.            | Ion Meter with all accessories (1)   | 32.            | Water Bath with Stirrer (1)      | 33.            | Water Purification system (1) |
| 34.            | Microcontroller Flame Photometer (1) | 35.            | MDS (1)                          | 36.            | Hot Air Oven (1)              |
| 37.            | Oil free high vacuum pump (1)        | 38.            | Water Purification System (1)    | 39.            | Mechanical Shaker (1)         |

Siliguri Regional Laboratory

| <i>Sl. No.</i> | <i>Name of the Instrument</i>          | <i>Sl. No.</i> | <i>Name of the Instrument</i> | <i>Sl. No.</i> | <i>Name of the Instrument</i>                                     |
|----------------|--|----------------|-------------------------------|----------------|---|
| 1.             | pH meter (1)                           | 2.             | Conductivity Meter (1)        | 3.             | BOD Incubator (1)   |
| 4.             | Manual Autoclave (1)                   | 5.             | Bacteriological Incubator (1) | 6.             | Precision / Fine Electrical Balance (1)                           |
| 7.             | Hot Air Oven (1)                       | 8.             | Circulating Water Bath (1)    | 9.             | UV Vis –Double Beam Spectrophotometer (One received recently) (2) |
| 10.            | COD Hotplate Open reflux (2)           | 11.            | Cyclomixer (1)                | 12.            | Flame Photometer (1)  |
| 13.            | COD Block Digester (2)                 | 14.            | Laminar Air Flow (1)          | 15.            | Magnetic Stirrer (1)  |
| 16.            | Glass Water Distillating Apparatus (1) | 17.            | Computers (5)                 | 18.            | Printers (3)  |
| 19.            | Refrigerator (3)                       |                |                               |                |   |

Central Laboratory

| <i>Sl. No.</i> | <i>Name of the Instrument</i>                              | <i>Sl. No.</i> | <i>Name of the Instrument</i>                  | <i>Sl. No.</i> | <i>Name of the Instrument</i>                     |
|----------------|--|----------------|--|----------------|---|
| 1.             | Autopipette (6)  | 2.             | Glass Thermometer (6)                          | 3.             | Thermoreactor (3)                                 |
| 4.             | Rough Balance (1)  | 5.             | Analytical Balance (3)                         | 6.             | Weighing Balance Micro Balance (1)                |
| 7.             | Muffle Furnace (1)   | 8.             | BOD Incubator (1)                              | 9.             | Autoclave (1)                                     |
| 10.            | Digital Temperature Indicator of Digester Block Heater (1) | 11.            | Vaccum Drying Oven (1)                         | 12.            | Digital sound Level Meter (1)                     |
| 13.            | Bacteriological Incubator (1)                              | 14.            | Standard Weight Box (E2 Class) (1)             | 15.            | FRM Model 2000 Partisol PM 2.5 Dust Analyzer (6)  |
| 16.            | BOD Incubator (2)  | 17.            | Bacteriological Incubator (2)                  | 18.            | MDS (2)   |
| 19.            | Autometic Flash Point Tester (1)                           | 20.            | Bomb Calorimeter (1)                           | 21.            | Hot Air Oven (Digital Temperature Controller) (1) |
| 22.            | Digital Temperature Controller of Water Bath (1)           | 23.            | Digital Electronic Balance (Rough Balance) (1) | 24.            | Glass Thermometer (Broken) (1)                    |
| 25.            | Water Purification System (newly Procured) (1)             | 26.            | Microbiological Safety Cabinet (1)             | 27.            | Digital Temperature Controller of Water bath (1)  |
| 28.            | APM 460 BL   | 29.            | Autoclave (newly                               | 30.            | Weighing Balance                                  |

