

Environmental Monitoring Report

For The Month of August-2025

Submitted To:

M/s NTPC Limited

Darlipali STPP, Stage-1

(2x800MW),

P.O. Darlipali, Dist. Sundargarh,

Odisha -770072

By:



VIBRANT

**M/s VIBRANT TECHNO LAB PRIVATE
LIMITED**

Plot No-39 , Shringarpura , Narayan Vihar Q

Bhankrota ,Jaipur 302026

E-Mail:- bd@vibranttechnolab.com

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of
the Party

Analysis Protocol:

Parameter Required:

Sampling Location:

Sample Description :

VTL/AA/01-08
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072
IS-5182 & CPCB Guidelines
As per work order
Reservoir Area (AAQMS-1)
Ambient Air Quality Monitoring

Report No.: VTL/A/2508280001-08
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 30/08/2025
Period of Analysis: 05/08/2025-30/08/2025
Receipt Date: 05/08/2025-28/08/2025
Sample Collected By: VTL Team

S.NO.	Date of Monitoring	PM10 µg/m ³ IS: 5182 (P-23), 2006	PM2.5 µg/m ³ IS: 5182 (P-24), 2019	NO2 µg/m ³ IS: 5182 (P-6), 2006	SO2 µg/m ³ IS: 5182 (P-2), 2023	CO mg/m ³ IS: 5182 (P-10) NDIR	NH3 µg/m ³ IS: 5182 (P-25) 2018	Pb µg/m ³ IS: 5182 (P-22): 2004	Benzene µg/m ³ IS: 5182 (P-11), 2004	Benzo(a) Pyrene ng/m ³ IS: 5182 (P-12), 2004	O3 µg/m ³ IS: 5182 (P-9) :1974	Nickel ng/m ³ IS: 5182 (P-26) 2020	Arsenic ng/m ³ VTL/STP/ 02/STP/09
1.	01-02/08/2025	67.9	34.3	21.4	11.4	0.59	14.1	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	31.5	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/08/2025	61.6	31.1	19.4	10.4	0.54	12.1	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/08/2025	62.8	31.7	19.8	10.6	0.55	12.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/08/2025	66.2	33.4	20.9	11.1	0.58	13.6	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/08/2025	60.0	30.3	18.9	10.1	0.53	11.6	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.5	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/08/2025	57.4	29.0	18.1	9.7	0.50	10.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/08/2025	60.6	30.6	19.1	10.2	0.53	11.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.8	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/08/2025	65.4	33.0	20.6	11.0	0.57	13.3	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		62.7	31.7	19.8	10.6	0.5	12.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
#NAAQS Standard		100	60	80	80	04	400	01	05	01	180	20	06

*BLQ:- Below Limit of Quantification, **LOQ:- Limit of Quantification.

#NAAQS:- National Ambient Air Quality Standards:2009.

** CO & O3-1 Hourly and Other Parameter are 24 Hourly.

Sushmi
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

Plot No. Q-39, Shringarpura, Narayan Vihar Q,
Bhankrota, Jaipur 302026 (Raj.)

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of
the Party

Analysis Protocol:
Parameter Required:
Sampling Location:
Sample Description :

VTL/AA/09-16
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072
IS-5182 & CPCB Guidelines
As per work order
SWD Area 1 (AAQMS-2)
Ambient Air Quality Monitoring

Report No.: VTL/A/2508280009-16
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 30/08/2025
Period of Analysis: 05/08/2025-30/08/2025
Receipt Date: 05/08/2025-28/08/2025
Sample Collected By: VTL Team

S.NO.	Date of Monitoring	PM10 µg/m3 IS: 5182 (P-23), 2006	PM2.5 µg/m3 IS: 5182 (P-24): 2019	NO2 µg/m3 IS: 5182 (P-6), 2006	SO2 µg/m3 IS: 5182 (P-2), 2023	CO mg/m3 IS: 5182 (P-10) NDIR	NH3 µg/m3 IS: 5182 (P-25) 2018	Pb µg/m3 IS: 5182 (P-22): 2004	Benzene µg/m3 IS: 5182 (P-11), 2006	Benzo(a) Pyrene ng/m3 IS: 5182 (P-12), 2004	O3 µg/m3 IS: 5182 (P-9) :1974	Nickel ng/m3 IS: 5182 (P-26) 2020	Arsenic ng/m3 VTL/STP/ 02/STP/09
1.	01-02/08/2025	59.7	30.2	18.8	10.1	0.52	11.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/08/2025	53.4	27.0	16.9	9.0	0.47	9.6	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	24.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/08/2025	54.6	27.6	17.2	9.2	0.48	9.9	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	24.8	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/08/2025	58.0	29.3	18.3	9.8	0.51	11.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.5	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/08/2025	51.8	26.2	16.4	8.7	0.45	9.1	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/08/2025	49.2	24.8	15.5	8.3	0.43	8.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	22.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/08/2025	52.4	26.5	16.5	8.8	0.46	9.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/08/2025	57.2	28.9	18.1	9.6	0.50	10.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.1	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		54.5	27.5	17.2	9.2	0.5	9.9	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	24.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
#NAAQS Standard		100	60	80	80	04	400	01	05	01	180	20	06

*BLQ:- Below Limit of Quantification, **LOQ:- Limit of Quantification.

#NAAQS:- National Ambient Air Quality Standards:2009.

** CO & O3- 1 Hourly and Other Parameter are 24 Hourly.

End of Report

Surshi
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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Bhankrota, Jaipur 302026 (Raj.)

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of
the Party

Analysis Protocol:

Parameter Required:

Sampling Location:

Sample Description :

VTL/AA/17-24
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072
IS-5182 & CPCB Guidelines
As per work order
SWD Area 2 (AAQMS-3)
Ambient Air Quality Monitoring

Report No.: VTL/A/2508280017-24
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 30/08/2025
Period of Analysis: 05/08/2025-30/08/2025
Receipt Date: 05/08/2025-28/08/2025
Sample Collected By: VTL Team

S.NO.	Date of Monitoring	PM10 µg/m ³ IS: 5182 (P-23), 2006	PM2.5 µg/m ³ IS 5182 (P-24): 2019	NO2 µg/m ³ IS: 5182 (P-6), 2006	SO2 µg/m ³ IS: 5182 (P-2), 2023	CO mg/m ³ IS: 5182 (P-10) NDIR	NH3 µg/m ³ IS: 5182 (P-25) 2018	Pb µg/m ³ IS: 5182 (P-22): 2004	Benzene µg/m ³ IS: 5182 (P-11), 2006	Benzo(a) Pyrene ng/m ³ IS: 5182 (P-12), 2004	O3 µg/m ³ IS: 5182 (P-9) :1974	Nickel ng/m ³ IS: 5182 (P-26) 2020	Arsenic ng/m ³ VTL/STP/ 02/STP/09
1.	01-02/08/2025	65.3	33.0	20.6	11.0	0.57	13.3	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/08/2025	59.0	29.8	18.6	9.9	0.52	11.3	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/08/2025	60.2	30.4	19.0	10.1	0.53	11.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/08/2025	63.6	32.1	20.1	10.7	0.56	12.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	29.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/08/2025	57.4	29.0	18.1	9.7	0.50	10.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/08/2025	54.8	27.7	17.3	9.2	0.48	10.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	24.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/08/2025	58.0	29.3	18.3	9.8	0.51	11.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.5	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/08/2025	62.8	31.7	19.8	10.6	0.55	12.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		60.1	30.4	19.0	10.1	0.5	11.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
#NAAQS Standard		100	60	80	80	04	400	01	05	01	180	20	06

*BLQ:- Below Limit of Quantification, **LOQ:- Limit of Quantification.

