



Eco Tech Labs Pvt Ltd

NABET & NABL ACCREDITED AND MOEF & CC RECOGNISED LABORATORY
ISO 9001:2015 and OHSAS-ISO 45001:2018 Certified Company



TC-5937

Plot No.48A, 2nd Main Road, Ram Nagar South Extension, Pallikaranai, Chennai - 600 100.
Phone : 8144115515, Email : info@ecotechlabs.in / lab@ecotechlabs.in, Website : www.ecotechlabs.in

Accredited by NABL ISO/IEC 17025 : 2017, Quality Council of India

TEST REPORT

Report No : TC593721000003425F

Report Date: 24.11.2021

Page 1 of 1

Name of the Client	: M/s. NTPC Tamilnadu Energy Company Ltd.		
Address of the Project Site	: Vallur Thermal Power Project, Kurvimeedu Village, Vellivoyal chavadi- PO, Chennai - 600103.		
Sample Name	: Air Quality	Sample Description	: Ambient Air
Sample Code	: ETL1121189	Sample Duration	: 24Hrs
Sample Drawn By	: Eco Tech Labs P.Ltd	Sampling date	: 15.11.2021
Sampling Procedure	: ETL/QAD/SOP/09	Received date	: 16.11.2021
Sample Location	: 1. Athipattu	Commenced on	: 16.11.2021
Customer Reference	: -	Completed on	: 22.11.2021

I. CHEMICAL TESTING

1. Atmospheric Pollution

S. No	Parameters	Test Method	Results	Units	NAAQ Standards: 2009
			AAQ 1		
1	Sulphur Dioxide	IS: 5182 (P- 2) 2001(RA:2012)	24.3	µg/m ³	80 (24 Hours)
2	Oxides of Nitrogen	IS: 5182 (P- 6) :2006(RA :2012)	31.5	µg/m ³	80 (24 Hours)
3	Respirable Suspended Particulate Matter (PM10)	IS: 5182 (P-23) :2006(RA:2012)	63.6	µg/m ³	100 (24 Hours)
4	Particulate Matter (PM 2.5)	ETL/CHL/SOP/001	31.5	µg/m ³	60 (24 Hours)
5	Carbon monoxide	ETL/CHL/IOP/029	BQL (LOQ :1.1)	mg/m ³	4 (1 Hour)
6	Lead	IS: 5182 (P- 22 :2004(RA:2014)	0.025	µg/m ³	1 (24 Hours)
7	Ozone	IS: 5182 (P- 9) :1974(RA:2009)	14.8	µg/m ³	180 (1 Hour)
8	Ammonia	ETL/CHL/SOP/002	12.8	µg/m ³	400 (24 Hours)
9	Benzene	IS: 5182 (P- 11) :2006(RA:2012)	BQL(LOQ :0.5)	µg/m ³	5 (Annual)
10	Benzo(a)pyrene	IS: 5182 (P-12) :2004(RA:2014)	BQL (LOQ: 0.5)	ng/m ³	1 (Annual)
11	Arsenic	ETL/INS/SOP/002	BQL (LOQ: 1)	ng/m ³	6 (Annual)
12	Nickel	USEPA IO - 3.2	BQL (LOQ: 2.5)	ng/m ³	20 (Annual)

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

End of Report



Authorised Signatory - Chemical

S. Kokila
S. Kokila
Lab Manager

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TEST REPORT

Report No : TC593721000003426F

Report Date: 24.11.2021

Page 1 of 1

Name of the Client	: M/s. NTPC Tamilnadu Energy Company Ltd.	Sample Description	: Ambient Air
Address of the Project Site	: Vallur Thermal Power Project, Kurvimeedu Village, Vellivoyal chavadi- PO, Chennai - 600103.	Sample Duration	: 24Hrs
Sample Name	: Air Quality	Sampling date	: 15.11.2021
Sample Code	: ETL1121190	Received date	: 16.11.2021
Sample Drawn By	: Eco Tech Labs P.Ltd	Commenced on	: 16.11.2021
Sampling Procedure	: ETL/QAD/SOP/09	Completed on	: 22.11.2021
Sample Location	: 2. Kondakarai		
Customer Reference	: -		

