

Environmental Monitoring Report

For The Month of JULY-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

Ajmer Road ,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.:

Format No.:

Party Reference No.:

Report Date:

Period of Analysis:

Receipt Date

Sample Collected By:

VTL/A/2507280001-08

7.8 F 02

NIL

31/07/2025

05/07/2025-31/07/2025

05/07/2025-28/07/2025

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), 2004	IS: 5182 (P-12), 2004	IS: 5182 (P-9) :1974	IS: 5182 (P-26) 2020	VTL/STP/ 02/STP/09
1.	01-02/07/2025	70.6	35.7	22.3	11.9	0.62	15.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	32.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/07/2025	64.3	32.5	20.3	10.8	0.56	13.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	29.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/07/2025	65.5	33.1	20.7	11.0	0.57	13.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/07/2025	68.9	34.8	21.7	11.6	0.60	14.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	32.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/07/2025	62.7	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)
6.	18-19/07/2025	60.1	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)
7.	21-22/07/2025	63.3	32.0	20.0	10.7	0.55	12.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	29.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/07/2025	68.1	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)
Average		65.4	33.1	20.7	11.0	0.6	13.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.3	*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.

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: VTL/AA/09-16
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: SWD Area 1 (AAQMS-2)
Sample Description: Ambient Air Quality Monitoring

Report No.: VTL/A/2507280009-16
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 31/07/2025
Period of Analysis: 05/07/2025-31/07/2025
Receipt Date: 05/07/2025-28/07/2025
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.	01-02/07/2025	62.2	31.4	19.6	10.5	0.54	12.3	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/07/2025	55.9	28.2	17.6	9.4	0.49	10.3	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	25.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/07/2025	57.1	28.8	18.0	9.6	0.50	10.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/07/2025	60.5	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)
5.	14-15/07/2025	54.3	27.4	17.1	9.1	0.48	9.8	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	24.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/07/2025	51.7	26.1	16.3	8.7	0.45	9.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/07/2025	54.9	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)
8.	25-26/07/2025	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)
Average		57.0	28.8	18.0	9.6	0.50	10.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.0	*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.

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

End of Report

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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TEST REPORT

VIBRANT

Sample Number:
Name & Address of
the Party

VTL/AA/17-24
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darlipali,
Sundargarh, Odisha, 770072

Analysis Protocol:

IS-5182 & CPCB Guidelines

Parameter Required:

As per work order

Sampling Location:

SWD Area 2 (AAQMS-3)

Sample Description :

Ambient Air Quality Monitoring

Report No.:

VTL/A/2507280017-24

Format No.:

7.8 F 02

Party Reference No.:

NIL

Report Date:

31/07/2025

Period of Analysis:

05/07/2025-31/07/2025

Receipt Date

05/07/2025-28/07/2025

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: 5192 (P-11), 2006	IS: 5182 (P-12), 2004	IS: 5182 (P-9) :1974	IS: 5182 (P-26) 2020	VTL/STP/ 02/STP/09
1.	01-02/07/2025	67.5	34.1	21.3	11.4	0.59	14.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	31.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/07/2025	61.2	30.9	19.3	10.3	0.54	12.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.1	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/07/2025	62.4	31.5	19.7	10.5	0.55	12.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/07/2025	65.8	33.2	20.8	11.1	0.58	13.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/07/2025	59.6	30.1	18.8	10.0	0.52	11.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/07/2025	57.0	28.8	18.0	9.6	0.50	10.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/07/2025	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)
8.	25-26/07/2025	65.0	32.8	20.5	10.9	0.57	13.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	30.0	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		62.3	31.5	19.7	10.5	0.55	12.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
#NAAQS Standard		100	60	80	80	04	400	01	05	01	180	20	06

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

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

End of Report

Checked By



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TEST REPORT

VIBRANT

Sample Number:
Name & Address of
the Party

VTL/AA/25-32
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darlipali,
Sundargarh, Odisha, 770072

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

IS-5182 & CPCB Guidelines
As per work order
CISF Colony (AAQMS-4)
Ambient Air Quality Monitoring

Report No.: VTL/A/2507280025-32
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 31/07/2025
Period of Analysis: 05/07/2025-31/07/2025
Receipt Date: 05/07/2025-28/07/2025
Sample Collected By: VTL Team