#NAAQS:- National Ambient Air Quality Standards:2009.

** CO&O3- 1 Hourly and Other Parameter are 24 Hourly.

End of Report

Sushni
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RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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Bhankrota, Jaipur 302026 (Raj.)

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of
the Party

Analysis Protocol:

Parameter Required:

Sampling Location:

Sample Description :

VTL/AA/25-32
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072
IS-5182 & CPCB Guidelines
As per work order
CISF Colony (AAQMS-4)
Ambient Air Quality Monitoring

Report No.: VTL/A/2508280025-32
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 30/08/2025
Period of Analysis: 05/08/2025-30/08/2025
Receipt Date: 05/08/2025-28/08/2025
Sample Collected By: VTL Team

S.NO.	Date of Monitoring	PM10 µg/m3	PM2.5 µg/m3	NO2 µg/m3	SO2 µg/m3	CO mg/m3	NH3 µg/m3	Pb µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	O3 µg/m3	Nickel ng/m3	Arsenic ng/m3
		IS: 5182 (P-23), 2006	IS: 5182 (P-24), 2019	IS: 5182 (P-6), 2006	IS: 5182 (P-2), 2023	IS: 5182 (P-10) NDIR	IS: 5182 (P-25) 2018	IS: 5182 (P-22): 2004	IS: 5182 (P-11), 2006	IS: 5182 (P-12), 2004	IS: 5182 (P-9) :1974	IS: 5182 (P-26) 2020	VTL/STP/ 02/STP/09
1.	01-02/08/2025	68.2	34.4	21.5	11.5	0.60	14.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	31.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/08/2025	61.9	31.3	19.5	10.4	0.54	12.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.5	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/08/2025	63.1	31.9	19.9	10.6	0.55	12.6	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	29.1	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/08/2025	66.5	33.6	21.0	11.2	0.58	13.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.8	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/08/2025	60.3	30.5	19.0	10.2	0.53	11.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/08/2025	57.7	29.1	18.2	9.7	0.51	10.9	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/08/2025	60.9	30.8	19.2	10.3	0.53	11.9	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/08/2025	65.7	33.2	20.7	11.1	0.58	13.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		63.0	31.8	19.9	10.6	0.6	12.6	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	29.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
#NAAQS Standard		100	60	80	80	04	400	01	05	01	180	20	06

*BLQ:- Below Limit of Quantification, **LOQ:- Limit of Quantification.

#NAAQS:- National Ambient Air Quality Standards:2009.

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End of Report

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TEST REPORT

VIBRANT

Sample Number: VTL/AA/33-40
Name & Address of the Party: M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072
Analysis Protocol: IS-5182 & CPCB Guidelines
Parameter Required: As per work order
Sampling Location: Awrm Pump House (AAQMS-5)
Sample Description: Ambient Air Quality Monitoring

Report No.: VTL/A/2508280033-40
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 30/08/2025
Period of Analysis: 05/08/2025-30/08/2025
Receipt Date: 05/08/2025-28/08/2025
Sample Collected By: VTL Team

S.NO.	Date of Monitoring	PM10 µg/m3	PM2.5 µg/m3	NO2 µg/m3	SO2 µg/m3	CO mg/m3	NH3 µg/m3	Pb µg/m3	Benzene µg/m3	Benzo(a) Pyrene ng/m3	O3 µg/m3	Nickel ng/m3	Arsenic ng/m3
		IS: 5182 (P-23), 2006	IS 5182 (P-24), 2019	IS: 5182 (P-6), 2006	IS: 5182 (P-2), 2023	IS: 5182 (P-10) NDIR	IS: 5182 (P-25) 2018	IS: 5182 (P-22): 2004	IS: 5182 (P-11), 2006	IS: 5182 (P-12), 2004	IS: 5182 (P-9) :1974	IS: 5182 (P-26) 2020	VTL/STP/ 02/STP/09
1.	01-02/08/2025	53.6	27.1	16.9	9.0	0.47	9.6	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	24.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/08/2025	47.3	23.9	14.9	8.0	0.41	7.6	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	21.1	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/08/2025	48.5	24.5	15.3	8.2	0.42	8.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	21.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/08/2025	51.9	26.2	16.4	8.7	0.45	9.1	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/08/2025	45.7	23.1	14.4	7.7	0.40	7.1	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	20.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/08/2025	43.1	21.8	13.6	7.3	0.38	6.3	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	19.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/08/2025	46.3	23.4	14.6	7.8	0.41	7.3	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	20.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/08/2025	51.1	25.8	16.1	8.6	0.45	8.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		48.4	24.5	15.3	8.2	0.4	8.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	21.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
#NAAQS Standard		100	60	80	80	04	400	01	05	01	180	20	06

*BLQ:- Below Limit of Quantification, **LOQ:- Limit of Quantification.

#NAAQS:- National Ambient Air Quality Standards:2009.

** CO&O3- 1 Hourly and Other Parameter are 24 Hourly.

End of Report

Sumoni
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

Plot No. Q-39, Shringarpura, Narayan Vihar Q,
Bhankrota, Jaipur 302026 (Raj.)

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of
the Party

VTL/AA/41-48
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072

Analysis Protocol:
Parameter Required:
Sampling Location:
Sample Description :

IS-5182 & CPCB Guidelines
As per work order
Colony Gate Area (AAQMS-6)
Ambient Air Quality Monitoring

Report No.: VTL/A/2508280041-48
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 30/08/2025
Period of Analysis: 05/08/2025-30/08/2025
Receipt Date: 05/08/2025-28/08/2025
Sample Collected By: VTL Team

S.NO.	Date of Monitoring	PM10 µg/m3 IS: 5182 (P-23), 2006	PM2.5 µg/m3 IS 5182 (P-24): 2019	NO2 µg/m3 IS: 5182 (P-6), 2006	SO2 µg/m3 IS: 5182 (P-2), 2023	CO mg/m3 IS: 5182 (P-10) NDIR	NH3 µg/m3 IS: 5182 (P-25) 2018	Pb µg/m3 IS: 5182 (P-22): 2004	Benzene µg/m3 IS: 5182 (P-11), 2006	Benzo(a) Pyrene ng/m3 IS: 5182 (P-12), 2004	O3 µg/m3 IS: 5182 (P-9) :1974	Nickel ng/m3 IS: 5182 (P-26) 2020	Arsenic ng/m3 VTL/STP/ 02/STP/09
1.	01-02/08/2025	50.9	25.7	16.1	8.6	0.45	8.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	22.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/08/2025	44.6	22.5	14.1	7.5	0.39	6.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	19.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/08/2025	45.8	23.1	14.5	7.7	0.40	7.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	20.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/08/2025	49.2	24.8	15.5	8.3	0.43	8.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	22.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/08/2025	43.0	21.7	13.6	7.2	0.38	6.3	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	18.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/08/2025	40.4	20.4	12.8	6.8	0.35	5.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	17.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/08/2025	43.6	22.0	13.8	7.3	0.38	6.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	19.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/08/2025	48.4	24.4	15.3	8.1	0.42	8.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	21.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		45.7	23.1	14.4	7.7	0.40	7.1	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	20.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
#NAAQS Standard		100	60	80	80	04	400	01	05	01	180	20	06

*BLQ:- Below Limit of Quantification, **LOQ:- Limit of Quantification.

