


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 JAN.'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, Netel (India) Limited, Mumbai)

Ground Water sample	UNIT	Limit as per IS10500:1991		Month-Jan-2015	
		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	7.2	7.1
3. Turbidity on NTU	NTU	1.00	5.00	<1.0	<1.0
4. Total Dissolved Solids (TDS)	mg/l.	500.00	2000.00	279	284
5. Total Hardness as CaCO ₃	mg/l.	200.00	600.00	218	218
6. Calcium as Ca	mg/l.	75.00	200.00	25.9	28.1
7. Magnesium as Mg	mg/l.	30.00	No Relaxation	28.6	29.2
8. Iron as Fe	mg/l.	0.30	No Relaxation	0.17	0.21
9. Total Alkalinity as CaCO ₃	mg/l.	200.00	600.00	276	285
10. Chloride as Cl	mg/l.	250.00	1000.00	39.2	42.8
11. Sulphate as SO ₄	mg/l.	200.00	400.00	16.9	17.8
12. Nitrate as NO ₃	mg/l.	45.00	No Relaxation	3.6	3.7
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

Remark: All the above monitoring parameters are within the limit.

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MONTH WISE ANALYSIS OF AMBIENT NOISE JAN.'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, Netel (India) Limited, Mumbai)

Monitoring Location	Unit	Limit(Max)	Day time	Night time
1. Near Main Gate	dB(A)	Industrial area-75.0	42.9	39.4
2. Near ADM Building	dB(A)	Commercial area-65.0	36.7	29.5
3. Near Final Wheel Processing Sec.	dB(A)	Residential area-55.0	59.4	51.2
4. Near Furnace	dB(A)		55.6	48.7

STACK EMISSION MONITORING REPORT FOR -JAN.'2015

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

		Jan-2015
Stack connected to Bag House attached with Electric Arc Furnace	Limit (Max)	
a. PM, mg / NM ³	75.00	54.6
b. SO ₂ , mg / NM ³	Not specified	35.9
c. NO ₂ , mg / NM ³	710.00	189
Stack connected to Normalizing Furnace		
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	
Stack connected to 2400 KVA DG Set-1		
a. PM, mg / NM ³	75.00	27.8
b. SO ₂ , mg / NM ³	Not specified	43.5
c. NO ₂ , mg / NM ³	710.00	207
Stack connected to 2400 KVA DG Set-2		
a. PM, mg / NM ³	75.00	35.6
b. SO ₂ , mg / NM ³	Not specified	25.7
c. NO ₂ , mg / NM ³	710.00	198
Stack connected to Draw Furnace		
a. PM, mg / NM ³	75.00	Not in Operation
a. SO ₂ , mg / NM ³	Not specified	
b. NO ₂ , mg / NM ³	710.00	
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	

Remark: All the above monitoring parameters are within the limit.

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MONTH WISE MONITORING & ANALYSIS OF AMBIENT AIR QUALITY JAN-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, Netel 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)	Avg. Values
24 Hrs. Average Concⁿ in mg/m³											
Jan-2015	01st Monitoring					02nd Monitoring					
	PM ₁₀	100 µg/m ³	42.8	65.3	65.3	37.5	32.4	57.8	47.6	42.1	48.8
	PM _{2.5}	60 µg/m ³	23.2	31.5	31.5	21.6	20.4	31.5	31.9	22.9	26.8
	SO ₂	80 µg/m ³	9.2	8.9	8.3	10.6	9.9	11.6	9.7	10.6	9.8
	NO ₂	80 µg/m ³	25.4	23.5	20.6	24.7	19.6	21.5	20.5	21.9	22.2