MAHARASHTRA STATE POWER GENERATION COMPANY LIMITED
Bhusawal Thermal Power Station, Deepnagar
(An ISO 9001:2015, ISO14001:2015 ISO 45001:2018, EMS 50001:2011 Certified Units)
MAHAGENCO
Maharashtra State Power Generation Co. Ltd.
CIN: U40100MH2005SGC153648

Chief Engineer (O&M),
Bhusawal Thermal Power Station,
Deepnagar, Tal. Bhusawal
Dist. Jalgaon (MS) – 425307
(02582) 250207
cegenbhusawal@mahagenco.in

Ref. No: CE(O&M)/BTPS/Env. Cell/FL-38 Date: 24 JUL 2025

No-1476

To,
Director,
Regional Office (WCZ),
MoEF & CC, Ground floor, East wing,
New Secretariat Building,
Civil lines Nagpur-440001.

Subject: Updated status of compliance of Environmental Clearance Conditions pertains to 2x500MW Bhusawal Thermal Power plant six monthly report (Jan-2025 to Jun-2025).

Ref.: F. No. J-13011/12/2006-IA. II (T) Dtd.27.11.2006.

Respected Sir,

With reference to above subject, the updated status of compliance for the Environmental Clearance (EC) Conditions for unit no. 4 & 5 (500MW), BTPS for the period Jan-2025 to Jun-2025 is as follows:

S.N.	Environment Conditions	Present Status
1	All the conditions stipulated by Maharashtra Pollution Control Board vide their letter No. BO / RO (P&P) / CC-579 Dtd. 08.08.2006 shall be strictly implemented.	Complied. BTPS has provided Sewage Treatment Plant (STP) of Capacity 1000 M^3/Day & it is in service. Effluent standards are maintained as per consent norms, treated sewage effluent is utilized for gardening & remaining is used for ash disposal. Operation & maintenance of STP is done through third party Annual Operation & Maintenance contract. Effluent Treatment Plant (ETP) of Capacity 855 M3/Hr is provided & is in service. Effluent standards are maintained as per consent norms, and treated effluent is utilized for ash disposal & plant activities at 2x500 MW. Operation & maintenance of ETP is done through Annual Operation & Maintenance contract. Bhusawal TPS has provided Ash Water Recovery (AWR) system (commissioned on Dtd.20.02.2017) & it is in service. BTPS has achieved Zero liquid discharge (ZLD); clear water is continuously recovered from ash water recovery system and is utilized for ash disposal. Operation & maintenance of recovery system is done through annual contract. All conditions stipulated by MPCB in Consent to establish are complied by Bhusawal TPS.
2	No additional land shall be acquired for the project including ash pond.	Additional land is not acquired for the project of 2×500 MW & for ash pond.
3	Particulate emission from the	Presently Bhusawal TPS has maintaining the SPM

	existing units shall not exceed 150 mg/Nm3 and ammonia dozing system in unit 2 shall be completed by December 2007 to limit the particulate emission within 150 mg/Nm3. In case of the proposed new units, it shall not exceed 100 mg/Nm3.	Emission level of Old Unit i.e. Unit No.3 (210MW) below 100 mg/Nm3 and of new Units i.e. Unit No. 4 & 5 (2X500MW) below 50 mg/Nm3. Unit No. 2 (210 MW) decommissioned w.e.f. 01.04.2017 (It was declared closed as per MSPGCL Board Resolution No. MSPGCL / CS / BM / 172 / 172.12 Dtd.22.08.2017).
4	Fly ash shall be collected in dry form only and 100% fly ash utilization shall be ensured. However, in case of emergency, the unutilized fly ash shall be dumped in the existing ash pond in the form of high concentration slurry.	Complied. Presently Fly Ash utilization of 2x500 MW, BTPS for the period of Jan-2025 to Jun-2025 is 107.36 %.
5	The sulphur and ash content in the coal to be used for the power plant shall not exceed 0.6 % and 34 % respectively.	MoEF&CC, Govt. of India Gazette Notification Dtd.21.05.2020 has permitted to use of coal by Thermal Power Plants without stipulations as regards Ash content. Hence, it is requested to relax the condition of use of coal by power plant with stipulated sulphur and ash percentage. Whereas Bhusawal TPS is using imported coal blending with raw coal to achieve the said parameters.
6	Rainwater harvesting shall be practiced. A details scheme for rainwater harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority / State Ground water Board and a copy of same shall be submitted within three months to the Ministry.	Natural rainwater flow is collected through collection channel and stored in storm water storage tank of capacity: 3300 M3 for the purpose of water percolation. Excess water is used for plant activities.
7	The treated effluent conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon.	Bhusawal TPS is using Treated effluent from ETP & Ash Water Recovery (AWR) for ash handling to achieve Zero liquid discharge (ZLD).
8	Two single flue stacks of 275 m each with exit velocity of not less than 21 m/sec shall be installed with continuous on-line monitoring system.	Bhusawal TPS has provided Combine stack with separate plume for Unit No. 4 & 5 of height 275 meters. Online monitoring system is provided to the stack for parameters SPM, SO2 & NOX and the system is connected to CPCB/ MPCB server.
9	Electrostatic Precipitators (ESPs) with an efficiency of not less than 99.9% shall be installed to limit particulate emission within 100 mg/Nm3. Automatic system for shutting down the power plant in the event of non-functioning of ESPs	Bhusawal TPS has provided ESPs with 72 fields based on modern technology for Unit No. 4 & 5, followed by combine stack of height 275 meters. ESP efficiency of Unit No. 4 & 5 (2x500 MW) is 99.98 %.