#NAAQS:- National Ambient Air Quality Standards:2009.

** CO&O3- 1 Hourly and Other Parameter are 24 Hourly.

End of Report

Sunmi
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

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TEST REPORT

Sample Number: VTL/ N/01-06
Name & Address of Party: M/s NTPC Ltd.
D.S.T.P. Darlipali, Village – Darpali,
Sundargarh, Odisha, 770072

Report No.: VTL/N/2508220001-06
Format No.: 7.8 F-04
Party Reference No.: NIL
Report Date: 28/08/2025

Sample Description: Ambient Noise Level Monitoring

Receipt Date: 22/08/2025

General Information:-

Sample collected by : VTL Team
Instrument Used : Sound Level Meter
Instrument Calibration Status : Calibrated
Instrument Code : VTL/SLM/010
Meteorological condition during monitoring : Clear Sky
Scope of Monitoring : Regulatory Requirement
Sampling & Analysis Protocol : IS 9989-1981 RA: 2020
Parameter Required : As per Work Order

S. No.	Location	Date	Test Parameter	Test Result Db (A)	
				Day Time	Night Time
1.	Darlipali Village	11-12/08/2025	Leq	48.6	37.3
2.	Township	12-13/08/2025	Leq	60.5	51.6
3.	Coal Handling Plant	13-14/08/2025	Leq	61.8	52.0
4.	Service Building	14-15/08/2025	Leq	52.7	43.1
5.	Near Office Building	15-16/08/2025	Leq	50.4	39.8
6.	Plant Gate	18-19/08/2025	Leq	62.2	52.4

Category of Zones	Leq in dB (A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence Zone	50	40

1. Day Time is from 6.00 AM to 10.00 PM.
2. Night Time is reckoned between 10.00 PM to 6.00 AM.
3. Silence Zone is defined as an area up to 100 m around premises of Hospitals, Educational and Courts. Use of vehicle horn, Loudspeaker and bursting of crackers is banned in these zones.
Note: Mixed categories of areas be declared as one of the four above mentioned categories by the competent Authority and the corresponding standards shall apply

End of Report

Summi
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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Bhankrota, Jaipur 302026 (Raj.)
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TEST REPORT

VIBRANT

Sample Number:
Name & Address of Party:

VTL/S/01-02
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072

Report No.: VTL/S/2507110001-02
Format No.: 7.8 F-03
Party Reference No.: NIL
Report Date: 15/07/2025
Period of Analysis: 11-15/07/2025
Receipt Date: 11/07/2025

Sample Description : Stack Emission Monitoring

Sample Collected	:	VTL Team	VTL Team
Date of Sampling	:	09/07/2025	09/07/2025
Generation Capacity	:	800 MW	800 MW
Location	:	Boiler No. 1 (Unit -1)	Boiler No. 2 (Unit -2)
Sampling Point	:	90.0 M.	90.0 M.
Meteorological Condition	:	Clear Sky	Clear Sky
Make Of Stack	:	Concrete	Concrete
Stack Diameter	:	7.0 M.	7.0 M.
Stack Height	:	275.0 M.	275.0 M.
Instrument calibration status	:	Calibrated	Calibrated
Ambient Temperature - Ta (°C)	:	28	
Temperature of Stack Gases - Ts (°C)	:	109	
Velocity of Stack Gases (m/sec.)	:	24.17	
Flow rate of PM (LPM)	:	36 (2527983 Nm3/hr)	
Sampling condition	:	Isokinetic	
Method of Sampling	:	IS-11255	

RESULTS

S. No.	Parameter	Protocol	Units	Results		Limits
				Boiler No. 1 (Unit -1)	Boiler No. 2 (Unit -2)	
1.	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	mg/Nm3	22.6		30.0
2.	Oxide of Nitrogen (as NOx)	IS- 11255 (P-7);2005, RA- 2017	mg/Nm3	211.5		100
3.	Sulphur Dioxide (as SO2)	IS: 11255(P- 2): 1985, RA 2019	mg/Nm3	930	Under Over Oiling	100
4.	Mercury (Hg)	USEPA 29::1996	mg/Nm3	*BLQ(**LOQ 0.001)		0.03
5.	Carbon Dioxide (CO2)	USEPA 3A: 1989	%	10.9		--

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Summi
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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TEST REPORT

Sample Number:
Name & Address of Party:

VTL/S/01-02
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072

Report No.: VTL/S/2507250001-02
Format No.: 7.8 F-03
Party Reference No.: NIL
Report Date: 31/07/2025
Period of Analysis: 25-31/07/2025
Receipt Date: 25/07/2025

Sample Description : Stack Emission Monitoring

Sample Collected	:	VTL Team	VTL Team
Date of Sampling	:	23/07/2025	23/07/2025
Generation Capacity	:	800 MW	800 MW
Location	:	Boiler No. 1 (Unit -1)	Boiler No. 2 (Unit -2)
Sampling Point	:	90.0 M.	90.0 M.
Meteorological Condition	:	Clear Sky	Clear Sky
Make Of Stack	:	Concrete	Concrete
Stack Diameter	:	7.0 M.	7.0 M.
Stack Height	:	275.0 M.	275.0 M.
Instrument calibration status	:	Calibrated	Calibrated
Ambient Temperature - Ta (°C)	:	27	
Temperature of Stack Gases - Ts (°C)	:	106	
Velocity of Stack Gases (m/sec.)	:	24.10	
Flow rate of PM (LPM)	:	36 (2541387 Nm3/hr)	
Sampling condition	:	Isokinetic	
Method of Sampling	:	IS-11255	

RESULTS

S. No.	Parameter	Protocol	Units	Results		Limits
				Boiler No. 1 (Unit -1)	Boiler No. 2 (Unit -2)	
1.	Particulate Matter (PM)	IS: 11255 (P-1) : 1985, RA 2019	mg/Nm3	23.5	Under Over Oiling	30.0
2.	Oxide of Nitrogen (as NOx)	IS- 11255 (P-7);2005, RA- 2017	mg/Nm3	217.2		100
3.	Sulphur Dioxide (as SO2)	IS: 11255(P- 2): 1985, RA 2019	mg/Nm3	942		100
4.	Mercury (Hg)	USEPA 29::1996	mg/Nm3	*BLQ(**LOQ 0.001)		0.03
5.	Carbon Dioxide (CO2)	USEPA 3A: 1989	%	10.3		--