I. CHEMICAL TESTING

1. Atmospheric Pollution

S. No	Parameters	Test Method	Results	Units	NAAQ Standards: 2009
			AAQ 2		
1	Sulphur Dioxide	IS: 5182 (P- 2) 2001(RA:2012)	19.8	µg/m ³	80 (24 Hours)
2	Oxides of Nitrogen	IS: 5182 (P- 6) :2006(RA :2012)	28.5	µg/m ³	80 (24 Hours)
3	Respirable Suspended Particulate Matter (PM10)	IS: 5182 (P-23) :2006(RA:2012)	58.3	µg/m ³	100 (24 Hours)
4	Particulate Matter (PM 2.5)	ETL/CHL/SOP/001	28.3	µg/m ³	60 (24 Hours)
5	Carbon monoxide	ETL/CHL/IOP/029	BQL (LOQ :1.1)	mg/m ³	4 (1 Hour)
6	Lead	IS: 5182 (P- 22 :2004(RA:2014)	BQL (LOQ :0.025)	µg/m ³	1 (24 Hours)
7	Ozone	IS: 5182 (P- 9) :1974(RA:2009)	17.5	µg/m ³	180 (1 Hour)
8	Ammonia	ETL/CHL/SOP/002	14.1	µg/m ³	400 (24 Hours)
9	Benzene	IS: 5182 (P- 11) :2006(RA:2012)	BQL(LOQ :0.5)	µg/m ³	5 (Annual)
10	Benzo(a)pyrene	IS: 5182 (P-12) :2004(RA:2014)	BQL (LOQ: 0.5)	ng/m ³	1 (Annual)
11	Arsenic	ETL/INS/SOP/002	BQL (LOQ: 1)	ng/m ³	6 (Annual)
12	Nickel	USEPA IO - 3.2	BQL (LOQ: 2.5)	ng/m ³	20 (Annual)

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

End of Report



Authorised Signatory - Chemical

S. Kokila
S. Kokila
Lab Manager



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TEST REPORT

Report No : TC593721000003427F	Report Date: 24.11.2021	Page 1 of 1
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Name of the Client : M/s. NTPC Tamilnadu Energy Company Ltd.
Address of the Project : Vallur Thermal Power Project, Kurvimeedu Village, Vellivoyal chavadi- PO,
Site : Chennai - 600103.

Sample Name : Air Quality Sample Description : Ambient Air
Sample Code : ETL1121191 Sample Duration : 24Hrs
Sample Drawn By : Eco Tech Labs P.Ltd Sampling date : 15.11.2021
Sampling Procedure : ETL/QAD/SOP/09 Received date : 16.11.2021
Sample Location : 3. Kathivakkam Commenced on : 16.11.2021
Customer Reference : - Completed on : 22.11.2021

I. CHEMICAL TESTING

1. Atmospheric Pollution

S. No	Parameters	Test Method	Results	Units	NAAQ Standards: 2009
			AAQ 3		
1	Sulphur Dioxide	IS: 5182 (P- 2) 2001(RA:2012)	27.5	µg/m ³	80 (24 Hours)
2	Oxides of Nitrogen	IS: 5182 (P- 6) :2006(RA :2012)	39.9	µg/m ³	80 (24 Hours)
3	Respirable Suspended Particulate Matter (PM10)	IS: 5182 (P-23) :2006(RA:2012)	69.5	µg/m ³	100 (24 Hours)
4	Particulate Matter (PM 2.5)	ETL/CHL/SOP/001	30.1	µg/m ³	60 (24 Hours)
5	Carbon monoxide	ETL/CHL/IOP/029	BQL (LOQ :1.1)	mg/m ³	4 (1 Hour)
6	Lead	IS: 5182 (P- 22 :2004(RA:2014)	BQL(LOQ :0.025)	µg/m ³	1 (24 Hours)
7	Ozone	IS: 5182 (P- 9) :1974(RA:2009)	15.5	µg/m ³	180 (1 Hour)
8	Ammonia	ETL/CHL/SOP/002	16.1	µg/m ³	400 (24 Hours)
9	Benzene	IS: 5182 (P- 11) :2006(RA:2012)	BQL(LOQ :0.5)	µg/m ³	5 (Annual)
10	Benzo(a)pyrene	IS: 5182 (P-12) :2004(RA:2014)	BQL (LOQ: 0.5)	ng/m ³	1 (Annual)
11	Arsenic	ETL/INS/SOP/002	BQL (LOQ: 1)	ng/m ³	6 (Annual)
12	Nickel	USEPA IO - 3.2	BQL(LOQ 2.5)	ng/m ³	20 (Annual)

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

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Lab Manager

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TEST REPORT

Report No : TC593721000003428F

Report Date: 24.11.2021

Page 1 of 1

Name of the Client	: M/s. NTPC Tamilnadu Energy Company Ltd.	Sample Description	: Ambient Air
Address of the Project Site	: Vallur Thermal Power Project, Kurvimeedu Village, Vellivoyal chavadi- PO, Chennai - 600103.	Sample Duration	: 24Hrs
Sample Name	: Air Quality	Sampling date	: 15.11.2021
Sample Code	: ETL1121192	Received date	: 16.11.2021
Sample Drawn By	: Eco Tech Labs P.Ltd	Commenced on	: 16.11.2021
Sampling Procedure	: ETL/QAD/SOP/09	Completed on	: 22.11.2021
Sample Location	: 4. Vichoor		
Customer Reference	: -		

