



Environmental Monitorings of  
M/s. JSW Energy Limited,  
Toranagallu, Ballari, Karnataka



By  
M/s. Eco Green Solution Systems (P) Ltd,  
Bengaluru.  
NABL Accredited and MOEF&CC Recognition  
Laboratory  
Email: [seenu@egsspl.in](mailto:seenu@egsspl.in)  
[ecogreen@egsspl.in](mailto:ecogreen@egsspl.in)

Environmental Monitoring Reports for  
the month of June 2023

Environmental Monitorings of  
M/s. JSW Energy Limited 860MW  
(2x130MW and 2x300MW-Coal & Gas  
fired) Thermal Power Plant

Toranagallu, Ballari,  
Karnataka.

# Annexure – 1

NABL Accredited and MOEF&CC Recognition  
Laboratory Certificates



# ECO GREEN SOLUTION SYSTEMS PVT LTD

Recognized by Ministry Of Environment & Forests (MOEF)

Govt. Of India, New Delhi, Dt: 25.02.2019 to 24.02.2024

An ISO 9001:2015 & ISO 45001:2018 Certified Company

48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203

Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN: U74140KA2005PTC036991

EGSSPL/A/TF/01/00

## Work Zone- Air Quality Analysis Report

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	6	Samples Particulars	Work Zone Air Quality Monitoring
2	Name of the Location	SBU-1 Store (Coal Preparation Room)	7	Sample Code	WAQ/021
3	Date of Sampling \ Date of Sample Received	19.06.2023/22.06.2023	8	Sample Collected By	Mr. Suresh
4	Date of Analysis Completed / Date of Report	28.06.2023/29.06.2023	9	Monitoring Duration	24hrs 8hrs for CO
5	Monitoring Done By	Eco Green Solution Systems Pvt. Ltd.	10	Report No	EGSSPL/WAQ/021

Instrument Details	PM <sub>2.5</sub> (Fine Particulate Sampler)	PM <sub>10</sub> (Respirable Dust Sampler)
Make/ Model No	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	002	002
Instrument Calibrated Date	25.11.2022	25.11.2022
Instrument Calibration Due Date	24.11.2023	24.11.2023

Sl. No	PARAMETERS	UNIT	Test Method	Limits	RESULT
1	Particulate Matter <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 P-23	NS	492
2	Particulate Matter <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 P-24	NS	85.1
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-02	NS	42.5
4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-06	NS	32.0
5	Carbon Monoxide as CO	µg/m <sup>3</sup>	IS 5182 P-10	NS	385

**BDL:** Below Detection Limit

**N.S:** Not Specified

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

*Tushali*

Reviewed by  
Tushali

Authorized Signatory  
V. Sreenivas



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2	Name of the Location	Service Building Area	7	Sample Code	WAQ/022
3	Date of Sampling \ Date of Sample Received	19.06.2023/22.06.2023	8	Sample Collected By	Mr. Suresh
4	Date of Analysis Completed / Date of Report	28.06.2023/29.06.2023	9	Monitoring Duration	24hrs 8hrs for CO
5	Monitoring Done By	Eco Green Solution Systems Pvt. Ltd.	10	Report No	EGSSPL/WAQ/022

Instrument Details	PM <sub>2.5</sub> (Fine Particulate Sampler)	PM <sub>10</sub> (Respirable Dust Sampler)
Make/ Model No	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	002	002
Instrument Calibrated Date	25.11.2022	25.11.2022
Instrument Calibration Due Date	24.11.2023	24.11.2023

Sl. No	PARAMETERS	UNIT	Test Method	Limits	RESULT
1	Particulate Matter <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 P-23	NS	375
2	Particulate Matter <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 P-24	NS	69.0
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-02	NS	35.9
4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-06	NS	29.8
5	Carbon Monoxide as CO	µg/m <sup>3</sup>	IS 5182 P-10	NS	395

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

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2	Name of the Location	RO Plant Area	7	Sample Code	WAQ/023
3	Date of Sampling \ Date of Sample Received	19.06.2023/22.06.2023	8	Sample Collected By	Mr. Suresh
4	Date of Analysis Completed / Date of Report	28.06.2023/29.06.2023	9	Monitoring Duration	24hrs 8hrs for CO
5	Monitoring Done By	Eco Green Solution Systems Pvt. Ltd.	10	Report No	EGSSPL/WAQ/023

Instrument Details	PM <sub>2.5</sub> (Fine Particulate Sampler)	PM <sub>10</sub> (Respirable Dust Sampler)
Make/ Model No	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	002	002
Instrument Calibrated Date	25.11.2022	25.11.2022
Instrument Calibration Due Date	24.11.2023	24.11.2023

Sl. No	PARAMETERS	UNIT	Test Method	Limits	RESULT
1	Particulate Matter <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 P-23	NS	360
2	Particulate Matter <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 P-24	NS	62.0
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-02	NS	27.8
4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-06	NS	31.5
5	Carbon Monoxide as CO	µg/m <sup>3</sup>	IS 5182 P-10	NS	402

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

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1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	6	Samples Particulars	Work Zone Air Quality Monitoring
2	Name of the Location	OHC-Area	7	Sample Code	WAQ/024
3	Date of Sampling \ Date of Sample Received	19.06.2023/22.06.2023	8	Sample Collected By	Mr. Suresh
4	Date of Analysis Completed / Date of Report	28.06.2023/29.06.2023	9	Monitoring Duration	24hrs 8hrs for CO
5	Monitoring Done By	Eco Green Solution Systems Pvt. Ltd.	10	Report No	EGSSPL/WAQ/024

Instrument Details	PM <sub>2.5</sub> (Fine Particulate Sampler)	PM <sub>10</sub> (Respirable Dust Sampler)
Make/ Model No	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	002	002
Instrument Calibrated Date	25.11.2022	25.11.2022
Instrument Calibration Due Date	24.11.2023	24.11.2023

Sl. No	PARAMETERS	UNIT	Test Method	Limits	RESULT
1	Particulate Matter <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 P-23	NS	382
2	Particulate Matter <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 P-24	NS	67.2
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-02	NS	22.0
4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-06	NS	34.9
5	Carbon Monoxide as CO	µg/m <sup>3</sup>	IS 5182 P-10	NS	391

