



# 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/2016/07/66

Date: 06-07-2016

## AMBIENT AIR QUALITY MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,  
SV-3, Ramahmandi –Bahadurgarh Pipeline  
At/Village-Bhuna, Tehsil- Bhuna  
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Location : Near Main Gate

Date of Sampling : 24-06-2016

Ambient Temperature : 38.4 °C

Avg. Relative Humidity : 26 %

Weather Conditions : Clear

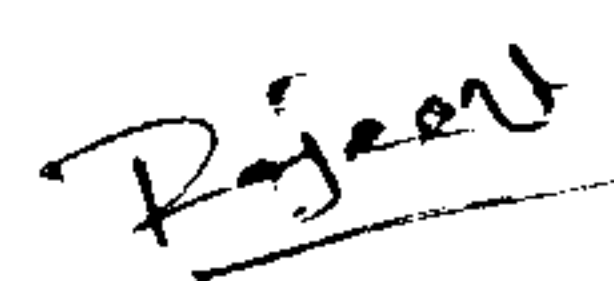
Date of Testing : 27-06-2016 to 05-07-2016

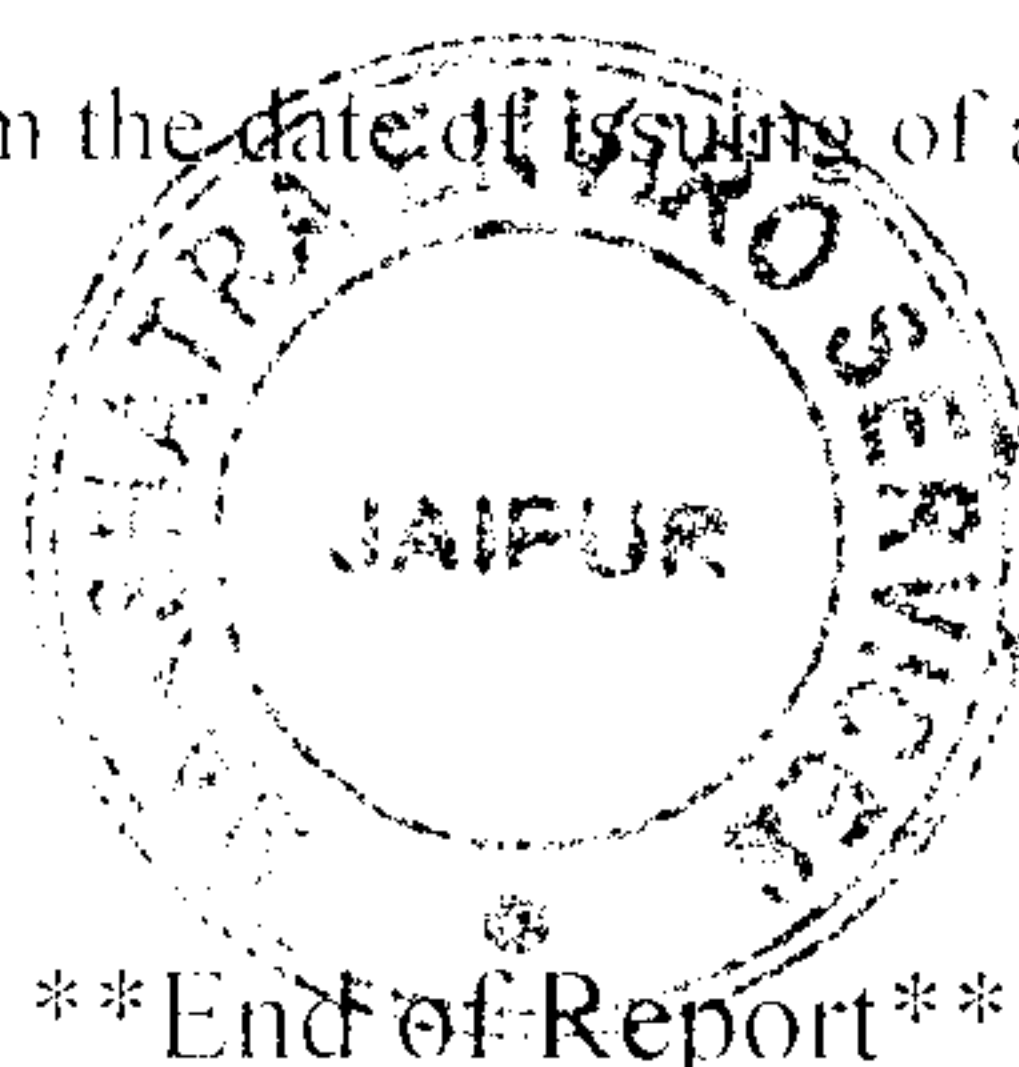
### Results:

Sl. No.	Parameters	Values	CPCB-Limits	Protocol
		Found	in $\mu\text{g}/\text{m}^3$	
1.	PM <sub>10</sub>	66.6	100	IS 5182(Part 23) : 2006
2.	PM <sub>2.5</sub>	38.7	60	As per CPCB Guidelines
3.	Sulphur dioxide (SO <sub>2</sub> )	8.3	80	IS 5182 (Part 2) : 2001
4.	Oxides of Nitrogen (NO <sub>2</sub> )	20.5	80	IS 5182 (Part VI): 2006
5.	Carbon Mono Oxide (CO)	250	2000	IS 5182 (Part 10): 1999

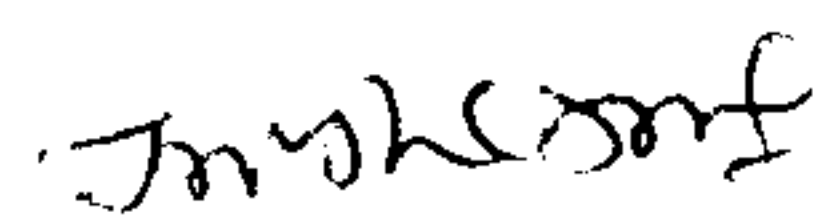
### Note:

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(Rajeev Mathur)  
Technical Manager



\*\*End of Report\*\*

  
(Jag Mohan Sharma)  
Quality Manager



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Ref. No.- NES/2016/07/67

Date: 06-07-2016

## AMBIENT AIR QUALITY MONITORING REPORT

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SV-3, Ramanmandi –Bahadurgarh Pipeline  
At/Village-Bhuna, Tehsil- Bhuna  
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Location : Near D.G Room

