



रतले हाइड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लिमिटेड

(एनएचपीसी लिमिटेड और जेकेएसपीडीसी लिमिटेड का एक संयुक्त उद्यम)

RATLE HYDROELECTRIC POWER CORPORATION LIMITED

(A Joint Venture of NHPC Limited and JKSPDC Limited)

ANNEXURE-I

850MW RATLE HE PROJECT, DISTRICT KISHTWAR, UT JAMMU AND KASHMIR

SIX MONTHLY COMPLIANCE REPORT ON ENVIRONMENTAL ASPECTS

(for the period April 2023 to September 2023)

1	Name of Project	Ratle Hydro-Electric Project (850MW)
2	Type of Project	Hydro-Electric Project (Run of the River scheme)
3	Clearance letters OM No. and date	
	(a) Environment Clearance	(a) MoEF&CC letter No. J-12011/39/2010-IA.I dated 12.12.2012 MoEF&CC letter No. J-12011/39/2010-IA.I dated 27.09.2021 (approval accorded for transfer of EC in the name of RHPCL).
	(b) Forest Clearance	(b) Order No. 234-FST of 2012 dated 27.04.2012 of GOJK (for diversion of 138.93 Ha Forest land) and No. 108-FST of 2014 dated 05.03.2014 of GOJK (for diversion of 29.13 Ha Forest land). Vide communication No. 15-01/2021-Jammu dated 08.03.2022, approval accorded by MoEF&CC, GOI for change of User Agency from JKSPDC to RHPCL.
4	Locations	
	(a) District(s)	(a) Kishtwar
	(b) State	(b) Jammu and Kashmir
	(c) Latitude	(c) 33°10'43" N
	(d) Longitude	(d) 75°48'26" E

कार्यालय: कमरा नंबर 08, ब्लॉक नंबर 02, एनएचपीसी क्षेत्रीय कार्यालय, जेडीए वाणिज्यिक परिसर नंबर 01, नरवाल, जम्मू, (जम्मू और कश्मीर) - 180006

Office : Room No. 08, Block No. 02, NHPC Regional Office, JDA Commercial Complex No. 01, Narwal, Jammu, (J&K) - 180006

Camp Office : NHPC Office Complex, Sector-33, Faridabad - 121003 (Haryana)

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5	<p>Address for Correspondence</p> <p>(a) Address of concerned Project Head (with Pin code, Telephone/Fax no.)</p> <p>(b) Address of concerned HOD in Corporate Office (with Pin code, Telephone/Fax no.)</p>	<p>(a) Chief Executive Officer Ratle Hydroelectric Power Corporation Ltd. Ratle HE Project Shalimar Colony, Tehsil and District - Kishtwar, UT Jammu and Kashmir Pin code- 182 204 Telephone:- 01995-295171 email id: rhpc@nhpc.nic.in</p> <p>(b) Regd. Office: Chief Executive Officer Ratle Hydroelectric Power Corporation Ltd. Room No. 08, Block No. 02, NHPC Regional Office, JDA Commercial Complex No. 01, Narwal, Jammu (UT J&K) - 180 006 email id: rhpc@nhpc.nic.in</p>																										
6	<p>Details of Environmental Management Plan</p>	<p>Environmental Management Plans to be implemented at the Project as provided in the EMP Report are as follows:</p> <table border="1" data-bbox="893 1155 1445 1747"><thead><tr><th>Sl.No.</th><th>Environmental Management Plan</th></tr></thead><tbody><tr><td>1</td><td>Biodiversity Management Plan</td></tr><tr><td>2</td><td>Catchment Area Treatment Plan</td></tr><tr><td>3</td><td>Fishery Development and Management Plan</td></tr><tr><td>4</td><td>Solid Waste Management Plan</td></tr><tr><td>5</td><td>Public Health Delivery System</td></tr><tr><td>6</td><td>Energy Conservation Measures</td></tr><tr><td>7</td><td>Muck Disposal Plan</td></tr><tr><td>8</td><td>Landscaping & Restoration of Quarry & Construction Areas</td></tr><tr><td>9</td><td>Air & Water Environment Management Plan</td></tr><tr><td>10</td><td>Reservoir Rim Treatment Plan</td></tr><tr><td>11</td><td>Compensatory Afforestation Plan</td></tr><tr><td>12</td><td>Rehabilitation & Resettlement Plan</td></tr></tbody></table>	Sl.No.	Environmental Management Plan	1	Biodiversity Management Plan	2	Catchment Area Treatment Plan	3	Fishery Development and Management Plan	4	Solid Waste Management Plan	5	Public Health Delivery System	6	Energy Conservation Measures	7	Muck Disposal Plan	8	Landscaping & Restoration of Quarry & Construction Areas	9	Air & Water Environment Management Plan	10	Reservoir Rim Treatment Plan	11	Compensatory Afforestation Plan	12	Rehabilitation & Resettlement Plan
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			13	Dam Break Modelling & Disaster Management Plan
			14	Local Area Development Plan
			15	CSR Activities
			16	Local Skill Development Plan
			17	Environmental Monitoring Programme
7	Breakup for Project area (Land details)	Forest Land : 138.93 ha Private Land : 55.52 ha State/Govt. Land : 233.96 ha River Bed land : 138.81 ha Total Land : 567.22 ha		
		Note:- i) Above land details are as per GOJK Order No. 55-JK(PDD) of 2022 dated 10.05.2022. ii) Vide GOJK Order No.108-FST of 2014 dated 05.03.2014, sanctioned has been accorded for diversion of 29.13ha social forestry land, which is part of 233.96ha State land mentioned above.		
8	Breakup of Project affected population with enumerations of those losing house/dwelling units only, agriculture land only, both house and agriculture land and landless labours / artisans. (a) SC/ST/Adivasis (b) Others	Details of PAFs Displaced PAFs : 80 Non Displaced PAFs : 160 Total PAFs : 240 a) Scheduled Tribe : 17 families b) Rural Artisans/ Small Traders : 62 families (Above details are as per R&R Plan of Rattle HE Project approved by GOJK in 2013)		
9	Financial Details (a) Project cost as originally planned and subsequent revised estimates and the year of price reference (b) Actual expenditure incurred on the Project so far	a) Original TEA approved cost (2012): Rs. 5517.02 Cr (completion cost) Cabinet Investment sanction approved (2021): Rs.5281.94Cr (Nov 2018 PL) b) Actual expenditure The cost of work done on the Project at the time of its taking over by JVC (as assessed by IIT, Delhi) : 120.86 Cr		

