



NAKSHATRA ENVIRO SERVICES

M.: 94136-66777
M.: 80038-96241

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NABL Accredited (Certificate No. T-2320) & ISO 9001:2008 Certified

Ref. No.- NES/2016/07/59

Date: 06-07-2016

AMBIENT AIR QUALITY MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,
SV-2, Ramanmandi –Bahadurgarh Pipeline
At/Village-Madh, Tehsil- Ratiya
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Location : Near Main Gate

Date of Sampling : 23-06-2016

Ambient Temperature : 37.2 °C

Avg. Relative Humidity : 29 %

Weather Conditions : Clear


Date of Testing : 27-06-2016 to 05-07-2016

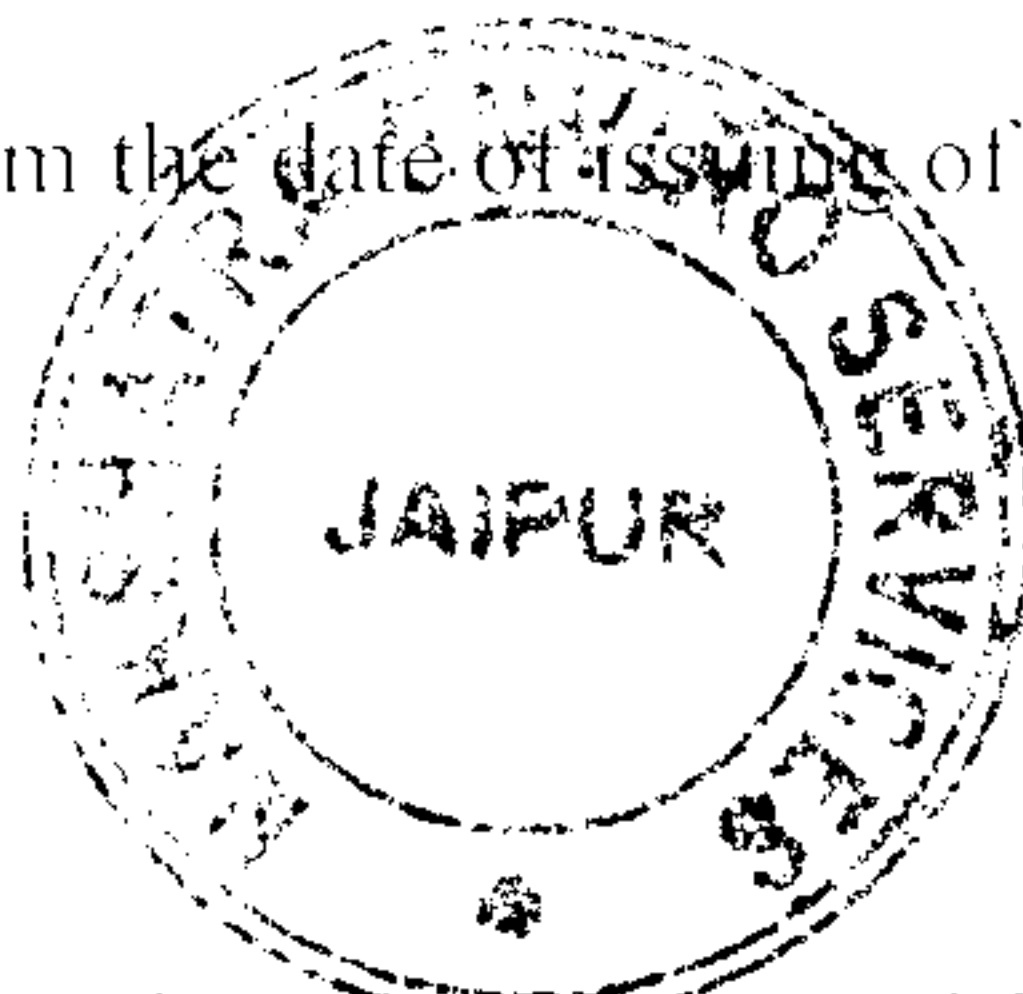
Results:

Sl. No.	Parameters	Values Found	CPCB-Limits in $\mu\text{g}/\text{m}^3$	Protocol
1.	PM ₁₀	71.9	100	IS 5182(Part 23) : 2006
2.	PM _{2.5}	38.4	60	As per CPCB Guidelines
3.	Sulphur dioxide (SO ₂)	7.1	80	IS 5182 (Part 2) : 2001
4.	Oxides of Nitrogen (NO ₂)	19.2	80	IS 5182 (Part VI): 2006
5.	Carbon Mono Oxide (CO)	240	2000	IS 5182 (Part 10): 1999

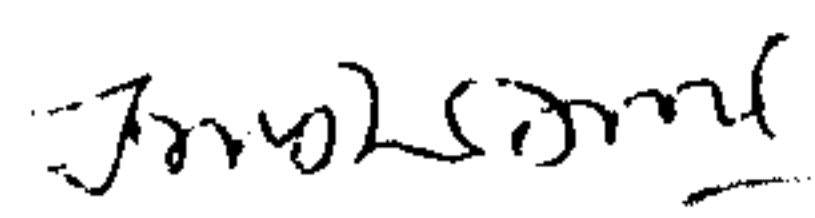
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(Rajeev Mathur)
Technical Manager



End of Report


(Jag Mohan Sharma)
Quality Manager



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Ref. No.- NES/2016/07/60

Date: 06-07-2016

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Issued To : M/s. Hindustan Petroleum Corporation Limited,
SV-2, Ramanmandi --Bahadurgarh Pipeline
At/Village-Madh, Tehsil- Fatehabad
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Location : Near D.G Room

Date of Sampling : 23-06-2016

Ambient Temperature : 36.7 °C

Avg. Relative Humidity : 29 %

Weather Conditions : Clear


Date of Testing : 27-06-2016 to 05-07-2016

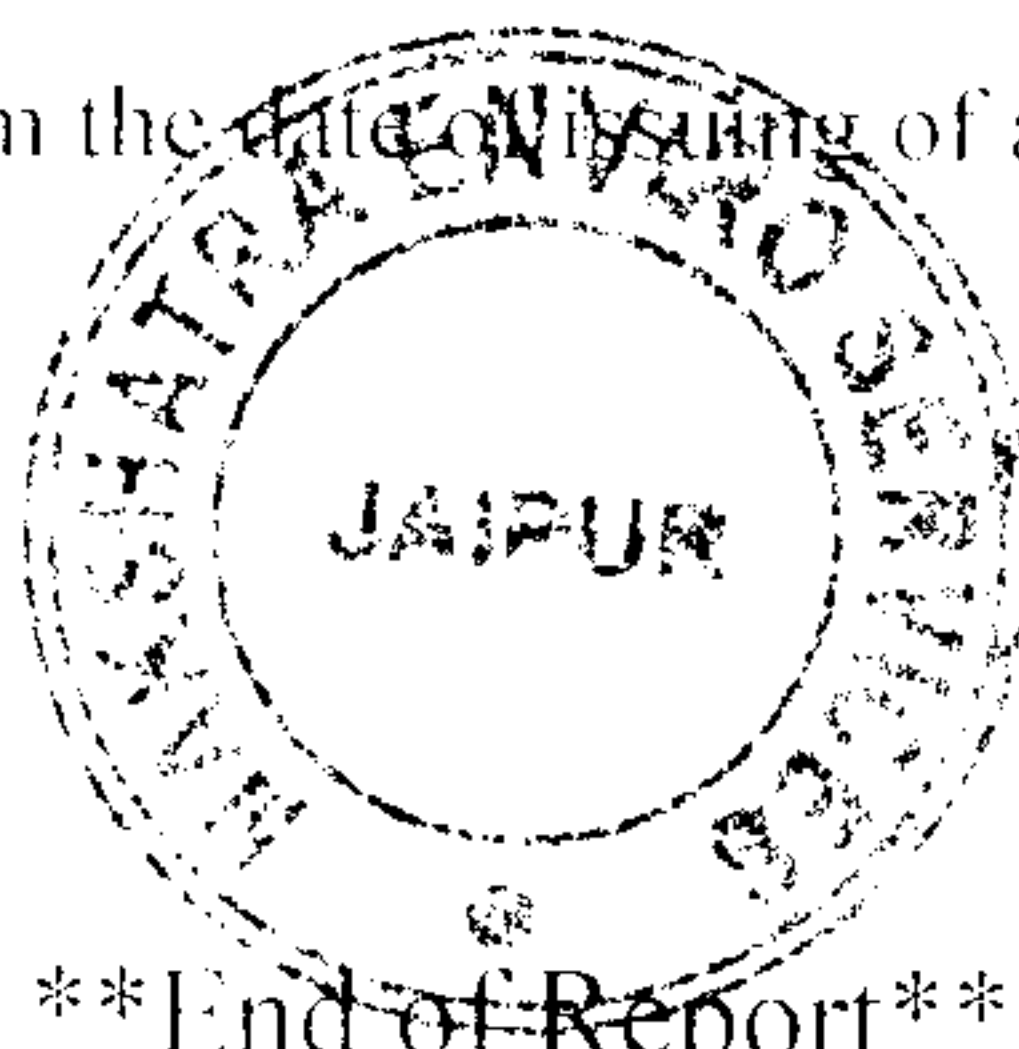
Results:

Sl. No.	Parameters	Values Found	CPCB-Limits	Protocol
			in $\mu\text{g}/\text{m}^3$	
1.	PM ₁₀	72.6	100	IS 5182(Part 23) : 2006
2.	PM _{2.5}	42.6	60	As per CPCB Guidelines
3.	Sulphur dioxide (SO ₂)	8.4	80	IS 5182 (Part 2) : 2001
4.	Oxides of Nitrogen (NO ₂)	21.9	80	IS 5182 (Part VI): 2006
5.	Carbon Mono Oxide (CO)	280	2000	IS 5182 (Part 10): 1999

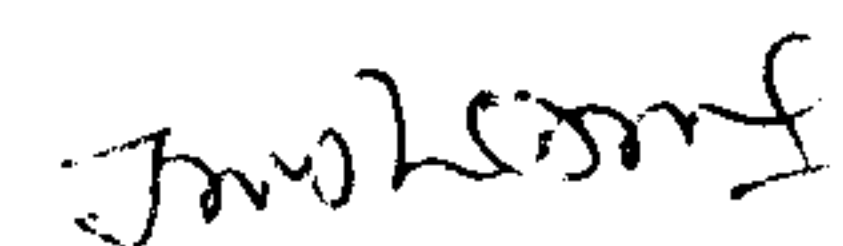
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Ref. No.- NES/2016/07/61

Date: 06-07-2016

AMBIENT AIR QUALITY MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,
SV-2, Ramanmandi –Bahadurgarh Pipeline
At/Village-Madh, Tehsil- Fatchabad
District-Fatchabad, Haryana

Nature of Industry : Petroleum Pipeline

Location : Near Skada Room

Date of Sampling : 23-06-2016

Ambient Temperature : 37.5 °C

Avg. Relative Humidity : 29 %

Weather Conditions : Clear


Date of Testing : 27-06-2016 to 05-07-2016

Results:

Sl. No.	Parameters	Values Found	CPCB-Limits	Protocol
			in $\mu\text{g}/\text{m}^3$	
1.	PM ₁₀	67.3	100	IS 5182(Part 23) : 2006
2.	PM _{2.5}	39.5	60	As per CPCB Guidelines
3.	Sulphur dioxide (SO ₂)	7.3	80	IS 5182 (Part 2) : 2001
4.	Oxides of Nitrogen (NO ₂)	20.1	80	IS 5182 (Part VI): 2006
5.	Carbon Mono Oxide (CO)	240	2000	IS 5182 (Part 10): 1999

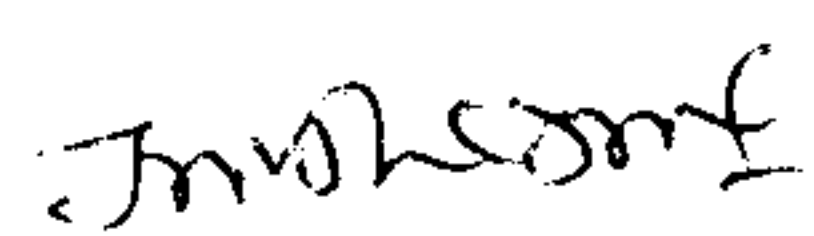
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Ref. No.- NES/2016/07/62

