



EMTRC CONSULTANTS PRIVATE LIMITED

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

Gazette Notification SO 592 (E) 08.03.2013

Regd. Office: (For Correspondence) Tower 5/ 102(FF), CWG Vilege, Nh24, Near Akshardham Temple, Delhi-110092

Phone: 98100 32481, 011-2121 1228, E-mail: emtrcjk@gmail.com, Website: www.emtrc.com

CIN: U51909DL2002PTC114840, GSTN: 07AABCE0945N1ZI, PAN: AABCE0945N

TEST REPORT

Dated: 28.05.2018

Report No. : EMTRC/09/2018
Issued To : MB POWER (Madhya Pradesh) Limited
Jaithari, Anuppur, Madhya Pradesh-484224
Nature of Sampling : Grab Sample
Type of Sample : Ground Water / Piezometer-7
Sampling Location : Near Coal Yard (Ash Pond Area)
Date of Sample Collection : 25-05-2018
Sample Collected by : Scientist of EMTRC

	Parameters	Unit	Test Methods	RESULTS	Prescribed Limit IS:10500:2012
1	Colour	Hazen Unit	APHA-2120B	Colourless	15
2	Odour	-	APHA-2150B	Unobjectionable	Unobjectionable
3	pH	-	APHA-4500	6.88	6.5 – 8.5
4	Conductivity	µmhos/cm	APHA-2510	630	-
5	Turbidity	NTU	APHA-2030B	2	5
6	Total Dissolved Solids	mg/l	APHA-2540B	440	2000
7	Total Hardness as CaCO ₃	mg/l	APHA-2340C	240	600
8	Calcium as Ca	mg/l	APHA-4500B	64	75
9	Magnesium as Mg	mg/l	APHA-4500B	19	30
10	Chlorides as Cl	mg/l	APHA-4500B	18	1000
11	Nitrates as NO ₃	mg/l	APHA-4500	4.8	45
12	Phenolic compound	mg/l	APHA-5230D	<0.001	0.002
13	Sulphate as SO ₄	mg/l	APHA-4500E	23.8	400
14	Fluoride as F	mg/l	APHA-4500D	0.84	1.5
15	Iron as Fe	mg/l	APHA-3111B	0.08	0.3
16	Copper as Cu	mg/l	APHA-3111B	<0.02	1.5
17	Lead as Pb	mg/l	APHA-3111B	<0.01	0.01
18	Manganese as Mn	mg/l	APHA-3111B	<0.05	0.3
19	Zinc as Zn	mg/l	APHA-3111B	1.18	15
20	Chromium	mg/l	APHA-3111B	<0.05	0.05
21	Nickel as Ni	mg/l	APHA-3111B	<0.01	0.05
22	Oil & Grease	mg/l	APHA-5520D	Nil	0.03
23	Cadmium as Cd	mg/l	APHA-3111B	<0.01	0.003
24	Mercury as Hg	mg/l	APHA-3111B	<0.001	0.001
25	Arsenic as As	mg/l	APHA-3111B	<0.001	0.05
26	Selenium as Se	mg/l	APHA-3111B	<0.01	0.01
27	Cyanide as CN	mg/l	APHA-4500E	<0.01	0.05
28	Total coliform	MPN/100ml	APHA-9230B	Nil	Nil



Authorized Signatory
(Government Analyst)



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TEST REPORT

Dated: 28.05.2018

Report No. : EMTRC/09/2018
Issued To : MB POWER (Madhya Pradesh) Limited
Jaithari, Anuppur, Madhya Pradhesh-484224
No. of Pages : 1 of 1
Nature of Sampling : Grab Sample
Type of Sample : Ground Water / Piezometer-6
Sampling Location : Near Fuel Oil Pump House (Ash pond Area)
Date of Sample Collection : 25-05-2018
Sample Collected by : Scientist of EMTRC

