

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: emtrcjkm@gmail.com website: www.emtrc.com

TEST REPORT

Date: 04-06-2019

Report No. : EMTRC/186/2019
Issued To : Rail Wheel Plant/Bela (Indian Railways) Govt. of India
Dy.CME/Plg RWP, Bela, 3rd 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. 3 (Inside Plant) Monthly
Month of Monitoring : May 2019
Date of Sampling : 28-05-2019
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	7.62	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	540	500	2000
5	Total Alkalinity	mg/l	APHA-2320B	200	200	600
6	Total Hardness as CaCO ₃	mg/l	APHA-2340C	210	200	600
7	Calcium as Ca	mg/l	APHA-4500B	64	75	200
8	Magnesium as Mg	mg/l	APHA-4500B	12.2	30	100
9	Sulphate	mg/l	APHA-4500B	22	200	400
10	Chlorides as Cl	mg/l	APHA-4500B	25	250	1000
11	Nitrates as NO ₃	mg/l	APHA-4500	3.5	45	-
12	Iron as Fe	mg/l	APHA-3111B	0.12	0.3	-
13	Arsenic as As	mg/l	APHA-3111B	<0.001	0.01	0.05
14	Fluoride as F	mg/l	APHA-4500D	0.78	1.0	1.5
15	Total Coliform	MPN/100ml	APHA-9230B	0	0	-


MUKESH KUMAR
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Nature of Sampling : Grab Sampling
Type of Sample : Bore Well
Sampling Location : Bore Well No.4 (Inside Plant) Monthly
Month of Monitoring : May 2019
Date of Sampling : 28-05-2019
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	7.74	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	590	500	2000
5	Total Alkalinity	mg/l	APHA-2320B	230	200	600
6	Total Hardness as CaCO ₃	mg/l	APHA-2340C	236	200	600
7	Calcium as Ca	mg/l	APHA-4500B	67	75	200
8	Magnesium as Mg	mg/l	APHA-4500B	16.5	30	100
9	Sulphate	mg/l	APHA-4500B	48	200	400
10	Chlorides as Cl	mg/l	APHA-4500B	32	250	1000
11	Nitrates as NO ₃	mg/l	APHA-4500	4.5	45	-
12	Iron as Fe	mg/l	APHA-3111B	0.15	0.3	-
13	Arsenic as As	mg/l	APHA-3111B	<0.001	0.01	0.05
14	Fluoride as F	mg/l	APHA-4500D	0.76	1.0	1.5
15	Total Coliform	MPN/100ml	APHA-9230B	0	0	-


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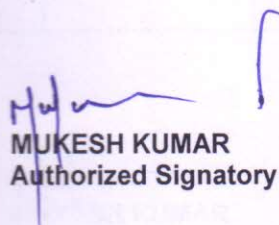
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Nature of Sampling : Ambient Air Quality Monitoring (Monthly)
Sampling Location : Near Main Gate
Month of Monitoring : May 2019
Sample Collected By : Staff of EMTRC Lab

TEST RESULTS

	Unit	Test Method	01 st	02 nd	National Standard	
			Monitoring	Monitoring		
Date of Monitoring			04-05-2019	28-05-2019		
1	PM _{2.5}	µg/m ³	SOP/13/IV Issue2, 20-03-2018	45	42	60 (24-hours average)
2	PM ₁₀	µg/m ³	IS:5182 P4, 2005	88	82	100 (24-hours average)
3	Sulphur dioxide (SO ₂)	µg/m ³	IS: 5182 P2, 2001 (RA 2012)	9.2	8.8	80 (24-hours average)
4	Nitrogen dioxide (NO ₂)	µg/m ³	IS: 5182 P6, 2006 (RA 2012)	16.8	15.2	80 (24-hours average)


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