

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL  
SOUTHERN ZONE AT CHENNAI**

**APPLICATION NO. 8 OF 2016 (SZ)**

R. Ravimaran  
S/o. Ramachandran  
No.42, Beach Road, Thazhankuppam,  
Ennore,  
Chennai-600 057.

... Applicant.

**VERSUS**

Union of India,  
Rep. by its Secretary,  
The Ministry of Environment, Forests and Climate Change,  
Jorbagh, New Delhi & Others.

... Respondents.

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**DATED AT CHENNAI ON THIS THE 5<sup>th</sup> DAY OF MAY 2022**

  
**M/s. VIJAYA MEHANATH  
COUNSEL FOR 2<sup>nd</sup> and 3<sup>rd</sup> RESPONDENT**

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**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL  
SOUTHERN ZONE AT CHENNAI**

**ORIGINAL APPLICATION NO. 8 OF 2016 (SZ)**

R. Ravimaran  
S/o. Ramachandran  
No.42, Beach Road, Thazhankuppam,  
Ennore,  
Chennai-600 057.

... Applicant.

**VERSUS**

1. Union of India,  
Rep. by its Secretary,  
The Ministry of Environment, Forests and Climate Change,  
Jorbagh, New Delhi.
2. The Tamil Nadu Generation and  
Distribution Corporation (TANGEDCO)  
represented by its Chairman Cum Managing Director  
10<sup>th</sup> Floor, NPKRR Maaligai, 144, Anna Salai,  
Chennai-600 002.
3. North Chennai Thermal Power Station  
Rep. by its Chief Engineer,  
Athipattu, Chennai.  
Thiruvallur District - 600 120.
4. Kamarajar Port Limited (Erstwhile Ennore Port Limited)  
Rep. by its Chairman cum Managing Director, 4<sup>th</sup> Floor,  
Super Speciality Diabetic Centre (erstwhile DLB building)  
Near Clive Battery Bus Stop  
Rajaji Salai,  
Chennai-600 001.
5. The Tamil Nadu Pollution Control Board  
Rep. by its Member Secretary,  
76, Mount Salai, Guindy,  
Chennai-600 032.
6. The District Environmental Engineer,  
Tamilnadu Pollution Control Board,  
77-A, South Avenue Road, Ambattur Industrial Estate,  
Ambattur Taluk, Chennai-600 058  
Thiruvallur District.
7. The Tamil Nadu Coastal Zone Management Authority  
Rep. by its Member Secretary,  
Panagal Building, Chennai.

  
**CHIEF ENGINEER  
NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.**

8. Public Works Department  
Rep. by its Secretary,  
Secretariat, Fort St. George,  
Chennai.

...Respondents.

**REPORT FILED BY THE 2<sup>ND</sup> & 3<sup>RD</sup> RESPONDENTS**

1. It is submitted that the present status report is being filed in compliance with the direction issued by this Hon'ble Tribunal and the same is as follows. TANGEDCO craves leave of this Hon'ble Tribunal to treat the Report dated 27.04.2022 filed by TANGEDCO as part and parcel of this report.
2. It is submitted that during the hearing on 25.04.2022, this Hon'ble Court was pleased to direct the TANGEDCO to file its report on resolving the deficiency in Electrostatic Precipitator (ESP).

**Replacement of the existing E.S.P with modern and advanced equipment and to state the period required for the same:**

In NCTPS-I (3 x 210 MW units), there are 2 ESPs in service in each unit. Each ESP has 12 fields and a total of 24 Nos fields per unit are in service.

In every Annual overhaul, ESP is being overhauled and worn out/Defective internals, are being replaced and the following works are being carried out to maintain the design efficiency of ESP

1. Water washing of ESP
2. Renewal of Emitting Electrode, Collecting Electrode, Inner Arm & Outer Arm in the rapping Mechanism, Pinwheel, Shock bar pad, and Shock bar angle.
3. Rectification works carried out in CERM & EERM gearbox and renewal of Oil.
4. Replacement of defective hopper heaters, Thermostats, Tuning & Calibration of Electronic Controllers.
5. Checking healthiness of High Voltage Rectifier Transformers.

  
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TNEB, CHENNAI-600 120.

In addition to the above, Regular maintenance works are being carried out in ESP whenever an unplanned shutdown of Units occurs., during which the healthiness of fields is assessed by inspection of collecting electrodes, emitting electrodes, rapping mechanism, and other internals for any defects and the same being attended.

Once in every 6<sup>th</sup>-year capital overhaul also being carried out.

YEAR	FIELD	NO.OF COLLECTING PLATE REPLACED	NO OF EMITTING COIL REPLACED	PERIOD OF WORK	
<b>UNIT-I</b>					
2015-16	1C	130	1440	14.09.15	28.09.15
2015-16	1D	135	1440	14.09.15	28.09.15
2016-17	1A	120	1440	26.08.16	21.09.16
2016-17	1B	120	1440	26.08.16	21.09.16
<b>UNIT-II</b>					
2014-15	1C	130	1440	26.12.14	10.01.15
2014-15	1D	135	1440	26.12.14	10.01.15
2015-16	2C	120	1440	25.12.15	14.01.16
2015-16	2D	120	1440	25.12.15	14.01.16
2015-16	1A	130	1440	23.12.15	14.01.16
2015-16	1B	130	1440	23.12.15	14.01.16
2016-17	2A	120	1440	08.12.16	21.01.17
2016-17	2B	120	1440	08.12.16	21.01.17
<b>UNIT-III</b>					
2014-15	2C	130	1440	01.09.14	24.09.14
2014-15	2D	135	1440	02.09.14	24.09.14
2015-16	1C	130	1440	26.08.15	16.09.15
2015-16	1D	130	1440	26.08.15	16.09.15
2016-17	1A	120	1440	04.08.16	18.08.16
2016-17	1B	120	1440	04.08.16	18.08.16

  
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 NORTH CHENNAI THERMAL POWER STATION  
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Further, from 2014 to 2017, the ESP Collecting Electrode & Emitting Electrodes were completely replaced as follows.

**The latest technology Such as ARECA 2 Electronic Controllers has been installed for better performance in terms of Ash collection.**

TANGEDCO being a Public Serving Utility run by Public Money, Supplying Power to the public is of utmost importance. Hence, all the Units of NCTPS-I cannot be stopped for the replacement of ESP internals at a time. This replacement work has to be staggered and spread over years so as to avoid any suffering by the public by the stoppage of Power. Therefore, it is proposed to replace the ESP internals in a phased manner as per the following schedule.

While carrying out continuous monitoring and maintenance, in due consideration of the order of the Hon'ble Tribunal dated 28.04.2022. The TANGEDCO has also submitted below the action plan for the replacement of ESP fields. This schedule has been arrived at after considering the time required for Study, Design, and Engineering of ESP Augmentation, Lead time for Procurement of Materials, and obtaining Planned Shutdown by considering the Power Demand, Grid Position, and Execution Time.

Description	Time Schedule		
	Unit -I	Unit-II	Unit-III
Engaging Consultant to study ESP performance. (involves Budgetary offer, estimation, tendering, and fixing a consultant to study the efficiency of ESP)	2022-23		
Planning, getting budget allocation, estimation, Procurement, and execution of augmentation of ESP in Units Overhaul.	2023-24	2024-25	2025-26

  
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3. It is humbly submitted that as per the directions of the Joint Committee constituted by Hon'ble NGT in connection with OA No.256 of 2020, M/s.Glen's laboratory, Chennai, which is recognized by the Ministry of Environment Forest and Climate Change/Central Pollution Control Board (MoEFCC/CPCB) and a NABL accredited agency, has conducted an "Ambient Air Quality test from 17.08.2021 to 19.08.2021. The test report of M/s.Glen's laboratory, Chennai shows that all the parameters are within National Ambient Air quality Norms.

4. It is submitted that, in order to monitor the Ambient Air quality in and around NCTPS-I, it has been engaged a NABL accredited agency for conducting an Ambient air quality survey at various locations in and around NCTPS-I. The survey report shows that all the parameters are within norms.

5. It is humbly submitted that, for developing mangroves Plantations and other Coastal vegetation on both sides of Kosasthalaiyar River Banks, "Buckingham" Canal and nearby Coastal areas, M/s.Swaminathan Foundation has been consulted and they have furnished the proposal on "establishment and management of Mangrove Bio shield" in the Kosasthalaiyar River, Ennore Estuary.

6. The member of the Joint Expert Committee Thiru.D.Narasimhan, (HOD) Retired, Department of Botany, Madras Christian College constituted under The Chairmanship of Mrs.SanthaShiela Nair,I.A.S., (Retired), in his report has suggested (in Table No.2 - Page No.321 ) to plant the trees such as "Punga Maram" "Poovarasu" "Vaagai" etc. Accordingly, the plantation of the above trees will be carried out in consultation with the Forest Department. Further, other possible modern methods to establish Coastal Native Vegetation (Afforestation) with the experts are also being explored

  
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7. It is submitted that as mentioned in M/s.NIOT Report, Manali Industrial Belt, and North Chennai Industries which includes M/s. Coromandel Fertilisers, M/s.Kothari Chemicals, M/s. Carborandum Universal Ltd, M/s.India Cements, M/s.Zuari Cements, M/s.Tamilnadu Petro Products Limited, M/s.NTECL, M/s.Madras Fertiliser Limited, M/s.Chennai Petro Chemical Limited, M/s.Chettinadu Coal Yard and Other Industries are located in the Manali Express High Way. It is submitted that the Report of NIOT would evidence that there are other industries in the area. It is necessary to point out that TANGEDCO has taken all measures in compliance with the statutory requirements and maintaining environment parameters and would comply with all further requirements as pointed out by the Expert Committee in a phased manner.
8. It is also submitted that, even though TANGEDCO is facing a severe financial crunch and being a State Government Utility functioning with Public money doing service to the society, TANGEDCO is striving hard to meet the Power Demand by taking all possible steps to comply with the Emission norms and adhering to TNPCB directions.
9. It is respectfully submitted that this Respondent is complying with the directions issued by this Hon'ble Tribunal and also the environmental norms without any default to protect the environment.
10. It is submitted that the in the above O.A TANGEDCO has filed its reply and has submitted various compliance reports in compliance with the directions issued by this Hon'ble Court and it is humbly requested that this Hon'ble Tribunal may be pleased to consider the same and the same would evidence that TANGEDCO had complied with all directions issued by TNPCB from time to time.



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NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.

Under the above-placed facts and circumstances, this Hon'ble Tribunal may be pleased to accept the report and take the same on record and pass such further order or orders as this Hon'ble Court may deem fit and proper in the circumstances of the case and thus render justice.

Dated at Chennai on this the 5<sup>th</sup> day of May 2022

  
 CHIEF ENGINEER  
 NORTH CHENNAI THERMAL POWER STATION,  
 TNEB, CHENNAI-600 120.  
**3<sup>RD</sup> RESPONDENT**

### VERIFICATION

I, K.Chandrasekar, son of G.Krishnamurthy aged 57 years, working as Chief Engineer having an office at North Chennai Thermal Power Station - I do hereby verify that the contents of paras are true to the best of my personal knowledge and paras believed to be true on legal advice and that I have not suppressed any material fact.

Verified at Chennai on this the 5<sup>th</sup> day of May 2022.

  
 CHIEF ENGINEER  
 NORTH CHENNAI THERMAL POWER STATION,  
 TNEB, CHENNAI-600 120.  
**3<sup>RD</sup> RESPONDENT**

  
 CHIEF ENGINEER  
 NORTH CHENNAI THERMAL POWER STATION,  
 TNEB, CHENNAI-600 120.

M/s. Thermal Power Station  
North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.