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	<p>(c) Allocation made for Environment Management Plan</p> <p>(d) Actual expenditure incurred on EMP so far</p>	<p>Expenditure incurred by RHPCL : Rs. 393.60 Cr (till September 2023)</p> <p>Allocations for EMP : Rs. 262.35 Cr (as approved by MoEF&CC)</p> <p>Details of expenditure already incurred on EMP prior to formation of RHPCL i.e. 01.06.2021 shall be suitably updated upon receipt of the records of the Project from JKSPDC.</p> <p>The details of expenditure incurred on EMP upto Sept 2023 as available with the Project is given below:-</p> <p>i)Payment released on account of Forest Clearance: Rs.1773.07 Lakh (including Rs.179.71 Lakh on account of Compensatory Afforestation Programme)</p> <p>ii) Solid Waste Management Plan* : Rs.8.64 Lakh</p> <p>iii)Public health delivery system* : Rs.90.58 Lakh</p> <p>iv)Energy Conservation measure* : Rs.53.59 Lakh</p> <p>v)Muck Disposal Plan* : Rs.7.98 Cr</p> <p>vi)CSR Plan : Rs.52.14 Lakh</p> <p>vii)Air & Water Environment Management Plan*: Rs. 68.26 Lakh</p> <p>viii)Environmental Monitoring Programme*: Rs.7.38 Lakh</p> <p>*also includes the expenditure incurred by Contractor as per the Contract Agreement</p>
10	<p>Forest Land Requirements</p> <p>(a) Status of approval for diversion of Forest Land for non-forestry use</p>	<p>(a) Sanction accorded by GOJK for diversion of 138.93 Ha Forest land for use vide Order No. 234-FST of 2012 dated 27.04.2012 and for use of 29.13 Ha Social Forestry land vide Order No. 108-FST of 2014 dated 05.03.2014. Vide communication No. 08.03.2022, approval accorded by MoEF&CC, GOI for change of User Agency from JKSPDC to RHPCL.</p>

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	(b) The status of clear felling of trees in Forest Land	(b) Clear felling status:- The status shall be suitably updated upon receipt of records from JKSPDC.
11	Status of Construction (a) Date of commencement (actual and/or planned) (b) Date of completion (actual and/or planned)	The work for Turnkey Execution of Ratle HE Project has been awarded to M/s MEIL on 18.01.2022. (a) Date of commencement of major works of the Project (actual): 18.01.2022 (b) Date of completion (planned): 10.02.2026 (60 months from the date of Investment approval).
12	Reasons for the delay (If the Project is yet to be started)	Not Applicable. (As per Cabinet Investment sanction dated 11.02.2021, Ratle HE Project is to be executed by JV of NHPC and JKSPDC with completion period of 60 months from the date of Investment approval)
13	Details of Site visits (a) By Monitoring Committee (b) By Regional Office	----- The status of visits prior to 01.06.2021, if any, shall be suitably updated upon receipt of records from JKSPDC.
14.	Brief note on the status of compliance of the conditions stipulated by MOEF&CC	Details enclosed as Appendix-I .



