RAIL WHEEL PLANT/BELA (INDIAN RAILWAYS) GOVT. OF INDIA



OFFICE OF THE CHIEF ADMINISTRATIVE OFFICER, ADMINISTRATIVE BUILDING,

VILLAGE-BELA, BLOCK- DARIAPUR,

SARAN (CHHAPRA), BIHAR.

MONTH WISE ANALYSIS OF GROUND WATER SAMPLE NOVEMBER-2015

REF: (i) Ministry of Environment and Forest (MoEF)/GOI environmental Clearance no. J-11011/527/2010-IA.II(I) dated 12.01.2012. (ii) Bihar State Pollution Control Board (BSPCB) Discharge Consent Order Letter No. pt 2-116/11 t-17582, dated 22.11.12. (iii) BSPCB Emission Consent Order letter No. PT(NOC)-628/09 T-17581, dated 22.11.12.

(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, Netal (India) Limited, Mumbai)

G	round Water sample	UNIT	Limit as pe	Limit as per IS10500:1991		ed value
			Limit (Max) (mg/l) Desirable	Permissible limit in the absence of alternative source	Borewell No.1	Borewell No. 2
1.	Colour	Hazen	5.0	15	<1.00	<1.00
2.	рН		6.5 to 8.5	No relaxation	7.3	7.1
3.	Turbidity on NTU	NTU	1.00	5.00	<1.00	<1.00
4.	Total Dissolved Solids (TDS)	mg/l.	500.00	2000.00	250	264
5.	Total Hardness as CaCO₃	mg/l.	200.00	600.00	222	218
6.	Calcium as Ca	mg/l.	75.00	200.00	24.5	26.2
7.	Magnesium as Mg	mg/l.	30.00	No relaxation	26.9	26.5
8.	Iron as Fe	mg/l.	0.30	No relaxation	0.11	0.12
9.	Total Alkalinity as CaCO ₃	mg/l.	200.00	600.00	264	281
10.	Chloride as Cl	mg/l.	250.00	1000.00	42.6	43.2
11.	Sulphate as SO ₄	mg/l.	200.00	400.00	14.6	17.9
12.	Nitrate as NO ₃	mg/l.	45.00	No relaxation	3.5	3.8
13.	Fluoride as F	mg/l.	1.00	1.50	0.13	0.16
14.	Arsenic as As	mg/l.	0.01	0.05	<0.01	<0.01
15.	Coliform	MPN	ND		ND	ND

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MONTHWISE ANALYSIS OF AMBIENT NOISE LEVEL FOR NOVEMBER-2015

- **REF: (I)** Ministry of Environment and Forest (MoEF)/GOI environmental Clearance no. J-11011/527/2010-IA.II(I) dated 12.01.2012.
 - (ii) Bihar State Pollution Control Board (BSPCB) Discharge Consent Order Letter No. pt 2-116/11 t-17582, dated 22.11.12.
 - (iii) BSPCB Emission Consent Order letter No. PT(NOC)-628/09 T-17581, dated 22.11.12.

(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, , Netal (India) Limited, Mumbai)

	Monitoring Location	Unit	Limit(Max)	Noise level in dB(A)		
				(Actual measured value)		
				Day time	Night time	
1.	Near Main Gate	dB(A)	Industrial area-75.0	38.4	33.9	
2.	Near ADM Building	dB(A)	Commercial area- 65.0	32.6	29.2	
3.	Near Final Wheel Processing Sec.	dB(A)	Residential area-55.0	51.3	42.6	
4.	Near Furnace	dB(A)		50.8	44.2	

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MONTHWISE ANALYSIS OF STACK EMISSION FOR NOV-2015 (Sampling & Analysis done by MoEF Recognized Environmental Laboratory, , Netal (India) Limited, Mumbai)

		Actual measured values
Stack connected to Bag House attached with Electric Arc Furnace	Limit (Max)	
a. PM, mg / NM³	75.00	45.9
b. SO ₂ , mg / NM ³	Not specified	32.6
c. NO ₂ , mg / NM ³	710.00	212
Stack connected to Normalizing Furnace	1	
a. PM, mg / NM³	75.00	32.8
b. SO ₂ , mg / NM ³	Not specified	53.2
c. NO ₂ , mg / NM ³	710.00	246
Stack connected to 2400 KVA DG Set-1		
a. PM, mg / NM³	75.00	28.4
b. SO ₂ , mg / NM ³	Not specified	44.2
c. NO ₂ , mg / NM ³	710.00	245
Stack connected to Draw Furnace		
a. PM, mg / NM ³	75.00	55.2
b. SO ₂ , mg / NM ³	Not specified	72.5
c. NO ₂ , mg / NM ³	710.00	218
Stack connected to 12400 KVA DG Set-2		1
a. PM, mg / NM³	75.00	30.6
b. SO ₂ , mg / NM ³	Not specified	42.9
c. NO ₂ , mg / NM ³	710.00	189
Stack connected to Incinerator		<u> </u>
a. PM, mg / NM³	75.00	Not in Operation
b. SO ₂ , mg / NM ³	Not specified	
c. NO ₂ , mg / NM ³	710.00	

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MONTHWISE ANALYSIS OF AMBIENT AIR QUALITY FOR NOVEMBER-2015

REF: (I) Ministry of Environment and Forest (MoEF)/GOI environmental Clearance no. J-11011/527/2010-IA.II(I) dated 12.01.2012.

- (ii) Bihar State Pollution Control Board (BSPCB) Discharge Consent Order Letter No. pt 2-116/11 t-17582, dated 22.11.12.
- (iii) BSPCB Emission Consent Order letter No. PT(NOC)-628/09 T-17581, dated 22.11.12.

(Monitoring & Analysis done by MoEF Recognized Environmental Laboratory, Neetal India Limited, Mumbai)

Month	Param eters	Limit(M ax)	Near Main Gate	Near East Side Bound ary Wall (Store Yard)	Near Main Store 2	Near ADM Buildin g (TTC)	Near Main Gate	Near East Side Bounda ry Wall (Store Yard)	Near Main Store 2	Near ADM Building (TTC)	
			<u>I</u>	24 Hrs	Average (Conc ^{n.} in i	mg/m³	<u>I</u>	I	l	
	01 st Monitoring (Actual measured values)				02 nd Monitoring (Actual Measured values)				Avg. Values		
Novem	PM ₁₀	100 μg/m ³	48.6	61.3	51.9	36.2	47.3	48.0	43.2	36.7	46.6
ber- 2015	PM _{2.5}	60 μg/m³	24.3	29.6	31.5	24.6	23.8	28.2	29.6	23.4	26.9
	SO ₂	80 μg/m ³	6.5	9.8	7.6	7.5	6.8	8.2	7.3	8.4	7.8
	NO ₂	80 μg/m³	17.9	19.5	18.5	21.6	17.5	18.6	17.2	19.4	18.8