


RAIL WHEEL PLANT/BELA (INDIAN RAILWAYS) GOVT. OF INDIA		OFFICE OF THE CHIEF ADMINISTRATIVE OFFICER, ADMINISTRATIVE BUILDING, VILLAGE-BELA, BLOCK- DARIAPUR, SARAN (CHHAPRA), BIHAR.
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MONTH WISE ANALYSIS OF GROUND WATER SAMPLE MAY-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)


Ground Water sample	UNIT	Limit as per IS10500:1991		Actual measured 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. pH	--	6.5 to 8.5	No relaxation	6.9	6.7
3. Turbidity on NTU	NTU	1.00	5.00	<1.00	<1.00
4. Total Dissolved Solids (TDS)	mg/l.	500.00	2000.00	249	257
5. Total Hardness as CaCO ₃	mg/l.	200.00	600.00	223	230
6. Calcium as Ca	mg/l.	75.00	200.00	25.4	26.8
7. Magnesium as Mg	mg/l.	30.00	No relaxation	28.3	29.6
8. Iron as Fe	mg/l.	0.30	No relaxation	0.16	0.14
9. Total Alkalinity as CaCO ₃	mg/l.	200.00	600.00	274	281
10. Chloride as Cl	mg/l.	250.00	1000.00	43.5	41.6
11. Sulphate as SO ₄	mg/l.	200.00	400.00	16.7	17.5
12. Nitrate as NO ₃	mg/l.	45.00	No relaxation	3.6	4.0
13. Fluoride as F	mg/l.	1.00	1.50	0.17	0.15
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 MAY-2015

- REF: (i)** Ministry of Environment and Forest (MoEF)/GOI environmental Clearance no. J-11011/527/2010-IA.II(I) dated 12.01.2012.
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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	37.1	31.2
2. Near ADM Building	dB(A)	Commercial area-65.0	33.2	29.2
3. Near Final Wheel Processing Sec.	dB(A)	Residential area-55.0	50.2	43.5
4. Near Furnace	dB(A)		52.9	49.1

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MONTHWISE ANALYSIS OF STACK EMISSION FOR MAY-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 / NM ³	75.00	48.1
b. SO ₂ , mg / NM ³	Not specified	31.3
c. NO ₂ , mg / NM ³	710.00	199
Stack connected to Normalizing Furnace		
a. PM, mg / NM ³	75.00	36.7
b. SO ₂ , mg / NM ³	Not specified	52.6
c. NO ₂ , mg / NM ³	710.00	230
Stack connected to 2400 KVA DG Set-1		
a. PM, mg / NM ³	75.00	29.7
b. SO ₂ , mg / NM ³	Not specified	44.4
c. NO ₂ , mg / NM ³	710.00	215
Stack connected to Draw Furnace		
a. PM, mg / NM ³	75.00	58.3
b. SO ₂ , mg / NM ³	Not specified	70.4
c. NO ₂ , mg / NM ³	710.00	225
Stack connected to I2400 KVA DG Set-2		
a. PM, mg / NM ³	75.00	32.6
b. SO ₂ , mg / NM ³	Not specified	40.7
c. NO ₂ , mg / NM ³	710.00	163
Stack connected to Incinerator		
a. PM, mg / NM ³	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 MAY-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.
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(Monitoring & Analysis done by MoEF Recognized Environmental Laboratory, Neetal India Limited, Mumbai)

Month	Parameters	Limit(Max)	Near Main Gate	Near East Side Boundary Wall (Store Yard)	Near Main Store 2	Near ADM Building (TTC)	Near Main Gate	Near East Side Boundary Wall (Store Yard)	Near Main Store 2	Near ADM Building (TTC)		
24 Hrs. Average Concⁿ in mg/m³												
May-2015	01st Monitoring					02nd Monitoring					Avg. Values	
	(Actual measured values)											
	PM ₁₀	100 µg/m ³	51.2	63.4	56.7	36.9	47.1	49.3	43.9	39.7		48.5
	PM _{2.5}	60 µg/m ³	26.9	31.8	33.2	26.7	25.3	29.7	31.8	25.5		28.8
	SO ₂	80 µg/m ³	5.4	9.8	7.3	6.9	6.1	8.4	6.3	8.3		7.3
	NO ₂	80 µg/m ³	17.3	19.5	18.7	21.3	16.2	17.3	17.8	19.9	18.5	