



Analyzing for an Assured Future

NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	Report Code : N -200323-06 ULR No. : TC6814230000005256 F Test Report of : G. G. Noise Service Request No : NTL/SRF/03/23-015 Service Request Date : 16/03/2023 Report Issue Date : 27/03/2023
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SAMPLING & ANALYSIS DATA

Sample Drawn On	: 18/03/2023
Sample Drawn By	: NTL Representative
Sample Received On	: 20/03/2023
Sample description/ Job No.	: GG Noise (62.5 KVA) /1193
Sampling Location	: NK#6
Sampling Time	: Short Term Monitoring

TEST RESULT

Location	Noise Level Cum, Leq db(A)	Protocol Followed	Limit as per CPCB Norms	
A. When G.G. Set was in operation				
1. Open G.G. window				
a. 0.5 m Distance away from the GG set engine	95.4	IS:4758/IS:11446	75 db (A) at 1.0 meter distance from close GG set	
b. 1.0 m Distance away from the GG set engine	93.8			
2. Close G.G. window				
a. 0.5 m Distance away from the GG set engine	72.5			
b. 1.0 m Distance away from the GG set engine	71.6			

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201301

Branch Office :

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : N -200323-07
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005257 F
	Test Report of : G. G. Noise
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn On	: 18/03/2023
Sample Drawn By	: NTL Representative
Sample Received On	: 20/03/2023
Sample description/ Job No.	: GG Noise (63 KVA) / 1187
Sampling Location	: NK#6
Sampling Time	: Short Term Monitoring

TEST RESULT

Location	Noise Level Cum, Leq db(A)	Protocol Followed	Limit as per CPCB Norms
A. When G.G. Set was in operation			
1. Open G.G. window			
a. 0.5 m Distance away from the GG set engine	96.6	IS:4758/IS:11446	75 db (A) at 1.0 meter distance from close GG set
b. 1.0 m Distance away from the GG set engine	95.2		
2. Close G.G. window			
a. 0.5 m Distance away from the GG set engine	73.1		
b. 1.0 m Distance away from the GG set engine	72.0		

Notes:

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : GG-200323-04
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005254 F
	Test Report of : G. G. Stack Emission
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample drawn on	:	18/03/2023
Sample Drawn By	:	NTL Representative
Sampling Location	:	NK#6
Sample description	:	Stack Emission
Sampling Time	:	30 minutes
Sampling Plan & Procedure	:	SOP/SE/09
Analysis Duration	:	20/03/2023 to 27/03/2023
Stack Temperature (°C)	:	108
Source of Emission	:	Stack Attached to G.G
Make/Model No./Job No.	:	Green Power Solution/ 66.62.5/1193
Capacity	:	62.5 KVA
Type of Fuel used	:	Gas
Operating Load	:	Normal
Type of Stack	:	Metal circular
Diameter of Stack (inch)	:	3.0
Stack Height (feet)	:	8.0
Average Velocity of Flue Emission (m/s)	:	7.2

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM)	IS:11255(Part-1)	0.086	g/kw-hr	0.2
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	7.12	mg /Nm ³	Limit not specified
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	2.50	g/kw-hr	9.2
4.	Carbon monoxide (as CO)	USEPA Method No.10	0.28	g/kw-hr	3.5
5.	Hydrocarbon (HC)	GC-FID	0.054	g/kw-hr	1.3

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Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,
Opposite to Gate No. 4 Ashok Nagar
(Above Bank of India), Ranchi,
Jharkhand - 834002

Report Code : GG-200323-05
ULR No. : TC681423000005255 F
Test Report of : G. G. Stack Emission
Service Request No : NTL/SRF/03/23-015
Service Request Date : 16/03/2023
Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample drawn on : 18/03/2023
Sample Drawn By : NTL Representative
Sampling Location : NK#6
Sample description : Stack Emission
Sampling Time : 30 minutes
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 20/03/2023 to 27/03/2023
Stack Temperature (°C) : 110
Source of Emission : Stack Attached to G.G
Make/Model No./Job No. : Green Power Solution/ 6PS63KVA/ 1187
Capacity : 63 KVA
Type of Fuel used : Gas
Operating Load : Normal
Type of Stack : Metal circular
Diameter of Stack (inch) : 3.0
Stack Height (feet) : 8.0
Average Velocity of Flue Emission (m/s) : 7.6

