


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 MARCH-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)

<i>Ground Water sample</i>	UNIT	Limit as per IS10500:1991		Actual measured value	
		Limit (Max) (mg/l) Desirable	<i>Permissible limit in the absence of alternative source</i>	<i>Borewell No.1</i>	<i>Borewell No. 2</i>
1. Colour	Hazen	5.0	15	<1.00	<1.00
2. pH	--	6.5 to 8.5	No relaxation	7.2	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	259	262
5. Total Hardness as CaCO ₃	mg/l.	200.00	600.00	227	223
6. Calcium as Ca	mg/l.	75.00	200.00	25.3	26.1
7. Magnesium as Mg	mg/l.	30.00	No relaxation	27.8	28.3
8. Iron as Fe	mg/l.	0.30	No relaxation	0.15	0.17
9. Total Alkalinity as CaCO ₃	mg/l.	200.00	600.00	274	278
10. Chloride as Cl	mg/l.	250.00	1000.00	43.2	40.5
11. Sulphate as SO ₄	mg/l.	200.00	400.00	15.4	15.9
12. Nitrate as NO ₃	mg/l.	45.00	No relaxation	3.2	3.7
13. Fluoride as F	mg/l.	1.00	1.50	0.15	0.14
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 MARCH-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 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	37.4	30.6
2. Near ADM Building	dB(A)	Commercial area-65.0	34.6	28.8
3. Near Final Wheel Processing Sec.	dB(A)	Residential area-55.0	48.9	41.6
4. Near Furnace	dB(A)		53.2	47.5

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

	Limit (Max)	Actual measured values
Stack connected to Bag House attached with Electric Arc Furnace		
a. PM, mg / NM ³	75.00	47.4
b. SO ₂ , mg / NM ³	Not specified	34.5
c. NO ₂ , mg / NM ³	710.00	202
Stack connected to Normalizing Furnace		
a. PM, mg / NM ³	75.00	35.4
b. SO ₂ , mg / NM ³	Not specified	54.9
c. NO ₂ , mg / NM ³	710.00	238
Stack connected to 2400 KVA DG Set-1		
a. PM, mg / NM ³	75.00	26.5
b. SO ₂ , mg / NM ³	Not specified	45.3
c. NO ₂ , mg / NM ³	710.00	215
Stack connected to Draw Furnace		
a. PM, mg / NM ³	75.00	57.4
b. SO ₂ , mg / NM ³	Not specified	73.5
c. NO ₂ , mg / NM ³	710.00	238
Stack connected to I2400 KVA DG Set-2		
a. PM, mg / NM ³	75.00	31.2
b. SO ₂ , mg / NM ³	Not specified	42.8
c. NO ₂ , mg / NM ³	710.00	184
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 MARCH-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												
March-2015	01st Monitoring					02nd Monitoring					Avg. Values	
	(Actual measured values)											
	PM ₁₀	100 µg/m ³	53.2	63.5	57.6	36.5	49.6	54.9	53.8	36.8		50.7
	PM _{2.5}	60 µg/m ³	28.4	31.2	33.2	26.8	27.6	29.8	32.4	26.4		29.4
	SO ₂	80 µg/m ³	6.8	8.9	7.6	7.2	6.5	8.5	6.5	8.4		7.5
	NO ₂	80 µg/m ³	17.8	19.6	19.5	19.5	17.5	17.4	16.8	19.6	18.5	