TO  
AEE/ENV  
N.P. 14/07

OFFICE OF THE ENGINEER  
CHENNAI-120.  
CR NO: 63  
DATE 14.07.21  
ELECTRICAL / TRG 2 / 251

**ANALYSIS REPORT**

July 2021



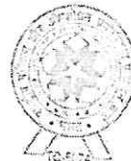
BY  
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Puthagaram, Teachers Colony,  
Kolathur, Chennai-600 099.  
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## TEST REPORT

Job No. 057/21-22 Report No. ULR No-TC507421000000733 Report Date 07.07.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.07.2021 Time of Monitoring : 1100 Hrs to 1900 Hrs  
Location : Near NCTPS Stage III Area Temperature : 35°C  
Sample Code : PES2107011 Humidity : 54%  
Sample Received On : 02.07.2021 Sample Completed On : 07.07.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	22.3	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	60.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :6.0)	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	5.3	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400



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*R. V. VEKANANTH*

Authorized Signatory

R. VIVEKANANTH  
QUALITY MANAGER

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## TEST REPORT

Job No. 057/21-22 Report No. 21000000733 Report Date 07.07.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.07.2021 Time of Monitoring : 1100 Hrs to 1900 Hrs  
Location : Near NCTPS Stage III Area Temperature : 35°C  
Sample Code : PES2107011 Humidity : 54%  
Sample Received On : 02.07.2021 Sample Completed On : 07.07.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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R.U.A.A

Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

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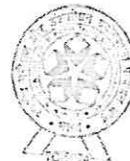
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## TEST REPORT

Job No. 057/21-22 Report No. ULR No-TC507421000000734 Report Date 07.07.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.07.2021 Time of Monitoring : 1200 Hrs to 2000 Hrs  
Location : Near Kattupalli (Railway Station) Area Temperature : 35°C  
Sample Code : PES2107012 Humidity : 52%  
Sample Received On : 02.07.2021 Sample Completed On : 07.07.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	56.1	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	172.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	12.2	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	17.6	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400



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*R. V. A.*

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## TEST REPORT

Job No.	057/21-22	Report No.	21000000734	Report Date	07.07.2021
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Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.07.2021 Time of Monitoring : 1200 Hrs to 2000 Hrs  
Location : Near Kattupalli (Railway Station) Area Temperature : 35°C  
Sample Code : PES2107012 Humidity : 52%  
Sample Received On : 02.07.2021 Sample Completed On : 07.07.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

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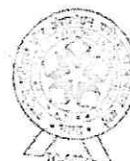
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## TEST REPORT

Job No. 057/21-22 Report No. ULR No-TC507421000000735 Report Date 07.07.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.07.2021 Time of Monitoring : 1220 Hrs to 2020 Hrs  
Location : Near Athipattu Area Temperature : 35°C  
Sample Code : PES2107013 Humidity : 52%  
Sample Received On : 02.07.2021 Sample Completed On : 07.07.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	39.5	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	103.2	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	14.5	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	4.1	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400



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TNEB, CHENNAI-600 120.



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## TEST REPORT

Job No. 057/21-22 Report No. 21000000735 Report Date 07.07.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.07.2021 Time of Monitoring : 1220 Hrs to 2020 Hrs  
Location : Near Athipattu Area Temperature : 35°C  
Sample Code : PES2107013 Humidity : 52%  
Sample Received On : 02.07.2021 Sample Completed On : 07.07.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0



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DL – Detection Limit

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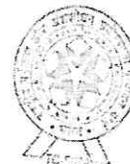
*[Signature]*

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## TEST REPORT

Job No. 057/21-22 Report No. ULR No-TC507421000000736 Report Date 07.07.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.07.2021 Time of Monitoring : 1250 Hrs to 2050 Hrs  
Location : Near K.R.Palayam Area Temperature : 35°C  
Sample Code : PES2107014 Humidity : 52%  
Sample Received On : 02.07.2021 Sample Completed On : 07.07.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	56.8	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	93.1	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	9.3	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	10.1	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400



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## TEST REPORT

Job No. 057/21-22 Report No. 21000000736 Report Date 07.07.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : RES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.07.2021 Time of Monitoring : 1250 Hrs to 2050 Hrs  
Location : Near K.R.Palayam Area Temperature : 35°C  
Sample Code : PES2107014 Humidity : 52%  
Sample Received On : 02.07.2021 Sample Completed On : 07.07.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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Note: BDL – Below Detection Limit  
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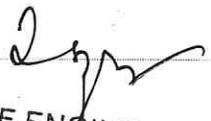
**M/s. Thermal Power Station  
North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.**

**ANALYSIS REPORT**

**September 2021**



**BY  
PERFECT ENVIRO SERVICES  
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## TEST REPORT

Job No. 116/21-22 Report No. 21000000909 Report Date 04.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.09.2021 Time of Monitoring : 1245 Hrs to 2045Hrs  
Location : Switch Gear Control Room- II Temperature : 29°C  
Sample Code : PES2109029 Humidity : 69%  
Sample Received On : 02.09.2021 Sample Completed On : 04.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	50.4	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	88.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	36.2	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	3.6	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0



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Note: BDL – Below Detection Limit

DL – Detection Limit

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TECHNICAL MANAGER

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## TEST REPORT

Job No. 116/21-22 Report No. 2100000908 Report Date 04.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : PES Sampling Method : IS 5182 Part V & XI V  
Date of Monitoring : 01.09.2021 Time of Monitoring : 1230 Hrs to 2030 Hrs  
Location : 33/11KV Substation at near main gate Temperature : 29°C  
Sample Code : PES2109028 Humidity : 69%  
Sample Received On : 02.09.2021 Sample Completed On : 04.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	42.5	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	81.6	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	18.9	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	BDL(DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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## TEST REPORT

Job No. 116/21-22 Report No. 21000000907 Report Date 04.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.09.2021 Time of Monitoring : 1145 Hrs to 1945 Hrs  
Location : Chapakkam Village  
Samuthaya Koodam Building Temperature : 29°C  
Sample Code : PES2109027 Humidity : 67%  
Sample Received On : 02.09.2021 Sample Completed On : 04.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	46.8	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	73.5	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	9.8	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	1.3	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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## TEST REPORT

Job No. 116/21-22 Report No. 21000000906 Report Date 04.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 01.09.2021 Time of Monitoring : 1115 Hrs to 1915 Hrs  
Location : Recovery Pump House Temperature : 31°C  
Sample Code : PES2109026 Humidity : 65%  
Sample Received On : 02.09.2021 Sample Completed On : 04.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	45.9	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	75.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	10.1	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	3.0	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(d) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.



# Perfect Enviro Services

No.80, 7th Cross Street, Santhosh Nagar, Puthagaram,  
Teachers Colony, Kolathur, Chennai 600 099.  
E-mail : info@perfectenviro.in / Web : www.perfectenviro.in  
☎ +91 44-4860 0077, 2651 2025.

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## TEST REPORT

Job No. 130/21-22 Report No. 21000001033 Report Date 11.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.09.2021 Time of Monitoring : 1030 Hrs to 1830 Hrs  
Location : Cooling Water Pump House Temperature : 33°C  
Sample Code : PES2109137 Humidity : 59%  
Sample Received On : 09.09.2021 Sample Completed On : 11.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	16.0	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	42.6	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	12.0	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	BDL(DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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*R. V. S. Kananth*

Authorized Signatory

Note: BDL - Below Detection Limit  
DL - Detection Limit

\*\*\*End of Report\*\*\*

1 of 1

R. V. S. KANANTH  
TECHNICAL MANAGER

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## TEST REPORT

Job No. 130/21-22 Report No. 21000001032 Report Date 11.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.09.2021 Time of Monitoring : 1000 Hrs to 1800 Hrs  
Location : Main Gate Entrance Temperature : 34°C  
Sample Code : PES2109136 Humidity : 55%  
Sample Received On : 09.09.2021 Sample Completed On : 11.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	43.9	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	99.2	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	9.6	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	4.1	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0



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## TEST REPORT

Job No. 130/21-22 Report No. 21000001031 Report Date 11.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.09.2021 Time of Monitoring : 0945 Hrs to 1745 Hrs  
Location : Cheppakkam Village Temperature : 34°C  
Sample Code : PES2109135 Humidity : 57%  
Sample Received On : 09.09.2021 Sample Completed On : 11.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	52.6	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	104.1	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	9.0	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	4.0	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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## TEST REPORT

Job No. 130/21-22 Report No. 21000001030 Report Date 11.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.09.2021 Time of Monitoring : 0930 Hrs to 1730 Hrs  
Location : Recovery Water Pump House Temperature : 34°C  
Sample Code : PES2109134 Humidity : 54%  
Sample Received On : 09.09.2021 Sample Completed On : 11.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	53.8	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	98.1	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	8.4	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	4.3	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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## TEST REPORT

Job No. 143/21-22 Report No. 21000001064 Report Date 18.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.09.2021 Time of Monitoring : 1030 Hrs to 1830 Hrs  
Location : Kattupalli Village Area Temperature : 34°C  
Sample Code : PES2109180 Humidity : 60%  
Sample Received On : 16.09.2021 Sample Completed On : 18.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	16.1	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	54.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	32.2	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	3.6	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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## TEST REPORT

Job No. 143/21-22 Report No. 21000001065 Report Date 18.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.09.2021 Time of Monitoring : 1045 Hrs to 1845 Hrs  
Location : Fuel Oil Pump House Area Temperature : 34°C  
Sample Code : PES2109181 Humidity : 60%  
Sample Received On : 16.09.2021 Sample Completed On : 18.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	22.8	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	86.2	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	35.4	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	2.3	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(c) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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## TEST REPORT

Job No. 143/21-22 Report No. Z1000001066 Report Date 18.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : PES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.09.2021 Time of Monitoring : 1100 Hrs to 1900 Hrs  
Location : Attipattu Village Area Temperature : 35°C  
Sample Code : PES2109182 Humidity : 62%  
Sample Received On : 16.09.2021 Sample Completed On : 18.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	19.9	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	49.1	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	15.4	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	BDL(DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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*R. VIVEKANANTH*  
CHIEF ENGINEER  
NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.



# Perfect Enviro Services

No.80, 7th Cross Street, Santhosh Nagar, Puthagaram,  
Teachers Colony, Kofathur, Chennai 600 099.  
E-mail : info@perfectenviro.in / Web : www.perfectenviro.in  
☎ +91 44-4860 0077, 2651 2025.

An ISO 9001 : 2015 ,OHSMS-ISO 45001 : 2018 Certified Organization

## TEST REPORT

Job No. 143/21-22      Report No. 21000001067      Report Date 18.09.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : PES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.09.2021      Time of Monitoring : 1120 Hrs to 1920 Hrs  
Location : Valluvar Camp Area      Temperature : 34°C  
Sample Code : PES2109183      Humidity : 61%  
Sample Received On : 16.09.2021      Sample Completed On : 18.09.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	19.9	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	69.1	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	14.0	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	2.0	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400
8.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
9.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
10.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
12.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For PERFECT ENVIRO SERVICES



*R. V. Venkannath*

Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

1 of 1

R. V. VENKANANTH  
TECHNICAL MANAGER

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*R. V. Venkannath*  
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## TEST REPORT

Job No. 239/21-22 Report No. TC507421000001450 Report Date 20.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES  
Date of Monitoring : 15.12.2021  
Location : Cooling water Pump House - NCTPS-1  
Sample Code : AES2112066  
Sample Received On : 16.12.2021  
Sampling Method : IS 5182 Part V & XIV  
Time of Monitoring : 1000 Hrs to 1800 Hrs  
Temperature : 31°C  
Humidity : 57%  
Sample Completed On : 20.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	22.3	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	68.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	28.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

Verified by



1 of 2

Authorized Signatory

R. VIVEKANANTH  
TECHNICAL MANAGER

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## TEST REPORT

Job No. 239/21-22 Report No. 21000001450 Report Date 20.12.2021

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 15.12.2021 Time of Monitoring : 1000 Hrs to 1800 Hrs  
 Location : Cooling water Pump House - NCTPS-1 Temperature : 31°C  
 Sample Code : AES2112066 Humidity : 57%  
 Sample Received On : 16.12.2021 Sample Completed On : 20.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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Note: BDL – Below Detection Limit

DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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## TEST REPORT

Job No. 239/21-22 Report No. TC507421000001451 Report Date 20.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.

Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.12.2021 Time of Monitoring : 1030 Hrs to 1830 Hrs  
Location : 33/11KV SS Site - NCTPS-1 Temperature : 30°C  
Sample Code : AES2112067 Humidity : 50%  
Sample Received On : 16.12.2021 Sample Completed On : 20.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	27.4	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	74.1	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	33.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

*S.P.R.*  
Verified by



1 of 2

*R. Vivekananth*

Authorized Signatory

R. VIVEKANANTH  
TECHNICAL MANAGER

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*[Signature]*  
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## TEST REPORT

Job No. 239/21-22      Report No. 21000001451      Report Date 20.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.12.2021      Time of Monitoring : 1030 Hrs to 1830 Hrs  
Location : 33/11KV SS Site - NCTPS-1      Temperature : 30°C  
Sample Code : AES2112067      Humidity : 50%  
Sample Received On : 16.12.2021      Sample Completed On : 20.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL : 0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL : 1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

  
Verified by





Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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## TEST REPORT

Job No. 239/21-22 Report No. TC507421000001452 Report Date 20.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.12.2021 Time of Monitoring : 1045 Hrs to 1845 Hrs  
Location : ICHS Switch gear-2, Near Coal Yard, NCTPS-1 Temperature : 31°C  
Sample Code : AES2112068 Humidity : 48%  
Sample Received On : 16.12.2021 Sample Completed On : 20.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	28.5	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	69.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	36.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

Verified by



R. Vivekananth

Authorized Signatory

R. VIVEKANANTH  
TECHNICAL MANAGER

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Chief Engineer  
NORTH CHENNAI THERMAL POWER STATION  
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## TEST REPORT

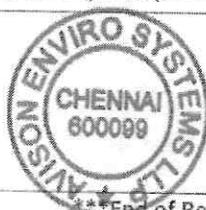
Job No. 239/21-22 Report No. 21000001452 Report Date 20.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.12.2021 Time of Monitoring : 1045 Hrs to 1845 Hrs  
Location : ICHS Switch gear-2, Near Coal Yard, NCTPS-1 Temperature : 31°C  
Sample Code : AES2112068 Humidity : 48%  
Sample Received On : 16.12.2021 Sample Completed On : 20.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

Verified by



R. V. Anand

Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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CHIEF ENGINEER  
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## TEST REPORT

Job No. 239/21-22 Report No. TC507421000001453 Report Date 20.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.12.2021 Time of Monitoring : 1110 Hrs to 1910 Hrs  
Location : Fuel oil Pump House, Near Ash  
Handling Pump House, NCTPS-1 Temperature : 32°C  
Sample Code : AES2112069 Humidity : 47%  
Sample Received On : 16.12.2021 Sample Completed On : 20.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	$\mu\text{g}/\text{m}^3$	33.5	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	$\mu\text{g}/\text{m}^3$	72.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	$\mu\text{g}/\text{m}^3$	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	$\mu\text{g}/\text{m}^3$	41.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	$\text{mg}/\text{m}^3$	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	$\mu\text{g}/\text{m}^3$	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	$\mu\text{g}/\text{m}^3$	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

Verified by



R. VIVEKANANTH

Authorized Signatory

R. VIVEKANANTH  
TECHNICAL MANAGER

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dayan  
CHIEF ENGINEER  
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## TEST REPORT

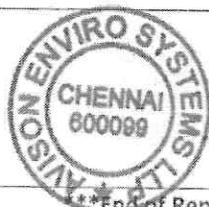
Job No. 239/21-22      Report No. 21000001453      Report Date 20.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 15.12.2021      Time of Monitoring : 1110 Hrs to 1910 Hrs  
Location : Fuel oil Pump House, Near Ash  
Handling Pump House, NCTPS-1      Temperature : 32°C  
Sample Code : AES2112069      Humidity : 47%  
Sample Received On : 16.12.2021      Sample Completed On : 20.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(c) Pyrene Bap <sub>L</sub>	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

Verified by



Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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Note: The results shown in this report are based on the samples received and analyzed. Endorsement of test item is neither inferred nor implied. This report in full or part shall not be used for any purpose other than that intended. Unless specifically requested by the customer, the test results will not be retained for more than 15 days. The date of report is the date of completion of the test. The laboratory does not accept any liability for loss/damage caused by use of the report. The report is valid only for the purpose stated. The report is limited to proven will be re-generated at the discretion of the laboratory at a chargeable amount.

*[Signature]*  
CHIEF ENGINEER  
NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.



# AVISON ENVIRO SYSTEMS LLP

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## TEST REPORT

Job No. 246/21-22 Report No. TC507421000001466 Report Date 28.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 29.12.2021 Time of Monitoring : 0940 Hrs to 1740 Hrs  
Location : Fuel Oil Pump House, NCTPS-1 Temperature : 32°C  
(Near Ash Handling Pump House)  
Sample Code : AES2112095 Humidity : 67%  
Sample Received On : 24.12.2021 Sample Completed On : 28.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	$\mu\text{g}/\text{m}^3$	41.1	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	$\mu\text{g}/\text{m}^3$	87.0	100
3.	Sulphur Dioxide as $\text{SO}_2$	IS:5182 (Part-2)2001 (Reaff 2017)	$\mu\text{g}/\text{m}^3$	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as $\text{NO}_2$	IS:5182 (Part-6)2006 (Reaff 2017)	$\mu\text{g}/\text{m}^3$	37.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	$\text{mg}/\text{m}^3$	BDL (DL:1 15)	4.0
6.	Ozone as $\text{O}_3$	IS:5182(Part-9)1974 (Reaff 2019)	$\mu\text{g}/\text{m}^3$	BDL (DL :20)	180
7.	Ammonia as $\text{NH}_3$	AES/EN/SOP/014	$\mu\text{g}/\text{m}^3$	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

S.K.P.  
Verified by



R. Vivekananth  
Authorized Signatory

R. VIVEKANANTH  
TECHNICAL MANAGER

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NORTH CHENNAI THERMAL POWER STATION  
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## TEST REPORT

Job No. 246/21-22      Report No. 21000001466      Report Date 28.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 23.12.2021      Time of Monitoring : 0940 Hrs to 1740 Hrs  
Location : Fuel Oil Pump House, NCTPS-1      Temperature : 32°C  
(Near Ash Handling Pump House)  
Sample Code : AES2112095      Humidity : 67%  
Sample Received On : 24.12.2021      Sample Completed On : 28.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL: 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL: 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL: 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL: 0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL: 1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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Note: BDL - Below Detection Limit  
DL - Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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## TEST REPORT

Job No. 246/21-22      Report No. TC507421000001467      Report Date 28.12.2021

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 23.12.2021      Time of Monitoring : 0955 Hrs to 1755 Hrs  
 Location : 33/11 KV SS Site, NCTPS-1      Temperature : 32°C  
 Sample Code : AES2112096      Humidity : 67%  
 Sample Received On : 24.12.2021      Sample Completed On : 28.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	43.3	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	82.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	35.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

*S.K.P.*  
 Verified by



For AVISON ENVIRO SYSTEMS LLP

*R. Vivekananth*

Authorized Signatory

R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 246/21-22      Report No. 21000001467      Report Date 28.12.2021

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 23.12.2021      Time of Monitoring : 0955 Hrs to 1855 Hrs  
 Location : 33/11 KV SS Site, NCTPS-1      Temperature : 32°C  
 Sample Code : AES2112096      Humidity : 67%  
 Sample Received On : 24.12.2021      Sample Completed On : 28.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
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Note: BDL – Below Detection Limit  
 DL – Detection limit

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 TECHNICAL MANAGER

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## TEST REPORT

Job No. 246/21-22 Report No. TC507421000001468 Report Date 28.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 23.12.2021 Time of Monitoring : 1015 Hrs to 1815 Hrs  
Location : Athipattu Village, NCTPS-1 Temperature : 33°C  
Sample Code : AES2112097 Humidity : 62%  
Sample Received On : 24.12.2021 Sample Completed On : 28.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	46.0	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	72.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	36.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL:20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL:20)	400

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1 of 2

For AVISON ENVIRO SYSTEMS LLP

Authorized Signatory

R. VIVEKANANTH  
TECHNICAL MANAGER

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NORTH CHENNAI THERMAL POWER STATION  
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## TEST REPORT

Job No. 246/21-22      Report No. 21000001468      Report Date 28.12.2021

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 23.12.2021      Time of Monitoring : 1015 Hrs to 1915 Hrs  
Location : Athipattu Village, NCTPS-1      Temperature : 33°C  
Sample Code : AES2112097      Humidity : 62%  
Sample Received On : 24.12.2021      Sample Completed On : 28.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL : 0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL : 1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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*[Signature]*  
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## TEST REPORT

Job No. 246/21-22      Report No. TC507421000001469      Report Date 28.12.2021

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 23.12.2021      Time of Monitoring : 1045 Hrs to 1945 Hrs  
 Location : TTI Vallur Camp, NCTPS-1      Temperature : 33°C  
 Sample Code : AES2112098      Humidity : 60%  
 Sample Received On : 24.12.2021      Sample Completed On : 28.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	39.0	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	77.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	33.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

Verified by



For AVISON ENVIRO SYSTEMS LLP

*R. Vivekananth*

Authorized Signatory

1 of 2

R. VIVEKANANTH  
 TECHNICAL MANAGER

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*[Signature]*  
**CHIEF ENGINEER**  
**NORTH CHENNAI THERMAL POWER STATION**  
**TNEB, CHENNAI-600 120.**



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## TEST REPORT

Job No. 246/21-22      Report No. 21000001469      Report Date 28.12.2021

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 23.12.2021      Time of Monitoring : 1045 Hrs to 1945 Hrs  
 Location : TTI Vallur Camp, NCTPS-1      Temperature : 33°C  
 Sample Code : AES2112098      Humidity : 60%  
 Sample Received On : 24.12.2021      Sample Completed On : 28.12.2021

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL : 0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL : 1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

Verified by: *[Signature]*

Authorized Signatory: *[Signature]*  
**R. VIVEKANANTH**  
 TECHNICAL MANAGER

CHENNAI 600099

\*\*\*End of Report\*\*\*

2 of 2

Note: BDL - Below Detection Limit  
 DL - Detection Limit

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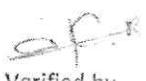
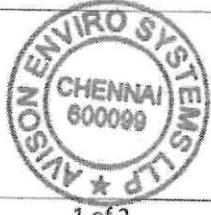
## TEST REPORT

Job No. 260/21-22      Report No. TC507422000000007      Report Date 08.01.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 03.01.2022      Time of Monitoring : 0930 Hrs to 1730 Hrs  
 Location : 33/11KV SS Site, NCTPS-1      Temperature : 32°C  
 Sample Code : AES2201005      Humidity : 51%  
 Sample Received On : 04.01.2022      Sample Completed On : 08.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	36.0	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	78.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	41.9	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

Verified by               
 Authorized Signatory

1 of 2

R. VIVEKANANTH  
 TECHNICAL MANAGER

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Note: The results stated herein are for the samples tested. Endorsement of test items is neither inferred nor implied. This report in full or part shall not be used for any purposes without the prior written consent by us. Unless specifically requested by the customer, the test items shall not be retained for more than 15 days from the date of issue of this report. The reference lab accepts any liability for loss/damage caused by user or non use of test report. Liability is limited to proven willful negligence.

  
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 NORTH CHENNAI THERMAL POWER STATION  
 TNEB, CHENNAI-600 120.



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## TEST REPORT

Job No. 260/21-22      Report No. 22000000007      Report Date 08.01.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 03.01.2022      Time of Monitoring : 0930 Hrs to 1730 Hrs  
Location : 33/11KV SS Site, NCTPS-1      Temperature : 32°C  
Sample Code : AES2201005      Humidity : 51%  
Sample Received On : 04.01.2022      Sample Completed On : 08.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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Note: The results of this report are based on the samples received. The responsibility of the client is to ensure that the samples are representative of the site. The report and/or part shall not be used for any purpose other than that for which it was prepared. Unless specifically requested by the customer, the report shall not be retained for more than 15 days from the date of issue of the report. The client shall be responsible for any loss/damage caused by any fire, theft or other cause. The liability of the client is limited to proven willful negligence and will not cover consequential damages. The client shall be responsible for any loss/damage caused by any fire, theft or other cause. The liability of the client is limited to proven willful negligence and will not cover consequential damages.