	shall be installed.	
10	Regular monitoring of ground water in land around the ash pond area shall be carried out; records maintained, and quarterly report shall be furnished to the regional office of the Ministry.	Ground water samples are collected and analysed around the periphery of 20 KMs from 12 different villages around ash pond is monitored quarterly through MoEF&CC recognized agency. Reports are attached herewith.
11	A forestation shall be done in 100 acres of degraded forest land to be identified in close vicinity of the project area in consultation with the State Forest department in lieu of green belt. Necessary allocation of funds in this regard shall be made and include in the project cost.	In this regard, this office made correspondence with nearest forest department vide letter under Ref. Letter No. भु.औ.वि.कें. / मु.अ. / पर्यावरण/No.1747 दि.07/10/2024. for allocation of 100 Acre land and plantation with care up to 5 years. In response to same, letter under Ref. Letter of Forest Dept. No. जा.क्र.ब/कक्ष-५/ जमीन/२०२४-२५/2169 दि.16.10.2024. with detailed estimation for allocation of 40 Hectors (i.e. near about 100 Acre) land and plantation on same with care up to 5 years is received. According to the estimation received from Forest Department, on 40 Hectors land total 64000 trees will be planted. Total cost for 64000 trees, staring from plantation to the care about 5 years mentioned is Rs. 3,55,11,794/-. So, the cost for each plant has come out is Rs.555/-.
12	First aid and sanitations and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.	Bhusawal TPS (2x500 MW) project work already completed, these facilities were already provided during the project stage.
13	Leq of Noise level should be limited to 75 dBA and regular maintenance of equipment be undertaken. For people working in high noise area, personal protection devices should be provided.	Personal protective equipments / devices i.e. Ear plugs / muffs are provided to the people working in high noise area. Noise level measurement is carried out by MoEF & CC approved agency once in a month.
14	Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. Periodic quarterly reports shall be submitted to the regional office of this ministry on six monthly bases.	Bhusawal TPS has monitored the Ambient Air Quality (AAQ) through MoEF & CC approved agency twice in a week at four different locations. (Report attached).
15	For controlling fugitive dust, regular sprinkling of water in coal storage area and other vulnerable area of the plant shall be ensured.	Bhusawal TPS has provided Dust suppression system at all wagon tipplers of Unit No. 3, 4 & 5. Dust extraction system is provided to crusher house. Water sprinkling system is provided at CHP stack yard. Portable fogger system is provided at crusher house.
16	The project proponent shall advertise in at least two local newspapers	Complied.

	widely circulated in the region around the project, one of which shall be in the project, one of which shall be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at http:// envfor.nic.in.	
17	A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated.	Complied. Bhusawal TPS has provided Separate Environment Monitoring Cell with suitable qualified staff.
18	Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry regional office / CPCB / SPCB.	Complied.
19	Regional Office of the Ministry of Environment of Forest located at Bhopal will monitor the implementation of the stipulated conditions. A complete set of Document including Environmental Impact Assessment Report of Environmental management plan along with additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.	Complied.
20	Separate fund should be allocated to implementation of environmental protection measures along with the item wise break-up. This cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year wise expenditure should be reported to the Ministry.	Complied.
21	Full co-operation should be extended to the Scientist / officers from the Ministry / Regional Office of the Ministry at Bhopal / the CPCB / the	Yes, full co-operation provided during every visit of MPCB officers.

	SPCB who would be monitoring the compliance of environmental status.	
22	The Ministry reserves the rights to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.	Complied.
23	The environmental clearance accorded shall be valid for a period of 5 year to the start of production operations by the power plant.	The environmental clearance was granted on Dtd.27.11.2006 and Project work was completed within stipulated period.
24	In case of any deviation or alteration in the proposed project from that submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.	Complied.
25	The above stipulations shall be enforced among others under the water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environmental (Protection) Act, 1986, the Manufacture, storage and Import of Hazardous Chemical Rules, 1989, Hazardous wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991 and amendments and rules made there under.	Complied.

Bhusawal TPS is taking all environmental mitigating measures for implementation and provision of systems to achieve environmental clearance conditions, Consent conditions, MoEF & CC norms as per the guideline of MOEF&CC/CPCB/ MPCB.

Chief Engineer (O&M)
BTPS, Deepnagar

Encl: As stated above

Copy s.w.r.to:

1. Sub-Regional Officer, Jalgaon, MPCB office, Hall "A" 3rd Floor, B. J. Market, **Jalgaon-425001.**
2. The Executive Director (E&S), MSPGCL, HDIL Tower, "A" wing, 3rd Floor, Prof. A. K. Marg, Bandra (East), **MUMBAI-51.**

Month	Unit	Stack Emmission					Avg.PLF (%)	Power Generation (MUs)	Water Consumption (M3)	Sp. Water Consumption (M3/KWh)
		SPM (mg/Nm3)			SO2 (mg/Nm3)	NO2 (mg/Nm3)				
		Min	Max	Avg						
Jan-25	U- 3	74	99	73	762	244	67.972	106.200	212235	2.00
	U- 4	38	44	43	1124	236	69.057	526.280	1289693	2.45
	U- 5	41	43	42	1127	236	72.417			
Feb-25	U- 3	93	134	107	770	240	67.482	95.230	190644	2.00
	U- 4	32	42	39	1159	235	68.013	484.480	1259354	2.60
	U- 5	40	44	43	1173	244	76.177			
Mar-25	U- 3	94	162	129	802	238	53.677	83.865	363823	4.34
	U- 4	42	45	44	1209	208	81.917	561.400	1457189	2.60
	U- 5	41	43	42	1213	235	68.970			
Apr-25	U- 3	93	108	97	791	241	60.995	92.225	409628	4.44
	U- 4	42	44	43	1208	240	73.526	480.715	1310574	2.73
	U- 5	41	44	42	1222	240	60.006			
May-25	U- 3	91	97	94	807	241	23.233	36.299	170742	4.70
	U- 4	43	46	45	1196	233	61.941	472.165	1254495	2.66
	U- 5	41	56	46	1204	238	64.985			
Jun-25	U- 3	RSD	RSD	RSD	RSD	RSD	RSD	RSD	RSD	RSD
	U- 4	42	44	43	1181	236	40.570	386.597	1057688	2.74
	U- 5	43	44	43	1207	236	66.818			