Date of Sampling : 24-06-2016

Ambient Temperature : 38.2 °C

Avg. Relative Humidity : 26 %

Weather Conditions : Clear

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

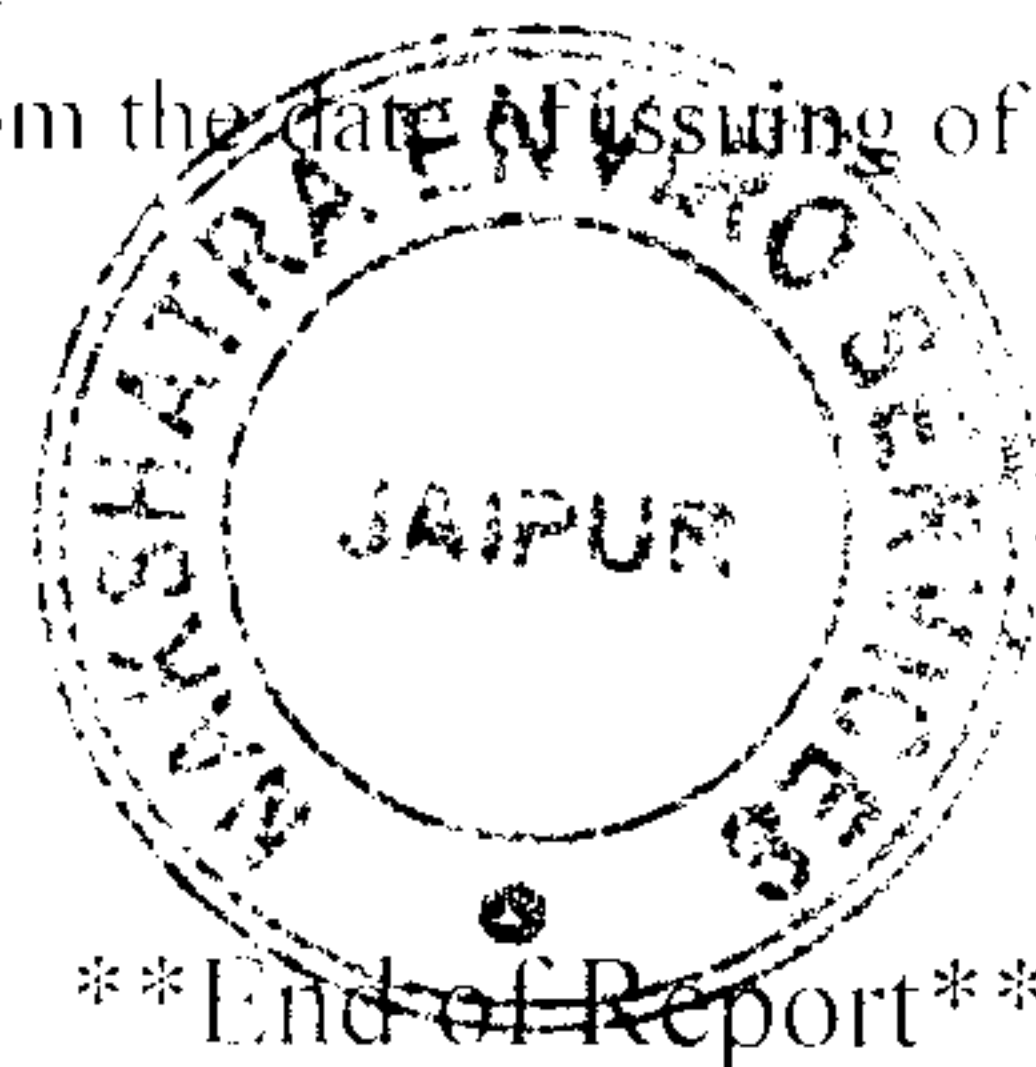
### Results:

Sl. No.	Parameters	Values Found	CPCB-Limits	Protocol
			in $\mu\text{g}/\text{m}^3$	
1.	PM <sub>10</sub>	72.2	100	IS 5182(Part 23) : 2006
2.	PM <sub>2.5</sub>	41.7	60	As per CPCB Guidelines
3.	Sulphur dioxide (SO <sub>2</sub> )	8.8	80	IS 5182 (Part 2) : 2001
4.	Oxides of Nitrogen (NO <sub>2</sub> )	22.8	80	IS 5182 (Part VI): 2006
5.	Carbon Mono Oxide (CO)	290	2000	IS 5182 (Part 10): 1999

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*Rajeev*  
(Rajeev Mathur)  
Technical Manager



\*\*End of Report\*\*

*Jag Mohan*  
(Jag Mohan Sharma)  
Quality Manager



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Ref. No.- NES/2016/07/68

Date: 06-07-2016

## AMBIENT AIR QUALITY MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,  
SV-3, Ramanandi –Bahadurgarh Pipeline  
At/Village-Bhuna, Tehsil- Bhuna  
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Location : Near Skada Room

Date of Sampling : 24-06-2016

Ambient Temperature : 38.4 °C

Avg. Relative Humidity : 26 %

Weather Conditions : Clear

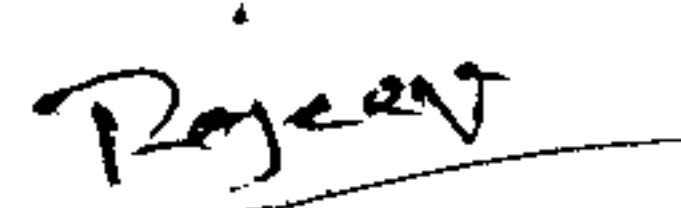
Date of Testing : 27-06-2016 to 05-07-2016