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	Emission limits
1.	Particulate Matter (PM)	IS:11255(Part-1)	0.092	g/kw-hr	0.2
2.	Sulphur dioxide (SO ₂)	IS:11255(Part-2)	7.50	mg /Nm ³	Limit not specified
3.	Nitrogen dioxide (NO ₂)	IS:11255(Part-7)	2.86	g/kw-hr	9.2
4.	Carbon monoxide (as CO)	USEPA Method No.10	0.32	g/kw-hr	3.5
5.	Hydrocarbon (HC)	GC-FID	0.076	g/kw-hr	1.3

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : W -200323-08
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005258 F
	Test Report of : Self Flow Water
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn By	: NTL Representative
Sample Drawn On	: 18/03/2023
Sample Quantity	: 2.0 lit. + 500 ml.
Sample packing Details	: PVC Cane
Analysis Duration	: 20/03/2023 to 27/03/2023
Location	: NK # 6
Sample Description	: Self Flow Water
Required Test Standard	: IS 10500: 2012

MICROBIOLOGICAL REQUIREMENT RESULT

S.No.	Parameter	Test Method	Results	Requirements as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

S.No.	Parameter	Test Method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour	IS-3025(P-04)	<1.00	Hazen Unit	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.00	NTU	1	5
5.	pH value	IS-3025(P-11)	7.23	-	6.5 – 8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	118.0	mg/l	500	2000

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Aluminium (as Al)	IS: 3025 (P- 55)	<0.01	mg/l	0.03	0.2
2.	Total Ammonia	IS: 3025 (P- 34)	<0.10	mg/l	0.5	No Relaxation
3.	Anionic Detergents (as MBAS)	Annex K of IS-13428	<0.10	mg/l	0.2	1.0
4.	Barium (as Ba)	IS: 15302	<0.10	mg/l	0.7	No Relaxation
5.	Boron (as B)	IS: 3025 (P- 57)	<0.10	mg/l	0.5	2.4
6.	Calcium (as Ca)	IS: 3025 (P- 40)	20.14	mg/l	75	200
7.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	<1.00	mg/l	4.0	No Relaxation
8.	Chloride (as Cl)	IS: 3025 (P- 32)	25.60	mg/l	250	1000

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9.	Fluoride (as F)	IS: 3025 (P-60)	<0.1	mg/l	1.0	1.5
10.	Free Residual Chlorine	IS: 3025 (P-26)	BDL	mg/l	0.2	1.0
11.	Iron (as Fe)	IS: 3025(P-53)	<0.05	mg/l	1.0	No Relaxation
12.	Magnesium (as Mg)	IS: 3025 (P-46)	7.10	mg/l	30	100
13.	Manganese (as Mn)	Clause 35 of IS 3025	BDL	mg/l	0.1	0.3
14.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	<1.0	mg/l	45	No Relaxation
15.	Selenium (as Se)	IS: 3025 (P- 56)	BDL	mg/l	0.01	No Relaxation
16.	Silver (as Ag)	Annex J IS: 13428	BDL	mg/l	0.1	No Relaxation
17.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	4.02	mg/l	200	400
18.	Sulphide (as H ₂ S)	IS-3025 (P-29)	BDL	mg/l	0.05	No Relaxation
19.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	38.0	mg/l	200	600
20.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	21.0	mg/l	200	600
21.	Zinc (as Zn)	IS: 3025 (P- 49)	<0.1	mg/l	5.0	15
22.	Salinity	APHA- 23 rd Edit.	0.046	ppt	-	-
23.	Phenolic Compound as (C ₆ H ₅ OH)	IS: 3025 (P- 43)	BDL	mg/l	0.001	0.002

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Molybdenum (Mo)	IS-3025(P-2)	<0.05	mg/l	0.07	No Relaxation
6.	Nickel (as Ni)	IS-3025(P-54)	<0.01	mg/l	0.02	No Relaxation
7.	Poly nuclear Aromatic Hydro Carbons	APHA 6440	<0.0001	mg/l	0.0001	No Relaxation
8.	Poly chlorinated biphenyl	APHA 6630	<0.0001	mg/l	0.0005	No Relaxation
9.	Total Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	No Relaxation
10.	Total Chromium (as Cr)	IS-3025(P-52)	<0.05	mg/l	0.05	No Relaxation

BDL: Below Detection limit.