Manual Ambient Air Quality Monitoring Report Period Jan-2025 to Jun-2025

Month	Location	PM2.5 (µg/m3)	PM10 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	Pb (µg/m3)	NH_3 (µg/m3)	CO (µg/m3)	O_3 (µg/m3)	Benzo Pyrene	C6H6 (Benzene)	Ni (ng/m3)	As (ng/m3)
Jan-25	ETP (500MW)	26.15	64.39	19.51	24.69	BLQ	24.00	1.29	23.55	BLQ	1.24	4.66	1.02
	Fire fighting House (500MW)	30.77	68.15	22.29	27.47	BLQ	24.60	1.43	27.15	BLQ	1.39	5.28	1.21
	New Guest House	25.44	58.25	17.95	23.04	BLQ	23.25	1.34	23.88	BLQ	1.23	4.16	0.92
	Pimprisekam Railway Gate	29.49	65.73	21.26	28.48	BLQ	23.53	1.71	26.45	BLQ	1.35	4.98	1.10
Feb-25	ETP (500MW)	20.00	64.00	30.98	30.03	BLQ	23.25	1.50	22.80	BLQ	1.31	4.11	2.38
	Fire fighting House (500MW)	22.50	64.50	32.90	30.23	BLQ	23.40	1.36	26.08	BLQ	1.30	4.28	2.05
	New Guest House	23.75	66.25	28.53	29.53	BLQ	22.95	1.70	25.35	BLQ	1.44	4.25	1.75
	Pimprisekam Railway Gate	24.50	65.00	29.33	32.83	BLQ	22.50	1.85	27.53	BLQ	1.43	3.92	1.93
Mar-25	ETP (500MW)	18.00	49.00	32.43	29.45	BLQ	23.20	1.48	22.97	BLQ	1.31	4.02	2.44
	Fire fighting House (500MW)	21.75	65.00	33.00	29.78	BLQ	23.50	1.35	26.20	BLQ	1.41	3.68	2.04
	New Guest House	21.25	66.00	32.20	27.90	BLQ	22.35	1.78	24.78	BLQ	1.43	3.72	1.35
	Pimprisekam Railway Gate	23.25	63.50	29.63	28.43	BLQ	22.48	1.78	26.55	BLQ	1.16	3.69	1.91
Apr-25	ETP (500MW)	25.75	69.38	21.18	26.90	BLQ	29.25	1.11	23.28	BLQ	1.15	4.44	1.35
	Fire fighting House (500MW)	31.75	73.38	24.98	34.59	BLQ	28.74	1.30	24.40	BLQ	1.18	5.30	1.38
	New Guest House	24.13	58.63	19.86	26.90	BLQ	24.58	0.89	24.18	BLQ	1.14	3.79	1.18
	Pimprisekam Railway Gate	32.88	77.63	23.41	26.65	BLQ	31.83	1.42	25.89	BLQ	1.23	4.79	1.35
May-25	ETP (500MW)	17.25	56.25	17.21	21.63	BLQ	22.97	0.99	22.74	BLQ	1.10	3.60	1.10
	Fire fighting House (500MW)	20.88	62.00	20.59	25.65	BLQ	23.82	1.20	23.30	BLQ	1.14	3.64	1.12
	New Guest House	16.88	47.38	13.39	19.14	BLQ	21.53	0.88	23.20	BLQ	1.08	BLQ	0.93
	Pimprisekam Railway Gate	22.88	63.38	19.38	23.95	BLQ	24.10	1.14	23.12	BLQ	1.12	4.68	1.14
Jun-25	ETP (500MW)	19.63	57.88	15.08	20.00	BLQ	23.90	0.90	22.57	BLQ	1.03	3.40	0.88
	Fire fighting House (500MW)	24.75	64.38	18.80	24.68	BLQ	26.08	1.01	23.58	BLQ	1.22	3.68	0.99
	New Guest House	16.00	47.00	12.44	16.83	BLQ	22.97	0.73	23.67	BLQ	1.02	3.00	0.76
	Pimprisekam Railway Gate	26.00	65.75	17.15	22.45	BLQ	23.20	1.06	24.43	BLQ	1.10	3.63	1.00

2 X 500MW

MONTHLY UTILISATION OF FLY ASH AT BHSAWAL TPS FOR THE PERIOD JAN-2025 TO JUN-2025

MONTH	* COAL CONS.(MT) (Net)	ASH %	TOTAL ASH GEN.(MT)	Total Bottom Ash Generated (MT)	Total Fly Ash Generated (MT)	Dry Fly Ash Utilization (MT)			CATEGORYWISE ASH UTILISATION (MT)							Total Wet Ash Uti	Total Ash Uti (MT)	Dry Fly Ash Uti (%)	Total ASH UTI (%)
						Fly Ash Qty Lifted By 80% offtakers (Cement Companies and Others)	Fly Ash Qty Lifted By 20% offtankers (SSI)	Total DFA Utilization	AGRI / FERTILIZER (MT)	BRICKS / BLOCKS (MT)	Building/ CEMENT (MT)	ROAD / CONST. / EMBANKMENT (MT)	Ash Dyke Raising/embanknt	LAND FILL / MINE FILL (MT)	ASBESTOS(MT)				
Jan-25	437534.00	38.07	166569.19	49970.76	116598.44	103724.29	20426.76	124151.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124151.05	**106.48**	**74.53**
Feb-25	400180.00	38.03	152188.45	45656.54	106531.92	94753.19	20188.10	114941.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	114941.29	**107.89**	**75.53**
Mar-25	475331.00	39.02	185474.16	55642.25	129831.91	107984.73	20461.46	128446.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128446.19	**98.93**	**69.25**
Apr-25	399900.00	39.43	157680.57	47304.17	110376.40	84697.52	15476.20	100173.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100173.72	**90.76**	**63.53**
May-25	363567.00	38.83	141173.07	42351.92	98821.15	92400.00	21991.20	114391.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	114391.20	**115.76**	**81.03**
Jun-25	306958.00	38.64	118608.57	35582.57	83026.00	84060.38	20009.42	104069.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	104069.80	**125.35**	**87.74**
TOTAL	**2383470.00**		**921694.01**	**276508.20**	**645185.81**	**567620.11**	**118553.14**	**686173.25**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**686173.25**	**106.35**	**74.45**

Remarks :- Pond Ash Lifted from Ash Bund is used for Agri./Fertilizers,Bricks/Blocks,Road Const/ Embankment, Land Fill/ Mine Fill & Asbestos

