



Eco Care



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Specialised House on Environmental Monitoring, Analysis, Assessment & Management
ISO 9001 : 2015 Certified, OHSAS 18001:2007 Certified

E-mail : ecocareasansol@rediffmail.com
Manoj Talkies Basement, Kumarpur
ASANSOL-713304 (W.B.)

TEST REPORT

Report Release Date : 22.03.2018	Sample Ref. No.(ARF) : EC/ARF/29/180355
Test Report No : EC/TR/42/03267	Source of Sample : Store & Dispatch of Petroleum Oil
Type of Sample : Suspended Dust & Gases	Sampling Date : 12.03.18 to 13.03.18
Sample Collected by : Mr. Ranjeet Yadav & Team	Period of Analysis : 14.03.18 to 15.03.18
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : Indian Oil Corporation Ltd (MD) (Jasidih Terminal) DGM (T), Jasidih Industrial Area Jasidih – 814142, Deoghar, Jharkhand	Remarks : ----
	Sample Drawn By : ECO CARE
	Deviation if any : None

METEOROLOGICAL INFORMATION

1	Average Temperature	29.6 °C	2	Barometric Pressure	748 mm Hg
3	Average Relative Humidity	43.4 %	4	Weather Condition	Clear Day

AMBIENT AIR QUALITY ANALYSIS REPORT

TEST METHOD	IS : 5182 (Part – 2)	IS : 5182 (Part – 6)	IS : 5182 (Part – 23)	EPA CFR40(50), Appendix 1
PARAMETERS	SO ₂ (µg/M ³)	NO _x (µg/M ³)	PM < 10 micron (µg/M ³)	PM-2.5 (µg/M ³)
Method Detection Limit	4	6	20	10
NAAQS	80	80	100	60
1. Sampling Location : Near Administrative Building				
Shift - A (10:10 AM To 06:10 PM)	29.38	36.20	67.18	25.28
Shift - B (06:20 PM To 02:10 AM)	20.00	28.54	56.24	
Shift - C (02:20 AM To 10:20 AM)	26.25	33.41	63.39	
Average (Shift - A To Shift - C)	25.21	32.72	62.27	
2. Sampling Location : Near Main Gate				
Shift - A (10:30 AM To 06:30 PM)	32.50	40.37	85.48	29.05
Shift - B (06:40 PM To 02:40 AM)	23.13	32.02	69.35	
Shift - C (02:50 AM To 10:50 AM)	26.25	35.50	77.53	
Average (Shift - A To Shift - C)	27.29	35.96	77.45	
3. Sampling Location : Near Store				
Shift - A (11:05 AM To 07:05 PM)	26.25	38.28	80.96	22.55
Shift - B (07:20 PM To 03:20 AM)	20.00	29.23	59.72	
Shift - C (03:30 AM To 11:30 AM)	23.13	34.11	68.09	
Average (Shift - A To Shift - C)	23.13	33.87	69.59	

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3. The Test report shall not be reproduced, without the written approval of laboratory.


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TEST REPORT

Report Release Date : 22.03.2018	Sample Ref. No.(ARF) : EC/ARF/29/180355
Test Report No : EC/TR/42/03268	Source of Sample : Store & Dispatch of Petroleum Oil Unit
Type of Sample : Suspended Dust & Gases	Sampling Date : 12.03.18 to 13.03.18
Sample Collected by : Mr. Ranjeet Yadav & Team	Period of Analysis : 14.03.18 to 15.03.18
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : Indian Oil Corporation Ltd (MD) (Jasidih Terminal) DGM (T), Jasidih Industrial Area Jasidih – 814142, Deoghar, Jharkhand	Remarks : ---
	Sample Drawn By : ECO CARE
	Deviation if any : None

METEOROLOGICAL INFORMATION

1	Average Temperature	29.6 °C	2	Barometric Pressure	748 mm Hg
3	Average Relative Humidity	43.4 %	4	Weather Condition	Clear Day

VOLATILE ORGANIC COMPOUND IN AMBIENT AIR QUALITY ANALYSIS REPORT

1. Sampling Location : Near MCC Tank Building Tank Farm Area

PARAMETERS	Volatile Organic Compound	
Shift - A (10:00 AM To 06:00 PM)	2.6 ppm	5.0 ppm (as per NAAQS)
Shift - B (06:10 PM To 02:10 AM)	2.4 ppm	
Shift - C (02:20 AM To 10:20 AM)	2.0 ppm	
Average (Shift - A To Shift - C)	2.33 ppm	

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TEST REPORT

Report Release Date	: 22.03.2018	Sample Ref. No.(ARF)	: EC/ARF/29/180355
Test Report No	: EC/TR/42/03269	Source of Sample	: Store & Dispatch of Petroleum Oil
Type of Sample	: Noise	Sampling Date	: 12.03.2018
Sample Collected by	: Mr. Ranjeet Yadav & Team	Period of Analysis	: ---
Sample Details	: Ambient Noise	Sample Condition	: ---
Name & Address	: Indian Oil Corporation Ltd (MD) (Jasidih Terminal) DGM (T), Jasidih Industrial Area Jasidih – 814142, Deoghar, Jharkhand	Remarks	: ---
		Sample Drawn By	: ECO CARE
		Deviation if any	: None