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

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EGSSPL/A/TF/01/00

## Work Zone- Air Quality Analysis Report

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	6	Samples Particulars	Work Zone Air Quality Monitoring
2	Name of the Location	Service Building Area	7	Sample Code	WAQ/025
3	Date of Sampling \ Date of Sample Received	19.06.2023/22.06.2023	8	Sample Collected By	Mr. Suresh
4	Date of Analysis Completed \ Date of Report	28.06.2023/29.06.2023	9	Monitoring Duration	24 hrs
5	Monitoring Done By	Eco Green Solution Systems Pvt. Ltd.	10	Report No	EGSSPL/WAQ/025

Instrument Details	PM <sub>2.5</sub> (Fine Particulate Sampler)	PM <sub>10</sub> (Respirable Dust Sampler)
Make/ Model No	Eco Green Instruments/ EGSS-007	Eco Green Instruments/ EGSS-NL-011
Sl. No	002	002
Instrument Calibrated Date	25.11.2022	25.11.2022
Instrument Calibration Due Date	24.11.2023	24.11.2023

Sl. No	PARAMETERS	UNIT	Test Method	Limits	RESULT
1	Particulate Matter <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 P-23	NS	365
2	Particulate Matter <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 P-24	NS	65.4
3	Sulphur Dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-02	NS	32.0
4	Nitrogen Dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 P-06	NS	28.9
5	Ammonia as NH <sub>3</sub>	µg/m <sup>3</sup>	IS 5182 P-25	NS	6.9
6	Lead as Pb	µg/m <sup>3</sup>	IS 5182 P-06	NS	<0.1
7	Nickel as Ni	µg/m <sup>3</sup>	IS 5182 P-06	NS	<10.0
8	Ozone as O <sub>3</sub>	µg/m <sup>3</sup>	IS 5182 P-06	NS	7.1
9	Carbon Monoxide as CO	µg/m <sup>3</sup>	IS 5182 P-10	NS	392
10	Benzene	µg/m <sup>3</sup>	IS 5182 P-11	NS	<2.5
11	Benzo(a)pyrene	ng/m <sup>3</sup>	IS 5182 P-12	NS	<1.0
12	Arsenic as As	ng/m <sup>3</sup>	IS 5182 P-25	NS	<2.0
13	Hydrogen Sulphide	µg/m <sup>3</sup>	IS 5182 P-07	NS	<0.01

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

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CIN NO: U74140KA2005PTC036991

EGSSPL/TF/09/01

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	8	Sample Collected On	19.06.2023
2	Sample Description	Drinking Water - Service Building 1 <sup>st</sup> Floor	9	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	10	Sample RC No	492
4	Date of Analysis Completed	30.06.2023	11	Sample Code No	EGSSPL/770
5	Date of Report/ Report No	01.07.2023/EGSSPL/770	12	Quantity of Sample Received	2Ltrs
6	Sampling Methodology	IS 3025:PART-1:1987-RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
25	Colour	<5	5	15	IS 3025:Part-11:1983 (Reaffirmed-2022)
26	Arsenic as As, mg/L	BDL	0.2		APHA 23 <sup>rd</sup> Edition:2017-3111 B
27	Mercury as Hg, mg/L	BDL	-		IS 3025:Part-48:1993 (Reaffirmed-2019)
28	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH, mg/L	Absent	0.001	0.002	IS 3025:Part-43:1993 (Reaffirmed-2019)
29	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex-K of IS 13428:2005
30	Aluminium as Al, mg/L	BDL	0.03	0.2	APHA 23 <sup>rd</sup> Edition:2017-3111 B
31	Selenium as Se, mg/L	BDL	0.01	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
32	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-4500-CN B
33	Manganese as Mn, mg/L	BDL	-	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B

Note: Sample drawn by us

BDL: Below Detection Limit

\*\*End of Report\*\*

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*S. Asokan*

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S. Asokan



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2	Sample Description	Drinking Water - Service Building 1 <sup>st</sup> Floor	9	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	10	Sample RC No	492
4	Date of Analysis Completed	30.06.2023	11	Sample Code No	EGSSPL/770
5	Date of Report/ Report No	01.07.2023/EGSSPL/770	12	Quantity of Sample Received	2Ltrs
6	Sampling Methodology	IS 3025:PART-1:1987-RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
1	Taste	Agreeable	Agreeable	Agreeable	IS 3025:Part-8:1984 (Reaffirmed-2017)
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025:Part-5:1984 (Reaffirmed-2017)
3	pH @26.2°C	7.25	6.5 - 8.5	No Relaxation	IS 3025:Part-11:1983 (Reaffirmed-2022)
4	Total Dissolved Solids, mg/L	190	500	2000	IS 3025:Part-16:1984 (Reaffirmed-2017)
5	Turbidity as NTU	0.6	1	5	IS 3025:Part-10:1984 (Reaffirmed-2017)
6	Total Hardness as CaCO <sub>3</sub> , mg/L	75	200	600	IS 3025:Part-21: (Reaffirmed-2019)
7	Calcium as Ca, mg/L	28	75	200	IS 3025:Part-40:1991 (Reaffirmed-2019)
8	Magnesium as Mg, mg/L	1	30	100	IS 3025:Part-46:1994 (Reaffirmed-2019)
9	Copper as Cu, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
10	Chlorides as Cl, mg/L	18	250	1000	IS 3025:Part-32:1988 (Reaffirmed-2019)
11	Iron as Fe, mg/L	0.1	0.3	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
12	Zinc as Zn, mg/L	BDL	5.0	15	APHA 23 <sup>rd</sup> Edition:2017-3111 B
13	Lead as Pb, mg/L	BDL	0.01	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
14	Cadmium as Cd, mg/L	BDL	0.003	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
15	Total Alkalinity as CaCO <sub>3</sub> , mg/L	50	200	600	IS 3025:Part-23:1986 (Reaffirmed-2019)
16	Sulphates, mg/L	5	200	400	APHA 23 <sup>rd</sup> Edition:2017 4500-SO <sub>4</sub> <sup>2-</sup> E
17	Chromium as Cr, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
18	Nitrate as NO <sub>3</sub> , mg/L	BDL	45	No Relaxation	IS 3025:Part-34:1988 (Reaffirmed-2019)
19	Fluorides as F, mg/L	0.1	1.0	1.5	APHA 23 <sup>rd</sup> Edition:2017 4500-F- D
20	Ammonia as NH <sub>3</sub> , mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-NH <sub>3</sub>
21	Boron as B, mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-B
22	Residual Free Chlorine, mg/L	<0.2	0.2	1.0	IS 3025:Part-26:1986 (Reaffirmed-2019)
23	Fecal Coliform, MPN/100ml	Absent	Shall not be detectable in 100ml Sample		APHA 23 <sup>rd</sup> Edition:2017(9221B)
24	E.Coli, CFU/100ml	Absent	Shall not be detectable in 100ml Sample		IS:15185