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Sushree
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of Party:

VTL/WW/01
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darlipali,
Sundargarh, Odisha, 770072

Sample Description:
Sample Collected by
Preservation:
Method of Sampling:
Sample Location:

Ash Dyke Effluent
VTL Team
Suitable Preservation
APHA 24th Edition
Ash Pond

Report No.: VTL/WW/2508180001
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 21/08/2025
Period of Analysis: 18-21/08/2025
Receipt Date: 21/08/2025
Sampling Date: 18/08/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.26	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	10.0	mg/l
3.	Oil & Grease	IS 3025(P- 39):2021	*BLQ(**LOQ 4.0)	mg/l
4.	Fluoride as F	APHA 24th Edition, 4500F-D:2023	0.65	mg/l
5.	Mercury as Hg	APHA 24th Edition, 3112B: 2023	*BLQ(**LOQ 0.01)	mg/l
6.	Total Chromium as Cr	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l
7.	Arsenic as As	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ 0.05)	mg/l
8.	Lead as Pb	APHA 24th Edition ,3111 B, 2023	*BLQ(**LOQ 0.05)	mg/l

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Susmita
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of Party:

VTL/WW/01
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072

Sample Description:
Sample Collected by
Preservation:
Method of Sampling:
Sample Location:

Waste Water(Seepage Water)
VTL Team
Suitable Preservation
APHA 24th Edition
Ash Dyke

Report No.: VTL/WW/2508180002
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 21/08/2025
Period of Analysis: 18-21/08/2025
Receipt Date: 21/08/2025
Sampling Date: 18/08/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.16	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	9.5	mg/l
3.	Oil & Grease	IS 3025(P- 39):2021	*BLQ(**LOQ 4.0)	mg/l
4.	Fluoride as F	APHA 24th Edition, 4500F-D:2023	0.62	mg/l
5.	Mercury as Hg	APHA 24th Edition, 3112B: 2023	*BLQ(**LOQ 0.01)	mg/l
6.	Total Chromium as Cr	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l
7.	Arsenic as As	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ 0.05)	mg/l
8.	Lead as Pb	APHA 24th Edition ,3111 B, 2023	*BLQ(**LOQ 0.05)	mg/l

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Sushie
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of Party:

VTL/WW/01
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darlipali,
Sundargarh, Odisha, 770072

Sample Description:
Sample Collected by
Preservation:
Method of Sampling:
Sample Location:

Waste Water (Effluent Sample)
VTL Team
Suitable Preservation
APHA 24th Edition
ETP Inlet

Report No.: VTL/WW/2508180003
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 21/08/2025
Period of Analysis: 18-21/08/2025
Receipt Date: 21/08/2025
Sampling Date: 16/08/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	6.78	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	130.0	mg/l
3.	Oil & Grease	IS 3025(P- 39):2021	*BLQ(**LOQ 4.0)	mg/l
4.	Fluoride as F	APHA 24th Edition, 4500F-D:2023	1.08	mg/l
5.	Mercury as Hg	APHA 24th Edition, 3112B: 2023	*BLQ(**LOQ 0.01)	mg/l
6.	Total Chromium as Cr	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l
7.	Arsenic as As	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ 0.05)	mg/l
8.	Lead as Pb	APHA 24th Edition, 3111 B, 2023	*BLQ(**LOQ 0.05)	mg/l
9.	B.O.D. (3 days at 27°C)	IS: 3025 (P-44): 2023	78.0	mg/l
10.	C.O.D.	IS: 3025 (P- 58): 2023	390	mg/l
11.	Phosphate as P	IS:3025 (P- 31) Sec 1: 2022 (Clause 5.0)	2.32	mg/l
12.	Sulphate as SO ₄	IS 3025 (P-24): 2022	105.4	mg/l
13.	Chloride as Cl	IS: 3025 (P- 32): 1988,RA: 2019	168.9	mg/l
14.	Ammonical Nitrogen as N	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 5.3)	19.8	mg/l
15.	Total Kjeldahl Nitrogen as N	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 8.0)	29.3	mg/l
16.	Sulphide as S	IS 3025 (P-29) : 2022 (Clause 6.0)	*BLQ(**LOQ 0.1)	mg/l
17.	Zinc as Zn	APHA 24th Edition, 3111 B, 2023	*BLQ(**LOQ 0.2)	mg/l
18.	Iron as Fe	APHA 24th Edition, 3111 B, 2023	*BLQ(**LOQ 0.2)	mg/l
19.	Copper as Cu	APHA 24th Edition, 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l
20.	Manganese as Mn	APHA 24th Edition, 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l
21.	Nickel as Ni	APHA 24th Edition, 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l
22.	Hexavalent Chromium as (Cr+6)	APHA 24th Edition, 3500 Cr-B : 2023	*BLQ(**LOQ 0.05)	mg/l
23.	Cadmium as Cd	APHA 24th Edition, 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l
24.	Temperature	IS-3025 (P- 9) : 2023	26.3	°C
25.	Phenolic Compounds	APHA 24th Edition, 5530-D: 2023	*BLQ(**LOQ 1.0)	mg/l
26.	Turbidity	IS 3025 (P-10):2023	120	NTU
27.	Conductivity	IS: 3025 (P-14): 2013 RA 2019	1620	µS/cm
28.	Fixed Dissolved Solids	IS 3025 (P-16): 2023	1053	mg/l
29.	Nitrate Nitrogen	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 6.4)	32.7	mg/l
30.	Total Residual Chlorine	IS 3025(P- 26): 2021 (Clause 5.0)	*BLQ(**LOQ 0.2)	mg/l
31.	Vanadium	APHA 24th Edition 3111-D: 2023	*BLQ(**LOQ 0.6)	mg/l
32.	Cyanide as CN	IS 3025 (Part 27/Sec 1) :2021	*BLQ(**LOQ 0.2)	mg/l
33.	Selenium as Se	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ 0.02)	mg/l
34.	Bio-Assay	IS: 6582 (P-2): 2001	25% survival of fish after 96 hours in 100 % effluent	%

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

Sumi
Checked By

End of Report



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

Plot No. Q-39, Shringarpura, Narayan Vihar Q,
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TEST REPORT

VIBRANT

Sample Number:
Name & Address of Party:

VTL/WW/01
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072

Report No.:
Format No.:
Party Reference No.:
Report Date:
Period of Analysis:
Receipt Date:
Sampling Date:
Sampling Type:
Sample Quantity:

VTL/WW/2508180004
7.8 F 01
NA
21/08/2025
18-21/08/2025
21/08/2025
16/08/2025
Grab
2.0 Ltr.