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| <i>Sl. No.</i> | <i>Name of the Instrument</i>   | <i>Sl. No.</i> | <i>Name of the Instrument</i>                | <i>Sl. No.</i> | <i>Name of the Instrument</i> |
|----------------|---|----------------|--|----------------|-------------------------------|
|                | i) Flow rate of RDS; ii) Top loading Calibrator (APM 421); iii) Rotameter of gaseous attachment sampler (APM 411); iv) Time Totalizer of RDS (APM 460 BL) |                | procured for Microbiological Laboratory) (1) |                | (Electronic Balance) (1)      |
| 31.            | Digital Thermohygrometer (5)  | 32.            | Refrigerator (10)                            | 33.            | Digital Thermometer (1)       |
| 34.            | Spectrophotometer (1)   | 35.            | AAS (1)                                      | 36.            | GC-MS MS (1)                  |
| 37.            | ED XRF (1)  | 38.            | Ion Meter (1)                                | 39.            | TCLP (1)                      |

Durgapur Regional Laboratory

| <i>Sl. No.</i> | <i>Name of the Instrument</i>             | <i>Sl. No.</i> | <i>Name of the Instrument</i>   | <i>Sl. No.</i> | <i>Name of the Instrument</i>      |
|----------------|---|----------------|---------------------------------|----------------|------------------------------------|
| 1.             | Analytical Balance (3)                    | 2.             | Aspirator (1)                   | 3.             | Atomic Absorption Spectrometer (1) |
| 4.             | Autoclave (Sterilizer) (2)                | 5.             | Bacteriological Incubator (1)   | 6.             | BOD Incubator (2)                  |
| 7.             | Circulating Water Bath / Cooling Bath (1) | 8.             | Clean Bench (1)                 | 9.             | COD Hot Plate (1)                  |
| 10.            | Conductivity Meter (1)                    | 11.            | Cyclo Mixer (1)                 | 12.            | Digital Water Bath (1)             |
| 13.            | ELGA Water Purification System (1)        | 14.            | Flame photometer (Labard) (1)   | 15.            | Fume Chamber (2)                   |
| 16.            | Gas Chromatograph (1)                     | 17.            | Heating Mantle (2)              | 18.            | Hot Air Oven (4)                   |
| 19.            | Hygrometer (1)                            | 20.            | Ion Meter (1)                   | 21.            | Magnetic Stirrer (1)               |
| 22.            | Magnetic Stirrer with Heater (2)          | 23.            | Micro wave digester (1)         | 24.            | Muffle Furnace (1)                 |
| 25.            | Partisol (1)                              | 26.            | pH Meter (1)                    | 27.            | RDS Sampler (4)                    |
| 28.            | Refrigerator (6)                          | 29.            | Rotary Vacuum Evaporator (1)    | 30.            | Rough Balance (1)                  |
| 31.            | Spinix, Vortex Mixture (1)                | 32.            | Thermoandersen Flow Manager (1) | 33.            | Thermoreactor (2)                  |
| 34.            | Turbidity Meter (1)                       | 35.            | Ultrasonic Cleaner (1)          | 36.            | UPS System (15 KVA) (2)            |
| 37.            | UPS System (2 KVA) (1)                    | 38.            | UV-VIS Spectrophotometer (1)    | 39.            | Vacuum Pump (2)                    |
| 40.            | Water Bath with shaker (1)                |                |                                 |                |                                    |

Malda Regional Laboratory

| <i>Sl. No.</i> | <i>Name of the Instrument</i>           | <i>Sl. No.</i> | <i>Name of the Instrument</i> | <i>Sl. No.</i> | <i>Name of the Instrument</i>                                     |
|----------------|---|----------------|-------------------------------|----------------|---|
| 1.             | pH meter (1)                            | 2.             | Conductivity Meter (1)        | 3.             | Turbidity Meter (1)   |
| 4.             | BOD Incubator (2)                       | 5.             | Manual Autoclave (1)          | 6.             | Bacteriological Incubator (1)                                     |
| 7.             | Precision / Fine Electrical Balance (1) | 8.             | Hot Air Oven (1)              | 9.             | UV Vis -Double Beam Spectrophotometer (2) (One received recently) |
| 10.            | COD Hotplate Open                       | 11.            | Flame Photometer (1)          | 12.            | Laminar Air Flow (1)  |