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Appendix-I

STATUS OF COMPLIANCE OF CONDITIONS STIPULATED BY MoEF&CC, GOVT OF INDIA

(Environment Clearance letter No. J-12011/39/2010-IA.I dated 12.12.2012 and No. J-12011/39/2010-IA.I dated 27.09.2021)

Sl. No.	Specific Conditions	Compliance Status																																																												
i	<p>The Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP Report shall be undertaken in consultation with the State Forest Department and major work shall be completed before impounding of reservoir.</p> <table border="1"> <thead> <tr> <th>Item</th> <th>I Year</th> <th>II Year</th> <th>III Year</th> <th>IV Year</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td colspan="6">Biological Measures</td> </tr> <tr> <td>Afforestation (ha)</td> <td>2243</td> <td>1747</td> <td>923</td> <td>-</td> <td>4913</td> </tr> <tr> <td>Enrichment Plantation (ha)</td> <td>-</td> <td>112</td> <td>79</td> <td>-</td> <td>191</td> </tr> <tr> <td>Pasture Development</td> <td>-</td> <td>376</td> <td>195</td> <td>-</td> <td>591</td> </tr> <tr> <td>Nursery Development (Nos)</td> <td>3</td> <td>-</td> <td>-</td> <td>-</td> <td>3</td> </tr> <tr> <td>Watch & ward (Nos)</td> <td>240</td> <td>240</td> <td>240</td> <td>240</td> <td>960</td> </tr> <tr> <td colspan="6">Engineering Measures</td> </tr> <tr> <td>Contour Bunding (ha)</td> <td>434</td> <td>409</td> <td>324</td> <td>171</td> <td>1338</td> </tr> <tr> <td>Check Dams (NOs)</td> <td>50</td> <td>25</td> <td>30</td> <td>20</td> <td>125</td> </tr> </tbody> </table>	Item	I Year	II Year	III Year	IV Year	Total	Biological Measures						Afforestation (ha)	2243	1747	923	-	4913	Enrichment Plantation (ha)	-	112	79	-	191	Pasture Development	-	376	195	-	591	Nursery Development (Nos)	3	-	-	-	3	Watch & ward (Nos)	240	240	240	240	960	Engineering Measures						Contour Bunding (ha)	434	409	324	171	1338	Check Dams (NOs)	50	25	30	20	125	<ul style="list-style-type: none"> - J&K Forest Department was requested vide letter No. RATLE/CEO/Env/2022/271 dated 04.07.2022 for implementation of CAT Plan. - CAT Plan was again submitted to J&K Forest Department vide letter dated 29.09.2022. - In order to review and finalize the CAT Plan, following meetings were held by the J&K Forest Department: <ul style="list-style-type: none"> ▪ by Nodal Officer(FCA)/CCF, J&K on dated 25.11.2022. ▪ by Director, Department of Soil and Water Conservation, J&K on dated 30.01.2023. ▪ by Additional PCCF, Jammu on dated 01.02.2023. - It has been suggested by the J&K Forest Department to make the CAT Plan site specific as per the relevant working Plans and to justify the area to be treated with respect to the catchment, along with ground truthing. - National Environmental Engineering Research Institute (NEERI), Nagpur has been requested for microplanning and preparation of site specific CAT Plan. - The revised CAT Plan shall be submitted to J&K Forest Department for approval and implementation.
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ii	All the commitments made during the public hearing shall be fulfilled completely.	<ul style="list-style-type: none">- Shall be complied- The R&R Plan of the Project was approved by GOJK in 2013 after consultations with all stakeholders and duly considering the aspirations and demands of local people.- As per provisions of MoU, the R&R Plan of Project has been updated in line with the rates provided in case of Kishanganga HE Project, J&K.- The Standing Committee headed by Chief Secretary, UT J&K has accorded In-principle approval to the revised R&R Plan of Ratle HEP. The final approval of revised R&R Plan is under progress by GOJK.- After final approval, the revised R&R Plan of Project shall be implemented through Commissioner R&R, Ratle HE Project (Deputy Commissioner, Kishtwar).
iii	The details of land holding of project affected persons whose land is being acquired shall be submitted to this ministry. The R&R benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 (NRRP, 2007) or as per the State Rehabilitation and Resettlement Policy, whichever is higher. Adequate publicity of the compensation package shall be made in the affected villages.	<ul style="list-style-type: none">- R&R Package for Ratle HE Project was sanctioned by GOJK in 2013 vide Order No. 91-PDD of 2013 dated 21.03.2013 for a total amount of Rs. 110.00 Crore.- The above R&R Package includes the Rehabilitation and Resettlement Plan (Rs. 20.00 Crore) prepared on the basis of NRRP 2007, Local Area Development Plan including Skill Development Plan (Rs. 60.00 Crore) and Corporate Social Responsibility Plan (Rs.30.00 Crore).- As per R&R Plan approved by GOJK in 2013, the Deputy Commissioner, Kishtwar has been appointed as Commissioner R&R for implementation of R&R Plan.- A part of R&R benefits as per approved Plan of 2013 stand already released to the beneficiaries.