Sample Description:
Sample Collected by
Preservation:
Method of Sampling:
Sample Location:

Waste Water (Effluent Sample)
VTL Team
Suitable Preservation
APHA 24th Edition
ETP Outlet

Test Results

S. No.	Parameter	Test Method	Results	Unit	Limit as per E(p) Rules for Discharge on Inland Surface Water
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.45	--	5.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	12.0	mg/l	100
3.	Oil & Grease	IS 3025(P- 39):2021	*BLQ(**LOQ 4.0)	mg/l	10
4.	Fluoride as F	APHA 24th Edition, 4500F-D:2023	0.32	mg/l	2
5.	Mercury as Hg	APHA 24th Edition, 3112B: 2023	*BLQ(**LOQ 0.01)	mg/l	0.01
6.	Total Chromium as Cr	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l	2
7.	Arsenic as As	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ 0.05)	mg/l	0.2
8.	Lead as Pb	APHA 24th Edition ,3111 B, 2023	*BLQ(**LOQ 0.05)	mg/l	0.1
9.	B.O.D. (3 days at 27°C)	IS: 3025 (P-44): 2023	16.0	mg/l	30
10.	C.O.D.	IS : 3025 (P- 58) : 2023	65.0	mg/l	250
11.	Phosphate as P	IS:3025 (P- 31) Sec 1 : 2022 (Clause 5.0)	0.52	mg/l	5
12.	Sulphate as SO ₄	IS 3025 (P-24) : 2022	20.5	mg/l	NS
13.	Chloride as Cl	IS: 3025 (P- 32): 1988,RA: 2019	24.8	mg/l	NS
14.	Ammonical Nitrogen as N	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 5.3)	2.2	mg/l	50
15.	Total Kjeldahl Nitrogen as N	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 8.0)	6.1	mg/l	100
16.	Sulphide as S	IS 3025 (P-29) : 2022 (Clause 6.0)	*BLQ(**LOQ 0.1)	mg/l	2
17.	Zinc as Zn	APHA 24th Edition , 3111 B, 2023	*BLQ(**LOQ 0.2)	mg/l	5
18.	Iron as Fe	APHA 24th Edition , 3111 B, 2023	*BLQ(**LOQ 0.2)	mg/l	3
19.	Copper as Cu	APHA 24th Edition , 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l	3
20.	Manganese as Mn	APHA 24th Edition , 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l	2
21.	Nickel as Ni	APHA 24th Edition , 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l	NS
22.	Hexavalent Chromium as (Cr+6)	APHA 24th Edition, 3500 Cr-B : 2023	*BLQ(**LOQ 0.05)	mg/l	0.1
23.	Cadmium as Cd	APHA 24th Edition , 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l	2
24.	Temperature	IS-3025 (P- 9) : 2023	24.5	°C	NS
25.	Phenolic Compounds	APHA 24th Edition, 5530-D: 2023	*BLQ(**LOQ 1.0)	mg/l	1
26.	Turbidity	IS 3025 (P-10):2023	10.0	NTU	NS
27.	Conductivity	IS: 3025 (P-14): 2013 RA 2019	625	µS/cm	NS
28.	Fixed Dissolved Solids	IS 3025 (P-16): 2023	410	mg/l	NS
29.	Nitrate Nitrogen	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 6.4)	5.12	mg/l	10
30.	Total Residual Chlorine	IS 3025(P- 26): 2021 (Clause 5.0)	*BLQ(**LOQ 0.2)	mg/l	NS
31.	Vanadium	APHA 24th Edition 3111-D: 2023	*BLQ(**LOQ 0.6)	mg/l	0.2
32.	Cyanide as CN	IS 3025 (Part 27/Sec 1) :2021	*BLQ(**LOQ 0.2)	mg/l	0.20
33.	Selenium as Se	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ 0.02)	mg/l	0.05
34.	Bio-Assay	IS: 6582 (P-2): 2001	92% survival of fish after 96 hours in 100 % effluent	%	90% survival of fish after 96 hours in 100 % effluent

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Surshi
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Corporate & Registered Office:

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of Party:

VTL/WW/01
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072

Report No.: VTL/WW/2508260001-07
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 30/08/2025
Period of Analysis: 04/08/2025-30/08/2025
Receipt Date: 04/08/2025 -26/08/2025
Sampling Date: 02-23/08/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Sample Description: Waste Water
Sample Collected by: VTL Team
Preservation: Suitable Preservation
Method of Sampling: APHA 24th Edition
Sample Location: STP Outlet

Test Results

S.No.	Parameters	Unit	Method of Test	Limit as per EPA Rules Schedule VI	Date of Sampling / Sampling Code / Result						
					02.08.25	07.08.25	09.08.25	14.08.25	16.08.25	21.08.25	23.08.25
					VTL/WW/08/01	VTL/WW/08/02	VTL/WW/08/03	VTL/WW/08/04	VTL/WW/08/05	VTL/WW/08/06	VTL/WW/08/07
1.	pH (at 25 °C)	--	IS 3025 (P-11)	5.5 to 9.0	7.22	7.28	7.19	7.16	7.20	7.01	7.12
2.	Total Suspended Solids	mg/l	IS 3025 (P-17)	100	12	15	14	10	13	9.0	10
3.	Bio Chemical Oxygen Demand (3days at 27 °c)	mg/l	IS 3025 (P-44)	30	11	13	10	15	14	8.0	11
4.	Chemical Oxygen Demand	mg/l	IS: 3025 (P-58)	250	58	67	82	47	69	38	42
5.	Ammonical Nitrogen as NH ₄ -N	mg/l	IS 3025 : Part 34	36	6.8	7.3	5.7	6.6	7.2	5.9	5.1
6.	Total Nitrogen		IS 3025 : Part 34	--	12.8	16.7	19.0	10.7	14.2	8.3	7.1
7.	Faecal coliform	MPN / 100 ml	APHA 24 th Edition, 9221-C	--	84	110	130	220	280	70	63

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

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RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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**VIBRANT****VIBRANT TECHNO LAB PVT. LTD.**ISO 9001, 14001 & 45001 Certified Company
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Sample Number : VTL/W/06-07
 Name & Address of the Project: M/s NTPC Ltd.
 D.S.T.P. Darlipali, Village - Darpali,
 Sundargarh, Odisha, 770072

Sample Description: Ground Water Sample

Sample Collected by: VTL Team
 Preservation: Refrigerated
 Method of Sampling : IS :3025, APHA 24th

Report No.: VTL/W/2508180001-02
 Format No.: 7.8 F-01

Party Reference No.: NIL
 Report Date: 21/08/2025
 Period Of Analysis: 18-21/08/2025
 Receipt Date: 18/08/2025
 Sampling Type: Grab
 Sample Quantity: 3.0 Ltr
 Parameter Required: As per Work Order

Sr	Parameter	Unit	Test Method	Date of Sampling /Sample Location/ Results		Limits of IS:10500 -2012	
				16.08.2025	16.08.2025	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
				Field	Hostel		
1.	pH	--	IS 3025 (P-11): 2022	7.41	7.33	6.5 to 8.5	No Relaxation
2.	Temperature	0C	IS-3025 (P- 9) : 2023	25.7	25.7	--	--
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	350	298	500	2000
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	520	460	--	--
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	0.38	0.31	1.0	1.5
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	162.0	141.0	75	200
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	102.0	86.0	30	100
8.	Boron as B	mg/l	APHA 24th Edition 4500B-C : 2023	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	0.5	1.0
9.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	--	--
10	COD	mg/l	IS : 3025 (P- 58) :2023	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	--	--
11	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	12.0	9.0	--	--
12	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Absent	Absent	Shall not be detectable in 100 ml	
13	E.Coli		IS 15185: 2016 RA 2021	Absent	Absent	Shall not be detectable in 100 ml	
14	Colour	Hazen	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	5	
15	Turbidity	NTU	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	1	
16	Odour	--	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable	
17	Taste	--	IS 3025 (Part 8) : 2023	Agreeable	Agreeable	Agreeable	

