


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 AUGUST-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		Actual measured value	
		Limit (Max) (mg/l) Desirable	Permissible limit in the absence of alternative source	Borewell No.3	Borewell No. 4
1. Colour	Hazen	5.0	15	<1.00	<1.00
2. pH	--	6.5 to 8.5	No relaxation	7.0	6.8
3. Turbidity on NTU	NTU	1.00	5.00	<1.00	<1.00
4. Total Dissolved Solids (TDS)	mg/l.	500.00	2000.00	253	261
5. Total Hardness as CaCO ₃	mg/l.	200.00	600.00	224	218
6. Calcium as Ca	mg/l.	75.00	200.00	24.2	26.3
7. Magnesium as Mg	mg/l.	30.00	No relaxation	26.9	27.8
8. Iron as Fe	mg/l.	0.30	No relaxation	0.13	0.14
9. Total Alkalinity as CaCO ₃	mg/l.	200.00	600.00	270	282
10. Chloride as Cl	mg/l.	250.00	1000.00	43.2	41.6
11. Sulphate as SO ₄	mg/l.	200.00	400.00	14.6	16.9
12. Nitrate as NO ₃	mg/l.	45.00	No relaxation	3.2	3.8
13. Fluoride as F	mg/l.	1.00	1.50	0.15	0.16
14. Arsenic as As	mg/l.	0.01	0.05	<0.01	<0.01
15. Coliform	MPN	ND	--	ND	ND

<p>RAIL WHEEL PLANT/BELA (INDIAN RAILWAYS) GOVT. OF INDIA</p>		<p>OFFICE OF THE CHIEF ADMINISTRATIVE OFFICER, ADMINISTRATIVE BUILDING, VILLAGE-BELA, BLOCK- DARIAPUR, SARAN (CHHAPRA), BIHAR.</p>
---	---	--

MONTHWISE ANALYSIS OF AMBIENT NOISE LEVEL FOR AUGUST-2014

- 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)	Noise level in dB(A) (Actual measured value)	
			Day time	Night time
1. Near Main Gate	dB(A)	Industrial area-75.0	37.2	32.4
2. Near ADM Building	dB(A)	Commercial area-65.0	32.8	28.6
3. Near Final Wheel Processing Sec.	dB(A)	Residential area-55.0	49.6	43.2
4. Near Furnace	dB(A)		52.3	47.5

RAIL WHEEL PLANT/BELA (INDIAN RAILWAYS) GOVT. OF INDIA		OFFICE OF THE CHIEF ADMINISTRATIVE OFFICER, ADMINISTRATIVE BUILDING, VILLAGE-BELA, BLOCK- DARIAPUR, SARAN (CHHAPRA), BIHAR.
---	--	--

MONTHWISE ANALYSIS OF STACK EMISSION FOR AUGUST-2015
(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, , Netel (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	45.8
b. SO ₂ , mg / NM ³	Not specified	32.4
c. NO ₂ , mg / NM ³	710.00	212
Stack connected to Normalizing Furnace		
a. PM, mg / NM ³	75.00	35.2
b. SO ₂ , mg / NM ³	Not specified	55.6
c. NO ₂ , mg / NM ³	710.00	242
Stack connected to 2400 KVA DG Set-1		
a. PM, mg / NM ³	75.00	26.3
b. SO ₂ , mg / NM ³	Not specified	46.5
c. NO ₂ , mg / NM ³	710.00	232
Stack connected to Draw Furnace		
a. PM, mg / NM ³	75.00	55.2
b. SO ₂ , mg / NM ³	Not specified	72.9
c. NO ₂ , mg / NM ³	710.00	215
Stack connected to 12400 KVA DG Set-2		
a. PM, mg / NM ³	75.00	30.5
b. SO ₂ , mg / NM ³	Not specified	42.8
c. NO ₂ , mg / NM ³	710.00	186
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	

RAIL WHEEL PLANT/BELA (INDIAN RAILWAYS) GOVT. OF INDIA		OFFICE OF THE CHIEF ADMINISTRATIVE OFFICER ADMINISTRATIVE BUILDING, VILLAGE-BELA, BLOCK- DARIAPUR, SARAN (CHHAPRA), BIHAR.
---	---	---

MONTHWISE ANALYSIS OF AMBIENT AIR QUALITY FOR AUGUST-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)	
24 Hrs. Average Concⁿ in mg/m³											
August 2015	01st Monitoring					02nd Monitoring					Avg. Values
	(Actual measured values)										
	PM ₁₀	100 µg/m ³	50.6	62.8	55.6	37.9	46.9	48.3	42.5	40.3	48.1
	PM _{2.5}	60 µg/m ³	25.8	30.6	32.8	27.5	26.4	28.5	30.4	25.9	28.5
	SO ₂	80 µg/m ³	7.6	10.8	8.9	8.3	7.3	8.7	7.6	9.2	8.6
	NO ₂	80 µg/m ³	18.6	20.6	19.8	22.7	19.5	18.5	17.4	20.4	19.7