  
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NORTH CHENNAI THERMAL POWER STATION  
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## TEST REPORT

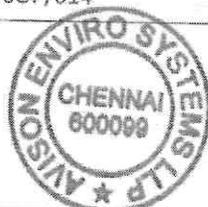
Job No. 260/21-22      Report No. TC507422000000008      Report Date 08.01.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 03.01.2022      Time of Monitoring : 0945 Hrs to 1745 Hrs  
 Location : TTI, Vallur Camp, NCTPS-1      Temperature : 31°C  
 Sample Code : AES2201006      Humidity : 60%  
 Sample Received On : 04.01.2022      Sample Completed On : 08.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	31.0	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	75.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	39.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

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*R. U. Anand*

Authorized Signatory

1 of 2

R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 260/21-22      Report No. TC50742200000009      Report Date 08.01.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 03.01.2022      Time of Monitoring : 1000 Hrs to 1800 Hrs  
 Location: Cheppakkam Village at Near Community Hall      Temperature : 31°C  
 Sample Code : AES2201007      Humidity : 60%  
 Sample Received On : 04.01.2022      Sample Completed On : 08.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	37.1	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	75.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	44.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

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**K. VIVEKANANTH**  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 260/21-22      Report No. TC507422000000010      Report Date 08.01.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 03.01.2022      Time of Monitoring : 1030 Hrs to 1830 Hrs  
 Location: Recovery Water Pump House, NCTPS-1      Temperature : 31°C  
 Sample Code : AES2201008      Humidity : 60%  
 Sample Received On : 04.01.2022      Sample Completed On : 08.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	27.0	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	69.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	43.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

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*R. Vivekananth*

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R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 269/21-22      Report No. TC50742200000078      Report Date 17.01.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 11.01.2022      Time of Monitoring : 0930 Hrs to 1730 Hrs  
 Location : Fuel Oil Pump House NCTPS-1      Temperature : 32°C  
 Sample Code : AES2201078      Humidity : 60%  
 Sample Received On : 12.01.2022      Sample Completed On : 17.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	32.2	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	74.6	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	26.8	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL:20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL:20)	400

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R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 269/21-22      Report No. 22000000078      Report Date 17.01.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 11.01.2022      Time of Monitoring : 0930 Hrs to 1730 Hrs  
 Location : Fuel Oil Pump House NCTPS-1      Temperature : 32°C  
 Sample Code : AES2201078      Humidity : 60%  
 Sample Received On : 12.01.2022      Sample Completed On : 17.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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Note: BDL – Below Detection Limit  
 DL – Detection limit

\*\*\*End of Report\*\*\*

2 of 2

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## TEST REPORT

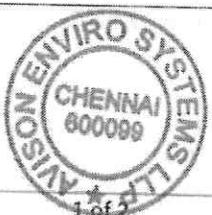
Job No. 269/21-22      Report No. TC50742200000080      Report Date 17.01.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 11.01.2022      Time of Monitoring : 1005 Hrs to 1805 Hrs  
 Location: Cheppakkam Village Near Community Hall      Temperature : 32°C  
 Sample Code : AES2201080      Humidity : 60%  
 Sample Received On : 12.01.2022      Sample Completed On : 17.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	44.7	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	80.2	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	26.3	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
 Verified by



*[Signature]*  
 Authorized Signatory

R. VIVEKANANTH  
 TECHNICAL MANAGER

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*[Signature]*  
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 NORTH CHENNAI THERMAL POWER STATION  
 TNEB, CHENNAI-600 120.



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## TEST REPORT

Job No. 269/21-22      Report No. 22000000080      Report Date 17.01.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 11.01.2022      Time of Monitoring : 1005 Hrs to 1805 Hrs  
 Location: Cheppakkam Village Near Community Hall      Temperature : 32°C  
 Sample Code : AES2201080      Humidity : 60%  
 Sample Received On : 12.01.2022      Sample Completed On : 17.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
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Note: BDL – Below Detection Limit  
 DL – Detection Limit

\*\*\*End of Report\*\*\*  
 2 of 2

R. VIVEKANANTH  
 TECHNICAL MANAGER

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*[Signature]*  
**CHIEF ENGINEER**  
**NORTH CHENNAI THERMAL POWER STATION**  
**TNEB, CHENNAI-600 120.**





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## TEST REPORT

Job No. 269/21-22      Report No. 22000000081      Report Date 17.01.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 11.01.2022      Time of Monitoring : 1015 Hrs to 1815 Hrs  
Location : Valur Camp Area, NCTPS-1      Temperature : 33°C  
Sample Code : AES2201081      Humidity : 60%  
Sample Received On : 12.01.2022      Sample Completed On : 17.01.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap <sub>a</sub>	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP



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Authorized Signatory

Note: BDL – Below Detection Limit.

DL – Detection Limit

\*\*\* End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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Note: The results of this report are valid only for the purpose and conditions stated herein. The test results are not to be used for any other purpose without the prior written consent of the laboratory. The laboratory does not accept any liability for loss/damage caused by use or misuse of the report. Liability is limited to proven willful negligence and willful misconduct.



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NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.



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## TEST REPORT

Job No. 295/21-22 Report No. TC507422000000098 Report Date 08.02.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 04.02.2022 Time of Monitoring : 1020 Hrs to 1820 Hrs  
Location : Furl Oil Pump House NCTPS-1 Temperature : 32°C  
Sample Code : AES2202021 Humidity : 67%  
Sample Received On : 05.02.2022 Sample Completed On : 08.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	42.3	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	86.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :2.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	22.7	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
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*[Signature]*

Authorized Signatory

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R. VIVEKANANTH  
TECHNICAL MANAGER

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Note: The results of this test are valid only for the purpose and conditions stated above. The test results are not to be used for any other purpose without the prior written consent of the laboratory. The laboratory does not accept any liability for loss or damage caused by fire, theft or other reasons. The results of this test are valid only for the purpose and conditions stated above. The test results are not to be used for any other purpose without the prior written consent of the laboratory. The laboratory does not accept any liability for loss or damage caused by fire, theft or other reasons. The results of this test are valid only for the purpose and conditions stated above. The test results are not to be used for any other purpose without the prior written consent of the laboratory. The laboratory does not accept any liability for loss or damage caused by fire, theft or other reasons.

*[Signature]*  
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NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.





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## TEST REPORT

Job No. 295/21-22      Report No. TC507422000000099      Report Date 08.02.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 04.02.2022      Time of Monitoring : 1045 Hrs to 1845 Hrs  
 Location : 33/11 KV SS Site, NCTPS-1      Temperature : 30°C  
 Sample Code : AES2202022      Humidity : 54%  
 Sample Received On : 05.02.2022      Sample Completed On : 08.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	44.7	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	81.3	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	21.6	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
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*[Signature]*  
 Authorized Signatory

R. VIVEKANANTH  
 TECHNICAL MANAGER

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The results stated herein are for information only and do not constitute a warranty. The test items are not to be used for any purpose other than that specified. The test items will be retained for more than 15 days unless specifically requested by the customer. The test items will be retained for more than 15 days unless specifically requested by the customer. The test items will be retained for more than 15 days unless specifically requested by the customer. The test items will be retained for more than 15 days unless specifically requested by the customer.

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 NORTH CHENNAI THERMAL POWER STATION  
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## TEST REPORT

Job No. 295/21-22 Report No. 22000000099 Report Date 08.02.2022

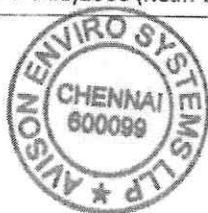
Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 07.02.2022 Time of Monitoring : 1045 Hrs to 1845 Hrs  
Location : 33/11 KV SS Site, NCTPS-1 Temperature : 30°C  
Sample Code : AES2202022 Humidity : 54%  
Sample Received On : 08.02.2022 Sample Completed On : 08.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL : 0.5)	1.0
5.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL : 1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*

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*[Signature]*

Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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Report the results in the  
laboratory only.  
The report is valid only  
for the test performed.  
The responsibility of the  
client is to ensure the  
accuracy of the results.

Endorsement of this report is neither intended nor implied by us. If the report is used in full or part shall not be used for any  
purpose other than that intended by us. Unless specifically requested by the customer, the firm will not be held responsible for more than 15 days  
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TNEB, CHENNAI-600 120.



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## TEST REPORT

Job No. 295/21-22      Report No. TCS07422000000100      Report Date 08.02.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 04.02.2022      Time of Monitoring : 1100 Hrs to 1900 Hrs  
 Location : Recovery water pumps house-NCTPS-1      Temperature : 30°C  
 Sample Code : AES2202023      Humidity : 55%  
 Sample Received On : 05.02.2022      Sample Completed On : 08.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	47.2	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	88.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	23.1	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
 Verified by



*[Signature]*  
 Authorized Signatory

R. VIVEKANANTH  
 TECHNICAL MANAGER

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*[Signature]*  
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## TEST REPORT

Job No. 295/21-22      Report No. 22000000100      Report Date 08.02.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 04.02.2022      Time of Monitoring : 1100 Hrs to 1900 Hrs  
Location : Recovery water pumps house-NCTPS-1      Temperature : 30°C  
Sample Code : AES2202023      Humidity : 55%  
Sample Received On : 05.02.2022      Sample Completed On : 08.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(e) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

R. VIVEKANANTH  
TECHNICAL MANAGER

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*hegde*

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## TEST REPORT

Job No. 295/21-22      Report No. 22000000101      Report Date 08.02.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 04.02.2022      Time of Monitoring : 1120 Hrs to 1920 Hrs  
 Location : Cheppakkam Village Near community Hall      Temperature : 30°C  
 Sample Code : AES2202024      Humidity : 61%  
 Sample Received On : 05.02.2022      Sample Completed On : 08.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

*epk*  
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*R. V. Ananth*  
 Authorized Signatory

Note: BDL – Below Detection Limit  
 DL – Detection Limit

\*\*\*End of Report\*\*\*  
 2 of 2

R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 315/21-22      Report No. 22000000183      Report Date 22.02.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 14.02.2022      Time of Monitoring : 0945 Hrs to 1745 Hrs  
 Location : 33/11 KV SS Site, NCTPS-1      Temperature : 29°C  
 Sample Code : AES2202118      Humidity : 71%  
 Sample Received On : 15.02.2022      Sample Completed On : 22.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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*[Signature]*

Authorized Signatory

Note: BDL – Below Detection Limit  
 DL – Detection Limit

\*\*\*End of Report\*\*\*

2 of 2

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 TECHNICAL MANAGER

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## TEST REPORT

Job No. 315/21-22 Report No. TC507422000000184 Report Date 22.02.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 14.02.2022 Time of Monitoring : 0945 Hrs to 1745 Hrs  
Location : Cooling Water Pump house NCTPS-1 Temperature : 30°C  
Sample Code : AES2202119 Humidity : 64%  
Sample Received On : 15.02.2022 Sample Completed On : 22.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	26.1	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	82.6	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	21.8	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

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TECHNICAL MANAGER

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## TEST REPORT

Job No. 315/21-22      Report No. TC507422000000185      Report Date 22.02.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 14.02.2022      Time of Monitoring : 1000 Hrs to 1800 Hrs  
 Location : Attipattu Village      Temperature : 29°C  
 Sample Code : AES2202120      Humidity : 72%  
 Sample Received On : 15.02.2022      Sample Completed On : 22.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	47.2	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	88.0	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	23.1	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

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R. VIVEKANANTH  
 TECHNICAL MANAGER

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Note: The results are for information only. Endorsement of test form is neither inferred nor implied. The results in full or partial shall not be used for any legal or official purpose. The test items will not be returned for more than 15 days after the date of issue of the report. The customer shall accept any liability for the damage or loss of the test items. The liability is limited to proven will.

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## TEST REPORT

Job No. 315/21-22      Report No. 22000000185      Report Date 22.02.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 14.02.2022      Time of Monitoring : 1000 Hrs to 1800 Hrs  
 Location : Attipattu Village      Temperature : 29°C  
 Sample Code : AES2202120      Humidity : 72%  
 Sample Received On : 15.02.2022      Sample Completed On : 22.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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Note: BDL – Below Detection Limit  
 DL – Detection Limit

\*\*\*End of Report\*\*\*  
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R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

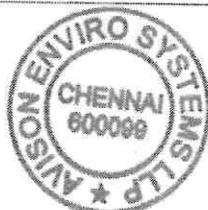
Job No. 315/21-22 Report No. TC50742200000186 Report Date 22.02.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 14.02.2022 Time of Monitoring : 1100 Hrs to 1900 Hrs  
Location : Vivekanantha School, Valluvar Camp Temperature : 31°C  
Sample Code : AES2202121 Humidity : 69%  
Sample Received On : 15.02.2022 Sample Completed On : 22.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	43.3	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	76.8	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :2.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	22.2	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

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TECHNICAL MANAGER

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## TEST REPORT

Job No. 315/21-22      Report No. 22000000186      Report Date 22.02.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 14.02.2022      Time of Monitoring : 1100 Hrs to 1900 Hrs  
 Location : Vivekanantha School, Valluvar Camp      Temperature : 31°C  
 Sample Code : AES2202121      Humidity : 69%  
 Sample Received On : 15.02.2022      Sample Completed On : 22.02.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzenè as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0



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*[Signature]*  
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Note: BDL – Below Detection Limit  
 DL – Detection Limit

\*\*\*End of Report\*\*\*  
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R. VIVEKANANTH  
 TECHNICAL MANAGER

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Note: The results of the test are valid only for the purpose and conditions stated in the report. The test results shall not be used for any other purpose without the consent of the laboratory. Unless specifically requested by the customer, the original test report shall be retained for more than 15 days after the test. The laboratory shall not be held responsible for any loss or damage to the samples or for any delay in the test results. The laboratory's liability is limited to proven willful negligence.