*Remarks: Based on above tested parameter, Water sample meet as per IS-10500:2012 in acceptable limit. Water is fit for Drinking purpose.

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Address: 4th Floor, Rishabh Complex,
Opposite to Gate No. 4 Ashok Nagar
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Jharkhand - 834002

Report Code : AAQ-200323-01
ULR No. : TC681423000005251 F
Test Report of : Ambient Air Quality
Service Request No : NTL/SRF/03/23-015
Service Request Date : 16/03/2023
Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn On : 18/03/2023 to 19/03/2023
Sample Drawn By : NTL Representative
Sample description : Ambient Air
Sampling Location : Near Main Gate NK#6
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 20/03/2023 to 27/03/2023
Average Flow Rate of SPM (m³/min.) : 1.12
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀), Fine Particulate (PM_{2.5}) Sampler
Weather Condition : Clear
Remarks (if any) : Normal

TEST RESULT

S.No	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	85.40	µg/m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	46.08	µg/m ³	60.0
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	12.16	µg/m ³	80.0
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	24.50	µg/m ³	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	<1.15	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg/m ³	1.0
7.	Ozone (as O ₃)	IS:5182 Part-IX	32.0	µg/m ³	180.0
8.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg/m ³	5.0
9.	Benzo (a) Pyrene	IS:5182 Part-XI	ND	ng/m ³	1.0
10.	Ammonia (as NH ₃)	IS:5182 Part-XXV	<50.0	µg/m ³	400.0
11.	Nickel (as Ni)	APHA-AIR420	ND	ng/m ³	20.0
12.	Arsenic (as As)	APHA-AIR302	ND	ng/m ³	6.0

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Address: 4th Floor, Rishabh Complex,
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Jharkhand - 834002

Report Code : AAQ-200323-02
ULR No. : TC6814230000005252 F
Test Report of : Ambient Air Quality
Service Request No : NTL/SRF/03/23-015
Service Request Date : 16/03/2023
Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn On : 18/03/2023 to 19/03/2023
Sample Drawn By : NTL Representative
Sample description : Ambient Air
Sampling Location : Near Bunkhouse NK#6
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 20/03/2023 to 27/03/2023
Average Flow Rate of SPM (m³/min.) : 1.12
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM₁₀), Fine Particulate (PM_{2.5}) Sampler
Weather Condition : Clear
Remarks (if any) : Normal

TEST RESULT

S.No	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	82.50	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	42.16	µg /m ³	60.0
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	10.23	µg /m ³	80.0
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	18.40	µg /m ³	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	1.16	mg/m ³	4.0
6	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg /m ³	1.0
7	Ozone (as O ₃)	IS:5182 Part-IX	28.0	µg /m ³	180.0
8	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
9	Benzo (a) Pyrene	IS:5182 Part-XI	ND	ng /m ³	1.0
10	Ammonia (as NH ₃)	IS:5182 Part-XXV	<50.0	µg /m ³	400.0
11	Nickel (as Ni)	APHA-AIR420	ND	ng /m ³	20.0
12	Arsenic (as As)	APHA-AIR302	ND	ng /m ³	6.0

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : AAQ-200323-03
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005253 F
	Test Report of : Ambient Air Quality
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn On	:	18/03/2023 to 19/03/2023
Sample Drawn By	:	NTL Representative
Sample description	:	Ambient Air
Sampling Location	:	Near Self-Flow Well NK#6
Sampling Plan & Procedure	:	SOP-AAQ/08
Analysis Duration	:	20/03/2023 to 27/03/2023
Average Flow Rate of SPM (m ³ /min.)	:	1.12
Average Flow Rate of Gases (lpm)	:	1.0
Sampling Instrument Used	:	Respirable Dust Sampler (PM ₁₀), Fine Particulate (PM _{2.5}) Sampler
Weather Condition	:	Clear
Remarks (if any)	:	Normal

TEST RESULT

S.No	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	85.10	µg /m ³	100.0
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	43.60	µg /m ³	60.0
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	11.38	µg /m ³	80.0
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	24.50	µg /m ³	80.0
5.	Carbon monoxide (as CO)	IS:5182 Part-X	1.19	mg/m ³	4.0
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.10	µg /m ³	1.0
7.	Ozone (as O ₃)	IS:5182 Part-IX	32.2	µg /m ³	180.0
8.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
9.	Benzo (a) Pyrene	IS:5182 Part-XI	ND	ng /m ³	1.0
10.	Ammonia (as NH ₃)	IS:5182 Part-XXV	<50.0	µg /m ³	400.0
11.	Nickel (as Ni)	APHA-AIR420	ND	ng /m ³	20.0
12.	Arsenic (as As)	APHA-AIR302	ND	ng /m ³	6.0