### Results:

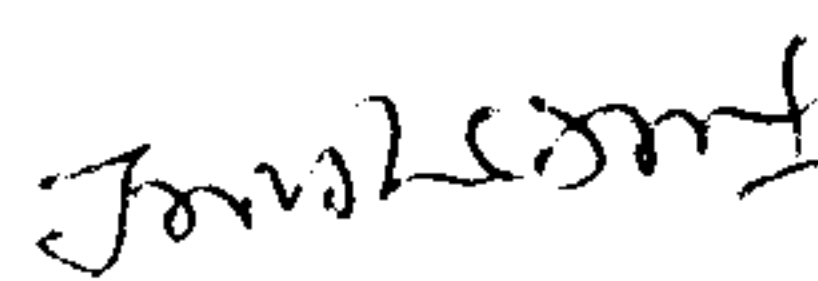
Sl. No.	Parameters	Values Found	CPCB-Limits	Protocol
			in $\mu\text{g}/\text{m}^3$	
1.	PM <sub>10</sub>	68.9	100	IS 5182(Part 23) : 2006
2.	PM <sub>2.5</sub>	39.5	60	As per CPCB Guidelines
3.	Sulphur dioxide (SO <sub>2</sub> )	7.8	80	IS 5182 (Part 2) : 2001
4.	Oxides of Nitrogen (NO <sub>2</sub> )	20.2	80	IS 5182 (Part VI): 2006
5.	Carbon Mono Oxide (CO)	260	2000	IS 5182 (Part 10): 1999

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Ref. No.- NES/2016/07/69

Date: 06-07-2016

## METHANE & NON METHANE AIR QUALITY MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,  
SV-3, Ramanmandi --Bahadurgarh Pipeline  
At/Village-Bhuna, Tehsil- Bhuna  
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Location : Near MOV Area

Date of Sampling : 24-06-2016

Ambient Temperature : 38.2 °C

Avg. Relative Humidity : 26 %

Weather Conditions : Clear

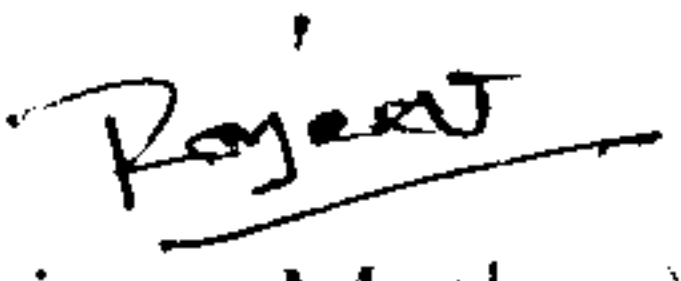
Date of Testing : 27-06-2016 to 05-07-2016

### Results:

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

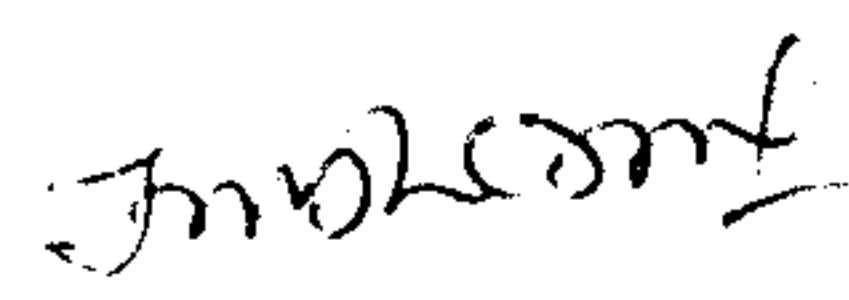
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Ref. No.- NES/2016/07/70

Date: 06-07-2016

## STACK EMISSION MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,  
SV-3, Ramanmandi –Bahadurgarh Pipeline  
At/Village-Bhuna, Tehsil- Bhuna  
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Product/By Product : Petroleum