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		<ul style="list-style-type: none">- Now, as per MoU, the rates of previously approved R&R Plan have been revised and the updated R&R Plan has been submitted to GOJK on 07.09.2021 for examination and approval thereof.- In September 2022, BOD of RHPCL has accorded approval to the revised Cost Estimate of R&R Plan.- The In-principle approval has been accorded to the R&R Plan of Ratle HE Project by the Standing Committee headed by Chief Secretary, J&K.- The final approval of R&R Plan by GOJK is under progress.- After final approval, the revised R&R Plan of Project shall be implemented through Commissioner R&R, Ratle HE Project (Deputy Commissioner, Kishtwar).
iv	A Monitoring Committee for R&R shall be constituted which must include representatives of project affected persons from SC/ST category and a women beneficiary.	<ul style="list-style-type: none">- The proposal for constitution of Monitoring Committee shall be submitted shortly in line with final approval of the R&R Plan by GOJK.
v	Consolidation and compilation of muck shall be carried-out only in the designated muck dumping sites as submitted in the EIA/EMP report. As per the proposed muck disposal plan, out of 24.4 lakh m ³ of muck to be generated due to excavation, about 50% (i.e.12.2 lakh m ³) will be utilized for construction purpose and the remaining 12.2 lakh m ³ will be dumped at the 3 designated areas in an allocated area of 30.59 ha. The identified muck dumping sites shall be at-least 30m horizontally away from the edge of the river corresponding to high flood level (HFL).	<ul style="list-style-type: none">- The approach roads to Muck Disposal area-I & II (downstream of Dam site) on right bank and left bank of river Chenab respectively, have been developed by the Contractor.- As per the details provided by the Contractor, most of the excavated muck has been utilized in processing of aggregates, Tunnel works, construction of approach roads, protection works (Crate walls, RR Masonry walls etc.).- The disposal of muck shall be carried out at designated muck dumping sites as per Muck Disposal Plan proposed in the EMP Report.

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vi	Muck dumping sites should be handed over to Forest Department only after restoration including plantations etc.	- The Muck dumping sites shall be handed over to Forest Department only after their complete restoration.
vii	A provision of an additional unit of 30 MW has been made in the project, which will be running for 24 hours continuously to maintain a minimum discharge of 33.43, cumecs/sec, during the lean season from November-February (About 27% of lean season) at the downstream, shall be strictly adhered-to. Monsoon flow shall be at least 30% of the Monsoon discharge.	- The stipulated seasonal-flows shall be maintained during Project operation.
viii	An Auto mechanism / by pass arrangement in dam design shall be made to ensure release of environmental flow water in event of the 30 MW turbine or when it is put under maintenance.	Shall be complied - To ensure continuous release of environmental flow, the maintenance of 30MW turbine shall be planned only in Monsson season when all main Units are in operation 24X7. - Also to ensure continuous release of environmental flow in the event of 30MW turbine being under maintenance, the provision has been kept in Plant Control & Monitoring (SCADA) system for control of reservoir level and downstream release consideration for environmental flow.
ix	Continuous Monitoring system for environmental flow measurement shall be installed and data shall be displayed at appropriate site for information of civil society, stake holders and regulators. Six monthly results shall be submitted to the regional Office of the Ministry and SPCB.	Shall be complied
x	Real time telemetry and data acquisition system including all weather hydro metrological stations shall be installed for in-flow monitoring and advance flood warning. Advance flood warning and advance communication systems shall be installed in consultation with the downstream District Authorities.	Shall be complied - An Automatic Water Level Recorder (AWLR) has been installed on river Chenab (upstream of Dam site), as part of Early Flood Warning System.

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xi	<p>As proposed in the EMP, the compensatory Afforestation Programme on 277.84 ha of land with 13 plant species shall be undertaken in consultation with the State Forest Department. Native species should be preferred in plantation. The allocated grant of Rs.1467.59 lakhs for this purpose shall be fully utilized and not to be diverted for any other purpose.</p>	<ul style="list-style-type: none">- An amount of Rs.1773.07 Lakh has been paid to J&K Forest Department towards diversion of Forest land for Ratle HE Project out of which Rs.179.71 Lakh has been paid towards Compensatory Afforestation Programme.- The Kishtwar Forest Division, Doda Forest Division and Social Forestry Division, Kishtwar have been requested to provide the physical and financial progress of Compensatory Afforestation works carried out for Ratle HE Project, however, the details from Forest Department are awaited.- The Utilization Certificate shall be taken from J&K Forest Department to ensure that allocated grant is fully utilized and not diverted for any other purpose.
xii	<p>Greenbelt development along the approach roads, residential areas, office complex, dam site and other working areas shall be undertaken. The allocated budget of Rs.73 lakhs for this purpose shall be fully utilized and not to be diverted to any other purpose.</p>	<ul style="list-style-type: none">- Shall be undertaken through J&K Forest Department as proposed in EMP Report.
xiii	<p>As proposed in the EMP, the Biodiversity Conservation and Wildlife Management Plans shall be taken up and implementation shall be included in the sixth monthly compliance report to be submitted to the Ministry, including its Regional Office.</p>	<ul style="list-style-type: none">- Biodiversity Conservation and Management Plan stands submitted to J&K Forest Department vide letter No. RATLE/GM(C-1)/2022/62 dated 29.09.2022.- Vide letter dated 14.11.2022, J&K Forest Department has been requested to expedite the approval of said Plan.- Subsequently, the matter was discussed with J&K Forest Department in review meeting held by Nodal Officer (FCA)/Chief Conservator of Forests, UT J&K on dated 25.11.2022.- The matter was again discussed in a meeting chaired by Conservator of