Notes:

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : WW -200323-013
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005263 F
	Test Report of : Waste Water
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn On	: 18/03/2023
Sample Collected By	: NTL Representative
Sample Description	: Effluent Water (NK#6)
Sample Quantity/Packing detail	: 1 lt/Plastic Cane
Weather Conditions	: Normal
Analysis Duration	: 20/03/2023 to 27/03/2023

TEST RESULTS

S. No.	Parameter	Test Method	Results	Units	Limits as per CPCB norms
1.	pH	IS:3025(Part-11):1983	7.42	-	5.5-9.0
2.	Total Dissolved Solid (TDS)	IS:3025(Part-16):1984	860.0	mg/l	No limit Specified
3.	Total Suspended Solid	IS:3025(Part-17):1984	236.0	mg/l	100.0
4.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	125.0	mg/l	250
5.	Biological Oxygen Demand (as O ₂) (3 days at 27°C)	IS:3025(Part-44):1993	26.0	mg/l	30
6.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10
7.	Temperature, °C	IS:3025(Part-9)	20	Shall not be exceed more than 5 °C	
8.	Total Solid	IS:3025(Part-17):1984	1096	mg/l	-
9.	Chlorides (as Cl)	IS: 3025 (Part - 32)	250	mg/l	1000
10.	Fluoride (as F)	IS: 3025 (Part - 60)	0.32	mg/l	2
11.	Flow	APHA 23'd Edition	2.6	LPM	-
12.	Sulphides, (as S)	IS: 3025 (Part - 29)	BDL	mg/l	2
13.	Phenolic compound (as C ₆ H ₅ OH)	IS: 3025 (Part - 43)	BDL	mg/l	1
14.	Zinc (as Zn)	IS: 3025 (Part - 49)	0.89	mg/l	5
15.	Copper (as Cu)	IS: 3025 (Part - 42)	BDL	mg/l	3

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16.	Hexavalent Chromium (as Cr ⁺⁶)	IS: 3025 (Part - 52)	BDL	mg/l	0.1
17.	Total Chromium (as Cr)	IS: 3025 (Part - 52)	BDL	mg/l	-
18.	Cyanide, (as CN)	IS: 3025 (Part - 27)	BDL	mg/l	0.2
19.	Nickel (as Ni)	IS: 3025 (Part - 54)	BDL	mg/l	3
20.	Sodium	IS-3025(P-45)	0.0041	%	-
21.	Lead (as Pb)	IS: 3025 (Part - 47)	BDL	mg/l	0.1
22.	Mercury (as Hg)	IS: 3025 (Part - 48)	BDL	mg/l	0.01
23.	Salinity	APHA- 23 rd Edit.	0.45	ppt	-

Remarks: Test parameters coming in under limit, prescribe limits are given by MoEF/Central Pollution Control Board.

BDL- Below Detection Limit

Notes:

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : WW -200323-014
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005264 F
	Test Report of : Waste Water
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn On	: 18/03/2023
Sample Collected By	: NTL Representative
Sample Description	: Effluent Water (NK#34)
Sample Quantity/Packing detail	: 1 lt/Plastic Cane
Weather Conditions	: Normal
Analysis Duration	: 20/03/2023 to 27/03/2023