Date: 06-07-2016

METHANE & NON METHANE AIR QUALITY MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,
SV-2. Ramamandi –Bahadurgarh Pipeline
At/Village-Jatana Kalan, Tehsil- Sardulgarh
District- Mansa, Punjab

Nature of Industry : Petroleum Pipeline

Location : Near MOV Area

Date of Sampling : 23-06-2016

Ambient Temperature : 34.5 °C

Avg. Relative Humidity : 32 %

Weather Conditions : Clear

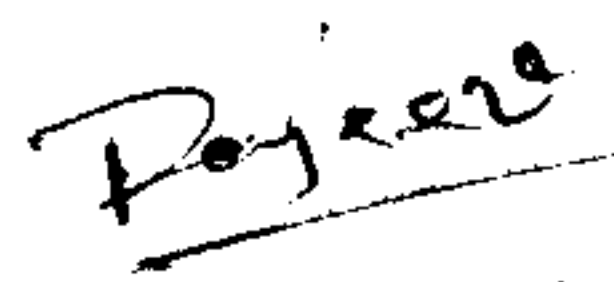
Date of Testing : 27-06-2016 to 05-07-2016

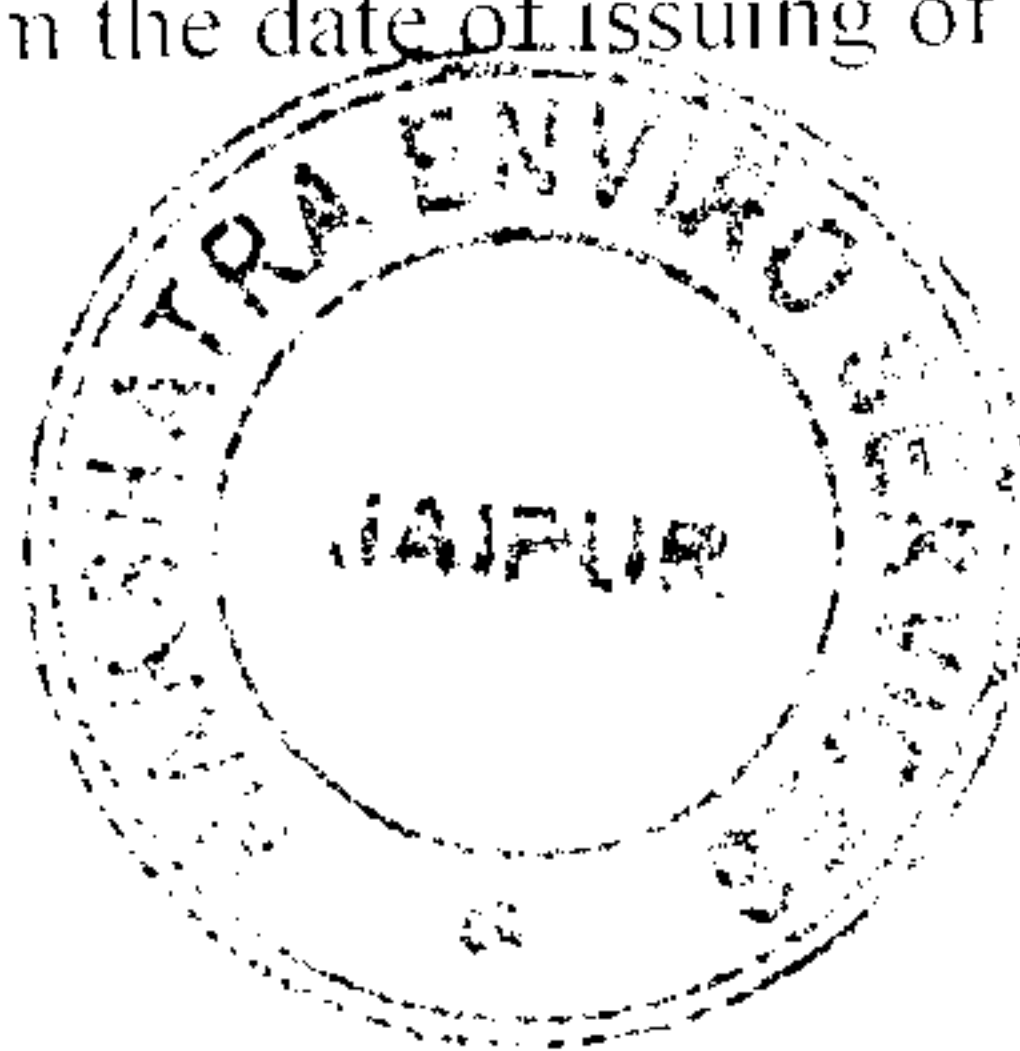
Results:

S. No.	Parameters	Observed Value	Testing Protocol
1.	Methane (CH ₄) mg/m ³	N.T.	IS 5182 (Part 17) 1979
2.	Non- Methane Hydro Carbon (NMHC) mg/m ³	N.T.	IS 5182 (Part 17) 1979

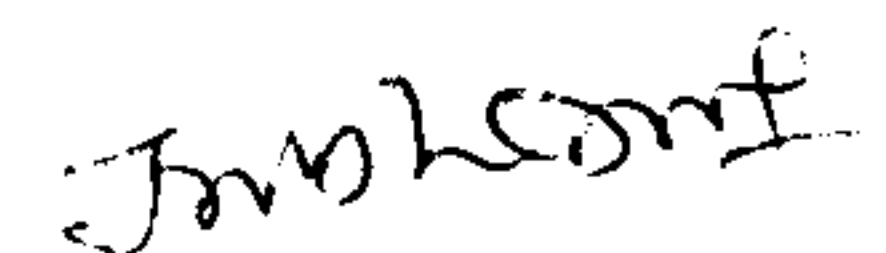
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Ref. No.- NES/2016/07/63

Date: 06-07-2016

STACK EMISSION MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,
SV-2, Ramanmandi –Bahadurgarh Pipeline
At/Village-Madh, Tehsil- Ratiya
District-Fatehabad, Haryana


Nature of Industry : Petroleum Pipeline
Product/By Product : Petroleum
Date of Sampling : 23-06-2016
Stack attached to : D.G. Set (25 KVA)
Material of Construction of Stack : M.S.
Stack Height (m) from Ground Level : 25 Feet
Diameter of Stack at Sampling Point (mm) : 100 mm
Ambient Temperature : 36.9 °C
Stack Gas Temperature : 152 °C
Weather Conditions : Sunny
Velocity of flue gases (m/sec.) : 15.77
Flue gas Quantity (Nm³/hr.) : 306.34
Date of Testing : 27-06-2016 to 05-07-2016