**Note:** Sample drawn by us

**BDL:** Below Detection Limit

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CIN NO: U74140KA2005PTC036991  
EGSSPL/TF/09/01

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	8	Sample Collected On	19.06.2023
2	Sample Description	Drinking Water - RO Store	9	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	10	Sample RC No	493
4	Date of Analysis Completed	30.06.2023	11	Sample Code No	EGSSPL/771
5	Date of Report/ Report No	01.07.2023/EGSSPL/771	12	Quantity of Sample Received	2Ltrs
6	Sampling Methodology	IS 3025:PART-1:1987-RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
25	Color	<5	5	15	IS 3025:Part-11:1983 (Reaffirmed-2022)
26	Arsenic as As, mg/L	BDL	0.2	-	APHA 23 <sup>rd</sup> Edition:2017-3111 B
27	Mercury as Hg, mg/L	BDL	-	-	IS 3025:Part-48:1993 (Reaffirmed-2019)
28	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH, mg/L	Absent	0.001	0.002	IS 3025:Part-43:1993 (Reaffirmed-2019)
29	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex-K of IS 13428:2005
30	Aluminium as Al, mg/L	BDL	0.03	0.2	APHA 23 <sup>rd</sup> Edition:2017-3111 B
31	Selenium as Se, mg/L	BDL	0.01	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
32	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-4500-CN B
33	Manganese as Mn, mg/L	BDL	-	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B

**Note:** Sample drawn by us

**BDL:** Below Detection Limit

\*\*End of Report\*\*

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Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

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4	Date of Analysis Completed	30.06.2023	11	Sample Code No	EGSSPL/771
5	Date of Report/ Report No	01.07.2023/EGSSPL/771	12	Quantity of Sample Received	2Ltrs
6	Sampling Methodology	IS 3025:PART-1:1987-RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
1	Taste	Agreeable	Agreeable	Agreeable	IS 3025:Part-8:1984 (Reaffirmed-2017)
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025:Part-5:1984 (Reaffirmed-2017)
3	pH @26.7°C	7.40	6.5-8.5	No Relaxation	IS 3025:Part-11:1983 (Reaffirmed-2022)
4	Total Dissolved Solids, mg/L	171	500	2000	IS 3025:Part-16:1984 (Reaffirmed-2017)
5	Turbidity as NTU	BDL	1	5	IS 3025:Part-10:1984 (Reaffirmed-2017)
6	Total Hardness as CaCO <sub>3</sub> , mg/L	68	200	600	IS 3025:Part-21: (Reaffirmed-2019)
7	Calcium as Ca, mg/L	20	75	200	IS 3025:Part-40:1991 (Reaffirmed-2019)
8	Magnesium as Mg, mg/L	4	30	100	IS 3025:Part-46:1994 (Reaffirmed-2019)
9	Copper as Cu, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
10	Chlorides as Cl, mg/L	18	250	1000	IS 3025:Part-32:1988 (Reaffirmed-2019)
11	Iron as Fe, mg/L	0.1	0.3	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
12	Zinc as Zn, mg/L	BDL	5.0	15	APHA 23 <sup>rd</sup> Edition:2017-3111 B
13	Lead as Pb, mg/L	BDL	0.01	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
14	Cadmium as Cd, mg/L	BDL	0.003	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
15	Total Alkalinity as CaCO <sub>3</sub> , mg/L	35	200	600	IS 3025:Part-23:1986 (Reaffirmed-2019)
16	Sulphates, mg/L	4	200	400	APHA 23 <sup>rd</sup> Edition:2017 4500-SO <sub>4</sub> <sup>2-</sup> E
17	Chromium as Cr, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
18	Nitrate as NO <sub>3</sub> , mg/L	BDL	45	No Relaxation	IS 3025:Part-34:1988 (Reaffirmed-2019)
19	Fluorides as F, mg/L	0.1	1.0	1.5	APHA 23 <sup>rd</sup> Edition:2017 4500-F D
20	Ammonia as NH <sub>3</sub> , mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-NH <sub>3</sub>
21	Boron as B, mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-B
22	Residual Free Chlorine, mg/L	<0.2	0.2	1.0	IS 3025:Part-26:1986 (Reaffirmed-2019)
23	Fecal Coliform, MPN/100ml	Absent	Shall not be detectable in 100ml Sample		APHA 23 <sup>rd</sup> Edition:2017(9221B)
24	E.Coli, CFU/100ml	Absent	Shall not be detectable in 100ml Sample		IS:15185

Note: Sample drawn by us

BDL: Below Detection Limit

*Tushali*

Reviewed by  
Tushali

*S. Asokan*

Authorized Signatory  
S. Asokan



# ECO GREEN SOLUTION SYSTEMS PVT LTD

Recognized by Ministry Of Environment & Forests (MOEF)

Govt. Of India, New Delhi, Dt: 25.02.2019 to 24.02.2024

An ISO 9001:2015 & ISO 45001:2018 Certified Company

48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203

Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991

EGSSPL/TF/09/01

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	8	Sample Collected On	19.06.2023
2	Sample Description	Drinking Water - Employee Canteen	9	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	10	Sample RC No	494
4	Date of Analysis Completed	30.06.2023	11	Sample Code No	EGSSPL/772
5	Date of Report/ Report No	01.07.2023/EGSSPL/772	12	Quantity of Sample Received	2Ltrs
6	Sampling Methodology	IS 3025:PART-1:1987-RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
25	Color	<5	5	15	IS 3025:Part-11:1983 (Reaffirmed-2022)
26	Arsenic as As, mg/L	BDL	0.2		APHA 23 <sup>rd</sup> Edition:2017-3111 B
27	Mercury as Hg, mg/L	BDL	-		IS 3025:Part-48:1993 (Reaffirmed-2019)
28	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH, mg/L	Absent	0.001	0.002	IS 3025:Part-43:1993 (Reaffirmed-2019)
29	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex-K of IS 13428:2005
30	Aluminium as Al, mg/L	BDL	0.03	0.2	APHA 23 <sup>rd</sup> Edition:2017-3111 B
31	Selenium as Se, mg/L	BDL	0.01	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
32	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-4500-CN B
33	Manganese as Mn, mg/L	BDL	-	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B