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		Forests, Chenab Circle, Doda at Kishtwar on 15.03.2023. - Vide letter No. Ratle/CEO/2023/E-49 dated 09.11.2023, J&K Forest Department has been requested for an early finalization and approval of Biodiversity Conservation and Management Plan and its timely implementation.
xiv	Indigenous plant species should be used for implementation of Biodiversity Management Plan and for Compensatory Afforestation. Expertise from R&D Centers may be used for propagation techniques. Provision should also be made to include researchers to implement these Plans and carrying out plantation.	Shall be complied
xv	Equipment likely to generate high noise levels shall meet the ambient noise standards as notified under the noise Pollution (Regulation and Control) Rules 2000, as amended in 2010 under Environment Protection Act (EPA), 1986. For this, necessary insulation arrangement etc. to be ensured.	Being complied
xvi	A provision of Rs. 30 Crores earmarked towards the Local Area Development Activities (LADA) shall be fully utilized and not to be diverted for any other purpose. The implementation of activities as submitted to the Ministry shall be taken up as soon possible. In addition, a grant of Rs. 30 Crores earmarked for Corporate Social Responsibility (CSR) and Rs.30 Crores for skill development purpose shall also be duly utilized and not to be diverted for any other purpose.	- Implementation of Local Area Development Activities, Corporate Social Responsibility activities and Skill Development Plan shall be ensured by Commissioner R&R / Deputy Commissioner, Kishtwar in line with final approval of R&R Package by GOJK.
xvii	LADA activities may be undertaken by M/s Ratle Hydro Electric Project Pvt. Ltd to enhance delivery mechanism for operational point of view.	- Implementation of LADA activities shall be ensured by Commissioner R&R/ District Administration in line with final approval of R&R Package by GOJK.

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xviii	Tie-ups shall be made with existing city hospitals for disposal of Bio-medical waste in case district hospital at Kishtwar does not have the facility for handling biomedical waste as proposed in the report.	Shall be complied
xix	Any other clearance from other organization/department, if required, shall be obtained before commencement of the project	Shall be complied
Sl. No.	General Conditions	Compliance status
i	Adequate arrangement for providing free fuel like kerosene/wood/LPG shall be made at project cost for the labour engaged in the construction work so that indiscriminate felling of trees is prevented.	The LPG from Depot(s) at Drabshalla and Kishtwar is being used as fuel for labour colonies.
ii	Medical facilities as well as recreational facilities shall also be provided to labourers.	<ul style="list-style-type: none"> - One Dispensary has been set up by Contractor at Project site which is being manned by One Doctor and 13 paramedical staff. Further, two Ambulances have also been deployed to cater to the health requirements of their staff and labour force. - One Dispensary has been set up at Project site by Project Authorities also. - In addition, one First Aid Centre cum Dispensary has been established by Ratle Project at Shalimar Colony which is being manned by one Doctor and 2 paramedical staff. - Recreational facilities shall also be ensured by the Contractor.
iii	All the labourers to be engaged for construction works shall be thoroughly examined by health personal and adequately treated before issuing them work permit.	Required health measures being taken up by the major Contractor.

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iv	No fugitive dust emissions should be observed at the construction sites. Water sprinkling arrangements should be made to suppress the fugitive emissions.	- Regular water sprinkling at work sites is being carried out to suppress the fugitive dust emissions. - Fleet of three water Tankers is in service to cater to regular water sprinkling.
v	Potable drinking water and proper sanitary facilities shall be provided for the labour force and the local area people.	Being complied
vi	Restoration of construction area including dumping site of excavated materials shall be ensured by levelling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	- Restoration of construction areas with proper treatment and plantation of suitable species shall be taken up upon completion of construction activities.
vii	Environmental parameters shall be monitored regularly and six monthly reports shall be submitted to the regional Office of the Ministry and State Pollution Control Board for review.	- The sampling & monitoring of environmental quality parameters has been carried out at Project sites. The test reports are enclosed herewith as Appendix-II .
viii	The project proponent shall also submit six monthly compliance reports of the stipulated EC conditions (both hard copies as well as by e-mail) to the respective Regional Office of MoEF and State Pollution Control Board. Monitoring report and compliance report shall be up-loaded on the web-site of project proponent.	- 06 monthly reports on the status of compliance of the stipulated EC conditions are being regularly submitted and the same are also being put on the website of RHPCL i.e. www.rhpcindia.com .
Other Conditions mentioned in the EC Letter		
5.	The Project Proponent shall provide full cooperation and all required documents, data and access to the Officials of Regional Office of MoEF who would be monitoring the implementation of environmental safeguards.	Being complied

