



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 FEB-2017

- 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-6094, dated 03.08.2016.
- (iii) BSPCB Emission Consent Order letter No. PT(NOC)-628/09 T-6095, dated 03.08.2016.

(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, EMTRC Consultants Pvt. Ltd.)

<i>Ground Water sample</i>	UNIT	Limit as per IS10500:1991		Feb-2017	
		Limit (Max) (mg/l) Desirable	<i>Permissible limit in the absence of alternative source</i>	<i>Borewell No. 2</i>	<i>Borewell No. 3</i>
1. pH	--	6.5 to 8.5	--	7.22	7.28
2. Colour	Hazen	5	15	Colorless	Colorless
3. Turbidity on NTU	NTU	1	5	<1	<1
4. Total Dissolved Solids (TDS)	mg/l.	500	2000	472	480
5. Total Alkalinity as CaCO ₃	mg/l.	200	600	220	230
6. Total Hardness as CaCO ₃	mg/l.	200	600	260	270
7. Calcium as Ca	mg/l.	75	200	64	68
8. Magnesium as Mg	mg/l.	30	100	24.4	24.4
9. Sulphate as SO ₄	mg/l.	200	400	26	28
10. Chloride as Cl	mg/l.	250	1000	45	40
11. Nitrate as NO ₃	mg/l.	45	---	4.2	4.5
12. Iron as Fe	mg/l.	0.3	---	0.14	0.15
13. Arsenic as As	mg/l.	0.01	0.05	<0.001	<0.001
14. Fluoride as F	mg/l.	1.0	1.5	0.68	0.70
15. Coliform	MPN/100 ml	0	--	0	0

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MONTH WISE ANALYSIS OF NOISE SAMPLE FEB-2017

- (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)	Daytime	Night time
1. Near Main Gate	dB(A)	Day time- 75dBA Night time- 70 dBA	50.2	43.2
2. Near ADM Building	dB(A)		48.6	42.6
3. Near Final Wheel Processing Sec.	dB(A)		58.6	51.8
4. Near Furnace	dB(A)		60.2	52.4

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MONTH WISE MONITORING & ANALYSIS OF AMBIENT AIR QUALITY FEB-2017

- (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-6094, dated 03.08.2016.
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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 µg/m³										
Feb-2017	01st Monitoring					02nd Monitoring				
	PM ₁₀	100 µg/m ³ (24 hours average)	48	19	50	44	45	18	54	45
	PM _{2.5}	60 µg/m ³ (24 hours average)	20	48	22	18	18	46	20	17
	SO ₂	80 µg/m ³ (24 hours average)	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	NO ₂	80 µg/m ³ (24 hours average)	<9.0	9.6	9.2	<9.0	<9.0	<9.0	<9.0	<9.0