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RK Yadav
 Lab Incharge
 Authorized Signatory

Corporate & Registered Office:

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TEST REPORT

Sample Number : VTL/W/06-07				Report No.:VTL/W/2508180001-02		
18	Phenolic compound as C ₆ H ₅ OH	mg/l	APHA, 24 th Edition, 5530 C : 2023	*BLQ(**LOQ 0.001)	*BLQ(**LOQ 0.001)	0.001
19	Anionic Detergent as MBAS	mg/l	IS 3025 (Part 68) : 2019	*BLQ(**LOQ 0.05)	*BLQ(**LOQ 0.05)	0.2
20	Zinc as Zn	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.20)	*BLQ(**LOQ 0.20)	5
21	Copper as Cu	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	0.05
22	Manganese as Mn	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.05)	*BLQ(**LOQ 0.05)	0.1
23	Cadmium as Cd	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	0.003
24	Lead as Pb	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	0.01
25	Selenium as Se	mg/l	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	0.01
26	Arsenic as As	mg/l	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	0.01
27	Mercury as Hg	mg/l	APHA, 24 th Edition, 3112 B : 2023	*BLQ(**LOQ 0.001)	*BLQ(**LOQ 0.001)	0.001
28	Aluminium as Al	mg/l	IS 3025 (Part 55) : 2003, RA : 2019	*BLQ(**LOQ 0.03)	*BLQ(**LOQ 0.03)	0.03
29	Boron	mg/l	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	0.5
30	Total Chromium as Cr	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	0.05

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Sushmi
Checked By



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TEST REPORT

Sample Number : VTL/W/08-09
 Name & Address of the Project : M/s NTPC Ltd.
 D.S.T.P. Darlipali, Village - Darpali,
 Sundargarh, Odisha, 770072

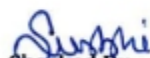
Sample Description: Ground Water Sample

Sample Collected by: VTL Team
 Preservation: Refrigerated
 Method of Sampling : IS :3025, APHA 24th

Report No.: VTL/W/2508180003-04
 Format No.: 7.8 F-01

Party Reference No.: NIL
 Report Date: 21/08/2025
 Period Of Analysis: 18-21/08/2025
 Receipt Date: 18/08/2025
 Sampling Type: Grab
 Sample Quantity: 3.0 Ltr
 Parameter Required: As per Work Order

Sr	Parameter	Unit	Test Method	Date of Sampling /Sample Location/ Results		Limits of IS:10500 -2012	
				16.08.2025	16.08.2025	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
				Darlipali Village	Darlipali Surrounding Area		
1.	pH	--	IS 3025 (P-11): 2022	7.38	7.30	6.5 to 8.5	No Relaxation
2.	Temperature	OC	IS-3025 (P- 9) : 2023	25.4	25.4	--	--
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	387	336	500	2000
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	560	520	--	--
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	0.29	0.27	1.0	1.5
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	192.0	169.0	75	200
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	87.0	72.0	30	100
8.	Boron as B	mg/l	APHA 24th Edition 4500B-C : 2023	*BLQ(**LOQ0.2)	*BLQ(**LOQ0.2)	0.5	1.0
9.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	*BLQ(**LOQ2.0)	*BLQ(**LOQ2.0)	--	--
10.	COD	mg/l	IS : 3025 (P- 58) :2023	*BLQ(**LOQ5.0)	*BLQ(**LOQ5.0)	--	--
11.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	15.0	14.0	--	--
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Absent	Absent	Shall not be detectable in 100 ml	
13.	E.Coli		IS 15185: 2016 RA 2021	Absent	Absent	Shall not be detectable in 100 ml	
14.	Colour	Hazen	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	5	
15.	Turbidity	NTU	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	*BLQ(**LOQ 1.0)	1	
16.	Odour	--	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	Agreeable	
17.	Taste	--	IS 3025 (Part 8) : 2023	Agreeable	Agreeable	Agreeable	


 Checked By

 RK Yadav
 Lab Incharge
 Authorized Signatory
 

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TEST REPORT

Sample Number : VTL/W/08-09			Report No.:VTL/W/2508180003-04			
18.	Phenolic compound as C ₆ H ₅ OH	mg/l	APHA, 24 th Edition, 5530 C : 2023	*BLQ(**LOQ 0.001)	*BLQ(**LOQ 0.001)	0.001
19.	Anionic Detergent as MBAS	mg/l	IS 3025 (Part 68) : 2019	*BLQ(**LOQ 0.05)	*BLQ(**LOQ 0.05)	0.2
20.	Zinc as Zn	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.20)	*BLQ(**LOQ 0.20)	5
21.	Copper as Cu	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	0.05
22.	Manganese as Mn	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.05)	*BLQ(**LOQ 0.05)	0.1
23.	Cadmium as Cd	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	*BLQ(**LOQ 0.002)	0.003
24.	Lead as Pb	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	0.01
25.	Selenium as Se	mg/l	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	0.01
26.	Arsenic as As	mg/l	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	*BLQ(**LOQ 0.005)	0.01
27.	Mercury as Hg	mg/l	APHA, 24 th Edition, 3112 B : 2023	*BLQ(**LOQ 0.001)	*BLQ(**LOQ 0.001)	0.001
28.	Aluminium as Al	mg/l	IS 3025 (Part 55) : 2003, RA : 2019	*BLQ(**LOQ 0.03)	*BLQ(**LOQ 0.03)	0.03
29.	Boron	mg/l	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	*BLQ(**LOQ 0.2)	0.5
30.	Total Chromium as Cr	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	*BLQ(**LOQ 0.02)	0.05

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

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RK Yadav
Lab Incharge
Authorized Signatory

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TEST REPORT

Sample Number : VTL/W/10
 Name & Address of the Project : M/s NTPC Limited
 Darlipali STPP, Stage-1 (2x800MW),
 P.O. Darlipali, Dist. Sundargarh,
 Odisha -770072
 Sample Description : Ground Water Sample
 Sample Collected by: VTL Team
 Preservation: Refrigerated
 Method of Sampling : IS :3025, APHA 24th

Report No.: VTL/W/2508180005
 Format No.: 7.8 F-01
 Party Reference No.: NIL
 Report Date: 21/08/2025
 Period Of Analysis: 18-21/08/2025
 Receipt Date: 18/08/2025
 Sampling Type: Grab
 Sample Quantity: 3.0 Ltr
 Parameter Required: As per Work Order