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## TEST REPORT

Job No. 337/21-22 Report No. 22000000292 Report Date 03.03.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 24.02.2022 Time of Monitoring : 0940 Hrs to 1740 Hrs  
Location : Fuel Oil Pump house NCTPS-1 Temperature : 28°C  
Sample Code : AES2202275 Humidity : 66%  
Sample Received On : 25.02.2022 Sample Completed On : 03.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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Note: BDL – Below Detection Limit

DL – Detection Limit

\*\*\*End of Report\*\*\*

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1. The report is valid only for the purpose for which it is issued.  
2. The report is not valid for any other purpose.  
3. The report is not valid for any other purpose.

4. Endorsement of test item is neither intended nor implied. It is not valid for any other purpose.  
5. Unless specifically requested by the customer, the test report will not be retained for more than 15 days.  
6. The laboratory accepts no liability for loss or damage caused by use of the report. Liability is limited to proven willful negligence.

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## TEST REPORT

Job No. 337/21-22      Report No. TC507422000000293      Report Date 03.03.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 24.02.2022      Time of Monitoring : 0940 Hrs to 1740 Hrs  
 Location : 33/11 KV SS Site, NCTPS-1      Temperature : 28°C  
 Sample Code : AES2202276      Humidity : 73%  
 Sample Received On : 25.02.2022      Sample Completed On : 03.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	44.2	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	83.6	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	34.8	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400



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 TECHNICAL MANAGER

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## TEST REPORT

Job No. 337/21-22 Report No. 2200000293 Report Date 03.03.2022

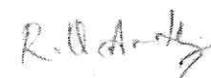
Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 24.02.2022 Time of Monitoring : 1025 Hrs to 1825 Hrs  
Location : 33/11 KV SS Site, NCTPS-1 Temperature : 28°C  
Sample Code : AES2202276 Humidity : 73%  
Sample Received On : 25.02.2022 Sample Completed On : 03.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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Note: BDL – Below Detection Limit  
DL – Detection Limit

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TECHNICAL MANAGER

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are valid only for the  
date of issue of this  
report.

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## TEST REPORT

Job No. 337/21-22      Report No. 22000000294      Report Date 03.03.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 24.02.2022      Time of Monitoring : 1010 Hrs to 1810 Hrs  
Location : Attipattu Village      Temperature : 28°C  
Sample Code : AES2202277      Humidity : 73%  
Sample Received On : 25.02.2022      Sample Completed On : 03.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL : 0.5)	1.0
5.	Benzene as C <sub>6</sub> H <sub>6</sub>	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL : 1.0)	5.0

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Note: BDL – Below Detection Limit

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DL – Detection Limit

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## TEST REPORT

Job No. 337/21-22 Report No. TC507422000000295 Report Date 03.03.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.

Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 24.02.2022 Time of Monitoring : 1115 Hrs to 1915 Hrs  
Location : Vivekanantha School, Valluvar Camp Temperature : 30°C  
Sample Code : AES2202278 Humidity : 71%  
Sample Received On : 25.02.2022 Sample Completed On : 03.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	38.6	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	75.8	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :2.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	32.5	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

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TECHNICAL MANAGER

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## TEST REPORT

Job No. 352/21-22      Report No. 22000000340      Report Date 21.03.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 17.03.2022      Time of Monitoring : 0930 Hrs to 1730 Hrs  
Location : Fuel Oil Pump House NCTPS-1      Temperature : 35°C  
Sample Code : ACS2203028      Humidity : 57%  
Sample Received On : 18.03.2022      Sample Completed On : 21.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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af-1  
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Note: BDL – Below Detection Limit  
DL – Detection Limit

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1 of 1

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## TEST REPORT

Job No. 352/21-22 Report No. TC507422000000341F Report Date 21.03.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 17.03.2022 Time of Monitoring : 0945 Hrs to 1745 Hrs  
Location : 33/11 KV SS Site, NCTPS-1 Temperature : 35°C  
Sample Code : AES2203029 Humidity : 55%  
Sample Received On : 18.03.2022 Sample Completed On : 21.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	36.1	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	84.3	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	23.3	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

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Note: BDL – Below Detection Limit

DL – Detection Limit

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R. VIVEKANANTH  
TECHNICAL MANAGER

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\*Note: The results should be used for reference only. Enclosure of test item is neither inferred nor implied. The report in full or part shall not be used for any other purpose without the written consent of Avison Enviro Systems LLP. Unless specifically requested by the customer the test items will not be retained for more than 15 days from the date of issue of the report. Avison Enviro Systems LLP is not liable for loss/damage caused by any person or entity. Liability is limited to proven willful negligence only.

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NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.



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## TEST REPORT

Job No. 352/21-22      Report No. 22000000341      Report Date 21.03.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 17.03.2022      Time of Monitoring : 0945 Hrs to 1745 Hrs  
 Location : 33/11 KV SS Site, NCTPS-1      Temperature : 35°C  
 Sample Code : ABS2203029      Humidity : 55%  
 Sample Received On : 18.03.2022      Sample Completed On : 21.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
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Note: BDL – Below Detection Limit  
 DL – Detection Limit

\*\*\*End of Report\*\*\*  
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R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 352/21-22      Report No. 22000000342      Report Date 21.03.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 17.03.2022      Time of Monitoring : 1000 Hrs to 1800 Hrs  
 Location : Recovery Water Pumps House-NCTPS-1      Temperature : 35°C  
 Sample Code : AES2203030      Humidity : 55%  
 Sample Received On : 18.03.2022      Sample Completed On : 21.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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Note: BDL – Below Detection Limit  
 DL – Detection Limit

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1 of 1

R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 352/21-22      Report No. TC507422000000343F      Report Date 21.03.2022

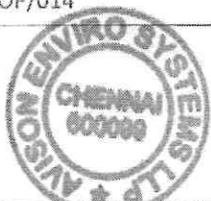
Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 17.03.2022      Time of Monitoring : 1020 Hrs to 1820 Hrs  
 Location : Attipattu Camp Area      Temperature : 35°C  
 Sample Code : AES2203031      Humidity : 56%  
 Sample Received On : 18.03.2022      Sample Completed On : 21.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	PES/EN/SOP/013	µg/m <sup>3</sup>	28.7	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006 (Reaff 2017)	µg/m <sup>3</sup>	78.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006 (Reaff 2017)	µg/m <sup>3</sup>	19.7	80
5.	Carbon Monoxide as CO	PES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	PES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*

Verified by



*[Signature]*

Authorized Signatory

Note: BDL – Below Detection Limit  
 DL – Detection Limit

\*\*\*End of Report\*\*\*

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R. VIVEKANANTH  
 TECHNICAL MANAGER

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## TEST REPORT

Job No. 352/21-22      Report No. 2200000343      Report Date 21.03.2022

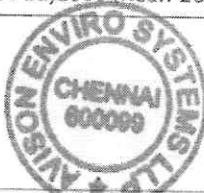
Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.

Sample Drawn by : AFS      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 17.03.2022      Time of Monitoring : 1020 Hrs to 1820 Hrs  
 Location : Attipattu Camp Area      Temperature : 35°C  
 Sample Code : AES2203031      Humidity : 56%  
 Sample Received On : 18.03.2022      Sample Completed On : 21.03.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004 (Reaff 2019)	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004 (Reaff 2019)	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006 (Reaff 2017)	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
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*[Signature]*

Authorized Signatory

Note: BDL - Below Detection Limit  
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## TEST REPORT

Job No. 382/21-22      Report No. 22000000436      Report Date 05.04.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 31.03.2022      Time of Monitoring : 0930 Hrs to 1730 Hrs  
 Location : 33/11 KV SS Site, NCTPS-1      Temperature : 33.6°C  
 Sample Code : AES2203135      Humidity : 53%  
 Sample Received On : 31.03.2022      Sample Completed On : 05.04.2022

S.No	Description	Method of Reference	Units	Results	Max. Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	38.6	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	86.5	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	24.8	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

V.A.  
Verified by



R.V.A.  
Authorized Signatory

Authorized Signatory

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## TEST REPORT

Job No. 382/21-22      Report No. 22000000436      Report Date 05.04.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 31.03.2022      Time of Monitoring : 0930 Hrs to 1730 Hrs  
 Location : 33/11 KV SS Site, NCTPS-1      Temperature : 33.6°C  
 Sample Code : AES2203135      Humidity : 53%  
 Sample Received On : 31.03.2022      Sample Completed On : 05.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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*R. Vivekananth*  
**CHIEF ENGINEER**  
**NORTH CHENNAI THERMAL POWER STATION**  
**TNEB, CHENNAI-600 120.**



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## TEST REPORT

Job No. 382/21-22      Report No. 22000000437      Report Date 05.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 31.03.2022      Time of Monitoring : 0945 Hrs to 1745 Hrs  
Location : Fuel Oil Pump House      Temperature : 34°C  
Sample Code : AES2203136      Humidity : 55%  
Sample Received On : 31.03.2022      Sample Completed On : 05.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	34.9	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	88.2	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	23.6	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP



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Note: BDL - Below Detection Limit  
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NORTH CHENNAI THERMAL POWER STATION  
TRES, CHENNAI-600 120.





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## TEST REPORT

Job No.	382/21-22	Report No.	22000000438	Report Date	05.04.2022
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Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Altipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES  
 Date of Monitoring : 31.03.2022  
 Location : Chepakkam Village  
 Sample Code : AES2203137  
 Sample Received On : 31.03.2022  
 Sampling Method : IS 5182 Part V & XIV  
 Time of Monitoring : 0955 Hrs to 1755 Hrs  
 Temperature : 35°C  
 Humidity : 55%  
 Sample Completed On : 05.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	29.9	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	80.5	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	24.2	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL:20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL:20)	400

For AVISON ENVIRO SYSTEMS LLP



*R. V. Ananth*

*V.A.*  
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Authorized Signatory

Note: BDL - Below Detection Limit  
 DL - Detection Limit

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*R. V. Ananth*  
 CHIEF ENGINEER  
 NORTH CHENNAI THERMAL POWER STATION  
 TNEB, CHENNAI-600 120.



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## TEST REPORT

Job No. 382/21-22      Report No. 22000000438      Report Date 05.04.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Pudhunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 31.03.2022      Time of Monitoring : 0955 Hrs to 1755 Hrs  
 Location : Chepakkam Village      Temperature : 35°C  
 Sample Code : AES2203137      Humidity : 55%  
 Sample Received On : 31.03.2022      Sample Completed On : 05.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL : 0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL : 1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP  
 Verified by *ak*            *R. Vivekananth*  
 Authorized Signatory

Note: BDL – Below Detection Limit  
 DL – Detection Limit

\*\*\*End of Report\*\*\*  
 1 of 1

R. VIVEKANANTH  
 TECHNICAL MANAGER

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*R. Vivekananth*  
 CHIEF ENGINEER  
 NORTH CHENNAI THERMAL POWER STATION  
 TNEB, CHENNAI-600 120.