Note: Sample drawn by us

BDL: Below Detection Limit

\*\* End of Report\*\*

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6	Sampling Methodology	IS 3025:PART-1:1987-RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
1	Taste	Agreeable	Agreeable	Agreeable	IS 3025:Part-8:1984 (Reaffirmed-2017)
2	Odor	Agreeable	Agreeable	Agreeable	IS 3025:Part-5:1984 (Reaffirmed-2017)
3	pH @26.6°C	7.28	6.5-8.5	No Relaxation	IS 3025:Part-11:1983 (Reaffirmed-2022)
4	Total Dissolved Solids, mg/L	180	500	2000	IS 3025:Part-16:1984 (Reaffirmed-2017)
5	Turbidity as NTU	BDL	1	5	IS 3025:Part-10:1984 (Reaffirmed-2017)
6	Total Hardness as CaCO <sub>3</sub> , mg/L	62	200	600	IS 3025:Part-21: (Reaffirmed-2019)
7	Calcium as Ca, mg/L	20	75	200	IS 3025:Part-40:1991 (Reaffirmed-2019)
8	Magnesium as Mg, mg/L	2.4	30	100	IS 3025:Part-46:1994 (Reaffirmed-2019)
9	Copper as Cu, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
10	Chlorides as Cl, mg/L	22	250	1000	IS 3025:Part-32:1988 (Reaffirmed-2019)
11	Iron as Fe, mg/L	0.1	0.3	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
12	Zinc as Zn, mg/L	BDL	5.0	15	APHA 23 <sup>rd</sup> Edition:2017-3111 B
13	Lead as Pb, mg/L	BDL	0.01	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
14	Cadmium as Cd, mg/L	BDL	0.003	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
15	Total Alkalinity as CaCO <sub>3</sub> , mg/L	42	200	600	IS 3025:Part-23:1986 (Reaffirmed-2019)
16	Sulphates, mg/L	6	200	400	APHA 23 <sup>rd</sup> Edition:2017 4500-SO <sub>4</sub> <sup>2-</sup> E
17	Chromium as Cr, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
18	Nitrate as NO <sub>3</sub> , mg/L	BDL	45	No Relaxation	IS 3025:Part-34:1988 (Reaffirmed-2019)
19	Fluorides as F, mg/L	0.1	1.0	1.5	APHA 23 <sup>rd</sup> Edition:2017 4500-F <sup>-</sup> D
20	Ammonia as NH <sub>3</sub> , mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-NH <sub>3</sub>
21	Boron as B, mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-B
22	Residual Free Chlorine, mg/L	<0.2	0.2	1.0	IS 3025:Part-26:1986 (Reaffirmed-2019)
23	Fecal Coliform, MPN/100ml	Absent	Shall not be detectable in 100ml Sample		APHA 23 <sup>rd</sup> Edition:2017(9221B)
24	E.Coli, CFU/100ml	Absent	Shall not be detectable in 100ml Sample		IS:15185

Note: Sample drawn by us

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Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991  
EGSSPL/TF/09/01

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist.Bellary-583123, Karnataka. India.	8	Sample Collected On	19.06.2023
2	Sample Description	Drinking Water – OHC - RO	9	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	10	Sample RC No	495
4	Date of Analysis Completed	30.06.2023	11	Sample Code No	EGSSPL/773
5	Date of Report/ Report No	01.07.2023/EGSSPL/773	12	Quantity of Sample Received	2Ltrs
6	Sampling Methodology	IS 3025:PART-1:1987-RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
25	Colour	<5	5	15	IS 3025:Part-11:1983 (Reaffirmed-2022)
26	Arsenic as As, mg/L	BDL	0.2		APHA 23 <sup>rd</sup> Edition:2017-3111 B
27	Mercury as Hg, mg/L	BDL	-		IS 3025:Part-48:1993 (Reaffirmed-2019)
28	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH,mg/L	Absent	0.001	0.002	IS 3025:Part-43:1993 (Reaffirmed-2019)
29	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex-K of IS 13428:2005
30	Aluminium as Al, mg/L	BDL	0.03	0.2	APHA 23 <sup>rd</sup> Edition:2017-3111 B
31	Selenium as Se, mg/L	BDL	0.01	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
32	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-4500-CN B
33	Manganese as Mn, mg/L	BDL	-	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B