Sr	Parameter	Unit	Test Method	Date of Sampling /Sample Location/ Results	Limits of IS:10500 -2012	
				16.08.2025	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
				G.W From piezometer (Ash Pond Area)		
1.	pH	--	IS 3025 (P-11): 2022	7.47	6.5 to 8.5	No Relaxation
2.	Temperature	0C	IS-3025 (P- 9) : 2023	25.8	--	--
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	580	500	2000
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	890	--	--
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	0.42	1.0	1.5
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	210	75	200
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	98	30	100
8.	Boron as B	mg/l	APHA 24th Edition 4500B-C : 2023	*BLQ(**LOQ0.2)	0.5	1.0
9.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	*BLQ(**LOQ2.0)	--	--
10.	COD	mg/l	IS : 3025 (P- 58) :2023	*BLQ(**LOQ5.0)	--	--
11.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	12.0	--	--
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Absent	Shall not be detectable in 100 ml	
13.	E.Coli	ml	IS 15185: 2016 RA 2021	Absent	Shall not be detectable in 100 ml	
14.	Colour	Hazen	IS 3025 (Part 4) : 2021	*BLQ(**LOQ 1.0)	5	
15.	Turbidity	NTU	IS 3025 (Part 10) : 2023	*BLQ(**LOQ 1.0)	1	
16.	Odour	--	IS 3025 (Part 5) : 2018	Agreeable	Agreeable	
17.	Taste	--	IS 3025 (Part 8) : 2023	Agreeable	Agreeable	
18.	Phenolic compound as C6H5OH	mg/l	APHA, 24th Edition, 5530 C : 2023	*BLQ(**LOQ 0.001)	0.001	
19.	Anionic Detergent as MBAS	mg/l	IS 3025 (Part 68) : 2019	*BLQ(**LOQ 0.05)	0.2	
20.	Zinc as Zn	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.20)	5	
21.	Copper as Cu	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	0.05	

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TEST REPORT

Sample Number : VTL/W/10				Report No.:VTL/W/2508180005	
22.	Manganese as Mn	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.05)	0.1
23.	Cadmium as Cd	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.002)	0.003
24.	Lead as Pb	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.005)	0.01
25.	Selenium as Se	mg/l	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	0.01
26.	Arsenic as As	mg/l	APHA, 24 th Edition, 3114 C : 2023	*BLQ(**LOQ 0.005)	0.01
27.	Mercury as Hg	mg/l	APHA, 24 th Edition, 3112 B : 2023	*BLQ(**LOQ 0.001)	0.001
28.	Aluminium as Al	mg/l	IS 3025 (Part 55) : 2003, RA : 2019	*BLQ(**LOQ 0.03)	0.03
29.	Boron	mg/l	APHA, 24 th Edition, 4500 B-C : 2023	*BLQ(**LOQ 0.2)	0.5
30.	Total Chromium as Cr	mg/l	APHA, 24 th Edition, 3111 B : 2023	*BLQ(**LOQ 0.02)	0.05

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

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TEST REPORT

Sample Number : VTL/WW/01
Name & Address of the Project : M/s NTPC Limited
Darlipali STPP, Stage-1 (2x800MW),
P.O. Darlipali, Dist. Sundargarh, Odisha - 770072
Sample Description: Waste Water
Sample Location: Cooling Tower Blow Down
Sample Collected by: VTL Team
Preservation: Refrigerated
Method of Sampling : IS:3025, APHA 24th

Report No.: VTL/WW/2508210005
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 27/08/2025
Period Of Analysis: 21-27/08/2025
Receipt Date: 21/08/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr
Parameter Required: As per Work Order

Sr	Parameter	Unit	Test Method	Results	Limits
1.	pH	--	IS 3025 (P-11): 2022	7.45	-
2.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	520.0	-
3.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	0.23	-
4.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	6.20	-
5.	COD	mg/l	IS: 3025 (P- 58) :2023	32.0	-
6.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	14.0	-
7.	Oil & Grease	mg/l	IS 3025(P- 39):2021	*BLQ(**LOQ 4.0)	-
8.	Dissolved Phosphate as P	mg/l	APHA 24th Edition, 4500 P-D: 2023	0.51	5.0
9.	Free Residual Chlorine	mg/l	IS 3025 (P- 26): 2021 (Clause 7.0)	*BLQ(**LOQ0.2)	0.5
10.	Zinc as Zn	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ0.2)	1.0
11.	Chromium as Cr	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ0.1)	0.2
12.	Copper as Cu	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ0.1)	-
13.	Iron as Fe	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ0.1)	-

Limit As per CPCB TPP Effluent Norms *BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

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TEST REPORT

Sample Number : VTL/W/01
Name & Address of the Project : M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072
Sample Description: Surface Water Sample
Sample Location: Darlipali Talab
Sample Collected by: VTL Team
Preservation: Refrigerated
Method of Sampling : IS :3025, APHA 24th

Report No.: VTL/W/2508180006
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 21/08/2025
Period Of Analysis: 18-21/08/2025
Receipt Date: 18/08/2025
Sampling Type: Grab
Sample Quantity: 3.0 Ltr
Parameter Required: As per Work Order
Sampling Date : 21/07/2025

Sr	Parameter	Unit	Test Method	Tolerance Limit as per CPCB					Results
				Class "A"	Class "B"	Class "C"	Class "D"	Class "E"	
1.	pH	--	IS 3025 (P-11): 2022	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	7.31
2.	Temperature	°C	IS-3025 (P- 9) : 2023	--	--	--	--	--	25.7
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	500	--	1500	--	2100	295
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	--	--	--	--	--	460
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	1.5	1.5	1.5	--	--	0.25
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	200	--	--	--	--	141
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	200	--	--	--	--	62
8.	Boron as B	mg/l	APHA 24th Edition 4500B-C: 2023	--	--	--	--	2.0	*BLQ(**LOQ0.2)
9.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	2	3	3	--	--	*BLQ(**LOQ2.0)
10.	COD	mg/l	IS : 3025 (P- 58) :2023	--	--	--	--	--	*BLQ(**LOQ5.0)
11.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	--	--	--	--	--	16.0
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Shall not be detectable in 100 ml					92
13.	E.Coli	ml	IS 15185: 2016 RA 2021						33

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

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TEST REPORT

Sample Number : VTL/W/03
Name & Address of the Project : M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Daripali,
Sundargarh, Odisha, 770072
Sample Description: Surface Water Sample
Sample Location: Outlet Plant Drain Outside
Sample Collected by: VTL Team
Preservation: Refrigerated
Method of Sampling : IS:3025, APHA 24th

Report No.: VTL/W/2508180007
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 21/08/2025
Period Of Analysis: 18-21/08/2025
Receipt Date: 18/08/2025
Sampling Type: Grab
Sample Quantity: 3.0 Ltr
Parameter Required: As per Work Order
Sampling Date: 21/07/2025

Sr	Parameter	Unit	Test Method	Tolerance Limit as per CPCB					Results
				Class "A"	Class "B"	Class "C"	Class "D"	Class "E"	
1.	pH	--	IS 3025 (P-11): 2022	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	7.35
2.	Temperature	°C	IS-3025 (P- 9) : 2023	--	--	--	--	--	25.6
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	500	--	1500	--	2100	310
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	--	--	--	--	--	480
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	1.5	1.5	1.5	--	--	0.29
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	200	--	--	--	--	158
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	200	--	--	--	--	72
8.	Boron as B	mg/l	APHA 24th Edition 4500B-C: 2023	--	--	--	--	2.0	*BLQ(**LOQ0.2)
9.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	2	3	3	--	--	*BLQ(**LOQ2.0)
10.	COD	mg/l	IS : 3025 (P- 58) :2023	--	--	--	--	--	*BLQ(**LOQ5.0)
11.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	--	--	--	--	--	17.0
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Shall not be detectable in 100 ml					65
13.	E.Coli	ml	IS 15185: 2016 RA 2021						19