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TC-5509

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ULR-TC550925000003968F

TEST REPORT

Sample ID : W/02/25/0228	Report No.: W/02/25/0228	Report Date	17/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Open well (Mr. Prashant Bonde, Village: Manyarkhede)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/485 dated 07.02.2025	Date - Completion of Analysis	17/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Temperature	**30.1**	-	-	°C	IS 3025 (Part 9):1984
2.	Colour	**1**	Max. 5	Max.15	Hazen Units	IS 3025 (Part 4), Method No.4: 1983
3.	pH Value	**8.36**	6.5 - 8.5	No relaxation	-	IS 3025 (Part 11):2022
4.	Turbidity	**2.23**	Max. 1	Max.5	NTU	IS 3025 (Part 10):2023
5.	Biochemical Oxygen Demand (3 days, 27°C)	**2**	Not specified	Not specified	mg/L	IS 3025 (Part 44): 1993
6.	Chemical Oxygen Demand	**8**	Not specified	Not specified	mg/L	APHA, 24th Ed.,5220, B, 544:2023
7.	Total Suspended Solids	**6**	Not specified	Not specified	mg/L	IS 3025 (Part 17),: 2022
8.	Total Dissolved Solids	**1050**	Max. 500	Max. 2000	mg/L	IS 3025 (Part 16): 2023
9.	Dissolved Oxygen	**6.2**	Not specified	Not specified	mg/L	IS 3025 (Part 38), Method No.4: 1989
10.	Oil & Grease	**BLQ (LOQ:1)**	Not specified	Not specified	mg/L	IS 3025 (Part 39) Method No.5: 2021
11.	Free Ammonia	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500-NH3, B & C 424:2023
12.	Copper (as Cu)	**BLQ (LOQ:0.02)**	Max.0.05	Max.1.5	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
13.	Fluoride (as F)	**0.69**	Max. 1	Max.1.5	mg/L	ISO 15923-2:2017
14.	Iron (as Fe)	**0.249**	Max.1.0	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
15.	Manganese (as Mn)	**BLQ (LOQ:0.02)**	Max.0.1	Max.0.3	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
16.	Nitrate Nitrogen (as NO_3-N)	**4.95**	Not specified	Not specified	mg/L	APHA,24th Ed.,4500- NO3.B, 434: 2023
17.	Selenium (as Se)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

Saanvi Dalal
Section-in-Charge (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

Ashwamedh
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ULR-TC550925000003968F

Sample ID : W/02/25/0228	Report No.: W/02/25/0228	Report Date	17/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permiss ible Limit in the Absence of Alternate Source		
18.	Sulphate (as SO4)	**371**	Max. 200	Max.400	mg/L	ISO 15923-1:2017
19.	Sulphide (as H_2S)	**BLQ (LOQ:0.025)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 29):1986
20.	Total Kjeldahl Nitrogen	**3.02**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500 NH3, B & C, 424 & 425 or F, 429 & 4500-N org, B 452:2023
21.	Phenolic Compounds (as C_6H_5OH)	**BLQ (LOQ:0.001)**	Max. 0.001	Max.0.002	mg/L	Clause 6 of IS 3025(Part 43):1992
22.	Total Phosphate (as P)	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA,24th Ed.,4500- P,E,486: 2023
23.	Zinc (as Zn)	**BLQ (LOQ:0.05)**	Max. 5	Max.15	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
24.	Chromium (Hexa) (as Cr+6)	**BLQ (LOQ:0.02)**	Not specified	Not specified	mg/L	IS 3025 (Part 52):2003
25.	Cadmium (as Cd)	**BLQ (LOQ:0.002)**	Max. 0.003	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
26.	Cyanide (as CN)	**BLQ (LOQ:0.001)**	Max.0.05	No relaxation	mg/L	Clause 2 of IS 3025 (Part 27):1986
27.	Lead (as Pb)	**BLQ (LOQ:0.008)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
28.	Mercury (as Hg)	**BLQ (LOQ:0.0008)**	Max. 0.001	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
29.	Nickel (as Ni)	**0.019 (MU:±0.0034)**	Max.0.02	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
30.	Arsenic (as As)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
31.	Chromium (as Cr)	**0.052 (MU:±0.0022)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
32.	Vanadium (as V)	**0.129**	Not specified	Not specified	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

MU: Measurement Uncertainty
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0228 bears two Test Reports - W/02/25/0228 and W/02/25/0228N.

Saanvi Dalal
Section In-charge (Chemical)
Reviewed & Authorised by

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End of Report

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Test Report

Sample ID : W/02/25/0228	Report No.: W/02/25/0228N	Report Date	17/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Open well (Mr. Prashant Bonde, Village: Manyarkhede)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/485 dated 07.02.2025	Date - Completion of Analysis	17/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Chromium (Trivalent)	**0.052**	Not specified	Not specified	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
2.	Total Residual Chlorine	**BLQ (LOQ:0.05)**	Not specified	Not specified	mg/L	APHA 24th Ed.,4500- Cl.G. 357: 2023
3.	Fixed Dissolved Solid	**704**	Not specified	Not specified	mg/L	IS 3025 (Part 18):1984
4.	Bioassay Test	**80% Survival of fish after 96 hour in 100% water sample**	Not specified	Not specified	-	IS 6582:1971

MU: Measurement Uncertainty.
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0228 bears two Test Reports - W/02/25/0228 and W/02/25/0228N.

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TEST REPORT

Sample ID : W/02/25/0229	Report No.: W/02/25/0229	Report Date	18/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Borewell (Gram Panchayat, Village: Manyarkhede)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/485 dated 07.02.2025	Date - Completion of Analysis	18/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Temperature	**29.8**	-	-	°C	IS 3025 (Part 9):1984
2.	Colour	**1**	Max. 5	Max.15	Hazen Units	IS 3025 (Part 4), Method No.4: 1983
3.	pH Value	**8.12**	6.5 - 8.5	No relaxation	-	IS 3025 (Part 11):2022
4.	Turbidity	**0.25**	Max. 1	Max.5	NTU	IS 3025 (Part 10):2023
5.	Biochemical Oxygen Demand (3 days, 27°C)	**2**	Not specified	Not specified	mg/L	IS 3025 (Part 44): 1993
6.	Chemical Oxygen Demand	**8**	Not specified	Not specified	mg/L	APHA. 24th Ed..5220. B, 544:2023
7.	Total Suspended Solids	**7**	Not specified	Not specified	mg/L	IS 3025 (Part 17),: 2022
8.	Total Dissolved Solids	**1618**	Max. 500	Max. 2000	mg/L	IS 3025 (Part 16): 2023
9.	Dissolved Oxygen	**6.2**	Not specified	Not specified	mg/L	IS 3025 (Part 38), Method No.4: 1989
10.	Oil & Grease	**BLQ (LOQ:1)**	Not specified	Not specified	mg/L	IS 3025 (Part 39) Method No.5: 2021
11.	Free Ammonia	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500-NH3. B & C 424:2023
12.	Copper (as Cu)	**BLQ (LOQ:0.02)**	Max.0.05	Max.1.5	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
13.	Fluoride (as F)	**0.57**	Max. 1	Max.1.5	mg/L	ISO 15923-2:2017
14.	Iron (as Fe)	**0.430**	Max.1.0	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
15.	Manganese (as Mn)	**BLQ (LOQ:0.02)**	Max.0.1	Max.0.3	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
16.	Nitrate Nitrogen (as NO_3-N)	**3.08**	Not specified	Not specified	mg/L	APHA.24th Ed..4500- NO3.B, 434: 2023
17.	Selenium (as Se)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