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| <i>Sl. No.</i> | <i>Name of the Instrument</i> | <i>Sl. No.</i> | <i>Name of the Instrument</i>          | <i>Sl. No.</i> | <i>Name of the Instrument</i> |
|----------------|-------------------------------|----------------|--|----------------|-------------------------------|
|                | reflux (2)                    |                |  |                |                               |
| 13.            | Magnetic Stirrer (1)          | 14.            | Glass Water Distillating Apparatus (1) | 15.            | Computers (3)                 |
| 16.            | Printers (3)                  | 17.            | Refrigerator (3)                       |                |                               |

Asansol Regional Laboratory

| <i>Sl. No.</i> | <i>Name of the Instrument</i>                           | <i>Sl. No.</i> | <i>Name of the Instrument</i>         | <i>Sl. No.</i> | <i>Name of the Instrument</i>                              |
|----------------|---|----------------|---------------------------------------|----------------|--|
| 1.             | pH meter (1)  | 2.             | Conductivity Meter with electrode (1) | 3.             | Desiccator (1)   |
| 4.             | Distilled H <sub>2</sub> O Apparatus Milli-q system (1) | 5.             | Fridge 4°C (1)                        | 6.             | Micropipette Eppendorf (1)                                 |
| 7.             | Pipette Container (1)                                   | 8.             | Icebox box (1)                        | 9.             | Balance Macro (1)  |
| 10.            | Hot Air oven (1)  | 11.            | Heating Mantle (1)                    | 12.            | Balance 5 Digit (1)  |
| 13.            | Micropipette (1)  | 14.            | Thermometer (1)                       | 15.            | Computer with Accessories (Desktop, Printer, Scanner, UPS) |
| 16.            | Air Conditioner   | 17.            | Stack Monitoring kit (1)              | 18.            | Respirable Dust Sampler PM <sub>10</sub> (1)               |
| 19.            | PM <sub>2.5</sub> Dust Samplers (1)                     | 20.            | Orsat Apparatus (1)                   | 21.            | Barometer (1)  |
| 22.            | Spectro Photometer (1)                                  |                |                                       |                |  |

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ANNEXURE-IV**Instruments / Equipment Needed**