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report


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TEST REPORT

Sample Number : VTL/W/03
Name & Address of the Project : M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072
Sample Description: Surface Water Sample
Sample Location: Raw Water Reservoir 01
Sample Collected by: VTL Team
Preservation: Refrigerated
Method of Sampling : IS:3025, APHA 24th

Report No.: VTL/W/2508180008
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 21/08/2025
Period Of Analysis: 18-21/08/2025
Receipt Date: 18/08/2025
Sampling Type: Grab
Sample Quantity: 3.0 Ltr
Parameter Required: As per Work Order
Sampling Date : 21/07/2025

Sr	Parameter	Unit	Test Method	Tolerance Limit as per CPCB					Results
				Class "A"	Class "B"	Class "C"	Class "D"	Class "E"	
1.	pH	--	IS 3025 (P-11): 2022	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	7.42
2.	Temperature	°C	IS-3025 (P-9) : 2023	--	--	--	--	--	25.8
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	500	--	1500	--	2100	198
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	--	--	--	--	--	315
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	1.5	1.5	1.5	--	--	0.26
6.	Calcium Hardness	mg/l	IS: 3025 (P-40): 1991 RA: 2019	200	--	--	--	--	82
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46): 2023	200	--	--	--	--	45
8.	Boron as B	mg/l	APHA 24th Edition 4500B-C: 2023	--	--	--	--	2.0	*BLQ(**LOQ0.2)
9.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	2	3	3	--	--	*BLQ(**LOQ2.0)
10.	COD	mg/l	IS: 3025 (P-58) :2023	--	--	--	--	--	*BLQ(**LOQ5.0)
11.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	--	--	--	--	--	10.0
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Shall not be detectable in 100 ml					45
13.	E.Coli	ml	IS 15185: 2016 RA 2021						11

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

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TEST REPORT

Sample Number : VTL/W/04
Name & Address of the Project : M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darpali,
Sundargarh, Odisha, 770072
Sample Description: Surface Water Sample
Sample Location: Raw Water Reservoir 02
Sample Collected by: VTL Team
Preservation: Refrigerated
Method of Sampling : IS :3025, APHA 24th

Report No.: VTL/W/2508180009
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 21/08/2025
Period Of Analysis: 18-21/08/2025
Receipt Date: 18/08/2025
Sampling Type: Grab
Sample Quantity: 3.0 Ltr
Parameter Required: As per Work Order
Sampling Date : 21/07/2025

Sr	Parameter	Unit	Test Method	Tolerance Limit as per CPCB					Results
				Class "A"	Class "B"	Class "C"	Class "D"	Class "E"	
1.	pH	--	IS 3025 (P-11): 2022	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	6.5 to 8.5	7.48
2.	Temperature	°C	IS-3025 (P-9) : 2023	--	--	--	--	--	25.5
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	500	--	1500	--	2100	210
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	--	--	--	--	--	340
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	1.5	1.5	1.5	--	--	0.28
6.	Calcium Hardness	mg/l	IS: 3025 (P-40): 1991 RA: 2019	200	--	--	--	--	63.0
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46): 2023	200	--	--	--	--	25.0
8.	Boron as B	mg/l	APHA 24th Edition 4500B-C: 2023	--	--	--	--	2.0	*BLQ(**LOQ0.2)
9.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	2	3	3	--	--	*BLQ(**LOQ2.0)
10.	COD	mg/l	IS: 3025 (P-58): 2023	--	--	--	--	--	*BLQ(**LOQ5.0)
11.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	--	--	--	--	--	14.0
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Shall not be detectable in 100 ml					58
13.	E.Coli	ml	IS 15185: 2016 RA 2021						13

*BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

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TEST REPORT

Sample Number : VTL/WW/02
Name & Address of the Project : M/s NTPC Limited
Darlipali STPP, Stage-1 (2x800MW),
P.O. Darlipali, Dist. Sundargarh, Odisha -770072
Sample Description: Waste Water
Sample Location: Boiler Blow Down
Sample Collected by: VTL Team
Preservation: Refrigerated
Method of Sampling : IS :3025, APHA 24th

Report No.: VTL/WW/2508210006
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 27/08/2025
Period Of Analysis: 21-27/08/2025
Receipt Date: 21/08/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr
Parameter Required: As per Work Order

Sr	Parameter	Unit	Test Method	Results	Limits
1.	pH	--	IS 3025 (P-11): 2022	7.41	-
2.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	35	-
3.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	*BLQ(**LOQ 0.2)	-
4.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	*BLQ(**LOQ 2.0)	-
5.	COD	mg/l	IS : 3025 (P- 58) :2023	*BLQ(**LOQ 5.0)	-
6.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	6.0	100
7.	Oil & Grease	mg/l	IS 3025(P- 39):2021	*BLQ(**LOQ 4.0)	20
8.	Free Residual Chlorine	mg/l	IS 3025 (P- 26): 2021 (Clause 7.0)	*BLQ(**LOQ 0.2)	-
9.	Zinc as Zn	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.2)	-
10.	Chromium as Cr	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.1)	1.0
11.	Copper as Cu	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.1)	-
12.	Iron as Fe	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.1)	1.0

Limit As per CPCB TPP Effluent Norms *BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

Plot No. Q-39, Shringarpura, Narayan Vihar Q,
Bhankrota, Jaipur 302026 (Raj.)

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TEST REPORT

Sample Number : VTL/WW/03
Name & Address of the Project: M/s NTPC Limited
Darlipali STPP, Stage-1 (2x800MW),
P.O. Darlipali, Dist. Sundargarh, Odisha - 770072
Sample Description: Waste Water
Sample Location: Condensor Cooling Water
Sample Collected by: VTL Team
Preservation: Refrigerated
Method of Sampling : IS :3025, APHA 24*

Report No.: VTL/WW/2508210007
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 27/08/2025
Period Of Analysis: 21-27/08/2025
Receipt Date: 21/08/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr
Parameter Required: As per Work Order

Sr	Parameter	Unit	Test Method	Results	Limits
1.	pH	--	IS 3025 (P-11): 2022	7.38	6.5-8.5
2.	Free Residual Chlorine	mg/l	IS 3025 (P- 26): 2021 (Clause 7.0)	*BLQ(**LOQ0.2)	0.5
3.	Temperature	°C	IS : 3025 (P-9) 2023	3.2	Not more than 5 °C higher than the intake water temperature

Limit As per CPCB TPP Effluent Norms *BLQ- Below Limit of Quantification, ** LOQ- Limit of Quantification.

End of Report

Seemmi
Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

Plot No. Q-39, Shringarpura, Narayan Vihar Q,
Bhankrota, Jaipur 302026 (Raj.)

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