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6.	Besides the above stated conditions, M/s Ratle hydro Electric Project Pvt. Ltd and Government of Jammu & Kashmir shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time. The J&K Government may also like to monitor implementation of EMP at regular interval.	Being complied
7.	Any change in the scope of the Project shall be intimated to the Ministry and fresh approval, if required, shall be taken from the Ministry.	- In case of any change, the prior approval shall be taken from MoEF&CC, GOI.
10.	A Multi-disciplinary committee for monitoring the implementation of environmental safe guards during construction shall be constituted by the Project Proponent in consultation with the Ministry as early as possible. The Proponent shall suggest the members and their profile for approval of the Ministry. Proponent shall organize six monthly meetings of the committee and submit the monitoring report to the Ministry.	- The request for constitution of multi-disciplinary committee to oversee the implementation of environmental safeguard measures at Ratle HE Project, has been submitted to MoEF&CC, IRO, Jammu.
11.	A copy of the clearance letter shall be sent by the Proponent to local Panchayat, Zila parishad/Municipal Corporation, Urban local body and local NGO, if any, from whom suggestions / representations were received while processing the proposal. The clearance letter shall also be put on its web-sites by the project proponent.	- Environment Clearance letter of Ratle HE Project has been put on the website of RHPCL i.e. www.rhpcindia.com .
12.	The proponent should advertise at least in two local newspapers widely circulated in the region around 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 letter 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://www.envfor.nic.in .	- Environment Clearance letter of Ratle HE Project has been put on the website of RHPCL i.e. www.rhpcindia.com .

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13	After 5 years of the commissioning of the Project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, to be decided in consultation with the Ministry.	Shall be complied
14	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) including the respective Regional office of MoEF and Zonal Office of CPCB and SPCB.	- 06 monthly reports on the status of compliance of stipulated EC conditions are being regularly submitted.

*The previous records of Project regarding implementation of EMPs in compliance to the EC conditions are yet to be handed over by JKSPDC. The above information shall be suitably updated upon receipt of records and shall also be submitted to MoEF&CC for kind information.

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ANNEXURE-II

Ratle HE Project (850 MW)

(Status Report as on 30.09.2023)

Ratle Hydro-Electric Project is a run-of-river scheme proposed on river Chenab in District Kishtwar of UT Jammu and Kashmir with installed capacity of 850MW. The Project envisages construction of 133mtr high (from deepest foundation level) Concrete Gravity Dam, an underground Power House to accommodate 4 units of capacity 205MW each and one Auxiliary Unit of capacity 30MW.

Initially, the construction of Project was taken up by J&K State Power Development Corporation through M/s GVK however the work was stopped in 2014. The plan for execution of Project was revived by Ministry of Power, GOI in 2018 in consultation with Govt. of Jammu and Kashmir. The MoU was signed on 03.02.2019 and subsequently, supplementary MoU was signed on 03.01.2021 between NHPC (51%) and JKSPDC (49%) for formation of new Joint Venture for execution of Ratle HE Project. The new JV with the name "Ratle Hydroelectric Power Corporation Ltd." was incorporated on 01.06.2021 for execution of 850MW Ratle HE Project.

1. Status of Clearances:

Clearance	Status
Appraisal by CEA	TEA accorded by CEA on 19.12.2012. TEA further transferred in the name of RHPCL vide communication No. CEA-SY-25-50/1/2019-PAC Division/438-43 dated 29.12.2021
Forest Clearance	Accorded by GOJK in favour of JKSPDC on 27.04.2012 (for diversion of 138.93 Ha Forest land) and on 05.03.2014 (for diversion of 29.13 Ha Forest land) respectively. Vide communication No. 15-01/2021-Jammu dated 18.01.2022 and 08.03.2022, approval accorded by MoEF&CC, GOI for change of User Agency from JKSPDC to RHPCL.
Environment Clearance	Accorded by MoEF&CC vide letter No. J-12011/39/2010-IA.I dated 12.12.2012. The EC was transferred by MoEF&CC in the name of RHPCL vide communication No. J-12011/39/2010-IA.I dated 27.09.2021.
Indus water Clearance	Accorded by MoWR (Indus Wing) on 16.08.2012. Vide letter dated 02.07.2021, MoWR (Indus Wing) has confirmed the validity of IWT Clearance of the Project in favour of RHPCL.
PIB/CCEA Clearance	Cabinet has accorded the Investment sanction of Rs. 5281.94Cr for implementation of 850MW Ratle HE Project communicated vide MoP letter dated 11.02.2021.
R&R Plan Approval	Vide Order No. 91-PDD of 2013 dated 21.03.2013, GOJK had accorded the sanction to R&R Package of the Project for a total

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amount of Rs. 110 Crore. As per provisions of MoU, the R&R Plan of Project has been updated in line with the rates provided in case of Kishanganga HE Project, J&K and submitted to GOJK for approval. The In-principle approval to the updated R&R Plan has been accorded by the Standing Committee headed by Chief Secretary, J&K. The final approval of the R&R Plan by GOJK is under progress.