S.NO.	Date of Monitoring	PM10 µg/m ³	PM2.5 µg/m ³	NO2 µg/m ³	SO2 µg/m ³	CO mg/m ³	NH3 µg/m ³	Pb µg/m ³	Benzene µg/m ³	Benzo(a) Pyrene ng/m ³	O3 µg/m ³	Nickel ng/m ³	Arsenic ng/m ³
		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.	01-02/07/2025	70.4	35.6	22.2	11.9	0.62	14.9	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	32.8	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/07/2025	64.1	32.4	20.2	10.8	0.56	12.9	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	29.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/07/2025	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)
4.	11-12/07/2025	68.7	34.7	21.7	11.6	0.60	14.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	31.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/07/2025	62.5	31.6	19.7	10.5	0.55	12.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	28.8	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/07/2025	59.9	30.3	18.9	10.1	0.52	11.6	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	27.5	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/07/2025	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)
8.	25-26/07/2025	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)
Average		65.2	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)
#NAAQS Standard		100	60	80	80	04	400	01	05	01	180	20	06

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TEST REPORT

VIBRANT

Sample Number:

Name & Address of the Party

Analysis Protocol:

Parameter Required:

Sampling Location:

Sample Description :

VTL/AA/33-40

M/s NTPC Ltd.

D.S.T.P. Darlipali, Village – Darpali,
Sundargarh, Odisha, 770072

IS-5182 & CPCB Guidelines

As per work order

Awrm Pump House (AAQMS-5)

Ambient Air Quality Monitoring

Report No.:

Format No.:

Party Reference No.:

Report Date:

Period of Analysis:

Receipt Date

Sample Collected By:

VTL/A/2507280033-40

7.8 F 02

NIL

31/07/2025

05/07/2025-31/07/2025

05/07/2025-28/07/2025

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.	01-02/07/2025	57.9	29.2	18.3	9.7	0.51	11.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	26.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/07/2025	51.6	26.1	16.3	8.7	0.45	9.0	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.3	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/07/2025	52.8	26.7	16.7	8.9	0.46	9.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.9	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/07/2025	56.2	28.4	17.7	9.5	0.49	10.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	25.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/07/2025	50.0	25.3	15.8	8.4	0.44	8.5	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	22.5	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/07/2025	47.4	23.9	15.0	8.0	0.41	7.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	21.1	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/07/2025	50.6	25.6	16.0	8.5	0.44	8.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	22.8	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/07/2025	55.4	28.0	17.5	9.3	0.48	10.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	25.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		52.7	26.7	16.7	8.9	0.46	9.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.9	*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.

End of Report

Checked By



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
the Party

VTL/AA/41-48
M/s NTPC Ltd.
D.S.T.P. Darlipali, Village - Darlipali,
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/2507280041-48
Format No.: 7.8 F 02
Party Reference No.: NIL
Report Date: 31/07/2025
Period of Analysis: 05/07/2025-31/07/2025
Receipt Date: 05/07/2025-28/07/2025
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.	01-02/07/2025	53.9	27.2	17.0	9.1	0.47	9.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	24.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
2.	04-05/07/2025	47.6	24.0	15.0	8.0	0.42	7.7	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	21.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
3.	07-08/07/2025	48.8	24.6	15.4	8.2	0.43	8.1	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	21.8	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
4.	11-12/07/2025	52.2	26.4	16.5	8.8	0.46	9.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.6	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
5.	14-15/07/2025	46.0	23.2	14.5	7.7	0.40	7.2	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	20.4	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
6.	18-19/07/2025	43.4	21.9	13.7	7.3	0.38	6.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	19.1	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
7.	21-22/07/2025	46.6	23.5	14.7	7.8	0.41	7.4	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	20.7	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
8.	25-26/07/2025	51.4	26.0	16.2	8.7	0.45	8.9	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	23.2	*BLQ (**LOQ5.0)	*BLQ (**LOQ0.5)
Average		48.7	24.6	15.4	8.2	0.43	8.1	*BLQ (**LOQ0.02)	*BLQ (**LOQ1.0)	*BLQ (**LOQ0.2)	21.8	*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

Checked By



RK Yadav
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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/2507280001-06
Format No.: 7.8 F-04
Party Reference No.: NIL
Report Date: 31/07/2025