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## TEST REPORT

Job No. 382/21-22      Report No. 22000000439      Report Date 05.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 31.03.2022      Time of Monitoring : 1010 Hrs to 1810 Hrs  
Location : Recovery Pump House      Temperature : 34.5°C  
Sample Code : AES2203138      Humidity : 55%  
Sample Received On : 31.03.2022      Sample Completed On : 05.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5,	AES/EN/SOP/013	µg/m <sup>3</sup>	32.3	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	83.1	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	24.6	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

OK  
Verified by



R. VIVEKANANTH

Authorized Signatory

Note: BDL – Below Detection Limit  
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\*\*\*End of Report\*\*\*

1 of 1

R. VIVEKANANTH  
TECHNICAL MANAGER

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## TEST REPORT

Job No. 382/21-22      Report No. 22000000439      Report Date 05.04.2022

Sample Description : Ambient Air Quality Monitoring  
 Customer Name : Thermal Power Station  
 Customer Address : North Chennai Thermal Power Station-1  
 Attipattu Puthunagar, Chennai-600 120.  
 Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
 Date of Monitoring : 31.03.2022      Time of Monitoring : 1010 Hrs to 1810 Hrs  
 Location : Recovery Pump House      Temperature : 34.5°C  
 Sample Code : AES2203138      Humidity : 55%  
 Sample Received On : 31.03.2022      Sample Completed On : 05.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP



V.K  
 Verified by

*R. Vivekananth*

Authorized Signatory

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## TEST REPORT

Job No. 011/22-23 Report No. TC507422000000466F Report Date 13.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.04.2022 Time of Monitoring : 0930 Hrs to 1730 Hrs  
Location : 33/11 KV SS Site, NCTPS-1 Temperature : 34°C  
Sample Code : AES2204053 Humidity : 54%  
Sample Received On : 11.04.2022 Sample Completed On : 13.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	47.4	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	88.4	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	31.4	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

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\*\*\*End of Report\*\*\*

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## TEST REPORT

Job No. 011/22-23      Report No. 22000000466      Report Date 13.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.04.2022      Time of Monitoring : 0930 Hrs to 1730 Hrs  
Location : 33/11 KV SS Site, NCTPS-1      Temperature : 34°C  
Sample Code : AES2204053      Humidity : 54%  
Sample Received On : 11.04.2022      Sample Completed On : 13.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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## TEST REPORT

Job No. 011/22-23      Report No. TC50742200000467F      Report Date 13.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.04.2022      Time of Monitoring : 0945 Hrs to 1745 Hrs  
Location : Fuel Oil Pump House      Temperature : 34°C  
Sample Code : AES2204054      Humidity : 56%  
Sample Received On : 11.04.2022      Sample Completed On : 13.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	49.8	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	90.3	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	29.6	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

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\*\*\*End of Report\*\*\*

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TECHNICAL MANAGER

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## TEST REPORT

Job No. 011/22-23      Report No. 22000000467      Report Date 13.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.04.2022      Time of Monitoring : 0945 Hrs to 1745 Hrs  
Location : Fuel Oil Pump House      Temperature : 34°C  
Sample Code : AES2204054      Humidity : 56%  
Sample Received On : 11.04.2022      Sample Completed On : 13.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL : 0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL : 1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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\*\*\*End of Report\*\*  
1 of 1

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TECHNICAL MANAGER

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*degn*  
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## TEST REPORT

Job No. 011/22-23 Report No. TC507422000000468F Report Date 13.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.04.2022 Time of Monitoring : 1000 Hrs to 1800 Hrs  
Location : Chepakkam Village Temperature : 35°C  
Sample Code : AES2204055 Humidity : 56%  
Sample Received On : 11.04.2022 Sample Completed On : 13.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	47.4	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	94.3	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	38.2	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

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\*\*\*End of Report\*\*\*

1 of 1

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TECHNICAL MANAGER

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## TEST REPORT

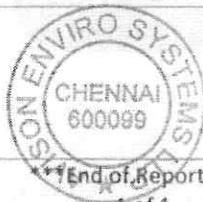
Job No. 011/22-23      Report No. 22000000468      Report Date 13.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.04.2022      Time of Monitoring : 1000 Hrs to 1800 Hrs  
Location : Chepakkam Village      Temperature : 35°C  
Sample Code : AES2204055      Humidity : 56%  
Sample Received On : 11.04.2022      Sample Completed On : 13.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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Note: BDL - Below Detection Limit  
DL - Detection Limit

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## TEST REPORT

Job No. 011/22-23 Report No. TC50742200000469F Report Date 13.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.04.2022 Time of Monitoring : 1015 Hrs to 1815 Hrs  
Location : Vallur Camp Temperature : 34°C  
Sample Code : AES2204056 Humidity : 57%  
Sample Received On : 11.04.2022 Sample Completed On : 13.04.2022.

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	43.4	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	89.2	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	30.3	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*

Verified by



*[Signature]*

Authorized Signatory

Note: BDL – Below Detection Limit  
DL – Detection Limit

\*\*\*End of Report\*\*\*  
1 of 1

R. VIVEKANANTH  
TECHNICAL MANAGER

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*[Signature]*

CHIEF ENGINEER  
NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.



# AVISON ENVIRO SYSTEMS LLP

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## TEST REPORT

Job No. 011/22-23 Report No. 22000000469 Report Date 13.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 08.04.2022 Time of Monitoring : 1015 Hrs to 1815 Hrs  
Location : Vallur Camp Temperature : 34°C  
Sample Code : AES2204056 Humidity : 57%  
Sample Received On : 11.04.2022 Sample Completed On : 13.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL : 5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL : 0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL : 1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*  
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*[Signature]*

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*[Signature]*  
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## TEST REPORT

Job No. 016/22-23 Report No. TC50742200000500F Report Date 16.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 12.04.2022 Time of Monitoring : 0915 Hrs to 1715 Hrs  
Location : 33/11 KV SS Site, NCTPS-I Temperature : 34°C  
Sample Code : AES2204061 Humidity : 54%  
Sample Received On : 13.04.2022 Sample Completed On : 16.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	31.1	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	85.6	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	28.6	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL:20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL:20)	400

For AVISON ENVIRO SYSTEMS LLP

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*R. Vivekananth*

Authorized Signatory

Note: BDL - Below Detection Limit  
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*degn*  
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## TEST REPORT

Job No. 016/22-23 Report No. 22000000500 Report Date 16.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.

Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 12.04.2022 Time of Monitoring : 0915 Hrs to 1715 Hrs  
Location : 33/11 KV SS Site, NCTPS-I Temperature : 34°C  
Sample Code : AES2204061 Humidity : 54%  
Sample Received On : 13.04.2022 Sample Completed On : 16.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

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## TEST REPORT

Job No. 016/22-23 Report No. TC50742200000501F Report Date 16.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 12.04.2022 Time of Monitoring : 0930 Hrs to 1730 Hrs  
Location : Fuel Oil Pump House near Ash  
Handling Pump House NCTPS-I Temperature : 35°C  
Sample Code : AES2204062 Humidity : 53%  
Sample Received On : 13.04.2022 Sample Completed On : 16.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	34.6	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	96.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	36.3	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

For AVISON ENVIRO SYSTEMS LLP

*[Signature]*

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*[Signature]*

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## TEST REPORT

Job No. 016/22-23 Report No. 22000000501 Report Date 16.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 12.04.2022 Time of Monitoring : 0930 Hrs to 1730 Hrs  
Location : Fuel Oil Pump House near Ash  
Handling Pump House NCTPS-I Temperature : 35°C  
Sample Code : AES2204062 Humidity : 53%  
Sample Received On : 13.04.2022 Sample Completed On : 16.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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## TEST REPORT

Job No. 016/22-23 Report No. TC50742200000502F Report Date 16.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 12.04.2022 Time of Monitoring : 0900 Hrs to 1700 Hrs  
Location : Cheppakkam Village at Community Hall Temperature : 34°C  
Sample Code : AES2204063 Humidity : 62%  
Sample Received On : 13.04.2022 Sample Completed On : 16.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	30.9	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	85.9	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	27.0	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL :20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL : 20)	400

*[Signature]*

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For AVISON ENVIRO SYSTEMS LLP

*[Signature]*

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1 of 1

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TECHNICAL MANAGER

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*[Signature]*

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## TEST REPORT

Job No. 016/22-23      Report No. 22000000502      Report Date 16.04.2022

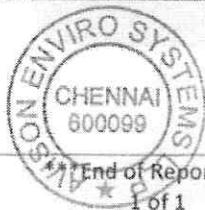
Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.

Sample Drawn by : AES      Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 12.04.2022      Time of Monitoring : 0900 Hrs to 1700 Hrs  
Location : Cheppakkam Village at Community Hall      Temperature : 34°C  
Sample Code : AES2204063      Humidity : 62%  
Sample Received On : 13.04.2022      Sample Completed On : 16.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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TECHNICAL MANAGER.

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*Deep*  
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## TEST REPORT

Job No. 016/22-23 Report No. TC50742200000503F Report Date 16.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Pudhunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 12.04.2022 Time of Monitoring : 0830 Hrs to 1630 Hrs  
Location : ITI Vallur Camp-NCTPS-I Temperature : 32°C  
Sample Code : AES2204064 Humidity : 60%  
Sample Received On : 13.04.2022 Sample Completed On : 16.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	AES/EN/SOP/013	µg/m <sup>3</sup>	31.0	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	µg/m <sup>3</sup>	86.3	100
3.	Sulphur Dioxide as SO <sub>2</sub>	IS:5182 (Part-2)2001	µg/m <sup>3</sup>	BDL (DL:5.0)	80
4.	Nitrogen Dioxide as NO <sub>2</sub>	IS:5182 (Part-6)2006	µg/m <sup>3</sup>	32.3	80
5.	Carbon Monoxide as CO	AES/EN/SOP/016	mg/m <sup>3</sup>	BDL (DL:1.15)	4.0
6.	Ozone as O <sub>3</sub>	IS:5182(Part-9)1974	µg/m <sup>3</sup>	BDL (DL:20)	180
7.	Ammonia as NH <sub>3</sub>	AES/EN/SOP/014	µg/m <sup>3</sup>	BDL (DL:20)	400

For AVISON ENVIRO SYSTEMS LLP

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TECHNICAL MANAGER

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## TEST REPORT

Job No. 016/22-23 Report No. 2200000503 Report Date 16.04.2022

Sample Description : Ambient Air Quality Monitoring  
Customer Name : Thermal Power Station  
Customer Address : North Chennai Thermal Power Station-1  
Attipattu Puthunagar, Chennai-600 120.  
Sample Drawn by : AES Sampling Method : IS 5182 Part V & XIV  
Date of Monitoring : 12.04.2022 Time of Monitoring : 0830 Hrs to 1630 Hrs  
Location : TTI Vallur Camp-NCTPS-1 Temperature : 32°C  
Sample Code : AES2204064 Humidity : 60%  
Sample Received On : 13.04.2022 Sample Completed On : 16.04.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Lead as Pb	IS:5182 (Part-22)2004	µg/m <sup>3</sup>	BDL (DL : 0.1)	1.0
2.	Arsenic as As	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	6.0
3.	Nickel as Ni	CPCB Guidelines Volume-1	ng/m <sup>3</sup>	BDL (DL :5.0)	20
4.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m <sup>3</sup>	BDL (DL :0.5)	1.0
5.	Benzene as C6H6	IS:5182 (Part-11)2006	µg/m <sup>3</sup>	BDL (DL :1.0)	5.0

For AVISON ENVIRO SYSTEMS LLP

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Note: BDL - Below Detection Limit  
DL - Detection Limit

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TECHNICAL MANAGER

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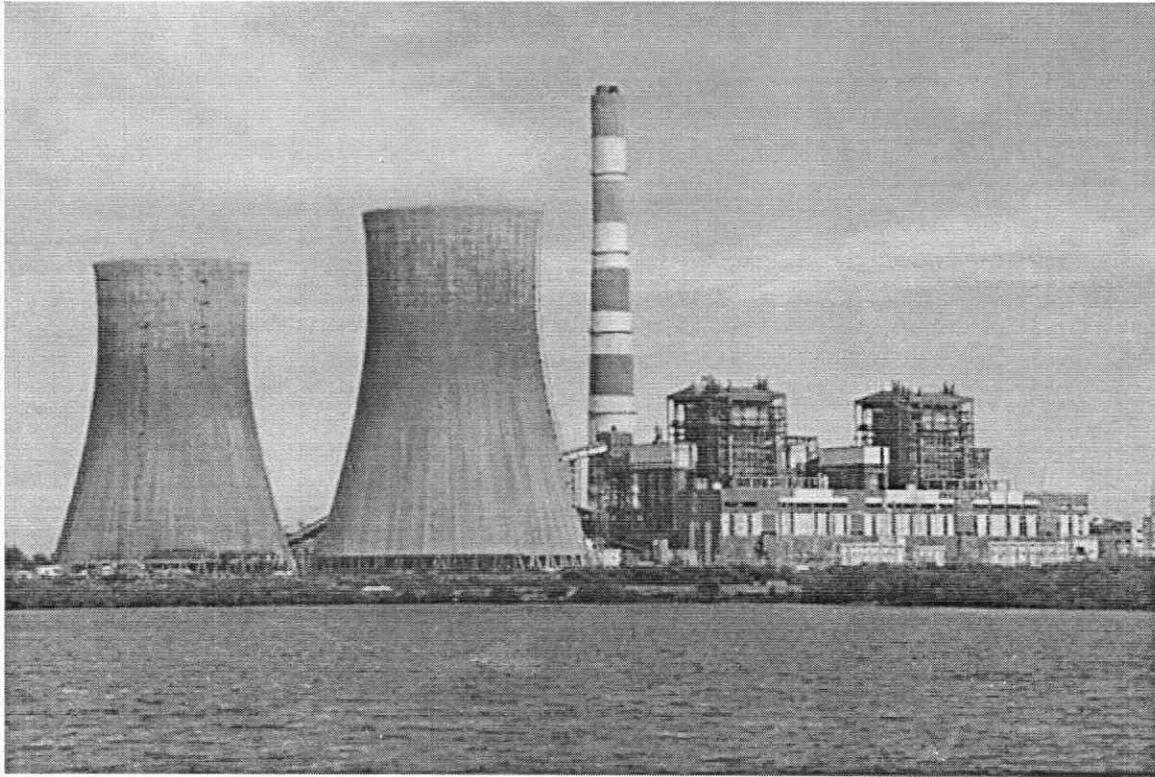
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NORTH CHENNAI THERMAL POWER STATION  
TNEB, CHENNAI-600 120.

