



<b>RAIL WHEEL PLANT/BELA</b> <b>(INDIAN RAILWAYS)</b> <b>GOVT. OF INDIA</b>		<b>OFFICE OF THE</b> <b>CHIEF ADMINISTRATIVE OFFICER,</b> <b>ADMINISTRATIVE BUILDING,</b> <b>VILLAGE-BELA, BLOCK- DARIAPUR,</b> <b>SARAN (CHHAPRA), BIHAR.</b>
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### MONTH WISE ANALYSIS OF GROUND WATER SAMPLE NOEMBER-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, 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	7.3	7.2
3. Turbidity on NTU	NTU	1.00	5.00	<1.00	<1.00
4. Total Dissolved Solids (TDS)	mg/l.	500.00	2000.00	418	382
5. Total Hardness as CaCO <sub>3</sub>	mg/l.	200.00	600.00	198	197
6. Calcium as Ca	mg/l.	75.00	200.00	39.2	32.8
7. Magnesium as Mg	mg/l.	30.00	No relaxation	28.9	26.2
8. Iron as Fe	mg/l.	0.30	No relaxation	0.14	0.7
9. Total Alkalinity as CaCO <sub>3</sub>	mg/l.	200.00	600.00	284	248
10. Chloride as Cl	mg/l.	250.00	1000.00	41	35
11. Sulphate as SO <sub>4</sub>	mg/l.	200.00	400.00	18.6	19.4
12. Nitrate as NO <sub>3</sub>	mg/l.	45.00	No relaxation	3.5	4.2
13. Fluoride as F	mg/l.	1.00	1.50	0.12	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-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, , 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)	<b>Industrial area-75.0</b>	<b>48.3</b>	<b>44.7</b>
2. Near ADM Building	dB(A)	<b>Commercial area-65.0</b>	<b>42.5</b>	<b>36.4</b>
3. Near Final Wheel Processing Sec.	dB(A)	<b>Residential area-55.0</b>	<b>58.8</b>	<b>52.6</b>
4. Near Furnace	dB(A)		<b>65.2</b>	<b>59.7</b>

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**MONTHWISE ANALYSIS OF STACK EMISSION FOR NOVEMBER-2014**  
(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, , Netal (India) Limited,Mumbai)

		Actual measured values
<b>Stack connected to Bag House attached with Electric Arc Furnace</b>	<b>Limit (Max)</b>	
a. PM, mg / NM <sup>3</sup>	<b>75.00</b>	<b>Not in Operation</b>
b. SO <sub>2</sub> , mg / NM <sup>3</sup>	<b>Not specified</b>	
c. NO <sub>2</sub> , mg / NM <sup>3</sup>	<b>710.00</b>	
<b>Stack connected to Normalizing Furnace</b>		
a. PM, mg / NM <sup>3</sup>	<b>75.00</b>	<b>10.0</b>
b. SO <sub>2</sub> , mg / NM <sup>3</sup>	<b>Not specified</b>	<b>07</b>
c. NO <sub>2</sub> , mg / NM <sup>3</sup>	<b>710.00</b>	<b>30.1</b>
<b>Stack connected to 2400 KVA DG Set-1</b>		
a. PM, mg / NM <sup>3</sup>	<b>75.00</b>	<b>46.2</b>
b. SO <sub>2</sub> , mg / NM <sup>3</sup>	<b>Not specified</b>	<b>72.8</b>
c. NO <sub>2</sub> , mg / NM <sup>3</sup>	<b>710.00</b>	<b>168</b>
<b>Stack connected to Draw Furnace</b>		
a. PM, mg / NM <sup>3</sup>	<b>75.00</b>	14.8
b. SO <sub>2</sub> , mg / NM <sup>3</sup>	<b>Not specified</b>	<b>Not Detectable</b>
c. NO <sub>2</sub> , mg / NM <sup>3</sup>	<b>710.00</b>	<b>60.2</b>
<b>Stack connected to I2400 KVA DG Set-2</b>		
a. PM, mg / NM <sup>3</sup>	<b>75.00</b>	50.2
b. SO <sub>2</sub> , mg / NM <sup>3</sup>	<b>Not specified</b>	85.2
c. NO <sub>2</sub> , mg / NM <sup>3</sup>	<b>710.00</b>	178
<b>Stack connected to Incinerator</b>		
a. PM, mg / NM <sup>3</sup>	<b>75.00</b>	<b>Not in Operation</b>
b. SO <sub>2</sub> , mg / NM <sup>3</sup>	<b>Not specified</b>	
c. NO <sub>2</sub> , mg / NM <sup>3</sup>	<b>710.00</b>	

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### **MONTHWISE ANALYSIS OF AMBIENT AIR QUALITY FOR NOVEMBER-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.  
**(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)		
<b>24 Hrs. Average Conc<sup>n</sup> in µg/m<sup>3</sup></b>												
Nov-2014	<b>01<sup>st</sup> Monitoring</b>					<b>02<sup>nd</sup> Monitoring</b>					<b>Avg. Values</b>	
	<b>(Actual measured values)</b>					<b>(Actual Measured values)</b>						
	PM <sub>10</sub>	100 µg/m <sup>3</sup>	44.8	60.2	55.3	32.8	38.9	42.4	64.3	46.2		<b>48.1</b>
	PM <sub>2.5</sub>	60 µg/m <sup>3</sup>	18.6	28.6	32.5	20.6	22.1	26.5	38.5	30.7		<b>27.2</b>
	SO <sub>2</sub>	80 µg/m <sup>3</sup>	08.3	10.4	12.4	06.0	10.6	14.3	15.5	16.6		<b>11.7</b>
	NO <sub>2</sub>	80 µg/m <sup>3</sup>	26.4	24.1	25.5	20.8	22.3	25.1	28.6	23.8	<b>24.6</b>	