TEST RESULTS

S. No.	Parameter	Test Method	Results	Units	Limits as per CPCB norms
1.	pH	IS:3025(Part-11):1983	7.80	-	5.5-9.0
2.	Total Dissolved Solid (TDS)	IS:3025(Part-16):1984	655.0	mg/l	No limit Specified
3.	Total Suspended Solid	IS:3025(Part-17):1984	180.0	mg/l	100.0
4.	Chemical Oxygen Demand (as O ₂)	APHA 5220 B:2005	110.0	mg/l	250
5.	Biological Oxygen Demand (as O ₂) (3 days at 27 ^o C)	IS:3025(Part-44):1993	23.0	mg/l	30
6.	Oil & grease	IS:3025(Part-39):1984	<1.0	mg/l	10
7.	Temperature, °C	IS:3025(Part-9)	18	Shall not be exceed more than 5 °C	
8.	Total Solid	IS:3025(Part-17):1984	835.0	mg/l	-
9.	Chlorides (as Cl)	IS: 3025 (Part - 32)	216	mg/l	1000
10.	Fluoride (as F)	IS: 3025 (Part - 60)	0.27	mg/l	2
11.	Flow	APHA 23'd Edition	2.2	LPM	-
12.	Sulphides, (as S)	IS: 3025 (Part - 29)	BDL	mg/l	2
13.	Phenolic compound (as C ₆ H ₅ OH)	IS: 3025 (Part - 43)	BDL	mg/l	1
14.	Zinc (as Zn)	IS: 3025 (Part - 49)	0.56	mg/l	5
15.	Copper (as Cu)	IS: 3025 (Part - 42)	BDL	mg/l	3

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16.	Hexavalent Chromium (as Cr ⁺⁶)	IS: 3025 (Part - 52)	BDL	mg/l	0.1
17.	Total Chromium (as Cr)	IS: 3025 (Part - 52)	BDL	mg/l	-
18.	Cyanide, (as CN)	IS: 3025 (Part - 27)	BDL	mg/l	0.2
19.	Nickel (as Ni)	IS: 3025 (Part - 54)	BDL	mg/l	3
20.	Sodium	IS-3025(P-45)	0.0032	%	-
21.	Lead (as Pb)	IS: 3025 (Part - 47)	BDL	mg/l	0.1
22.	Mercury (as Hg)	IS: 3025 (Part - 48)	BDL	mg/l	0.01
23.	Salinity	APHA- 23 rd Edit.	0.39	ppt	-

Remarks: Test parameters coming in under limit, prescribe limits are given by MoEF/Central Pollution Control Board.

BDL- Below Detection Limit

Notes:

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited

Address: 4th Floor, Rishabh Complex,
Opposite to Gate No. 4 Ashok Nagar
(Above Bank of India), Ranchi,
Jharkhand - 834002

Report Code : W -200323-011
ULR No. : TC681423000005261 F
Test Report of : Surface Water
Service Request No : NTL/SRF/03/23-015
Service Request Date : 16/03/2023
Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn On : 18/03/2023
Sample Description : Surface Water
Sample Collected By : NTL Representative
Sample Quantity : 2.0 Litre
Analysis Duration : 20/03/2023 to 27/03/2023
Sample Location : Near NK # 6 (haharo River)

RESULTS

S.No.	Parameter	Test Method	Results	Units
1.	pH	IS:3025(Part-11)	7.89	
2.	Temperature	IS:3025(Part-9)	18.0	°C
3.	Turbidity	IS:3025(Part-10)	56.0	NTU
4.	Conductivity @25°C	IS:3025(Part-14)	920	µS/cm
5.	Sulphate (SO4)	IS:3025(Part-24)	62.0	mg/l
6.	Nitrate (NO3)	IS:3025(Part-34)	28.0	mg/l
7.	Total Hardness (as CaCO3)	IS:3025(Part-21)	210.0	mg/l
8.	Chloride (as Cl)	IS:3025(Part-32)	132.0	mg/l
9.	Fluoride (as F)	APHA 4500F	1.45	mg/l
10.	COD (as O2)	APHA-5220 B	92.0	mg/l
11.	Iron (as Fe)	IS:3025(Part-53)	3.02	mg/l
12.	Dissolve Oxygen	IS-3025(Part-38)	2.80	mg/l
13.	Total Dissolved Solid	IS:3025(Part-16)	590	mg/l
14.	BOD (3 days at 27°C)	IS:3025 (P-44)	18.0	mg/l
15.	Calcium (as Ca)	IS:3025(Part-40)	56.2	mg/l
16.	Magnesium (as Mg)	IS:3025(Part-46)	16.80	mg/l
17.	Total Arsenic (as As)	IS:3025(Part-37)	BDL	mg/l
18.	Lead (as Pb)	IS:3025(Part-47)	BDL	mg/l
19.	Copper (as Cu)	IS:3025(Part-42)	0.24	mg/l
20.	Zinc (as Zn)	IS:3025(Part-49)	1.56	mg/l