Sample Description : Ambient Noise Level Monitoring

Receipt Date: 28/07/2025

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	23-24/07/2025	Leq	50.3	39.5
2.	Township	25-26/07/2025	Leq	62.6	53.1
3.	Coal Handling Plant	18-19/07/2025	Leq	63.1	52.9
4.	Service Building	16-17/07/2025	Leq	51.7	41.6
5.	Near Office Building	21-22/07/2025	Leq	53.1	42.8
6.	Plant Gate	14-15/07/2025	Leq	63.5	53.7

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

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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TEST REPORT

Sample Number: **VIBRANT**

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 Nm ³ /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/Nm ³	22.6		30.0
2.	Oxide of Nitrogen (as NO _x)	IS- 11255 (P-7); 2005, RA- 2017	mg/Nm ³	211.5		100
3.	Sulphur Dioxide (as SO ₂)	IS: 11255 (P- 2): 1985, RA 2019	mg/Nm ³	930	Under Over Oiling	100
4.	Mercury (Hg)	USEPA 29::1996	mg/Nm ³	*BLQ(**LOQ 0.001)		0.03
5.	Carbon Dioxide (CO ₂)	USEPA 3A: 1989	%	10.9		--

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

End of Report

Checked By



RK Yadav
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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		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	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	%	10.3		--

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

End of Report

Checked By



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Authorized Signatory

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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/2507240001
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 31/07/2025
Period of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
Sampling Date: 21/07/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Sample Description: Ash Dyke Effluent
Sample Collected by: VTL Team
Preservation: Suitable Preservation
Method of Sampling: APHA 24th Edition
Sample Location: AWRS

Test Results

S. No.	Parameter	Test Method	Results	Unit
1.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.22	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	9.8	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	0.61	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

Checked By



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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/2507240013
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 31/07/2025
Period of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
Sampling Date: 21/07/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

Sample Description: Waste Water(Seepage Water)
Sample Collected by: VTL Team
Preservation: Suitable Preservation
Method of Sampling: APHA 24th Edition
Sample Location: Ash Dyke

Test Results

S. No.	Parameter	Test Method	Results	Unit
9.	pH (at 25 °C)	IS 3025 (P-11): 2022	7.09	--
10.	Total Suspended Solids	IS 3025 (P-17): 2022	8.2	mg/l
11.	Oil & Grease	IS 3025(P- 39):2021	*BLQ(**LOQ 4.0)	mg/l
12.	Fluoride as F	APHA 24th Edition, 4500F-D:2023	0.56	mg/l
13.	Mercury as Hg	APHA 24th Edition, 3112B: 2023	*BLQ(**LOQ 0.01)	mg/l
14.	Total Chromium as Cr	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ 0.1)	mg/l
15.	Arsenic as As	APHA 24th Edition 3114 C, 2023	*BLQ(**LOQ 0.05)	mg/l
16.	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

Checked By



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

Report No.: VTL/WW/2507240002
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 31/07/2025
Period of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
Sampling Date: 21/07/2025
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	6.63	--
2.	Total Suspended Solids	IS 3025 (P-17): 2022	120.0	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	1.02	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	65.0	mg/l
10.	C.O.D.	IS : 3025 (P- 58) : 2023	332	mg/l
11.	Phosphate as P	IS:3025 (P- 31) Sec 1 : 2022 (Clause 5.0)	2.15	mg/l
12.	Sulphate as SO ₄	IS 3025 (P-24) : 2022	98.3	mg/l
13.	Chloride as Cl	IS: 3025 (P- 32): 1988,RA: 2019	147.8	mg/l
14.	Ammonical Nitrogen as N	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 5.3)	16.2	mg/l
15.	Total Kjeldahl Nitrogen as N	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 8.0)	28.4	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	25.0	°C
25.	Phenolic Compounds	APHA 24th Edition, 5530-D: 2023	*BLQ(**LOQ 1.0)	mg/l
26.	Turbidity	IS 3025 (P-10):2023	115	NTU
27.	Conductivity	IS: 3025 (P-14): 2013 RA 2019	1540	µS/cm
28.	Fixed Dissolved Solids	IS 3025 (P-16): 2023	1020	mg/l
29.	Nitrate Nitrogen	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 6.4)	34.1	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.

End of Report

JAIPUR

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RK Yadav
Lab Incharge

Authorized Signatory

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

Report No.: VTL/WW/2507240003
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 31/07/2025
Period of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
Sampling Date: 21/07/2025
Sampling Type: Grab
Sample Quantity: 2.0 Ltr.