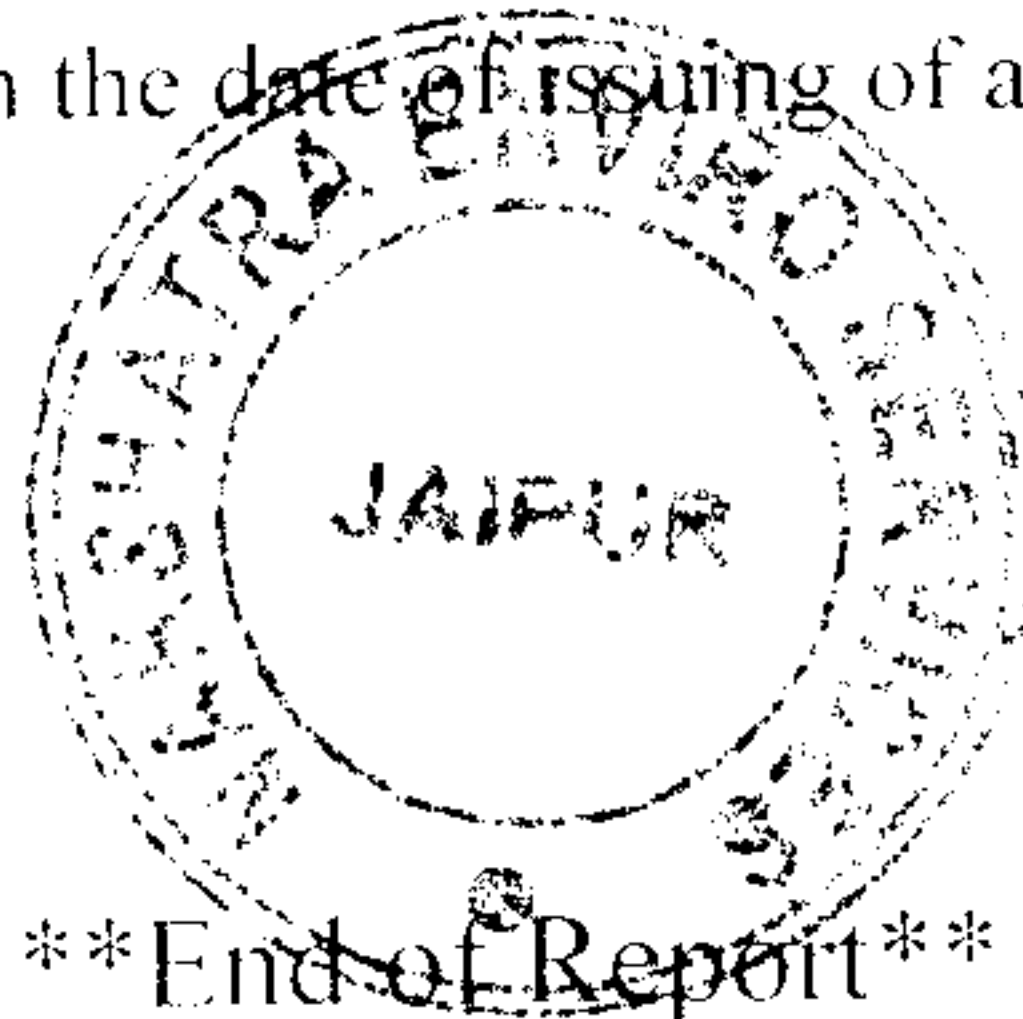
Results:

Sl. No.	Parameters	Values Found	SPCB-Limits	Protocol
		in g/KW-hr		
1.	Particulate Matter (PM)	0.18	0.3	IS 11255 (Part 1) : 2001
2.	Sulphur dioxide (SO ₂)	0.41	-	IS 11255 (Part 2) : 2003
3.	Oxides of Nitrogen (NO ₂)	1.06	9.2	IS 5182 (Part VII) : 2005
4.	Carbon Mono Oxide (CO)	0.38	3.5	IS 13270: 1992

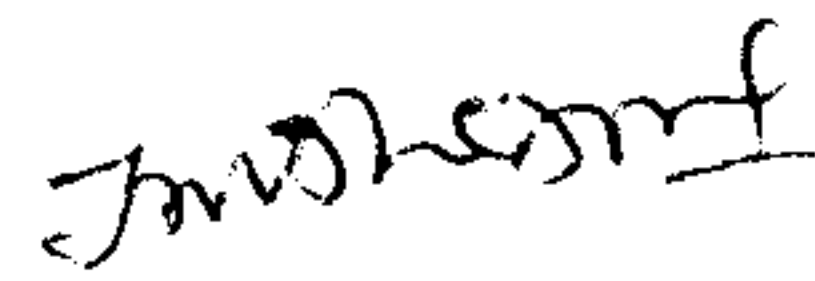
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Ref. No.- NES/2016/07/64

Date: 06-07-2016

NOISE LEVEL MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,
SV-2, Ramamandi –Bahadurgarh Pipeline
At/Village-Madh, Tehsil- Ratiya
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline


Date of Measurement : 23-06-2016

Results:

Sl. No.	Location	Noise Level in dB(A)	Limits in dB(A)
1.	Near Main Gate	54.2	75
2.	Near D G. Set Room	72.8	75