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21.	Manganese (as Mn)	IS:3025(Part-59)	<0.10	mg/l
22.	Total Chromium (as Cr)	IS:3025(Part-52)	<0.1	mg/l
23.	Sodium (as Na)	IS:3025(Part-45)	62	mg/l
24.	Potassium (as K)	IS:3025(Part-45)	4.1	mg/l
25.	Total Alkalinity (as CaCO ₃)	IS:3025(Part-23)	189	mg/l
26.	Phosphate (as P)	IS:3025(Part-31)	0.156	mg/l
27.	Nitrite (as NO ₂)	IS:3025(Part-34)	0.24	mg/l
28.	Total Suspended Solid	IS:3025(Part-17)	80.0	mg/l
29.	Salinity	APHA 23 rd Edit.	0.238	ppt
30.	Faecal Coliform	IS-1622	1.5 × 10 ³	MPN/100 ml
31.	Total Coliform	IS-1622	2.6 × 10 ³	MPN/100 ml

BDL- Below detection limit.

Notes:

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : W -200323-012
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005262 F
	Test Report of : Surface Water
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn On	: 18/03/2023
Sample Description	: Surface Water
Sample Collected By	: NTL Representative
Sample Quantity	: 2.0 Litre
Analysis Duration	: 20/03/2023 to 27/03/2023
Sample Location	: Near NK # 3

RESULTS

S.No.	Parameter	Test Method	Results	Units
1.	pH	IS:3025(Part-11)	7.41	
2.	Temperature	IS:3025(Part-9)	20.0	°C
3.	Turbidity	IS:3025(Part-10)	48.0	NTU
4.	Conductivity @25°C	IS:3025(Part-14)	802	µS/cm
5.	Sulphate (SO4)	IS:3025(Part-24)	55.0	mg/l
6.	Nitrate (NO3)	IS:3025(Part-34)	23.0	mg/l
7.	Total Hardness (as CaCO3)	IS:3025(Part-21)	172.0	mg/l
8.	Chloride (as Cl)	IS:3025(Part-32)	840.0	mg/l
9.	Fluoride (as F)	APHA 4500F	1.25	mg/l
10.	COD (as O2)	APHA-5220 B	60.0	mg/l
11.	Iron (as Fe)	IS:3025(Part-53)	1.80	mg/l
12.	Dissolve Oxygen	IS-3025(Part-38)	4.50	mg/l
13.	Total Dissolved Solid	IS:3025(Part-16)	515.0	mg/l
14.	BOD (3 days at 27°C)	IS:3025 (P-44)	14.8	mg/l
15.	Calcium (as Ca)	IS:3025(Part-40)	46.2	mg/l
16.	Magnesium (as Mg)	IS:3025(Part-46)	13.70	mg/l
17.	Total Arsenic (as As)	IS:3025(Part-37)	BDL	mg/l
18.	Lead (as Pb)	IS:3025(Part-47)	BDL	mg/l
19.	Copper (as Cu)	IS:3025(Part-42)	0.15	mg/l
20.	Zinc (as Zn)	IS:3025(Part-49)	1.20	mg/l

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21.	Manganese (as Mn)	IS:3025(Part-59)	<0.10	mg/l
22.	Total Chromium (as Cr)	IS:3025(Part-52)	<0.1	mg/l
23.	Sodium (as Na)	IS:3025(Part-45)	46	mg/l
24.	Potassium (as K)	IS:3025(Part-45)	1.2	mg/l
25.	Total Alkalinity (as CaCO ₃)	IS:3025(Part-23)	160	mg/l
26.	Phosphate (as P)	IS:3025(Part-31)	0.118	mg/l
27.	Nitrite (as NO ₂)	IS:3025(Part-34)	0.16	mg/l
28.	Total Suspended Solid	IS:3025(Part-17)	52.0	mg/l
29.	Salinity	APHA 23 rd Edit.	1.50	ppt
30.	Faecal Coliform	IS-1622	1.4 × 10 ³	MPN/100 ml
31.	Total Coliform	IS-1622	2.2 × 10 ³	MPN/100 ml

BDL- Below detection limit.