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ULR-TC550925000003969F

Sample ID : W/02/25/0229	Report No.: W/02/25/0229	Report Date	18/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permiss ible Limit in the Absence of Alternate Source		
18.	Sulphate (as SO4)	**410**	Max. 200	Max.400	mg/L	ISO 15923-1:2017
19.	Sulphide (as H_2S)	**BLQ (LOQ:0.025)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 29):1986
20.	Total Kjeldahl Nitrogen	**2.1**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500 NH3, B & C, 424 & 425 or F, 429 & 4500-N org, B 452:2023
21.	Phenolic Compounds (as C_6H_5OH)	**BLQ (LOQ:0.001)**	Max. 0.001	Max.0.002	mg/L	Clause 6 of IS 3025(Part 43):1992
22.	Total Phosphate (as P)	**0.10**	Not specified	Not specified	mg/L	APHA,24th Ed.,4500- P,E,486; 2023
23.	Zinc (as Zn)	**0.273**	Max. 5	Max.15	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
24.	Chromium (Hexa) (as Cr+6)	**BLQ (LOQ:0.02)**	Not specified	Not specified	mg/L	IS 3025 (Part 52):2003
25.	Cadmium (as Cd)	**BLQ (LOQ:0.002)**	Max. 0.003	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
26.	Cyanide (as CN)	**BLQ (LOQ:0.001)**	Max.0.05	No relaxation	mg/L	Clause 2 of IS 3025 (Part 27):1986
27.	Lead (as Pb)	**BLQ (LOQ:0.008)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
28.	Mercury (as Hg)	**BLQ (LOQ:0.0008)**	Max. 0.001	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
29.	Nickel (as Ni)	**0.021 (MU:±0.0034)**	Max.0.02	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
30.	Arsenic (as As)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
31.	Chromium (as Cr)	**0.051 (MU:±0.0022)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
32.	Vanadium (as V)	**0.087**	Not specified	Not specified	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

MU: Measurement Uncertainty.
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0229 bears two Test Reports - W/02/25/0229 and W/02/25/0229N.

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Section In-charge (Chemical)
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End of Report

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5. Statement of conformity is based on the decision rule applied.

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Test Report

Sample ID : W/02/25/0229	Report No.: W/02/25/0229N	Report Date	18/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Borewell (Gram Panchayat, Village: Manyarkhede)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/485 dated 07.02.2025	Date - Completion of Analysis	18/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Chromium (Trivalent)	**0.051**	Not specified	Not specified	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
2.	Total Residual Chlorine	**BLQ (LOQ:0.05)**	Not specified	Not specified	mg/L	APHA.24th Ed..4500- Cl.G. 357: 2023
3.	Fixed Dissolved Solid	**1169**	Not specified	Not specified	mg/L	IS 3025 (Part 18):1984
4.	Bioassay Test	**100% Survival of fish after 96 hour in 100% water sample**	Not specified	Not specified	-	IS 6582:1971

MU: Measurement Uncertainty
Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0229 bears two Test Reports - W/02/25/0229 and W/02/25/0229N.

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TEST REPORT

Sample ID : W/02/25/0238	Report No.: W/02/25/0238	Report Date	15/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Open well (Mr. Prabhakar Talele, Village: Velhara)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/485 dated 07.02.2025	Date - Completion of Analysis	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Temperature	**29.2**	-	-	°C	IS 3025 (Part 9):1984
2.	Colour	**1**	Max. 5	Max.15	Hazen Units	IS 3025 (Part 4), Method No.4: 1983
3.	pH Value	**8.18**	6.5 - 8.5	No relaxation	-	IS 3025 (Part 11):2022
4.	Turbidity	**BLQ (LOQ:0.2)**	Max. 1	Max.5	NTU	IS 3025 (Part 10):2023
5.	Biochemical Oxygen Demand (3 days, 27°C)	**2**	Not specified	Not specified	mg/L	IS 3025 (Part 44): 1993
6.	Chemical Oxygen Demand	**8**	Not specified	Not specified	mg/L	APHA, 24th Ed.,5220, B, 544:2023
7.	Total Suspended Solids	**8**	Not specified	Not specified	mg/L	IS 3025 (Part 17),: 2022
8.	Total Dissolved Solids	**1000**	Max. 500	Max. 2000	mg/L	IS 3025 (Part 16): 2023
9.	Dissolved Oxygen	**6.3**	Not specified	Not specified	mg/L	IS 3025 (Part 38), Method No.4: 1989
10.	Oil & Grease	**BLQ (LOQ:1)**	Not specified	Not specified	mg/L	IS 3025 (Part 39) Method No.5: 2021
11.	Free Ammonia	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500-NH3. B & C 424:2023
12.	Copper (as Cu)	**BLQ (LOQ:0.02)**	Max.0.05	Max.1.5	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
13.	Fluoride (as F)	**0.60**	Max. 1	Max.1.5	mg/L	ISO 15923-2:2017
14.	Iron (as Fe)	**0.260**	Max.1.0	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
15.	Manganese (as Mn)	**BLQ (LOQ:0.02)**	Max.0.1	Max.0.3	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
16.	Nitrate Nitrogen (as NO_3-N)	**3.0**	Not specified	Not specified	mg/L	APHA.24th Ed.,4500- NO3.B, 434: 2023
17.	Selenium (as Se)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

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Sample ID : W/02/25/0238	Report No.: W/02/25/0238	Report Date	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permiss ible Limit in the Absence of Alternate Source		
18.	Sulphate (as SO4)	**81.9**	Max. 200	Max.400	mg/L	IS 3025 (Part 24)/Sec-I: 2022
19.	Sulphide (as H_2S)	**BLQ (LOQ:0.025)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 29):1986
20.	Total Kjeldahl Nitrogen	**1.45**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500 NH3. B & C, 424 & 425 or F, 429 & 4500-N org. B 452:2023
21.	Phenolic Compounds (as C_6H_5OH)	**BLQ (LOQ:0.001)**	Max. 0.001	Max.0.002	mg/L	Clause 6 of IS 3025(Part 43):1992
22.	Total Phosphate (as P)	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA,24th Ed.,4500- P,E,486: 2023
23.	Zinc (as Zn)	**0.062**	Max. 5	Max.15	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
24.	Chromium (Hexa) (as Cr+6)	**BLQ (LOQ:0.02)**	Not specified	Not specified	mg/L	IS 3025 (Part 52):2003
25.	Cadmium (as Cd)	**BLQ (LOQ:0.002)**	Max. 0.003	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
26.	Cyanide (as CN)	**BLQ (LOQ:0.001)**	Max.0.05	No relaxation	mg/L	Clause 2 of IS 3025 (Part 27):1986
27.	Lead (as Pb)	**BLQ (LOQ:0.008)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
28.	Mercury (as Hg)	**BLQ (LOQ:0.0008)**	Max. 0.001	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
29.	Nickel (as Ni)	**0.015**	Max.0.02	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
30.	Arsenic (as As)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
31.	Chromium (as Cr)	**0.051 (MU:±0.0022)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
32.	Vanadium (as V)	**0.082**	Not specified	Not specified	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

MU: Measurement Uncertainty
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0238 bears two Test Reports - W/02/25/0238 and W/02/25/0238N.