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	7.41	--	5.5 to 9.0
2.	Total Suspended Solids	IS 3025 (P-17): 2022	10.0	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	0.28	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	14.1	mg/l	30
10.	C.O.D.	IS: 3025 (P- 58) : 2023	44.0	mg/l	250
11.	Phosphate as P	IS:3025 (P- 31) Sec 1 : 2022 (Clause 5.0)	0.48	mg/l	5
12.	Sulphate as SO ₄	IS 3025 (P-24) : 2022	18.9	mg/l	NS
13.	Chloride as Cl	IS: 3025 (P- 32): 1988,RA: 2019	23.1	mg/l	NS
14.	Ammonical Nitrogen as N	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 5.3)	1.9	mg/l	50
15.	Total Kjeldahl Nitrogen as N	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 8.0)	5.6	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	9.0	NTU	NS
27.	Conductivity	IS: 3025 (P-14): 2013 RA 2019	580	µS/cm	NS
28.	Fixed Dissolved Solids	IS 3025 (P-16): 2023	380	mg/l	NS
29.	Nitrate Nitrogen	IS 3025 : Part 34 : Sec 1 : 2023 (Clause 6.4)	4.56	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

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RK Yadav
Lab Incharge



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TEST REPORT

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

Report No.: VTL/WW/2507230001-07
Format No.: 7.8 F 01
Party Reference No.: NA
Report Date: 31/07/2025
Period of Analysis: 04/07/2025-31/07/2025
Receipt Date: 04/07/2025 -25/07/2025
Sampling Date: 02-23/07/2025
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						
					02.07.25	07.07.25	09.07.25	14.07.25	16.07.25	21.07.25	23.07.25
					VTL/WW/07/01	VTL/WW/07/02	VTL/WW/07/03	VTL/WW/07/04	VTL/WW/07/05	VTL/WW/07/06	VTL/WW/07/07
1.	pH (at 25 °C)	--	IS 3025 (P-11)	5.5 to 9.0	7.18	7.24	7.20	7.12	7.03	7.28	7.22
2.	Total Suspended Solids	mg/l	IS 3025 (P-17)	100	15	18	20	16	17	12	9.0
3.	Bio Chemical Oxygen Demand (3days at 27 °c)	mg/l	IS 3025 (P-44)	30	14	17	19	18	20	15	10
4.	Chemical Oxygen Demand	mg/l	IS: 3025 (P-58)	250	76	85	97	92	105	70	58
5.	Ammonical Nitrogen as NH ₄ -N	mg/l	IS 3025 : Part 34	50	7.9	8.7	6.3	7.1	8.4	6.3	6.1
6.	Total Nitrogen		IS 3025 : Part 34	--	15.2	19.3	21.6	13.6	16.5	10.2	9.4
7.	Faecal coliform	MPN / 100 ml	APHA 24th Edition, 9221-C	--	94	120	150	280	350	84	70

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

End of Report

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

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TEST REPORT

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/2507240006-07
Format No.: 7.8 F-01

Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	
				21.07.2025	21.07.2025	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
				Field	Hostel		
1.	pH	--	IS 3025 (P-11): 2022	7.35	7.28	6.5 to 8.5	No Relaxation
2.	Temperature	OC	IS-3025 (P- 9) : 2023	25.4	25.1	--	--
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	297	248	500	2000
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	460	390	--	--
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	0.32	0.28	1.0	1.5
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	158.0	135.0	75	200
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	92.0	75.0	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	10.0	8.0	--	--
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



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TEST REPORT

Sample Number : VTL/W/06-07				Report No.:VTL/W/2507240006-07		
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

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/2507240008-09
Format No.: 7.8 F-01

Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	
				21.07.2025	21.07.2025	Desirable limit (Max.)	Permissible limit in the Absence of Alternate Source (Max.)
				Darlipali Village	Darlipali Surrounding Area		
1.	pH	--	IS 3025 (P-11): 2022	7.29	7.34	6.5 to 8.5	No Relaxation
2.	Temperature	OC	IS-3025 (P- 9) : 2023	25.2	25.1	--	--
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	292	315	500	2000
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	460	490	--	--
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	0.23	0.25	1.0	1.5
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	157.0	187.0	75	200
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	79.0	84.0	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	11.0	13.0	--	--
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



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TEST REPORT

Sample Number : VTL/W/08-09				Report No.:VTL/W/2507240008-09		
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