Notes:

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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : W -200323-09
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005259 F
	Test Report of : Ground Water
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn By	: NTL Representative
Sample Drawn On	: 18/03/2023
Sample Quantity	: 2.0 lit. + 500 ml.
Sample packing Details	: PVC Cane
Analysis Duration	: 20/03/2023 to 27/03/2023
Location	: Near NK # 6
Sample Description	: Ground Water
Required Test Standard	: IS 10500: 2012

MICROBIOLOGICAL REQUIREMENT RESULT

S.No.	Parameter	Test Method	Results	Requirements as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

S.No.	Parameter	Test Method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour	IS-3025(P-04)	<1.00	Hazen Unit	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.00	NTU	1	5
5.	pH value	IS-3025(P-11)	7.48	-	6.5 - 8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	560.0	mg/l	500	2000

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Aluminium (as Al)	IS: 3025 (P- 55)	<0.01	mg/l	0.03	0.2
2.	Total Ammonia	IS: 3025 (P- 34)	<0.10	mg/l	0.5	No Relaxation
3.	Anionic Detergents (as MBAS)	Annex K of IS-13428	<0.10	mg/l	0.2	1.0
4.	Barium (as Ba)	IS: 15302	<0.10	mg/l	0.7	No Relaxation
5.	Boron (as B)	IS: 3025 (P- 57)	<0.10	mg/l	0.5	2.4
6.	Calcium (as Ca)	IS: 3025 (P- 40)	56.40	mg/l	75	200
7.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	<1.00	mg/l	4.0	No Relaxation
8.	Chloride (as Cl)	IS: 3025 (P- 32)	189.0	mg/l	250	1000

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9.	Fluoride (as F)	IS: 3025 (P-60)	0.62	mg/l	1.0	1.5
10.	Free Residual Chlorine	IS: 3025 (P-26)	BDL	mg/l	0.2	1.0
11.	Iron (as Fe)	IS: 3025(P-53)	0.136	mg/l	1.0	No Relaxation
12.	Magnesium (as Mg)	IS: 3025 (P-46)	38.40	mg/l	30	100
13.	Manganese (as Mn)	Clause 35 of IS 3025	BDL	mg/l	0.1	0.3
14.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	5.80	mg/l	45	No Relaxation
15.	Selenium (as Se)	IS: 3025 (P- 56)	BDL	mg/l	0.01	No Relaxation
16.	Silver (as Ag)	Annex J IS: 13428	BDL	mg/l	0.1	No Relaxation
17.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	82.60	mg/l	200	400
18.	Sulphide (as H ₂ S)	IS-3025 (P-29)	BDL	mg/l	0.05	No Relaxation
19.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	280.0	mg/l	200	600
20.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	299.0	mg/l	200	600
21.	Zinc (as Zn)	IS: 3025 (P- 49)	0.142	mg/l	5.0	15
22.	Salinity	APHA- 23 rd Edit.	0.341	ppt	-	-
23.	Phenolic Compound as (C ₆ H ₅ OH)	IS: 3025 (P- 43)	BDL	mg/l	0.001	0.002

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Molybdenum (Mo)	IS-3025(P-2)	<0.05	mg/l	0.07	No Relaxation
6.	Nickel (as Ni)	IS-3025(P-54)	<0.01	mg/l	0.02	No Relaxation
7.	Poly nuclear Aromatic Hydro Carbons	APHA 6440	<0.0001	mg/l	0.0001	No Relaxation
8.	Poly chlorinated biphenyl	APHA 6630	<0.0001	mg/l	0.0005	No Relaxation
9.	Total Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	No Relaxation
10.	Total Chromium (as Cr)	IS-3025(P-52)	<0.05	mg/l	0.05	No Relaxation

BDL: Below Detection limit.

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

Ajali
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AUTHORIZED SIGNATORY



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TEST CERTIFICATE

Issued To: M/s Prabha Energy Private Limited	Report Code : W -200323-010
Address: 4th Floor, Rishabh Complex, Opposite to Gate No. 4 Ashok Nagar (Above Bank of India), Ranchi, Jharkhand - 834002	ULR No. : TC6814230000005260 F
	Test Report of : Ground Water
	Service Request No : NTL/SRF/03/23-015
	Service Request Date : 16/03/2023
	Report Issue Date : 27/03/2023

SAMPLING & ANALYSIS DATA

Sample Drawn By	: NTL Representative
Sample Drawn On	: 18/03/2023
Sample Quantity	: 2.0 lit. + 500 ml.
Sample packing Details	: PVC Cane
Analysis Duration	: 20/03/2023 to 27/03/2023
Location	: Near NK # 3
Sample Description	: Ground Water
Required Test Standard	: IS 10500: 2012