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Section In-charge (Chemical)
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End of Report

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Test Report

Sample ID : W/02/25/0238	Report No.: W/02/25/0238N	Report Date	15/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Openwell (Mr. Prabhakar Talele, Village: Velhara)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/485 dated 07.02.2025	Date - Completion of Analysis	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Chromium (Trivalent)	**0.051**	Not specified	Not specified	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
2.	Total Residual Chlorine	**BLQ (LOQ:0.05)**	Not specified	Not specified	mg/L	APHA.24th Ed..4500- Cl.G, 357: 2023
3.	Fixed Dissolved Solid	**758**	Not specified	Not specified	mg/L	IS 3025 (Part 18):1984
4.	Bioassay Test	**90% Survival of fish after 96 hour in 100% water sample**	Not specified	Not specified	-	IS 6582:1971

MU: Measurement Uncertainty
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0238 bears two Test Reports - W/02/25/0238 and W/02/25/0238N.

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ULR-TC550925000003979F

TEST REPORT

Sample ID : W/02/25/0239	Report No.: W/02/25/0239	Report Date	19/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Open well (Gram Panchayat, Village: Velhara)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/485 dated 07.02.2025	Date - Completion of Analysis	19/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Temperature	**30.2**	-	-	°C	IS 3025 (Part 9):1984
2.	Colour	**1**	Max. 5	Max.15	Hazen Units	IS 3025 (Part 4), Method No.4: 1983
3.	pH Value	**8.23**	6.5 - 8.5	No relaxation	-	IS 3025 (Part 11):2022
4.	Turbidity	**0.26**	Max. 1	Max.5	NTU	IS 3025 (Part 10):2023
5.	Biochemical Oxygen Demand (3 days, 27°C)	**2**	Not specified	Not specified	mg/L	IS 3025 (Part 44): 1993
6.	Chemical Oxygen Demand	**8**	Not specified	Not specified	mg/L	APHA, 24th Ed.,5220, B, 544:2023
7.	Total Suspended Solids	**6**	Not specified	Not specified	mg/L	IS 3025 (Part 17),: 2022
8.	Total Dissolved Solids	**1028**	Max. 500	Max. 2000	mg/L	IS 3025 (Part 16): 2023
9.	Dissolved Oxygen	**6.2**	Not specified	Not specified	mg/L	IS 3025 (Part 38), Method No.4: 1989
10.	Oil & Grease	**BLQ (LOQ:1)**	Not specified	Not specified	mg/L	IS 3025 (Part 39) Method No.5: 2021
11.	Free Ammonia	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500-NH3, B & C 424:2023
12.	Copper (as Cu)	**BLQ (LOQ:0.02)**	Max.0.05	Max.1.5	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
13.	Fluoride (as F)	**0.60**	Max. 1	Max.1.5	mg/L	ISO 15923-2:2017
14.	Iron (as Fe)	**0.183**	Max.1.0	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
15.	Manganese (as Mn)	**0.055**	Max.0.1	Max.0.3	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
16.	Nitrate Nitrogen (as NO_3-N)	**6.7**	Not specified	Not specified	mg/L	APHA,24th Ed.,4500- NO3,B, 434: 2023
17.	Selenium (as Se)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

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ULR-TC550925000003979F

Sample ID : W/02/25/0239	Report No.: W/02/25/0239	Report Date	19/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permiss ible Limit in the Absence of Alternate Source		
18.	Sulphate (as SO4)	**829**	Max. 200	Max.400	mg/L	ISO 15923-1:2017
19.	Sulphide (as H_2S)	**BLQ (LOQ:0.025)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 29):1986
20.	Total Kjeldahl Nitrogen	**2**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500 NH3, B & C, 424 & 425 or F, 429 & 4500-N org. B 452:2023
21.	Phenolic Compounds (as C_6H_5OH)	**BLQ (LOQ:0.001)**	Max. 0.001	Max.0.002	mg/L	Clause 6 of IS 3025(Part 43):1992
22.	Total Phosphate (as P)	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA.24th Ed.,4500- P.E,486: 2023
23.	Zinc (as Zn)	**BLQ (LOQ:0.05)**	Max. 5	Max.15	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
24.	Chromium (Hexa) (as Cr+6)	**BLQ (LOQ:0.02)**	Not specified	Not specified	mg/L	IS 3025 (Part 52):2003
25.	Cadmium (as Cd)	**BLQ (LOQ:0.002)**	Max. 0.003	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
26.	Cyanide (as CN)	**BLQ (LOQ:0.001)**	Max.0.05	No relaxation	mg/L	Clause 2 of IS 3025 (Part 27):1986
27.	Lead (as Pb)	**BLQ (LOQ:0.008)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
28.	Mercury (as Hg)	**BLQ (LOQ:0.0008)**	Max. 0.001	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
29.	Nickel (as Ni)	**0.020 (MU:±0.0034)**	Max.0.02	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
30.	Arsenic (as As)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
31.	Chromium (as Cr)	**0.057 (MU:±0.0022)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
32.	Vanadium (as V)	**0.087**	Not specified	Not specified	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

MU: Measurement Uncertainty
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0239 bears two Test Reports - W/02/25/0239 and W/02/25/0239N.