**Note:** Sample drawn by us

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\*\*End of Report\*\*

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7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
1	Taste	Agreeable	Agreeable	Agreeable	IS 3025:Part-8:1984 (Reaffirmed-2017)
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025:Part-5:1984 (Reaffirmed-2017)
3	pH @26.5°C	7.4	6.5-8.5	No Relaxation	IS 3025:Part-11:1983 (Reaffirmed-2022)
4	Total Dissolved Solids, mg/L	185	500	2000	IS 3025:Part-16:1984 (Reaffirmed-2017)
5	Turbidity as NTU	BDL	1	5	IS 3025:Part-10:1984 (Reaffirmed-2017)
6	Total Hardness as CaCO <sub>3</sub> , mg/L	58	200	600	IS 3025:Part-21: (Reaffirmed-2019)
7	Calcium as Ca, mg/L	20	75	200	IS 3025:Part-40:1991 (Reaffirmed-2019)
8	Magnesium as Mg, mg/L	2.0	30	100	IS 3025:Part-46:1994 (Reaffirmed-2019)
9	Copper as Cu, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
10	Chlorides as Cl, mg/L	22	250	1000	IS 3025:Part-32:1988 (Reaffirmed-2019)
11	Iron as Fe, mg/L	BDL	0.3	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
12	Zinc as Zn, mg/L	BDL	5.0	15	APHA 23 <sup>rd</sup> Edition:2017-3111 B
13	Lead as Pb, mg/L	BDL	0.01	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
14	Cadmium as Cd, mg/L	BDL	0.003	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
15	Total Alkalinity as CaCO <sub>3</sub> , mg/L	40	200	600	IS 3025:Part-23:1986 (Reaffirmed-2019)
16	Sulphates, mg/L	4.5	200	400	APHA 23 <sup>rd</sup> Edition:2017 4500-SO <sub>4</sub> <sup>2-</sup> E
17	Chromium as Cr, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
18	Nitrate as NO <sub>3</sub> , mg/L	BDL	45	No Relaxation	IS 3025:Part-34:1988 (Reaffirmed-2019)
19	Fluorides as F, mg/L	0.1	1.0	1.5	APHA 23 <sup>rd</sup> Edition:2017 4500-F <sup>-</sup> D
20	Ammonia as NH <sub>3</sub> , mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-NH <sub>3</sub>
21	Boron as B, mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-B
22	Residual Free Chlorine, mg/L	<0.2	0.2	1.0	IS 3025:Part-26:1986 (Reaffirmed-2019)
23	Fecal Coliform, MPN/100ml	Absent	Shall not be detectable in 100ml Sample		APHA 23 <sup>rd</sup> Edition:2017(9221B)
24	E.Coli, CFU/100ml	Absent	Shall not be detectable in 100ml Sample		IS:15185

Note: Sample drawn by us

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## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	8	Sample Collected On	19.06.2023
2	Sample Description	Drinking Water - Associates Canteen	9	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	10	Sample RC No	496
4	Date of Analysis Completed	30.06.2023	11	Sample Code No	EGSSPL/774
5	Date of Report/ Report No	01.07.2023/EGSSPL/774	12	Quantity of Sample Received	2Ltrs
6	Sampling Methodology	IS 3025:PART-1:1987 - RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
25	Color	<5	5	15	IS 3025:Part-11:1983 (Reaffirmed-2022)
26	Arsenic as As, mg/L	BDL	0.2		APHA 23 <sup>rd</sup> Edition:2017-3111 B
27	Mercury as Hg, mg/L	BDL	-		IS 3025:Part-48:1993 (Reaffirmed-2019)
28	Phenolic compound as C <sub>6</sub> H <sub>5</sub> OH, mg/L	Absent	0.001	0.002	IS 3025:Part-43:1993 (Reaffirmed-2019)
29	Anionic detergents as MBAS, mg/L	Absent	0.20	1.0	Annex-K of IS 13428:2005
30	Aluminium as Al, mg/L	BDL	0.03	0.2	APHA 23 <sup>rd</sup> Edition:2017-3111 B
31	Selenium as Se, mg/L	BDL	0.01	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
32	Cyanide as CN, mg/L	Absent	0.05	No relaxation	APHA 23 <sup>rd</sup> Edition:2017-4500-CN B
33	Manganese as Mn, mg/L	BDL	-	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B

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7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
1	Taste	Agreeable	Agreeable	Agreeable	IS 3025:Part-8:1984 (Reaffirmed-2017)
2	Odour	Agreeable	Agreeable	Agreeable	IS 3025:Part-5:1984 (Reaffirmed-2017)
3	pH @26.7°C	7.38	6.5-8.5	No Relaxation	IS 3025:Part-11:1983 (Reaffirmed-2022)
4	Total Dissolved Solids, mg/L	195	500	2000	IS 3025:Part-16:1984 (Reaffirmed-2017)
5	Turbidity as NTU	BDL	1	5	IS 3025:Part-10:1984 (Reaffirmed-2017)
6	Total Hardness as CaCO <sub>3</sub> , mg/L	68	200	600	IS 3025:Part-21: (Reaffirmed-2019)
7	Calcium as Ca, mg/L	23	75	200	IS 3025:Part-40:1991 (Reaffirmed-2019)
8	Magnesium as Mg, mg/L	2.4	30	100	IS 3025:Part-46:1994 (Reaffirmed-2019)
9	Copper as Cu, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
10	Chlorides as Cl, mg/L	20	250	1000	IS 3025:Part-32:1988 (Reaffirmed-2019)
11	Iron as Fe, mg/L	BDL	0.3	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
12	Zinc as Zn, mg/L	BDL	5.0	15	APHA 23 <sup>rd</sup> Edition:2017-3111 B
13	Lead as Pb, mg/L	BDL	0.01	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
14	Cadmium as Cd, mg/L	BDL	0.003	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
15	Total Alkalinity as CaCO <sub>3</sub> , mg/L	48	200	600	IS 3025:Part-23:1986 (Reaffirmed-2019)
16	Sulphates, mg/L	4.5	200	400	APHA 23 <sup>rd</sup> Edition:2017 4500-SO <sub>4</sub> <sup>2-</sup> E
17	Chromium as Cr, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
18	Nitrate as NO <sub>3</sub> , mg/L	BDL	45	No Relaxation	IS 3025:Part-34:1988 (Reaffirmed-2019)
19	Fluorides as F, mg/L	0.1	1.0	1.5	APHA 23 <sup>rd</sup> Edition:2017 4500-F <sup>-</sup> D
20	Ammonia as NH <sub>3</sub> , mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-NH <sub>3</sub>
21	Boron as B, mg/L	BDL	0.5	1.0	APHA 23 <sup>rd</sup> Edition:2017 4500-B
22	Residual Free Chlorine, mg/L	<0.2	0.2	1.0	IS 3025:Part-26:1986 (Reaffirmed-2019)
23	Fecal Coliform, MPN/100ml	Absent	Shall not be detectable in 100ml Sample		APHA 23 <sup>rd</sup> Edition:2017(9221B)
24	E.Coli, CFU/100ml	Absent	Shall not be detectable in 100ml Sample		IS:15185

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Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991

EGSSPL/TF/09/01

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	8	Sample Collected On	19.06.2023
2	Sample Description	Ground Water	9	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	10	Sample RC No	497
4	Date of Analysis Completed	30.06.2023	11	Sample Code No	EGSSPL/775
5	Date of Report/ Report No	01.07.2023/EGSSPL/775	12	Quantity of Sample Received	2Ltrs
6	Sampling Methodology	IS 3025:PART-1:1987-RA 2019	13	Environmental Conditions	Ambient
7	Appearance of Sample	Colorless Liquid	14	Sampling Time	12:25

