

# EMTRC CONSULTANTS PRIVATE LIMITED

EMTRC Lab: Recognized by Ministry of Environment & Forests, Govt. of India

NABL Accredited Laboratory ISO/IEC 17025:2005 (TC-7376)

Regd Office (For Correspondence) Tower 5 / 102 (FF), CWG village, NH24, Near Akshardham Temple, Delhi 110092

Phone: 9810032481, 011 21211228, email: emtrcjk@gmail.com website: www.emtrc.com

## TEST REPORT

Date: 03-09-2019

Report No. : EMTRC/445/2019  
Issued To : Rail Wheel Plant/Bela (Indian Railways) Govt. of India  
Dy.CME/Plg RWP, Bela, 3<sup>rd</sup> Floor Administrative Building  
PO: Arvind Nagar, Dariapur Block, District: Saran (Chhapra)  
Bihar, Pin Code- 841221  
No. of Pages : 1 of 1  
WO / PO No : 2016/Rail Wheel Plant (RWP)/Environment (Open)/1  
Nature of Sampling : Grab Sampling  
Type of Sample : Bore Well  
Sampling Location : Bore Well No.1 (Inside Plant) Monthly  
Month of Monitoring : August 2019  
Date of Sampling : 28-08-2019  
Sample Collected By : Staff of EMTRC Lab

	Parameters	Unit	Test Method	Results	Acceptable Limit IS:10500:2012	Permissible Limit in the Absence of Alternate Source IS:10500: 2012
1	pH	-	APHA-4500	7.64	6.5 to 8.5	-
2	Colour	Hazen Unit	APHA-2120B	Colorless	5	15
3	Turbidity	NTU	APHA-2030B	<1	1	5
4	Total Dissolved Solids	mg/l	APHA-2540B	570	500	2000
5	Total Alkalinity	mg/l	APHA-2320B	204	200	600
6	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA-2340C	220	200	600
7	Calcium as Ca	mg/l	APHA-4500B	64	75	200
8	Magnesium as Mg	mg/l	APHA-4500B	14.6	30	100
9	Sulphate	mg/l	APHA-4500B	24	200	400
10	Chlorides as Cl	mg/l	APHA-4500B	40	250	1000
11	Nitrates as NO <sub>3</sub>	mg/l	APHA-4500	3.8	45	-
12	Iron as Fe	mg/l	APHA-3111B	0.14	0.3	-
13	Arsenic as As	mg/l	APHA-3111B	<0.001	0.01	0.05
14	Fluoride as F	mg/l	APHA-4500D	0.72	1.0	1.5
15	Total Coliform	MPN/100ml	APHA-9230B	0	0	-

  
MUKESH KUMAR  
Authorized Signatory



**ENVIRONMENT MONITORING TRAINING & RESEARCH CENTRE**

EMTRC Lab: F-66, Road 2, UPSIDC Industrial Area, Masuri Gulawthi Road, Ghaziabad (UP) 201009



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No. of Pages : 1 of 1  
WO / PO No : 2016/Rail Wheel Plant (RWP)/Environment (Open)/1  
Nature of Sampling : Grab Sampling  
Type of Sample : Bore Well  
Sampling Location : Bore Well No.2 (Inside Plant) Monthly  
Month of Monitoring : August 2019  
Date of Sampling : 28-08-2019  
Sample Collected By : Staff of EMTRC Lab

	Parameters	Unit	Test Method	Results	Acceptable Limit IS:10500:2012	Permissible Limit in the Absence of Alternate Source IS:10500: 2012
1	pH	-	APHA-4500	7.73	6.5 to 8.5	-
2	Colour	Hazen Unit	APHA-2120B	Colorless	5	15
3	Turbidity	NTU	APHA-2030B	<1	1	5
4	Total Dissolved Solids	mg/l	APHA-2540B	580	500	2000
5	Total Alkalinity	mg/l	APHA-2320B	212	200	600
6	Total Hardness as CaCO <sub>3</sub>	mg/l	APHA-2340C	220	200	600
7	Calcium as Ca	mg/l	APHA-4500B	68	75	200
8	Magnesium as Mg	mg/l	APHA-4500B	12.2	30	100
9	Sulphate	mg/l	APHA-4500B	28	200	400
10	Chlorides as Cl	mg/l	APHA-4500B	40	250	1000
11	Nitrates as NO <sub>3</sub>	mg/l	APHA-4500	4.2	45	-
12	Iron as Fe	mg/l	APHA-3111B	0.16	0.3	-
13	Arsenic as As	mg/l	APHA-3111B	<0.001	0.01	0.05
14	Fluoride as F	mg/l	APHA-4500D	0.74	1.0	1.5
15	Total Coliform	MPN/100ml	APHA-9230B	0	0	-

  
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Bihar, Pin Code- 841221  
No. of Pages : 1 of 1  
WO / PO No : 2016/Rail Wheel Plant (RWP)/Environment (Open)/1  
Nature of Sampling : Ambient Air Quality Monitoring (Monthly)  
Sampling Location : Near Main Gate  
Month of Monitoring : August 2019  
Sample Collected By : Staff of EMTRC Lab

### TEST RESULTS

		Unit	Test Method	01 <sup>st</sup>	02 <sup>nd</sup>	National Standard
				Monitoring	Monitoring	
	<b>Date of Monitoring</b>			<b>08-08-2019</b>	<b>26-08-2019</b>	
1	PM <sub>2.5</sub>	µg/m <sup>3</sup>	SOP/13/IV Issue2, 20-03-2018	28	34	60 (24-hours average)
2	PM <sub>10</sub>	µg/m <sup>3</sup>	IS:5182 P4, 2005	60	65	100 (24-hours average)
3	Sulphur dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	IS: 5182 P2, 2001 (RA 2012)	7.2	7.8	80 (24-hours average)
4	Nitrogen dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	IS: 5182 P6, 2006 (RA 2012)	10.8	11.5	80 (24-hours average)

  
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