| Sl. No | Name of the Instruments                          | West Bengal Pollution Control Board |                          |                    |                     |                       |                      |  | Durgapur Regional Lab              |
|--------|--|-------------------------------------|--------------------------|--------------------|---------------------|-----------------------|----------------------|--|------------------------------------|
|        |  | Central Lab                         | Barrackpore Regional Lab | Malda Regional Lab | Haldia Regional Lab | Siliguri Regional Lab | Asansol Regional Lab |  |                                    |
| 1.     | Analytical Balance (weighing upto 0.01 mg)       | 0                                   | 1                        | 1                  |                     | 1                     |                      |  | No Instruments / Equipment Needed. |
| 2.     | AOX / TOX Analyzer                               | 1                                   | 1                        | 0                  |                     |                       |                      |  |                                    |
| 3.     | Atomic Absorption Spectrophotometer (Flame)      | 0                                   | 0                        | 1                  |                     |                       |                      |  |                                    |
| 4.     | Autoclave  | 1                                   | 1                        | 1                  | 1                   | 2                     |                      |  |                                    |
| 5.     | Automatic Burette (Digital-50 ml)                | 2                                   | 2                        | 2                  |                     |                       |                      |  |                                    |
| 6.     | Bottom Sampler                                   | 1                                   | 1                        | 1                  |                     |                       |                      |  |                                    |
| 7.     | BOD Incubator                                    | 2                                   | 2                        | 2                  | 1                   |                       |                      |  |                                    |
| 8.     | Centrifuge                                       | 1                                   | 1                        | 1                  |                     |                       |                      |  |                                    |
| 9.     | COD Digester with Aluminium Heating Block System | 0                                   | 1                        | 2                  | 1                   | 1                     |                      |  |                                    |
| 10.    | Colony Counter (Electronic)                      | 0                                   | 1                        | 1                  |                     |                       |                      |  |                                    |
| 11.    | Conductivity Meter                               | 1                                   | 1                        | 2                  | 1                   | 1                     | 1                    |  |                                    |
| 12.    | Current Meter                                    | 1                                   | 1                        | 1                  | 1                   | 1                     |                      |  |                                    |
| 13.    | Depth Sampler                                    | 1                                   | 1                        | 1                  | 1                   | 1                     |                      |  |                                    |
| 14.    | Digester with condensers                         | 2                                   | 2                        | 2                  |                     | 1                     |                      |  |                                    |
| 15.    | Dissolved Oxygen Meter                           | 1                                   | 1                        | 1                  | 1                   | 1                     |                      |  |                                    |
| 16.    | Flame Photometer                                 | 0                                   | 1                        | 1                  |                     |                       |                      |  |                                    |
| 17.    | Filtration Assembly with Vacuum Pump             | 0                                   | 1                        | 2                  |                     |                       |                      |  |                                    |
| 18.    | Hot Air Oven                                     | 1                                   | 1                        | 2                  | 1                   | 1                     |                      |  |                                    |
| 19.    | Hot Plates (different sizes)                     | 1                                   | 1                        | 2                  |                     |                       |                      |  |                                    |
| 20.    | Incubators for bacteriological test              | 0                                   | 0                        | 2                  |                     | 2                     |                      |  |                                    |
| 21.    | Laminar Flow (Inoculation Chamber)               | 0                                   | 0                        | 1                  |                     |                       |                      |  |                                    |
| 22.    | Liquid Handling System (Dispensers)              | 1                                   | 1                        | 2                  |                     |                       |                      |  |                                    |
| 23.    | Magnetic Stirrer with hot plate                  | 3                                   | 3                        | 3                  |                     |                       |                      |  |                                    |
| 24.    | Mechanical Shaker                                | 2                                   | 2                        | 2                  |                     |                       |                      |  |                                    |



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| Sl. No | Name of the Instruments                             | West Bengal Pollution Control Board |                          |                    |                     |                       |                      |                       |
|--------|---|-------------------------------------|--------------------------|--------------------|---------------------|-----------------------|----------------------|-----------------------|
|        |   | Central Lab                         | Barrackpore Regional Lab | Malda Regional Lab | Haldia Regional Lab | Siliguri Regional Lab | Asansol Regional Lab | Durgapur Regional Lab |
| 50.    | Air Conditioner                                     |                                     |                          |                    |                     |                       | 1                    |                       |
| 51.    | Stack Monitoring kit                                |                                     |                          |                    |                     |                       | 1                    |                       |
| 52.    | Respirable Dust Sampler PM <sub>10</sub>            |                                     |                          |                    |                     |                       | 1                    |                       |
| 53.    | PM <sub>2.5</sub> Dust Samplers.                    |                                     |                          |                    |                     |                       | 1                    |                       |
| 54.    | Orsat Apparatus                                     |                                     |                          |                    |                     |                       | 1                    |                       |
| 55.    | Barometer   |                                     |                          |                    |                     |                       | 1                    |                       |
| 56.    | Spectro Photometer                                  |                                     |                          |                    |                     |                       | 1                    |                       |
| 57.    | Desiccator  |                                     |                          |                    |                     |                       | 1                    |                       |
| 58.    | Distilled H <sub>2</sub> O Apparatus Milli-q system |                                     |                          |                    |                     |                       | 1                    |                       |