I. CHEMICAL TESTING

1. Atmospheric Pollution

S. No	Parameters	Test Method	Results	Units	NAAQ Standards: 2009
			AAQ 4		
1	Sulphur Dioxide	IS: 5182 (P- 2) 2001(RA:2012)	29.4	µg/m ³	80 (24 Hours)
2	Oxides of Nitrogen	IS: 5182 (P- 6) :2006(RA :2012)	33.1	µg/m ³	80 (24 Hours)
3	Respirable Suspended Particulate Matter (PM10)	IS: 5182 (P-23) :2006(RA:2012)	70.1	µg/m ³	100 (24 Hours)
4	Particulate Matter (PM 2.5)	ETL/CHL/SOP/001	37.8	µg/m ³	60 (24 Hours)
5	Carbon monoxide	ETL/CHL/IOP/029	BQL (LOQ :1.1)	mg/m ³	4 (1 Hour)
6	Lead	IS: 5182 (P- 22 :2004(RA:2014)	0.027	µg/m ³	1 (24 Hours)
7	Ozone	IS: 5182 (P- 9) :1974(RA:2009)	20.4	µg/m ³	180 (1 Hour)
8	Ammonia	ETL/CHL/SOP/002	18.4	µg/m ³	400 (24 Hours)
9	Benzene	IS: 5182 (P- 11) :2006(RA:2012)	BQL(LOQ :0.5)	µg/m ³	5 (Annual)
10	Benzo(a)pyrene	IS: 5182 (P-12) :2004(RA:2014)	BQL (LOQ: 0.5)	ng/m ³	1 (Annual)
11	Arsenic	ETL/INS/SOP/002	BQL (LOQ: 1)	ng/m ³	6 (Annual)
12	Nickel	USEPA IO - 3.2	2.5	ng/m ³	20 (Annual)

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

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TEST REPORT

Report No : TC593721000003429F

Report Date : 24.11.2021

Page 1 of 1

Name of the Client : M/s. NTPC Tamilnadu Energy Company Ltd.
Address of the Project : Vallur Thermal Power Project, Kurvimeedu Village, Vellivoyal chavadi- PO,
Site Chennai - 600103.
Sample Name : Noise Monitoring Sample Description : Ambient Noise
Sample Code : ETL1121193 to 198 Sampling date : 15.11.2021
Sample Drawn By : Eco Tech Labs P. Ltd Received date : 16.11.2021
Sampling Procedure : ETL/CHL/IOP/035

S. No	Sample Location & Direction	DAY NOISE (Time)	Noise level in dB (A)	CPCB Limits Industrial Area
1	Security Gate-II (NE)	13.00	55.2	75 dB(A)
2	Ash Silo area (W)	13.35	64.2	
3	Unit-III Back side (NW)	14.00	63.2	
4	CISE DC Office (SE)	14.35	55.5	
5	Security Gate-I (NE)	15.00	55.8	
6	Near Cooling Tower (E)	15.40	66.2	

S. No	Sample Location & Direction	NIGHT NOISE (Time)	Noise level in dB (A)	CPCB Limits Industrial Area
1	Security Gate-II (NE)	19.20	53.2	70 dB(A)
2	Ash Silo area (W)	19.40	57.6	
3	Unit-III Back side (NW)	20.15	59.5	
4	CISE DC Office (SE)	20.40	52.3	
5	Security Gate-I (NE)	21.25	51.8	
6	Near Cooling Tower (E)	21.50	60.8	

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TEST REPORT

Report No : TC593721000003430F

Report Date: 24.11.2021

Page 1 of 1

Name of the Client : M/s. NTPC Tamilnadu Energy Company Ltd.
Address of the Project Site : Vallur Thermal Power Project, Kurvimeedu Village, Vellivoyal chavadi- PO, Chennai - 600103.
Sample Name : Stack Emission
Sample Code : ETL1121199
Sample Drawn By : Eco Tech Labs P.Ltd
Sampling Procedure : ETL/QAD/SOP/10
Sample Location : Unit -1 (500 MW)
Customer Reference : -
Sample Description : Boiler Stack
Sample Duration : 75 mins
Sampling date : 15.11.2021
Received date : 16.11.2021
Commenced on : 16.11.2021
Completed on : 22.11.2021

I. CHEMICAL TESTING

1. Atmospheric Pollution

S.No	Parameters	Test Method	Results	Units	CPCB Limits
1	Particulate Matter	IS 11255 Part 1-1985 (RA:2014)	27.1	mg/Nm ³	50

Note: BQL-Below Quantification Limit, LOQ - Limit of Quantification

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TEST REPORT

Report No :TC593721000003431F

Report Date:24.11.2021

Page 1 of 1

Name of the Client : M/s. NTPC Tamilnadu Energy Company Ltd.
Address of the Project Site : Vallur Thermal Power Project, Kurvimeedu Village, Vellivoyal chavadi- PO, Chennai - 600103.

Sample Name : Stack Emission
Sample Code : ETL1121200
Sample Description : Boiler Stack
Sample Duration : 75 mins
Sample Drawn By : Eco Tech Labs P.Ltd
Sampling date : 15.11.2021
Sampling Procedure : ETL/QAD/SOP/10
Received date : 16.11.2021
Sample Location : Unit -3 (500 MW)
Commenced on : 16.11.2021
Customer Reference : -
Completed on : 22.11.2021

I.CHEMICAL TESTING

1. Atmospheric Pollution

S.No	Parameters	Test Method	Results	Units	CPCB Limits
1	Particulate Matter	IS 11255 Part 1-1985 (RA:2014)	28.3	mg/Nm ³	50

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