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End of Report

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Test Report

Sample ID : W/02/25/0239	Report No.: W/02/25/0239N	Report Date	19/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Open well (Gram Panchayat, Village: Velhara)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/485 dated 07.02.2025	Date - Completion of Analysis	19/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Chromium (Trivalent)	**0.057**	Not specified	Not specified	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
2.	Total Residual Chlorine	**BLQ (LOQ:0.05)**	Not specified	Not specified	mg/L	APHA 24th Ed.,4500- Cl.G. 357: 2023
3.	Fixed Dissolved Solid	**714**	Not specified	Not specified	mg/L	IS 3025 (Part 18):1984
4.	Bioassay Test	**100% Survival of fish after 96 hour in 100% water sample**	Not specified	Not specified	-	IS 6582:1971

MU: Measurement Uncertainty
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0239 bears two Test Reports - W/02/25/0239 and W/02/25/0239N.

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ULR-TC550925000003980F

TEST REPORT

Sample ID : W/02/25/0240	Report No.: W/02/25/0240	Report Date	15/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Borewell (Near Samshan Bhumi, Village: Jadgaon)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/486 dated 07.02.2025	Date - Completion of Analysis	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Temperature	**30.4**	-	-	°C	IS 3025 (Part 9):1984
2.	Colour	**1**	Max. 5	Max.15	Hazen Units	IS 3025 (Part 4), Method No.4: 1983
3.	pH Value	**7.84**	6.5 - 8.5	No relaxation	-	IS 3025 (Part 11):2022
4.	Turbidity	**0.25**	Max. 1	Max.5	NTU	IS 3025 (Part 10):2023
5.	Biochemical Oxygen Demand (3 days, 27°C)	**2**	Not specified	Not specified	mg/L	IS 3025 (Part 44): 1993
6.	Chemical Oxygen Demand	**7**	Not specified	Not specified	mg/L	APHA. 24th Ed..5220. B. 544:2023
7.	Total Suspended Solids	**6**	Not specified	Not specified	mg/L	IS 3025 (Part 17),: 2022
8.	Total Dissolved Solids	**1668**	Max. 500	Max. 2000	mg/L	IS 3025 (Part 16): 2023
9.	Dissolved Oxygen	**6.3**	Not specified	Not specified	mg/L	IS 3025 (Part 38), Method No.4: 1989
10.	Oil & Grease	**BLQ (LOQ:1)**	Not specified	Not specified	mg/L	IS 3025 (Part 39) Method No.5: 2021
11.	Free Ammonia	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500-NH3. B & C 424:2023
12.	Copper (as Cu)	**BLQ (LOQ:0.02)**	Max.0.05	Max.1.5	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
13.	Fluoride (as F)	**0.63**	Max. 1	Max.1.5	mg/L	ISO 15923-2:2017
14.	Iron (as Fe)	**0.335**	Max.1.0	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
15.	Manganese (as Mn)	**0.038**	Max.0.1	Max.0.3	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
16.	Nitrate Nitrogen (as NO_3-N)	**2.92**	Not specified	Not specified	mg/L	APHA.24th Ed.,4500- NO3.B. 434: 2023
17.	Selenium (as Se)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

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ULR-TC550925000003980F

Sample ID : W/02/25/0240	Report No.: W/02/25/0240	Report Date	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permiss ible Limit in the Absence of Alternate Source		
18.	Sulphate (as SO4)	**193**	Max. 200	Max.400	mg/L	IS 3025 (Part 24)/Sec-I: 2022
19.	Sulphide (as H_2S)	**BLQ (LOQ:0.025)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 29):1986
20.	Total Kjeldahl Nitrogen	**3.4**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500 NH3, B & C, 424 & 425 or F, 429 & 4500-N org, B 452:2023
21.	Phenolic Compounds (as C_6H_5OH)	**BLQ (LOQ:0.001)**	Max. 0.001	Max.0.002	mg/L	Clause 6 of IS 3025(Part 43):1992
22.	Total Phosphate (as P)	**0.11**	Not specified	Not specified	mg/L	APHA.24th Ed..4500- P.E.486: 2023
23.	Zinc (as Zn)	**0.094**	Max. 5	Max.15	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
24.	Chromium (Hexa) (as Cr+6)	**BLQ (LOQ:0.02)**	Not specified	Not specified	mg/L	IS 3025 (Part 52):2003
25.	Cadmium (as Cd)	**BLQ (LOQ:0.002)**	Max. 0.003	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
26.	Cyanide (as CN)	**BLQ (LOQ:0.001)**	Max.0.05	No relaxation	mg/L	Clause 2 of IS 3025 (Part 27):1986
27.	Lead (as Pb)	**BLQ (LOQ:0.008)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
28.	Mercury (as Hg)	**BLQ (LOQ:0.0008)**	Max. 0.001	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
29.	Nickel (as Ni)	**0.020 (MU:±0.0034)**	Max.0.02	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
30.	Arsenic (as As)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
31.	Chromium (as Cr)	**0.076**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
32.	Vanadium (as V)	**0.232**	Not specified	Not specified	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

MU: Measurement Uncertainty.
BLQ: Below Limit of Quantification, LOQ: Limit of Quantification
Note: Sample ID W/02/25/0240 bears two Test Reports - W/02/25/0240 and W/02/25/0240N.

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Test Report

Sample ID : W/02/25/0240	Report No.: W/02/25/0240N	Report Date	15/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Borewell (Near Samshan Bhumi, Village: Jadgaon)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/486 dated 07.02.2025	Date - Completion of Analysis	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Chromium (Trivalent)	**0.076**	Not specified	Not specified	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
2.	Total Residual Chlorine	**BLQ (LOQ:0.05)**	Not specified	Not specified	mg/L	APHA.24th Ed..4500- Cl.G. 357: 2023
3.	Fixed Dissolved Solid	**1054**	Not specified	Not specified	mg/L	IS 3025 (Part 18):1984
4.	Bioassay Test	**100% Survival of fish after 96 hour in 100% water sample**	Not specified	Not specified	-	IS 6582:1971

MU: Measurement Uncertainty.
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0240 bears two Test Reports - W/02/25/0240 and W/02/25/0240N.