Sl. No	Parameters	Results	As Per IS 10500:2018)		Test Method
			DL	PL	
1	pH @26.7°C	7.62	6.5-8.5	No Relaxation	IS 3025:Part-11:1983 (Reaffirmed-2022)
2	Total Dissolved Solids, mg/L	991	500	2000	IS 3025:Part-16:1984 (Reaffirmed-2017)
3	Turbidity as NTU	0.5	1	5	IS 3025:Part-10:1984 (Reaffirmed-2017)
4	Total Hardness as CaCO <sub>3</sub> , mg/L	228	200	600	IS 3025:Part-21: (Reaffirmed-2019)
5	Calcium as Ca, mg/L	80	75	200	IS 3025:Part-40:1991 (Reaffirmed-2019)
6	Magnesium as Mg, mg/L	12	30	100	IS 3025:Part-46:1994 (Reaffirmed-2019)
7	Copper as Cu, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
8	Chlorides as Cl, mg/L	188	250	1000	IS 3025:Part-32:1988 (Reaffirmed-2019)
9	Iron as Fe, mg/L	0.1	0.3	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
10	Zinc as Zn, mg/L	BDL	5.0	15	APHA 23 <sup>rd</sup> Edition:2017-3111 B
11	Lead as Pb, mg/L	BDL	0.01	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
12	Cadmium as Cd, mg/L	BDL	0.003	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
13	Sodium as Na, mg/L	105	-	-	IS 3025:Part-45:1993 (Reaffirmed-2019)
14	Potassium as K, mg/L	27	-	-	IS 3025:Part-45:1993 (Reaffirmed-2019)
15	Sulphates, mg/L	52	200	400	APHA 23 <sup>rd</sup> Edition:2017 4500-SO <sub>4</sub> <sup>2-</sup> E
16	Chromium as Cr, mg/L	BDL	0.05	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
17	Nitrate as NO <sub>3</sub> , mg/L	1.7	45	No Relaxation	IS 3025:Part-34:1988 (Reaffirmed-2019)
18	Nitrite as NO <sub>2</sub> , mg/L	BDL	-	No Relaxation	IS 3025:Part-34:1988 (Reaffirmed-2019)
19	Fluorides as F, mg/L	0.3	1.0	1.5	APHA 23 <sup>rd</sup> Edition:2017 4500-F <sup>-</sup> D
20	Manganese as Mn, mg/L	BDL	-	No Relaxation	APHA 23 <sup>rd</sup> Edition:2017-3111 B
21	Arsenic as As, mg/L	BDL	-	0.2	APHA 23 <sup>rd</sup> Edition:2017-3111 B
22	Mercury as Hg, mg/L	BDL	-	-	IS 3025:Part-48:1993 (Reaffirmed-2019)

Note: Sample drawn by us

BDL: Below Detection Limit

\*\*End of Report\*\*

*Tushali*

Reviewed by  
Tushali

*S. Asokan*

Authorized Signatory  
S. Asokan



# ECO GREEN SOLUTION SYSTEMS PVT LTD

Recognized by Ministry Of Environment & Forests (MOEF)

Govt. Of India, New Delhi, Dt: 25.02.2019 to 24.02.2024

An ISO 9001:2015 & ISO 45001:2018 Certified Company

48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203

Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991

EGSSPL/TF/09/01

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	7	Sample Collected On	19.06.2023
2	Sample Source/Type	STP - 1 Outlet Water	8	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	9	Sample RC No	498
4	Date of Analysis Completed/Date of Report	30.06.2023/01.07.2023	10	Sample Code No	EGSSPL/776
5	Report No	EGSSPL/776	11	Quantity of Sample Received	2Ltrs
6	Appearance of Sample	Turbid solution	12	Sample Particulars	Sample received in a can

Sl. No	PARAMETERS	Limits	Results	TEST METHOD
1	pH @26.6°C	6.5 - 9.0	7.7	IS 3025:Part-11:1983 (Reaffirmed-2017)
2	Total Suspended Solids, mg/L	Max 10	6	IS 3025:Part-17:1984 (Reaffirmed-2017)
3	Bio-Chemical Oxygen Demand, mg/L (3Days at 27°C)	Max 10	7	IS 3025:Part-44:1993 (Reaffirmed- 2019)
4	Chemical Oxygen Demand, mg/L	Max 50	42	IS 3025:Part-58:2006 (Reaffirmed-2017)
5	Ammoniacal Nitrogen as NH <sub>3</sub> -N, mg/L	Max 5	2.3	APHA 23 <sup>rd</sup> Edition:2017: 4500, NH <sub>3</sub> , B,C
6	Fecal Coliforms, MPN/100ml	Max 230	72	APHA 23 <sup>rd</sup> Edition(9221 A,B,C,D,E & F):2017
7	Total Nitrogen, mg/L	Max 10	2.8	IS 3025:Part-34:1988 (Reaffirmed-2019)
8	Phosphate PO <sub>4</sub> as P, mg/L	Max 2	0.4	IS 3025:Part-31:1988 (Reaffirmed-2019)

**Note:** Sample drawn by us.

\*\*End of Report\*\*

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CIN NO: U74140KA2005PTC036991

EGSSPL/TF/09/01

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	7	Sample Collected On	19.06.2023
2	Sample Source/Type	STP -2 Outlet Water	8	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	9	Sample RC No	498
4	Date of Analysis Completed/Date of Report	30.06.2023/01.07.2023	10	Sample Code No	EGSSPL/777
5	Report No	EGSSPL/777	11	Quantity of Sample Received	2Ltrs
6	Appearance of Sample	Colorless Liquid	12	Sample Particulars	Sample received in a can