Date of Sampling : 24-06-2016

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 : 36.7 °C

Stack Gas Temperature : 137 °C

Weather Conditions : Sunny

Velocity of flue gases (m/sec.) : 16.29

Flue gas Quantity (Nm<sup>3</sup>/hr.) : 326.58


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

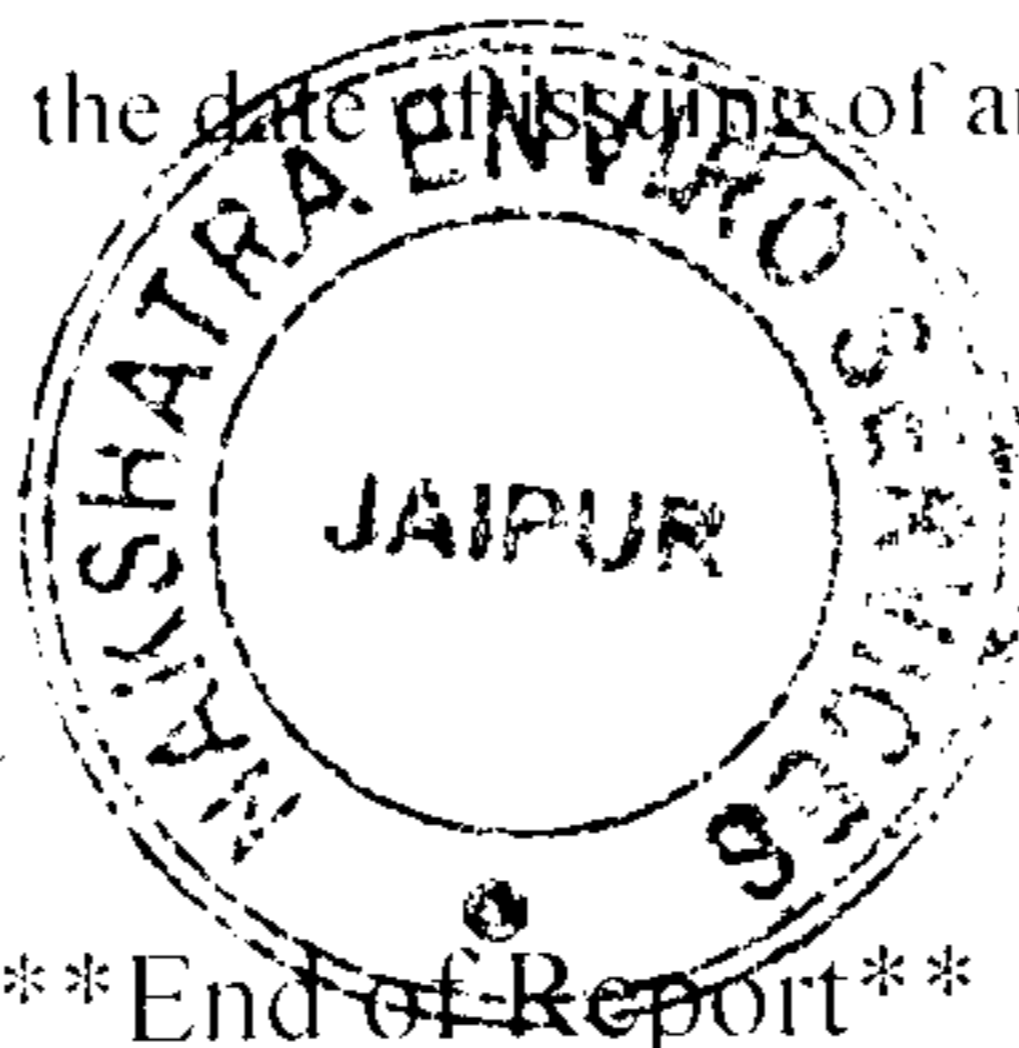
### Results:

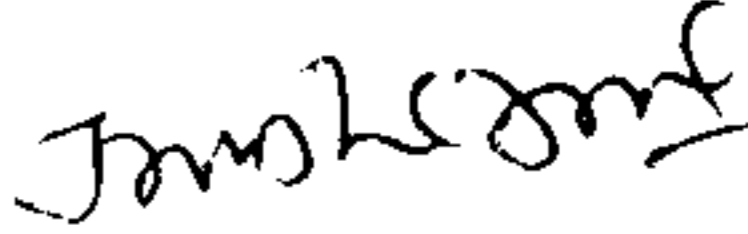
Sl. No.	Parameters	Values Found	SPCB-Limits	Protocol
		in g/KW-hr		
1.	Particulate Matter (PM)	0.17	0.3	IS 11255 (Part 1) : 2001
2.	Sulphur dioxide (SO <sub>2</sub> )	0.34	-	IS 11255 (Part 2) : 2003
3.	Oxides of Nitrogen (NO <sub>2</sub> )	1.17	9.2	IS 5182 (Part VII) : 2005
4.	Carbon Mono Oxide (CO)	0.44	3.5	IS 13270: 1992

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Ref. No.- NES/2016/07/71

Date: 06-07-2016

## NOISE LEVEL MONITORING REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,  
SV-3, Ramanandi -Bahadurgarh Pipeline  
At/Village-Bhuna, Tehsil- Bhuna  
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Date of Measurement : 24-06-2016

### Results:

Sl. No.	Location	Noise Level in dB(A)	Limits in dB(A)
1.	Near Main Gate	49.2	75
2.	Near D G. Set Room	72.9	75

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(Rajeev Mathur)  
Technical Manager



\*\*End of Report\*\*

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(Jag Mohan Sharma)  
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Ref. No.- NES/2016/07/72

Date: 06-07-2016

## WATER ANALYSIS REPORT

Issued To : M/s. Hindustan Petroleum Corporation Limited,  
SV-3, Ramanmandi –Bahadurgarh Pipeline  
At/Village-Bhuna. Tehsil- Bhuna  
District-Fatehabad, Haryana

Nature of Industry : Petroleum Pipeline

Location/Sample Reference : Borewell water

Sample Quantity : 1.0 Ltr.

Date of Collection : 24-06-2016


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

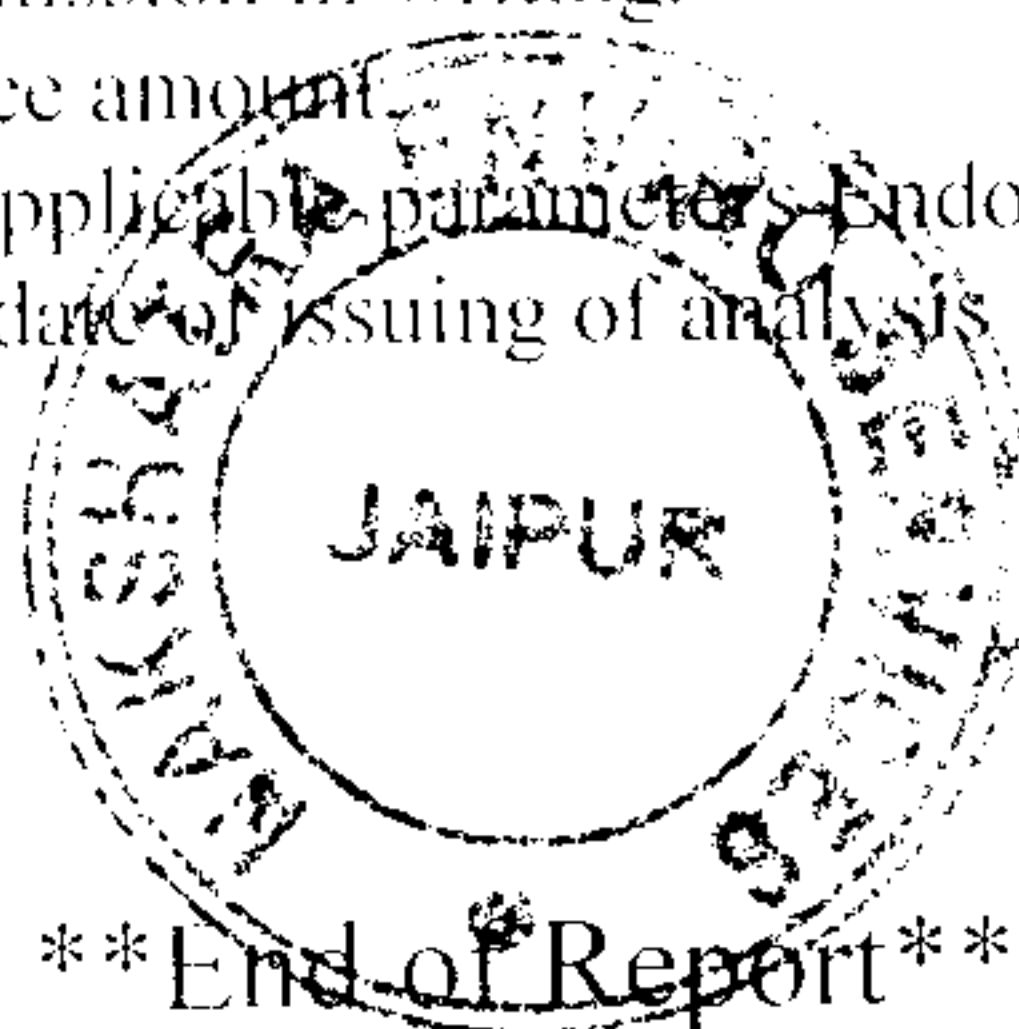
### Results:

Sl. No.	Parameters	Values Found	Standards as per IS 10500:2012		
			Desirable Limits	Permissible Limits in absence of alternate source	Test Method
1.	pH	8.52	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	1980.0 mg/l	< 500 mg/l	< 2000 mg/l	IS:3025 (Part 16):2006
6.	Total Hardness as CaCO <sub>3</sub>	164.28 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)	12.94 mg/l	< 30 mg/l	< 100 mg/l	IS:3025 (Part 40):2003
9.	Total Alkalinity (as CaCO <sub>3</sub> )	440.0 mg/l	< 200 mg/l	< 600 mg/l	IS:3025 (Part 23):2003
10.	Nitrate (as NO <sub>3</sub> )	46.10 mg/l	< 45 mg/l	NR	IS:3025 (Part 34):2003
11.	Chloride (as Cl)	783.44 mg/l	< 250 mg/l	< 1000 mg/l	IS:3025 (Part 32):2003
12.	Sulphate (as SO <sub>4</sub> )	275.0 mg/l	< 200 mg/l	< 400 mg/l	IS:3025 (Part 24):2003
13.	Iron (as Fe)	0.28 mg/l	< 0.3 mg/l	NR	IS:3025 (Part 53):2003
14.	Fluoride (as F)	4.30 mg/l	< 1.0 mg/l	< 1.5 mg/l	IS:3025 (Part 60):2008
15.	Sodium (as Na)	345.6 mg/l	< 150 mg/l	-	IS:3025 (Part 45):2003
16.	Nitrite	0.96 mg/l	-	-	IS:3025 (Part 34):1998
17.	Ammonical Nitrogen	2.89 mg/l	< 0.5 mg/l	NR	IS:3025 (Part 34):2003
<b>BACTERIOLOGICAL EXAMINATION</b>					
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

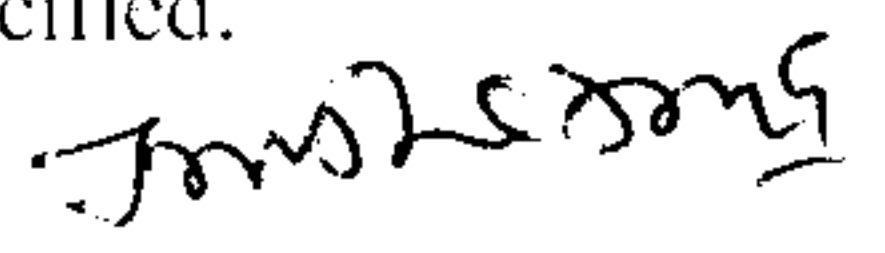
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Technical Manager



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(Jag Mohan Sharma)  
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