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ULR-TC550925000003981F

TEST REPORT

Sample ID : W/02/25/0241	Report No.: W/02/25/0241	Report Date	15/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Openwell (Mr. Ganesh Sukhdev Baviskar, Village: Jadgaon)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/486 dated 07.02.2025	Date - Completion of Analysis	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Temperature	**30**	-	-	°C	IS 3025 (Part 9):1984
2.	Colour	**1**	Max. 5	Max.15	Hazen Units	IS 3025 (Part 4), Method No.4: 1983
3.	pH Value	**8.23**	6.5 - 8.5	No relaxation	-	IS 3025 (Part 11):2022
4.	Turbidity	**0.26**	Max. 1	Max.5	NTU	IS 3025 (Part 10):2023
5.	Biochemical Oxygen Demand (3 days, 27°C)	**2**	Not specified	Not specified	mg/L	IS 3025 (Part 44): 1993
6.	Chemical Oxygen Demand	**8**	Not specified	Not specified	mg/L	APHA, 24th Ed.,5220, B, 544:2023
7.	Total Suspended Solids	**7**	Not specified	Not specified	mg/L	IS 3025 (Part 17),: 2022
8.	Total Dissolved Solids	**1686**	Max. 500	Max. 2000	mg/L	IS 3025 (Part 16): 2023
9.	Dissolved Oxygen	**6.1**	Not specified	Not specified	mg/L	IS 3025 (Part 38), Method No.4: 1989
10.	Oil & Grease	**BLQ (LOQ:1)**	Not specified	Not specified	mg/L	IS 3025 (Part 39) Method No.5: 2021
11.	Free Ammonia	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500-NH3, B & C 424:2023
12.	Copper (as Cu)	**BLQ (LOQ:0.02)**	Max.0.05	Max.1.5	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
13.	Fluoride (as F)	**0.62**	Max. 1	Max.1.5	mg/L	ISO 15923-2:2017
14.	Iron (as Fe)	**0.191**	Max.1.0	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
15.	Manganese (as Mn)	**BLQ (LOQ:0.02)**	Max.0.1	Max.0.3	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
16.	Nitrate Nitrogen (as NO_3-N)	**2.64**	Not specified	Not specified	mg/L	APHA,24th Ed.,4500- NO3,B, 434: 2023
17.	Selenium (as Se)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

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ULR-TC550925000003981F

Sample ID : W/02/25/0241	Report No.: W/02/25/0241	Report Date	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permiss ible Limit in the Absence of Alternate Source		
18.	Sulphate (as SO4)	**182**	Max. 200	Max.400	mg/L	IS 3025 (Part 24)/Sec-I: 2022
19.	Sulphide (as H_2S)	**BLQ (LOQ:0.025)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 29):1986
20.	Total Kjeldahl Nitrogen	**3.1**	Not specified	Not specified	mg/L	APHA 24th Ed., 4500 NH3. B & C, 424 & 425 or F, 429 & 4500-N org. B 452:2023
21.	Phenolic Compounds (as C_6H_5OH)	**BLQ (LOQ:0.001)**	Max. 0.001	Max.0.002	mg/L	Clause 6 of IS 3025(Part 43):1992
22.	Total Phosphate (as P)	**BLQ (LOQ:0.1)**	Not specified	Not specified	mg/L	APHA.24th Ed.,4500- P,E,486: 2023
23.	Zinc (as Zn)	**BLQ (LOQ:0.05)**	Max. 5	Max.15	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
24.	Chromium (Hexa) (as Cr+6)	**BLQ (LOQ:0.02)**	Not specified	Not specified	mg/L	IS 3025 (Part 52):2003
25.	Cadmium (as Cd)	**BLQ (LOQ:0.002)**	Max. 0.003	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
26.	Cyanide (as CN)	**BLQ (LOQ:0.001)**	Max.0.05	No relaxation	mg/L	Clause 2 of IS 3025 (Part 27):1986
27.	Lead (as Pb)	**BLQ (LOQ:0.008)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
28.	Mercury (as Hg)	**BLQ (LOQ:0.0008)**	Max. 0.001	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
29.	Nickel (as Ni)	**0.018 (MU:±0.0034)**	Max.0.02	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
30.	Arsenic (as As)	**BLQ (LOQ:0.005)**	Max. 0.01	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
31.	Chromium (as Cr)	**0.061 (MU:±0.0022)**	Max. 0.05	No relaxation	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007
32.	Vanadium (as V)	**0.188**	Not specified	Not specified	mg/L	IS 3025 (Part 2): 2019 / ISO 11885: 2007

MU: Measurement Uncertainty
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0241 bears two Test Reports - W/02/25/0241 and W/02/25/0241N.

Saanvi Dalal
Section In-charge (Chemical)
Reviewed & Authorised by

Ashwamedh Engineers & Consultants
Laboratory Services Division

End of Report

Note:
1. The result listed refers only to the tested sample(s) and applicable parameter(s).
2. This report is not to be reproduced except in full, without written approval of the laboratory.
3. In case sampling is not done by laboratory, the results apply to the sample as received.
4. There are no additions to, deviations or exclusions from the method.

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Test Report

Sample ID : W/02/25/0241	Report No.: W/02/25/0241N	Report Date	15/02/2025
Name and Address of Customer	**Maharashtra State Power Generation Company Ltd.** 2 x 500 MW, Bhusawal Thermal Power Station, Deepnagar, Tal. Bhusawal, Dist. Jalgaon - 425307, Maharashtra		
Sampling done by	Laboratory	Sample Description / Type	Ground Water
Sampling Location	Open well (Mr. Ganesh Sukhdev Baviskar, Village: Jadgaon)	Date – Sampling	06/02/2025
Sample Quantity/ Packing	10 L x 1 no. plastic can 1 L x 1 no. glass bottle	Date - Receipt of Sample	07/02/2025
Sampling Procedure	APHA 24th Ed., 2023, 1060 B, 44, IS 6582:1971	Date - Start of Analysis	07/02/2025
Order Reference	Test Request No. AEC/TR/02/2025/486 dated 07.02.2025	Date - Completion of Analysis	15/02/2025

Sr. No.	Parameter	Result	Drinking Water Specification as per IS 10500: 2012		Unit	Method
			Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source		
Chemical Testing; Group: Water, Residues in Water						
Physical & Chemical Parameters						
1.	Chromium (Trivalent)	**0.061**	Not specified	Not specified	mg/L	IS 3025 (Part 2):2019/ISO 11885:2007
2.	Total Residual Chlorine	**BLQ (LOQ:0.05)**	Not specified	Not specified	mg/L	APHA 24th Ed.,4500- Cl.G. 357: 2023
3.	Fixed Dissolved Solid	**1011**	Not specified	Not specified	mg/L	IS 3025 (Part 18):1984
4.	Bioassay Test	**90% Survival of fish after 96 hour in 100% water sample**	Not specified	Not specified	-	IS 6582:1971

MU: Measurement Uncertainty
BLQ:Below Limit of Quantification, LOQ:Limit of Quantification.
Note: Sample ID W/02/25/0241 bears two Test Reports - W/02/25/0241 and W/02/25/0241N.

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