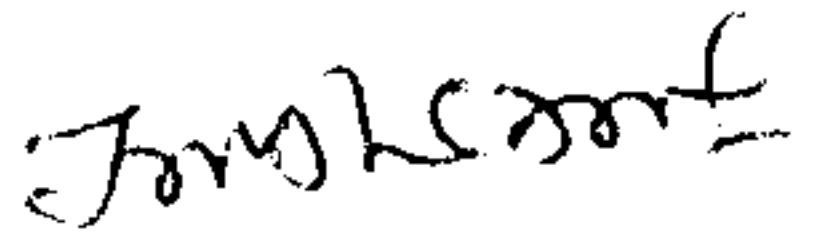
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Ref. No.- NES/2016/07/65

Date: 06-07-2016

WATER ANALYSIS REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,
SV-2, Ramanmandi –Bahadurgarh Pipeline
At/Village-Madh, Tehsil- Ratiya
District-Fatehabad, Haryana

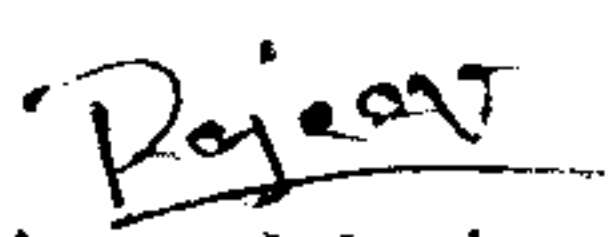
Nature of Industry : Petroleum Pipeline
Location/Sample Reference : Drinking Water
Sample Quantity : 1.0 Ltr.
Date of Collection : 23-06-2016
Testing Date : 27-06-2016 to 05-07-2016

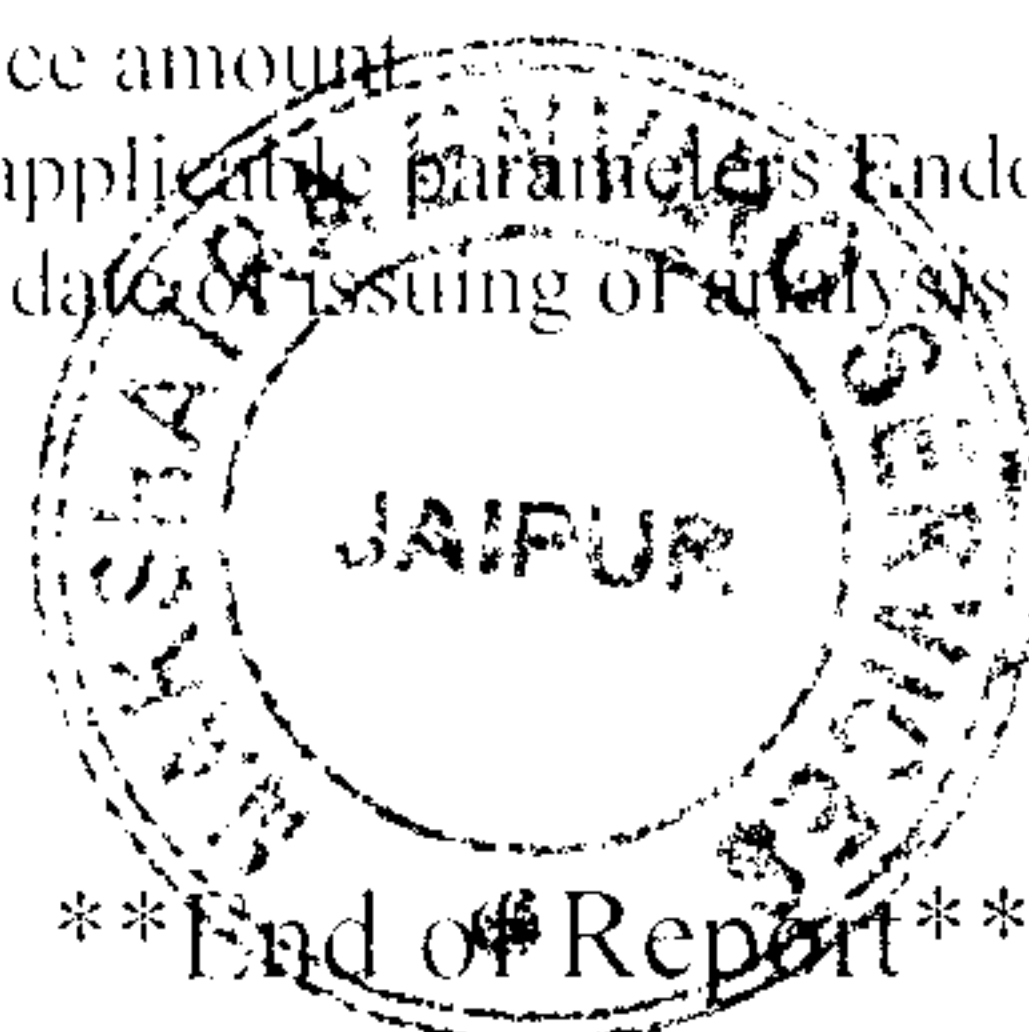
Results:

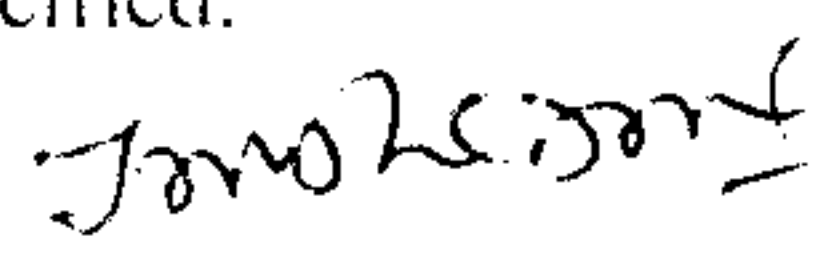
Sl. No.	Parameters	Values Found	Standards as per IS 10500:2012		
			Desirable Limits	Permissible Limits in absence of alternate source	Test Method
1.	pH	7.80	6.5 to 8.5	NR	IS:3025 (Part 11):2002
2.	Taste	Agreeable	Agreeable	-	IS:3025(Part8) : 2002
3.	Odour	Unobjectionable	Unobjectionable	-	IS:3025(Part5) : 2002
4.	Turbidity (NTU)	<1.0	< 01 NTU	< 05 NTU	IS:3025 (Part 10):2002
5.	Total Dissolved Solids	208.0 mg/l	< 500 mg/l	< 2000 mg/l	IS:3025 (Part 16):2006
6.	Total Hardness as CaCO ₃	155.4 mg/l	< 200 mg/l	< 600 mg/l	IS:3025 (Part 21):2009
7.	Calcium (as Ca)	44.4 mg/l	< 75 mg/l	< 200 mg/l	IS:3025 (Part 40):2003
8.	Magnesium (as Mg)	10.78 mg/l	< 30 mg/l	< 100 mg/l	IS:3025 (Part 40):2003
9.	Total Alkalinity (as CaCO ₃)	100.0 mg/l	< 200 mg/l	< 600 mg/l	IS:3025 (Part 23):2003
10.	Nitrate (as NO ₃)	BDL	< 45 mg/l	NR	IS:3025 (Part 34):2003
11.	Chloride (as Cl)	22.12 mg/l	< 250 mg/l	< 1000 mg/l	IS:3025 (Part 32):2003
12.	Sulphate (as SO ₄)	61.25 mg/l	< 200 mg/l	< 400 mg/l	IS:3025 (Part 24):2003
13.	Iron (as Fe)	0.12 mg/l	< 0.3 mg/l	NR	IS:3025 (Part 53):2003
14.	Fluoride (as F)	BDL	< 1.0 mg/l	< 1.5 mg/l	IS:3025 (Part 60):2008
15.	Sodium (as Na)	9.41 mg/l	< 150 mg/l	-	IS:3025 (Part 45):2003
16.	Nitrite	BDL	-	-	IS:3025 (Part 34):1998
17.	Ammonical Nitrogen	BDL	< 0.5 mg/l	NR	IS:3025 (Part 34):2003
BACTERIOLOGICAL EXAMINATION					
18.	Total Coliform Count (Per 100 ml)	Absent	10 Coliform	-	IS:5401 (Part 02):2012
19.	Test for E.Coli (Per 100 ml)	Absent	Absent	-	IS:5887 (Part 01):1976

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