	Parameters	Unit	Test Methods	RESULTS	Prescribed Limit IS:10500:2012
1	Colour	Hazen Unit	APHA-2120B	Colourless	15
2	Odour	-	APHA-2150B	Unobjectionable	Unobjectionable
3	pH	-	APHA-4500	7.42	6.5 – 8.5
4	Conductivity	µmhos/cm	APHA-2510	570	-
5	Turbidity	NTU	APHA-2030B	1	5
6	Total Dissolved Solids	mg/l	APHA-2540B	410	2000
7	Total Hardness as CaCO ₃	mg/l	APHA-2340C	190	600
8	Calcium as Ca	mg/l	APHA-4500B	48	75
9	Magnesium as Mg	mg/l	APHA-4500B	17	30
10	Chlorides as Cl	mg/l	APHA-4500B	25	1000
11	Nitrates as NO ₃	mg/l	APHA-4500	4.8	45
12	Phenolic compound	mg/l	APHA-5230D	<0.001	0.002
13	Sulphate as SO ₄	mg/l	APHA-4500E	20.8	400
14	Fluoride as F	mg/l	APHA-4500D	0.78	1.5
15	Iron as Fe	mg/l	APHA-3111B	0.05	0.3
16	Copper as Cu	mg/l	APHA-3111B	<0.02	1.5
17	Lead as Pb	mg/l	APHA-3111B	<0.01	0.01
18	Manganese as Mn	mg/l	APHA-3111B	<0.05	0.3
19	Zinc as Zn	mg/l	APHA-3111B	1.04	15
20	Chromium	mg/l	APHA-3111B	<0.05	0.05
21	Nickel as Ni	mg/l	APHA-3111B	<0.01	0.05
22	Oil & Grease	mg/l	APHA-5520D	Nil	0.03
23	Cadmium as Cd	mg/l	APHA-3111B	<0.01	0.003
24	Mercury as Hg	mg/l	APHA-3111B	<0.001	0.001
25	Arsenic as As	mg/l	APHA-3111B	<0.001	0.05
26	Selenium as Se	mg/l	APHA-3111B	<0.01	0.01
27	Cyanide as CN	mg/l	APHA-4500E	<0.01	0.05
28	Total coliform	MPN/100ml	APHA-9230B	Nil	Nil



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Issued To : MB POWER (Madhya Pradesh) Limited
Jaithari, Anuppur, Madhya Pradesh-484224
No. of Pages : 1 of 1
Nature of Sampling : Grab Sample
Type of Sample : Ground Water /(Piezometer-5)
Sampling Location : Near Tower Line-ROC (Ash Pond Area)
Date of Sample Collection : 25-05-2018
Sample Collected by : Scientist of EMTRC

	Parameters	Unit	Test Methods	RESULTS	Prescribed Limit IS:10500:2012
1	Colour	Hazen Unit	APHA-2120B	Colourless	15
2	Odour	-	APHA-2150B	Unobjectionable	Unobjectionable
3	pH	-	APHA-4500	7.08	6.5 – 8.5
4	Conductivity	µmhos/cm	APHA-2510	430	-
5	Turbidity	NTU	APHA-2030B	1	5
6	Total Dissolved Solids	mg/l	APHA-2540B	330	2000
7	Total Hardness as CaCO ₃	mg/l	APHA-2340C	190	600
8	Calcium as Ca	mg/l	APHA-4500B	48	75
9	Magnesium as Mg	mg/l	APHA-4500B	17	30
10	Chlorides as Cl	mg/l	APHA-4500B	30	1000
11	Nitrates as NO ₃	mg/l	APHA-4500	6.4	45
12	Phenolic compound	mg/l	APHA-5230D	<0.001	0.002
13	Sulphate as SO ₄	mg/l	APHA-4500E	22.2	400
14	Fluoride as F	mg/l	APHA-4500D	0.98	1.5
15	Iron as Fe	mg/l	APHA-3111B	0.08	0.3
16	Copper as Cu	mg/l	APHA-3111B	<0.02	1.5
17	Lead as Pb	mg/l	APHA-3111B	<0.01	0.01
18	Manganese as Mn	mg/l	APHA-3111B	<0.05	0.3
19	Zinc as Zn	mg/l	APHA-3111B	1.18	15
20	Chromium	mg/l	APHA-3111B	<0.05	0.05
21	Nickel as Ni	mg/l	APHA-3111B	<0.01	0.05
22	Oil & Grease	mg/l	APHA-5520D	Nil	0.03
23	Cadmium as Cd	mg/l	APHA-3111B	<0.01	0.003
24	Mercury as Hg	mg/l	APHA-3111B	<0.001	0.001
25	Arsenic as As	mg/l	APHA-3111B	<0.001	0.05
26	Selenium as Se	mg/l	APHA-3111B	<0.01	0.01
27	Cyanide as CN	mg/l	APHA-4500E	<0.01	0.05
28	Total coliform	MPN/100ml	APHA-9230B	Nil	Nil



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