Sl. No	Parameters	Results	Tolerance Limits	Test Method
1	pH @26.7°C	7.42	6.5 - 9.0	IS 3025:Part-11:1983 (Reaffirmed-2017)
2	Total Nitrogen, mg/L	2.5	10	IS 3025:Part-34:1988 (Reaffirmed-2019)
3	Total Suspended Solids, mg/L	6	10	IS 3025:Part-17:1984 (Reaffirmed-2017)
4	Bio-Chemical Oxygen Demand, mg/L (3Days at 27°C)	5	10	IS 3025:Part-44:1993 (Reaffirmed-2019)
5	Chemical Oxygen Demand, mg/L, Max	35	50	IS 3025:Part-58:2006 (Reaffirmed-2017)
6	Ammoniacal Nitrogen as NH <sub>3</sub> -N, mg/L	BDL	5	APHA 23 <sup>rd</sup> Edition 2017: 4500, NH <sub>3</sub> , B, C
7	Fecal Coliforms, MPN/100ml	38	<230	APHA 23 <sup>rd</sup> Edition (9221 A, B, C, D, E & F): 2017
8	Phosphate PO <sub>4</sub> as P, mg/L	0.2	2	IS 3025:Part-31:1988 (Reaffirmed-2019)

Note: Sample drawn by us.

\*\*End of Report\*\*

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Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN NO: U74140KA2005PTC036991

EGSSPL/TF/09/01

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist.Bellary-583123, Karnataka. India.	7	Sample Collected On	19.06.2023
2	Sample Source/Type	Treated Effluent Water (Guard Pond Inlet)	8	Sample Receipt On	22.06.2023
3	Date of Analysis Start	22.06.2023	9	Sample RC No	499
4	Date of Analysis Completed/Date of Report	30.06.2023/01.07.2023	10	Sample Code No	EGSSPL/778
5	Report No	EGSSPL/778	11	Quantity of Sample Received	2Ltr
6	Appearance of Sample	Colorless Liquid	12	Sample Particulars	Sample received in a can

Sl. No	PARAMETERS	RESULTS	LIMITS	TEST METHOD
1	pH @26.7°C	7.30	6.5 – 8.5	IS 3025:Part-11:1983 (Reaffirmed-2017)
2	Temperature, °C	26.7	-	IS 3025:Part-09:1984 (Reaffirmed-2017)
3	Total Suspended Solids, mg/L	15	100	IS 3025:Part-16:1984 (Reaffirmed-2017)
4	Oil & Grease, mg/L	3	20	IS 3025:Part-39:1991 (Reaffirmed-2019)
5	Calcium as Ca, mg/L	40	-	EGSSPL/SOP/WW/05 (Calculation)
6	Total Chromium as Cr, mg/L	BDL	0.2	APHA 23 <sup>rd</sup> Edition:2017-3111 B
7	Phosphates, mg/L	0.5	5	IS 3025:Part-31:1988 (Reaffirmed-2019)
8	Copper as Cu, mg/L	BDL	<1.0	APHA 23 <sup>rd</sup> Edition:2017-3111 B
9	Total Residual Chlorine, mg/L	BDL	0.5	IS 3025:Part-26:1986 (Reaffirmed-2019)
10	Zinc as Zn, mg/L	0.1	<1.0	APHA 23 <sup>rd</sup> Edition:2017-3111 B
11	Lead as Pb, mg/L	BDL	-	APHA 23 <sup>rd</sup> Edition:2017-3111 B
12	Iron as Fe, mg/L	BDL	<1.0	APHA 23 <sup>rd</sup> Edition:2017-3111 B
13	Nickel as Ni, mg/L	BDL	-	APHA 23 <sup>rd</sup> Edition:2017-3111 B
14	Chlorides as Cl, mg/L	288	-	IS 3025:Part-32:1988 (Reaffirmed-2019)
15	Cadmium as Cd, mg/L	BDL	-	APHA 23 <sup>rd</sup> Edition:2017-3111 B
16	Colour, Hazen	<5	-	IS 3025:Part-4:1993 (Reaffirmed-2019)
17	Particle size of suspended solids, µm	<1.2	-	IS 3025:Part-17:1993 (Reaffirmed-2019)
18	Cyanide as CN, mg/L	BDL	-	APHA 23 <sup>rd</sup> Edition: 2017 4500-CN- E
19	Arsenic as As, mg/L	BDL	-	APHA 23 <sup>rd</sup> Edition:2017-3111 B
20	Aluminum as Al, mg/L	BDL	-	APHA 23 <sup>rd</sup> Edition:2017-3111 B
21	Mercury as Hg, mg/L	BDL	-	IS 3025:Part-48:1993 (Reaffirmed-2019)
22	Manganese as Mn, mg/L	BDL	-	APHA 23 <sup>rd</sup> Edition:2017-3111 B

Note: Sample drawn by us.

BDL: Below Detection Limit

\*\*End of Report\*\*

*Tushali*

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# ECO GREEN SOLUTION SYSTEMS PVT LTD

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48/A-4, KIADB Industrial Area, Doddaballapur, Bengaluru-561203  
Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN: U74140KA2005PTC036991  
EGSSPL/TF/09/01

## AMBIENT NOISE LEVEL MONITORING REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist. Bellary-583123, Karnataka. India.	6	Sample Collected On	19.06.2023
2	Date of Data Downloaded	23.06.2023	7	Sample Receipt On	22.06.2023
3	Report No	EGSSPL/EN-005/23-24	8	Sampling Methodology	IS 9989-1981 (Reaffirmed-2014)
4	Sample Collected By	M/S. Eco Green Solution Systems Pvt. Ltd. 48/A-4, KIADB Industrial Area, Veerapura Post, Doddaballapura, Bengaluru-561203	9	Sample Code No	EN-005/23-24
5	Particulars of the Instrument Used	Sound Level Meter	10	Environmental Conditions	Normal

Instrument Details	Sound Level Meter
Make/ Model No	Baseline Technologies/2511
Sl. No	A0118-1679
Instrument Calibrated Date	25/07/2022
Instrument Calibration Due Date	24/07/2023