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	29.6
2	Average Relative Humidity (%)	43.4
3	Barometric Pressure (mm of Hg)	748
4	Weather Condition	Clear Day

AMBIENT NOISE STANDARDS

Area Category	Limit in dB(A)Leq - Day Time	Limit in dB(A)Leq - Night Time
Industrial Area	75 dB(A)	70 dB(A)

AMBIENT NOISE QUALITY REPORT

Sampling Location		NOISE LEVEL		
		Minimum	Leq – Mean	Maximum
1. Near D.G Area	Day	56.30 dB(A)	65.63 dB(A)	70.60 dB(A)
	Night	52.10 dB(A)	61.83 dB(A)	67.00 dB(A)
2. Near Lock Room	Day	49.00 dB(A)	53.11 dB(A)	56.40 dB(A)
	Night	44.50 dB(A)	48.31 dB(A)	50.80 dB(A)
3. Near Administrative Building	Day	43.40 dB(A)	54.95 dB(A)	60.30 dB(A)
	Night	38.50 dB(A)	45.45 dB(A)	49.70 dB(A)

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TEST REPORT

Report Release Date : 22.03.2018	Sample Ref. No.(ARF) : EC/ARF/29/180355
Test Report No : EC/TR/42/03272	Source of Sample : Store & Dispatch of Petroleum Oil
Type of Sample : Water	Sampling Date : 12.03.2018
Sample Collected by : Mr. Ranjeet Yadav	Period of Analysis : 14.03.18 to 19.03.18
Sample Details : Effluent Water	Sampling Location : OWS (Oil Separator) No. 2
Name & Address : Indian Oil Corporation Ltd (MD) (Jasidih Terminal) DGM (T), Jasidih Industrial Area Jasidih – 814142, Deoghar Jharkhand	Sample Condition : Sealed & Preserved
	Sample Stamped as : "IOC – 33"
	Sample Drawn By : ECO CARE
	Remarks : ----
	Deviation if any : None

Sl. No.	Parameters	Unit	Test Method (APHA 22 nd Edition)	Standards (EPR 1986 & IS 2296:1982)	Results
1	pH 24.5 °C		4500-H ⁺ B	5.5 – 9.0	7.52
2	Temperature	°C	----	----	24.5
3	TSS	mg/l	2540 D	100.0	66.70
4	TDS	mg/l	2540 C	2100.0	216.30
5	BOD (3 days) at 27.0 °C	mg/l	IS 3025 (Part - 44): 2009	30.0	23
6	COD	mg/l	5220 B	250.0	70.56
7	Oil & Grease	mg/l	5520 B	10.0	6.73

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Test Report No : EC/TR/42/03265	Source of Sample : Store & Dispatch of Petroleum Oil
Type of Sample : Dust & Gaseous Emission	Sampling Date : 12.03.2018
Sample Collected by : Mr. Ranjeet Yadav & Team	Period of Analysis : 14.03.2018
Sample Details : Stack Emission	Sampling Location : D.G Stack (NO. 1)
Name & Address : Indian Oil Corporation LTD (MD) (Jasidih Terminal) DGM (T), Jasidih Industrial Area Jasidih – 814142, Deoghar, Jharkhand	Sample Condition : Preserved & Sealed
	Sample Stamped as : TH – 235
	Sample Drawn By : ECO CARE
	Remarks : ----
	Deviation if any : None

GENERAL INFORMATION

1 Particular of the Plant	: Store & Dispatch of Petroleum Oil Unit
2 Emission Due to	: Burning of HSD
3 Stack Connected to	: D.G Set No. 1
4 Material of Construction	: M.S
5 Stack Height from G.L.	: 5.2 m
6 Height of Sampling Port from G.L.	: 5.2 m
7 Height of Sampling Port from L.D.Z.	: ----
8 Dimension of Stack at Sampling Port	: 0.15 m
9 Shape of the Stack	: Circular Ø
10 Working Load	: 320 KVA

FUEL CHARACTERISTIC REPORT

1 Source of Energy	: HSD
2 Energy Consumption	: 35 lit/hr
3 Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

PARAMETERS	RESULTS	METHOD	NAAQS
1 Flue Gas Temperature	171 °C	IS 11255 : Part 3	----
2 Barometric Pressure	748 mm Hg	IS 11255 : Part 3	-----
3 Velocity of Flue Gas	17.37 m/sec	IS 11255 : Part 3	-----
4 Flue Gas Quantity	586 NM ³ / hr	11255 : Part 3	-----
5 Concentration of Particulate Matter	71.38 mg/NM ³	IS 11255 : Part 1	150 mg/Nm ³
6 Concentration of Carbon Dioxide	5.8 %	IS 13270	-----
7 Concentration of Hydrocarbons As CH ₄	< 0.1 gm/kw -hr	APHA	3.5 gm/kw -hr
8 Concentration of SO ₂	26.96 mg/NM ³	IS 11255 : Part 2	----
9 Concentration of NO _x	54.39 mg/NM ³	IS-11255 : Part 7	----

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