MICROBIOLOGICAL REQUIREMENT RESULT

S.No.	Parameter	Test Method	Results	Requirements as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-15185	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-15185	Absent	Absent/100ml

ORGANOLEPTIC & PHYSICAL PARAMETERS

S.No.	Parameter	Test Method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Colour	IS-3025(P-04)	<1.00	Hazen Unit	5	15
2.	Odour	IS-3025(P-05)	Agreeable	-	Agreeable	Agreeable
3.	Taste	IS-3025(P-07 & 08)	Agreeable	-	Agreeable	-
4.	Turbidity	IS-3025(P-10)	<1.00	NTU	1	5
5.	pH value	IS-3025(P-11)	7.48	-	6.5 – 8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	512.0	mg/l	500	2000

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Aluminium (as Al)	IS: 3025 (P- 55)	<0.01	mg/l	0.03	0.2
2.	Total Ammonia	IS: 3025 (P- 34)	<0.10	mg/l	0.5	No Relaxation
3.	Anionic Detergents (as MBAS)	Annex K of IS-13428	<0.10	mg/l	0.2	1.0
4.	Barium (as Ba)	IS: 15302	<0.10	mg/l	0.7	No Relaxation
5.	Boron (as B)	IS: 3025 (P- 57)	<0.10	mg/l	0.5	2.4
6.	Calcium (as Ca)	IS: 3025 (P- 40)	58.20	mg/l	75	200
7.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	<1.00	mg/l	4.0	No Relaxation
8.	Chloride (as Cl)	IS: 3025 (P- 32)	146.0	mg/l	250	1000

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9.	Fluoride (as F)	IS: 3025 (P-60)	0.60	mg/l	1.0	1.5
10.	Free Residual Chlorine	IS: 3025 (P-26)	BDL	mg/l	0.2	1.0
11.	Iron (as Fe)	IS: 3025(P-53)	0.148	mg/l	1.0	No Relaxation
12.	Magnesium (as Mg)	IS: 3025 (P-46)	26.50	mg/l	30	100
13.	Manganese (as Mn)	Clause 35 of IS 3025	BDL	mg/l	0.1	0.3
14.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	5.60	mg/l	45	No Relaxation
15.	Selenium (as Se)	IS: 3025 (P- 56)	BDL	mg/l	0.01	No Relaxation
16.	Silver (as Ag)	Annex J IS: 13428	BDL	mg/l	0.1	No Relaxation
17.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	72.40	mg/l	200	400
18.	Sulphide (as H ₂ S)	IS-3025 (P-29)	BDL	mg/l	0.05	No Relaxation
19.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	216.0	mg/l	200	600
20.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	255.0	mg/l	200	600
21.	Zinc (as Zn)	IS: 3025 (P- 49)	0.140	mg/l	5.0	15
22.	Salinity	APHA- 23 rd Edit.	0.263	ppt	-	-
23.	Phenolic Compound as (C ₆ H ₅ OH)	IS: 3025 (P- 43)	BDL	mg/l	0.001	0.002

S.No.	Parameter	Test method	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source
1.	Cadmium (as Cd)	IS-3025(P-41)	<0.001	mg/l	0.003	No Relaxation
2.	Cyanide (as CN)	IS-3025(P-27)	<0.01	mg/l	0.05	No Relaxation
3.	Lead (as Pb)	IS-3025(P-47)	<0.01	mg/l	0.01	No Relaxation
4.	Mercury (as Hg)	IS-3025(P-48)	<0.001	mg/l	0.001	No Relaxation
5.	Molybdenum (Mo)	IS-3025(P-2)	<0.05	mg/l	0.07	No Relaxation
6.	Nickel (as Ni)	IS-3025(P-54)	<0.01	mg/l	0.02	No Relaxation
7.	Poly nuclear Aromatic Hydro Carbons	APHA 6440	<0.0001	mg/l	0.0001	No Relaxation
8.	Poly chlorinated biphenyl	APHA 6630	<0.0001	mg/l	0.0005	No Relaxation
9.	Total Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	No Relaxation
10.	Total Chromium (as Cr)	IS-3025(P-52)	<0.05	mg/l	0.05	No Relaxation

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