### Results

Sl. No	Monitored Location	Results			Limits dB(A)
		Min	Max	Leq in dB (A)	
<b>Noise Monitoring (Day Time)</b>					
1	Near MSDS Power Gate (South Side Boundary)	60.1	80.1	70.1	75
2	Near DM Plant WTP (South West Boundary)	61.2	81.0	71.1	
3	Near Power Drive Gate (West Side Boundary)	60.9	79.8	70.8	
4	Near Associate Office Gate (North West Boundary)	61.5	82.0	71.5	
5	Near Coal Yard Gate (East Side Boundary)	62.0	82.5	72.5	
6	Near Main Gate (North Boundary)	61.9	83.1	72.4	
<b>Noise Monitoring ( Night time)</b>					
1	Near MSDS Power Gate (South Side Boundary)	51.2	78.5	65.3	70
2	Near DM Plant WTP (South West Boundary)	50.1	79.8	65.1	
3	Near Power Drive Gate (West Side Boundary)	50.5	80.5	65.5	
4	Near Associate Office Gate (North West Boundary)	51.2	82.6	65.7	
5	Near Coal Yard Gate (East Side Boundary)	50.9	84.0	67.1	
6	Near Main Gate (North Boundary)	51.0	81.5	66.5	

**Note:** 1. All readings are taken at a distance of 1mtr from the location  
2. Noise

\*\*End of Report\*\*

*Tushali*

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V. Sreenivas



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CIN: U74140KA2005PTC036991

EGSSPL/A/TF/01/00

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist.Bellary-583123, Karnataka. India.	8	Sample Collected On	19.06.2023
2	Stack Location	SBU - I (Unit-1 & Unit-2)	9	Sample Receipt On	22.06.2023
3	Date of Analysis Completed/Date of Report	26.06.2023/27.06.2023	10	Sample Code No	SE-013
4	Sampling Methodology	IS:11255 (Part-3):2008 (Reaffirmed 2018)	11	Environmental Conditions	Ambient
5	Report No	EGSSPL/SE/013/23-24	12	Sample Collected By	Mr. Suresh
6	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyzer	13	Instrument S.No/Model	08-DTI-2015/ EGSS-009 & FGA-53X
7	Instrument Calibrated Date	25.11.2022 & 30.08.2022	14	Instruments Calibration Due Date	24.11.2023 & 29.08.2023

## DATA COLLECTED DETAILS

Sl. No	Parameter	UoM	Result	
			SBU-1 U-1 Stack	SBU-1 U-2 Stack
1	Duct diameter	m	6.85	6.85
2	Area of the Duct.	m <sup>2</sup>	36.85	36.85
3	Stack Gas Temperature	°C	138	141
4	Stack Gas Velocity	m/s	5.5	5.6

Sl. No	Parameters	Unit	Results		Protocol
			SBU-1 U-1 Stack	SBU-1 U-2 Stack	
1	Particulate Matter as PM	mg/Nm <sup>3</sup>	68.5	63.2	IS:11255 (Part-1) 1985 (Reaffirmed 2019)
2	Sulphur dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	375	380	EGSSPL/ST/SOP/FGA/001
3	Oxides of Nitrogen as NO <sub>x</sub>	mg/Nm <sup>3</sup>	465	455	EGSSPL/ST/SOP/FGA/002
4	Flow of exit gas at STP(Gas Volume)	Nm <sup>3</sup> /Hr	468630	485420	IS:11255 (Part-3)2008 (Reaffirmed 2018)
5	Carbon monoxide as CO	PPM	7.1	7.3	EGSSPL/ST/SOP/FGA/001
6	Carbon dioxide as CO <sub>2</sub>	%	13.0	12.9	EGSSPL/ST/SOP/FGA/002
7	Oxygen as O <sub>2</sub>	%	5.6	5.7	EGSSPL/ST/SOP/FGA/003
8	Moisture	%	2.4	2.3	IS:11255 (Part-3)2008 (Reaffirmed 2018)

\*\*\*End of report\*\*\*

*Tushali*

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V. Sreenivas





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Tel: 080-27630563, E-mail: lab@egsspl.in, ecogreen@egsspl.in

CIN: U74140KA2005PTC036991  
EGSSPL/A/TF/01/00

## TEST REPORT

1	Customer Name & Address	M/S. JSW Energy Limited., PO. Box 09 Po & Village: Toranagallu, Taluka: Sandur, Dist.Bellary-583123, Karnataka. India.	8	Sample Collected On	19.06.2023
2	Stack Location	SBU-II (Unit-1)	9	Sample Receipt On	22.06.2023
3	Date of Analysis Completed/Date of Report	26.06.2023/27.06.2023	10	Sample Code No	SE-015
4	Sampling Methodology	IS:11255 (Part-3):2008 (Reaffirmed 2018)	11	Environmental Conditions	Ambient
5	Report No	EGSSPL/SE/015/23-24	12	Sample Collected By	Mr. Suresh
6	Particulars of the Instrument Used	Stack Monitoring Kit & Flue Gas Analyzer	13	Instrument S.No/Model	08-DTI-2015/ EGSS-009 & FGA-53X
7	Instrument Calibrated Date	25.11.2022 & 30.08.2022	14	Instruments Calibration Due Date	24.11.2023 & 29.08.2023

## DATA COLLECTED DETAILS

Sl. No	Parameter	UoM	Result
1	Duct diameter	m	5.17
2	Area of the Duct.	m <sup>2</sup>	20.98
3	Stack Gas Temperature	°C	151
4	Stack Gas Velocity	m/s	7.7

Sl.No	Parameters	Unit	Results	Protocol
1	Particulate Matter as PM	mg/Nm <sup>3</sup>	68.5	IS:11255 (Part-1) 1985 (Reaffirmed 2019)
2	Sulphur dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	558	EGSSPL/ST/SOP/FGA/001
3	Oxides of Nitrogen as NO <sub>x</sub>	mg/Nm <sup>3</sup>	459	EGSSPL/ST/SOP/FGA/002
4	Flow of exit gas at STP(Gas Volume)	Nm <sup>3</sup> /Hr	573845	IS:11255 (Part-3)2008 (Reaffirmed 2018)
5	Carbon monoxide as CO	PPM	7.1	EGSSPL/ST/SOP/FGA/001
6	Carbon dioxide as CO <sub>2</sub>	%	13.1	EGSSPL/ST/SOP/FGA/002
7	Oxygen as O <sub>2</sub>	%	6.7	EGSSPL/ST/SOP/FGA/003
8	Moisture	%	3.1	IS:11255 (Part-3)2008 (Reaffirmed 2018)

\*\*\*End of report\*\*\*

*Tushali*

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