2. Award of construction works

The work for Turnkey Execution of Ratle HE Project has been awarded to M/s MEIL on 18.01.2022. The diversion of river Chenab through Diversion Tunnel has been achieved on 27.01.2024. The excavation of MAT and CVT has also been completed whereas the work on other associated components viz. TRTs, Pressure shafts, Power House, Surge chamber and Dam stripping is under progress by the Contractor. As per Investment sanction accorded to the Project by GOI, the Project is scheduled to be completed by February 2026.

3. Status of Land Acquisition and transfer of land to RHPCL

As mentioned in GOJK Order No. 55-JK (PDD) of 2022 dated 10-05-2022 (in terms of Administrative Council Decision No. 48/3/2022 dated 15-03-2022), State land measuring 233.96 Ha and Private land measuring 55.52 Ha has been acquired by JKSPDC through concerned Revenue Collectorate(s) of J&K Govt. for construction of Ratle HE Project in terms of Jammu and Kashmir State Land Acquisition Act. The Awarded amount on account of acquisition of land stands already deposited with concerned Revenue Collectorate(s) and the Land Awards have been issued by GOJK in favour of JKSPDC. Vide aforementioned Govt. Order dated 10.05.2022, JKPDD has been authorized to lease out land acquired by JKPDC for development of 850MW Ratle HEP to RHPCL. The sanction has also been accorded by GOJK for use of land measuring 138.81 Ha falling under river bed. The land acquired for Ratle HE Project has been physically taken over by RHPCL from JKSPDC. However, the formal lease deed for Project land is yet to be executed for which the matter is being regularly pursued with JKSPDC/JKPDD.

4. Status of R&R Plan Implementation

Vide Order No. 91-PDD of 2013 dated 21.03.2013 issued by GOJK in terms of Cabinet decision No. 44/7/2013 dated 15.03.2013, the sanction had been accorded to the R&R Package of 850MW Ratle HE Project for a total amount of Rs. 110.00 Crore. The above R&R Package sanctioned by GOJK includes the R&R Plan (Rs. 20.00 Crore), Local Area Development Plan including Skill Development Plan (Rs. 60.00 Crore) and Corporate Social Responsibility Plan (Rs.30.00 Crore). A part of R&R benefits as per the approved Plan stands already released to the beneficiaries.



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In compliance to provisions of the MoU signed for incorporation of RHPCL, the rates of various provisions have been updated as per the rates provided in case of Kishanganga HE Project of NHPC and the updated R&R Plan of Ratle HE Project has been submitted to JKPDC / JKPDD and Department of DMRRR vide communication dated 07.09.2021 and 05.11.2021 for further examination. In September 2022, BOD of RHPCL has accorded approval to the revised Cost Estimate of R&R Plan. The Standing Committee headed by the Chief Secretary, J&K has accorded the In-principle approval to the updated R&R Plan of Ratle HE Project. The final approval of the R&R Plan by GOJK is under progress. GOJK has been requested by RHPCL for an early accord of final approval to the updated R&R Plan so that the R&R benefits could be timely released to the beneficiaries by Commissioner R&R, Ratle HE Project (Deputy Commissioner, Kishtwar).

5. Status of Infrastructure works

- i) The construction of access roads leading to major structures like Dam, DT, Power House etc. have been completed.
- ii) The Project colony at Drabshala is under the stage of finalization by the team of Architects.
- iii) A temporary Office setup has been developed at Project site, Drabshalla and the same is under use by the Project.
- iv) 33/11 KV receiving station for Ratle HE Project has been constructed (partially) through JKPDD. The matter is being taken up with concerned Department of J&K Govt. for bringing the same into functional stage.
- v) A Dispensary has been set up at Project site and another at Shalimar Office which is being manned by one Doctor and two paramedical staff.
- vi) A Quality Control Lab has been established at site through Contractor and is operational.
- vii) The security posts have also been constructed at work sites.
- viii) The demarcation of Project land is under progress by District Revenue Authorities in association with Project Officials.

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Idma Laboratories Limited

TEST REPORT

Lab No.	201223N-E-001		Page No. 1/1	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	Camp Area.			
Visual Observation	N/A			
Date of Sampling	15/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013			
Testing Protocol	NAAQS			

RESULTS

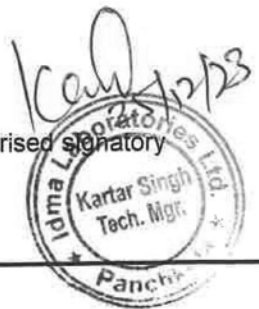
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m ³	77.6	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	14.1	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	17.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	PM2.5	µg/m ³	35.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
5	CO	mg/m ³	0.44	Max. 2	NAAQMS/36/2012-13