Report On

**AIR POLLUTION MONITORING AND SOURCE  
DISPERSION MODELLING**

At

**M/s. NORTH CHENNAI THERMAL POWER STATION - 1**



*Prepared By*

**The Joint Committee in the Matter of OA 256 of  
2020 Before the Honourable NGT Southern Zone,  
Chennai**

**Year 2021 - 2022**

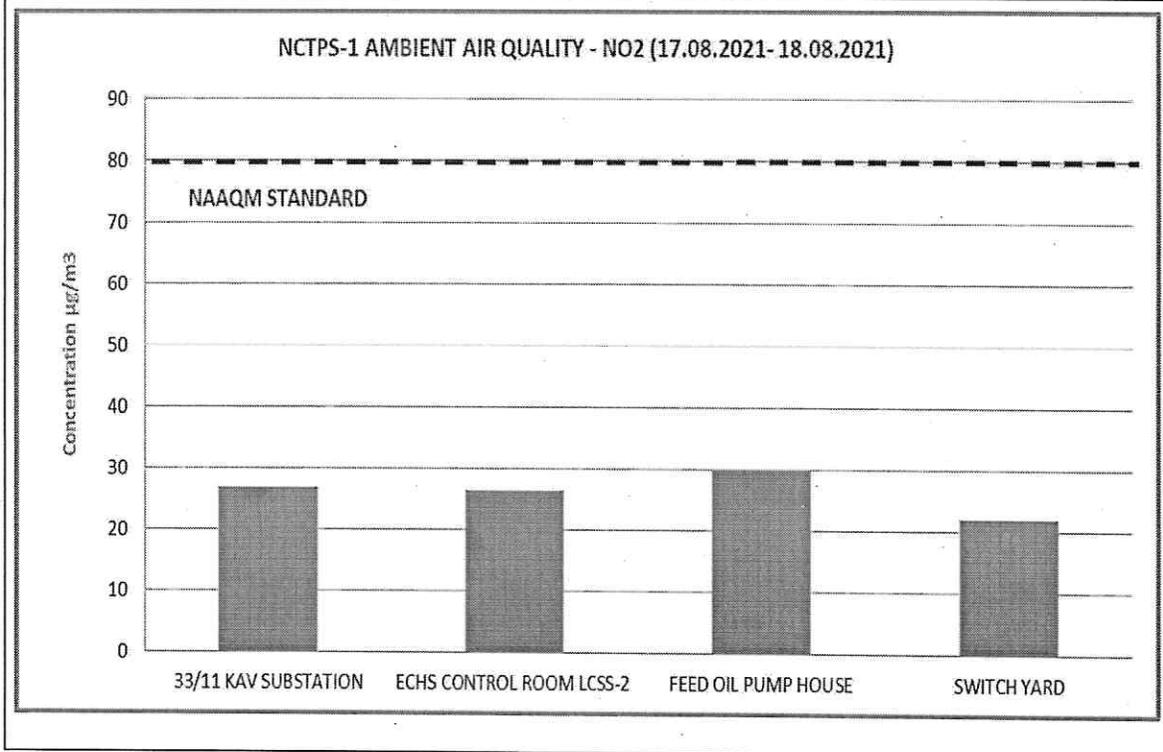
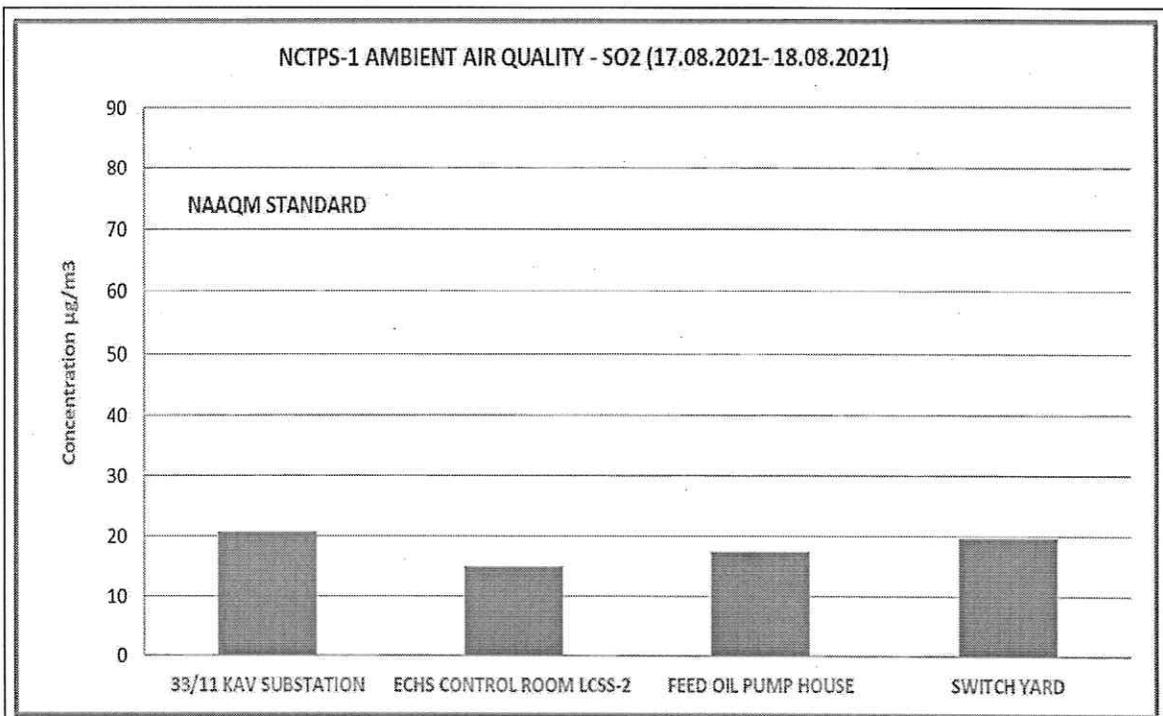
  
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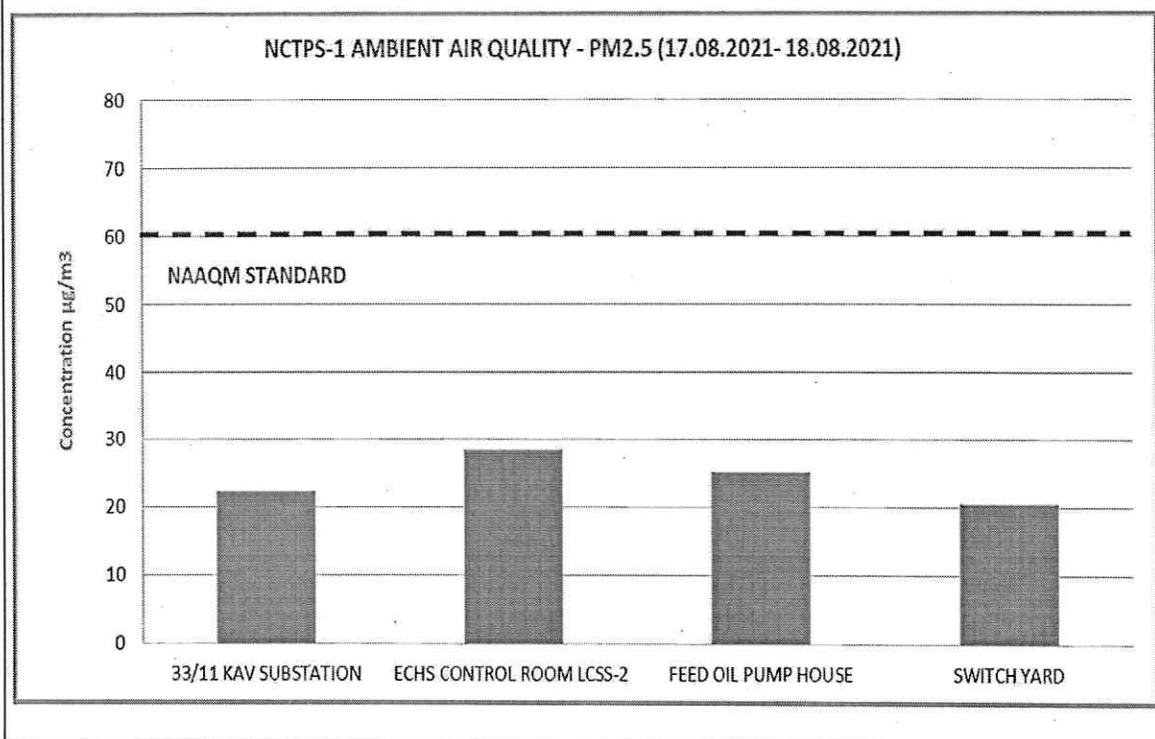
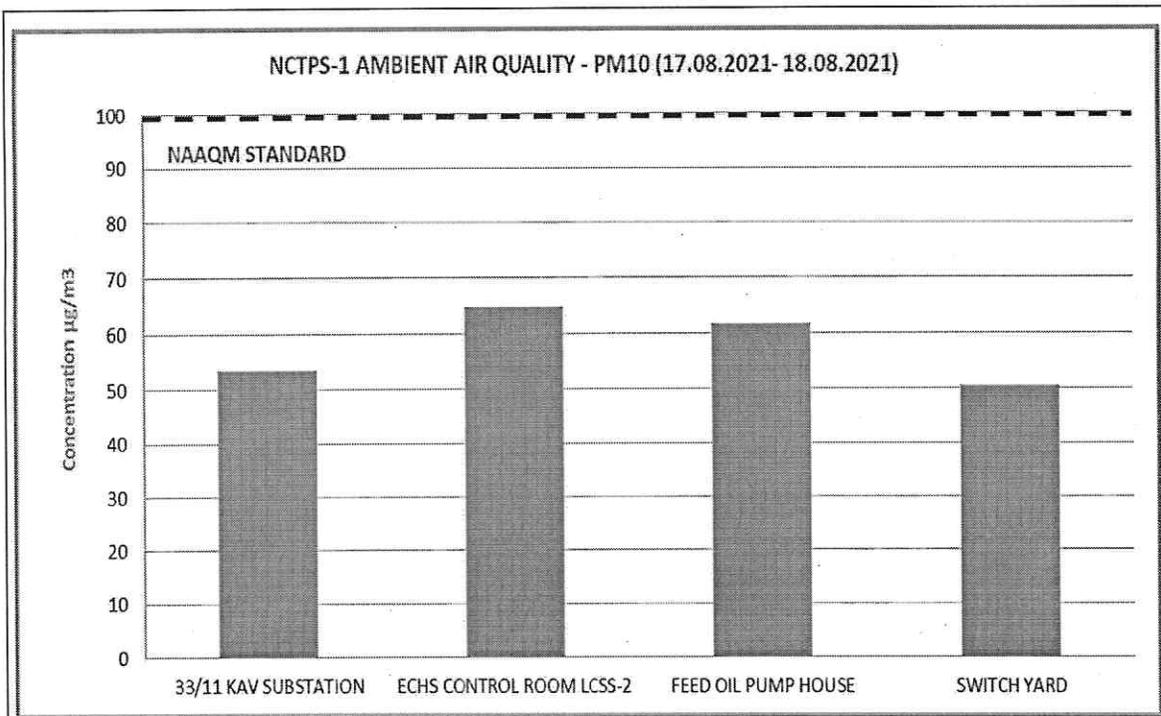
**DAY-1 AAQM Consolidated Monitoring Results:**

DAY-1 AAQM Consolidated Monitoring Results ( $\mu\text{g}/\text{m}^3$ )				
[17.08.2021 to 18.08.2021]				
Sampling Location	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
33/11 KAV SUBSTATION	20.7	27	53.5	22.3
ECHS CONTROL ROOM LCSS-2	15	26.3	64.8	28.5
FEED OIL PUMP HOUSE	17.5	29.9	61.6	25.2
SWITCH YARD	19.7	22	50.5	20.6

  
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## CONCLUSION:

In Ambient Air Quality monitoring four sampling locations were identified to assess the GLC of point source emission of Gaseous and Particulate matter. The sampling locations are 33/11 KAV Substation, ECHS Control Room LCSS-2, Feed Oil Pump House and Switch Yard.