Checked By



RK Yadav
Lab Incharge
Authorized Signatory

Corporate & Registered Office:

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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/2507240010
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	
				21.07.2025	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	7.39	6.5 to 8.5	No Relaxation
2.	Temperature	0C	IS-3025 (P- 9) : 2023	25.0	--	--
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	355	500	2000
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	550	--	--
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	0.39	1.0	1.5
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	171	75	200
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	82	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	8.0	--	--
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 C ₆ H ₅ OH	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/2507240010	
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/2507240005
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	7.48	-
2.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	495.0	-
3.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	0.21	-
4.	BOD (3 days at 27°C)	mg/l	IS: 3025 (P-44): 2023	5.10	-
5.	COD	mg/l	IS : 3025 (P- 58) :2023	20.0	-
6.	Total Suspended Solids	mg/l	IS: 3025 (P-17): 2022	12.0	-
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	0.49	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.

End of Report

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Lab Incharge
Authorized Signatory

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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/2507240006
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	7.33	-
2.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	32	-
3.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	*BLQ(**LOQ0.2)	-
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	5.0	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(**LOQ0.2)	-
9.	Zinc as Zn	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ0.2)	-
10.	Chromium as Cr	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ0.1)	1.0
11.	Copper as Cu	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ0.1)	-
12.	Iron as Fe	mg/l	APHA 24th Edition 3111 B, 2023	*BLQ(**LOQ0.1)	1.0

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/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 24th

Report No.: VTL/WW/2507240007
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	7.33	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	3.9	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.

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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/2507240001
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	7.28
2.	Temperature	°C	IS-3025 (P- 9) : 2023	--	--	--	--	--	26.1
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	500	--	1500	--	2100	268
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	--	--	--	--	--	437
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	1.5	1.5	1.5	--	--	0.23
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	200	--	--	--	--	126
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	200	--	--	--	--	57
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					89
13.	E.Coli	ml	IS 15185: 2016 RA 2021						25

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

Report No.: VTL/W/2507240002
Format No.: 7.8 F-01

Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	7.28
2.	Temperature	°C	IS-3025 (P- 9) : 2023	--	--	--	--	--	26.3
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	500	--	1500	--	2100	256
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	--	--	--	--	--	413
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	--	--	--	--	93
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	200	--	--	--	--	67
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	--	--	--	--	--	11.0
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Shall not be detectable in 100 ml					72
13.	E.Coli	ml	IS 15185: 2016 RA 2021						14

*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/2507240003
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	7.38
2.	Temperature	°C	IS-3025 (P- 9) : 2023	--	--	--	--	--	26.1
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	500	--	1500	--	2100	178
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	--	--	--	--	--	305
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	1.5	1.5	1.5	--	--	0.22
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	200	--	--	--	--	71
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	200	--	--	--	--	38
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	--	--	--	--	--	9.0
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Shall not be detectable in 100 ml					42
13.	E.Coli		IS 15185: 2016 RA 2021						10

*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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- Authenticity of Test Report and Accreditation status may be seen online through QR Code.
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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/2507240004
Format No.: 7.8 F-01
Party Reference No.: NIL
Report Date: 31/07/2025
Period Of Analysis: 24-31/07/2025
Receipt Date: 24/07/2025
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	7.40
2.	Temperature	°C	IS-3025 (P- 9) : 2023	--	--	--	--	--	25.2
3.	Total Dissolved Solid	mg/l	IS 3025 (P-16): 2023	500	--	1500	--	2100	181
4.	Conductivity	µs/cm	IS: 3025 (P-14): 2013 RA 2019	--	--	--	--	--	309
5.	Fluoride	mg/l	APHA 24th Edition, 4500 F-D: 2023	1.5	1.5	1.5	--	--	0.23
6.	Calcium Hardness	mg/l	IS: 3025 (P- 40): 1991 RA: 2019	200	--	--	--	--	52.0
7.	Magnesium Hardness	mg/l	IS: 3025 (P-46):2023	200	--	--	--	--	22.0
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	--	--	--	--	--	11.0
12.	Total Coliform	per 100 ml	IS 15185: 2016 RA 2021	Shall not be detectable in 100 ml					51
13.	E.Coli	ml	IS 15185: 2016 RA 2021						10

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

End of Report

Checked By



RK Yadav
Lab Incharge
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