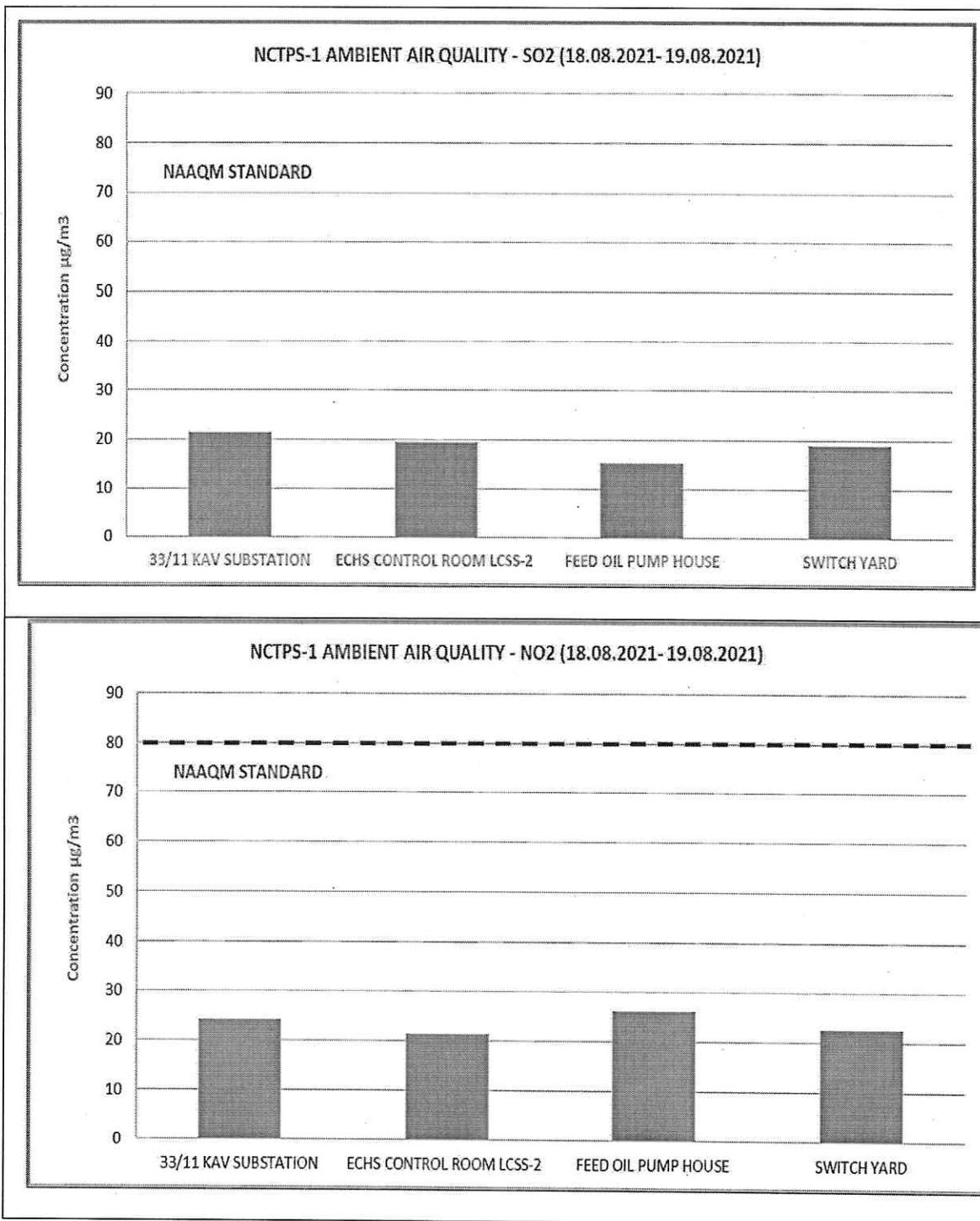
- *Sulphur Dioxide as SO<sub>2</sub>*: Ambient Air Quality measurement values of SO<sub>2</sub> are ranging from 15 to 20.7µg/m<sup>3</sup>. Highest value of 20.7µg/m<sup>3</sup> is obtained and however the values are within the NAAQM standards.
- *Nitrogen Dioxide as NO<sub>2</sub>*: Ambient Air Quality values of NO<sub>2</sub> are ranging from 22 to 29.9µg/m<sup>3</sup>. Highest value of 29.9µg/m<sup>3</sup> is obtained and however the values are within the NAAQM standards.
- *Particulate Matter (PM<sub>10</sub>)*: Ambient Air Quality values of PM<sub>10</sub> are ranging from 50.5 to 64.8µg/m<sup>3</sup>. Highest value of 64.8µg/m<sup>3</sup> is obtained and however the values are within the NAAQM standards.
- *Particulate Matter (PM<sub>2.5</sub>)*: Ambient Air Quality values of PM<sub>2.5</sub> are ranging from 20.6 to 28.5µg/m<sup>3</sup>. Highest value of 28.5µg/m<sup>3</sup> is obtained and however the values are within the NAAQM standards.



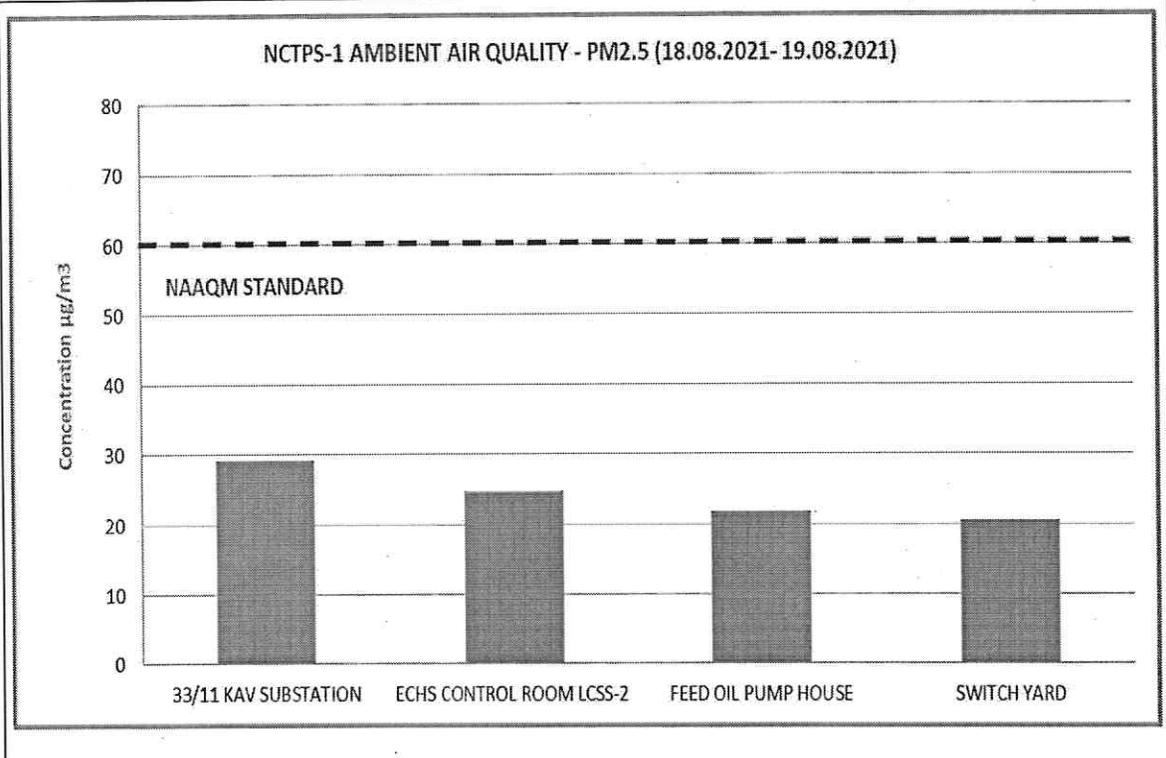
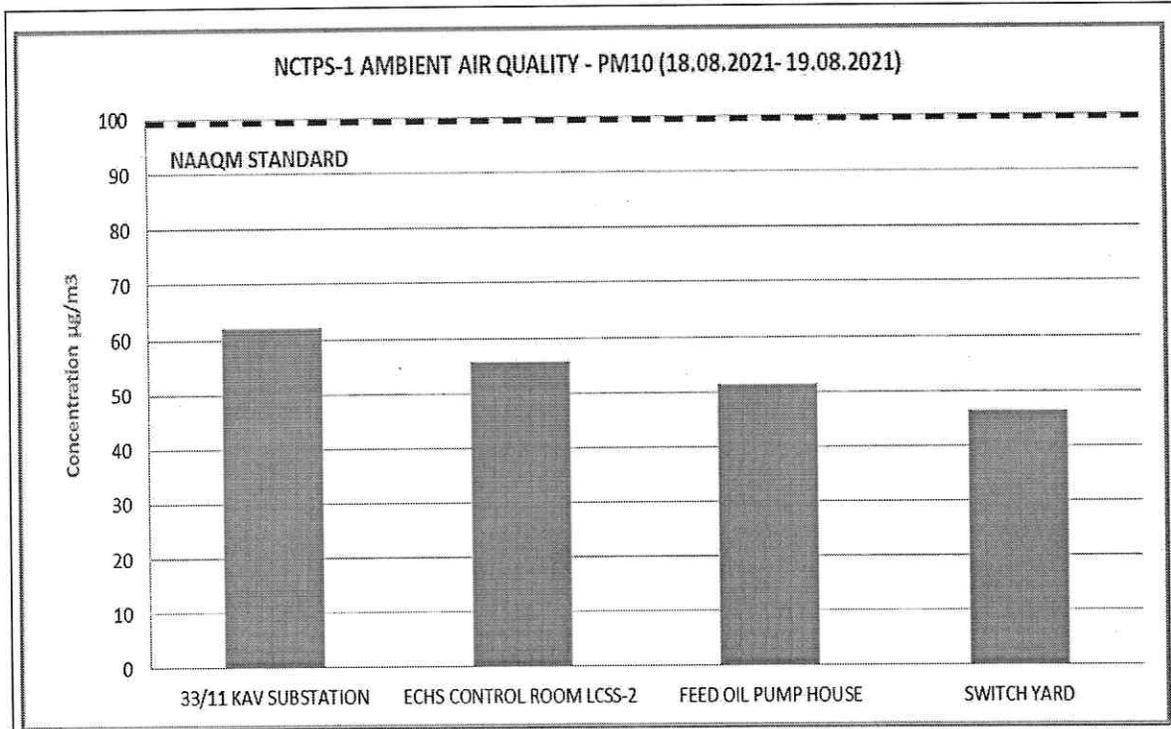
**DAY-2 AAQM Consolidated Monitoring Results:**

DAY-2 AAQM Consolidated Monitoring Results ( $\mu\text{g}/\text{m}^3$ )				
[18.08.2021 to 19.08.2021]				
Sampling Location	SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
33/11 KAV SUBSTATION	21.5	24.2	62	29.2
ECHS CONTROL ROOM LCSS-2	19.4	21.4	55.9	24.7
FEED OIL PUMP HOUSE	15.3	26.1	51.4	21.8
SWITCH YARD	18.9	22.6	46.5	20.6

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*[Signature]*  
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- *Sulphur Dioxide as SO<sub>2</sub>*: Ambient Air Quality measurement values of SO<sub>2</sub> are ranging from 15.3 to 21.5µg/m<sup>3</sup>. Highest value of 21.5µg/m<sup>3</sup> is obtained and however the values are within the NAAQM standards.
- *Nitrogen Dioxide as NO<sub>2</sub>*: Ambient Air Quality values of NO<sub>2</sub> are ranging from 21.4 to 26.1µg/m<sup>3</sup>. Highest value of 26.1µg/m<sup>3</sup> is obtained and however the values are within the NAAQM standards.
- *Particulate Matter (PM<sub>10</sub>)*: Ambient Air Quality values of PM<sub>10</sub> are ranging from 46.5 to 62µg/m<sup>3</sup>. Highest value of 62µg/m<sup>3</sup> is obtained and however the values are within the NAAQM standards.
- *Particulate Matter (PM<sub>2.5</sub>)*: Ambient Air Quality values of PM<sub>2.5</sub> are ranging from 20.6 to 29.2µg/m<sup>3</sup>. Highest value of 28.5µg/m<sup>3</sup> is obtained and however the values are within the NAAQM standards.

  
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