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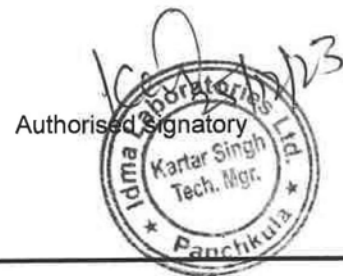
Lab No.	201223N-E-002		Page No. 1/1
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	01 No.		
Packing, Markings#	Filter Paper Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	E-MAIL	Dated	19/11/2023
Date of Receipt of Sample	20/12/2023		
Period of Analysis	20/12/2023 To 25/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz
Sampling Location#	Damtop Ground		
Visual Observation	N/A		
Date of Sampling	17/12/2023		
Date of Reporting	25/12/2023		
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m ³	79.4	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	16.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	18.7	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	PM2.5	µg/m ³	39.4	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
5	CO	mg/m ³	0.39	Max. 2	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

Lab No.	201223N-E-003	Page No. 1/1
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir	
Type of Sample#	Ambient Air	
Customer's Description of Sample#	Ambient Air	
Quantity#	01 No.	
Packing, Markings#	Filter Paper Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	E-MAIL	Dated 19/11/2023
Date of Receipt of Sample	20/12/2023	
Period of Analysis	20/12/2023 To 25/12/2023	
Sampling Team	Idma Representative Team	Client Mr. Irfanul Aziz
Sampling Location#	Down Stream	
Visual Observation	N/A	
Date of Sampling	17/12/2023	
Date of Reporting	25/12/2023	
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013	
Testing Protocol	NAAQS	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m ³	76.8	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	12.6	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	16.4	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	PM2.5	µg/m ³	33.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
5	CO	mg/m ³	0.38	Max. 2	NAAQMS/36/2012-13

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TEST REPORT

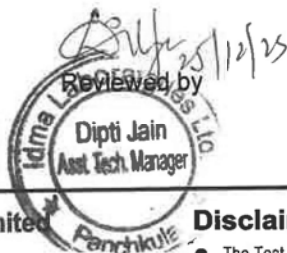
Lab No.	201223N-E-004		Page No. 1/1
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	01 No.		
Packing, Markings#	Filter Paper Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	E-MAIL	Dated	19/11/2023
Date of Receipt of Sample	20/12/2023		
Period of Analysis	20/12/2023 To 25/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz
Sampling Location#	Up Stream		
Visual Observation	N/A		
Date of Sampling	17/12/2023		
Date of Reporting	25/12/2023		
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m ³	77.1	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	15.5	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	19.7	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	PM2.5	µg/m ³	37.8	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
5	CO	mg/m ³	0.40	Max. 2	NAAQMS/36/2012-13

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TEST REPORT

Lab No.	201223N-E-005	Page No.	1/1
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	E-MAIL	Dated	19/11/2023
Date of Receipt of Sample	20/12/2023		
Period of Analysis	20/12/2023 To 25/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz
Sampling Location#	Camp Area		
Visual Observation	N/A		
Date of Sampling	15/12/2023		
Date of Reporting	25/12/2023		
Sampling Protocol	CPCB Protocol:2015		
Testing Protocol	EPA/CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	67.5	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	58.4	Max 70	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	201223N-E-006	Page No. 1/1
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir	
Type of Sample#	NOISE LEVEL (AMBIENT)	
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)	
Quantity#	01 No.	
Packing, Markings#	Instrument at Site	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	E-MAIL	Dated 19/11/2023
Date of Receipt of Sample	20/12/2023	
Period of Analysis	20/12/2023 To 25/12/2023	
Sampling Team	Idma Representative Team	Client Mr. Irfanul Aziz
Sampling Location#	Damtop Ground	
Visual Observation	N/A	
Date of Sampling	17/12/2023	
Date of Reporting	25/12/2023	
Sampling Protocol	CPCB Protocol:2015	
Testing Protocol	EPA/CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	66.8	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	57.6	Max 70	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	201223N-E-007		Page No. 1/1
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	E-MAIL	Dated	19/11/2023
Date of Receipt of Sample	20/12/2023		
Period of Analysis	20/12/2023 To 25/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz
Sampling Location#	Down Stream		
Visual Observation	N/A		
Date of Sampling	17/12/2023		
Date of Reporting	25/12/2023		
Sampling Protocol	CPCB Protocol:2015		
Testing Protocol	EPA/CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	66.2	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	55.8	Max 70	EPA Guideline Manual July 2008

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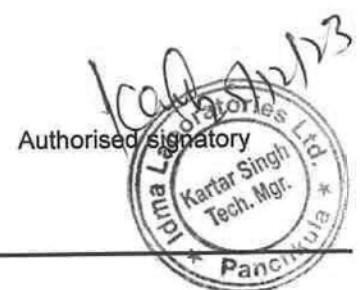
Lab No.	201223N-E-008		Page No. 1/1	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	NOISE LEVEL (AMBIENT)			
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	Up Stream			
Visual Observation	N/A			
Date of Sampling	17/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	CPCB Protocol:2015			
Testing Protocol	EPA/CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	68.9	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	57.2	Max 70	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	201223N-E-009	Page No. 1/3	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Dist.- Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water (Tap)		
Customer's Description of Sample#	Drinking Water (Tap)		
Quantity#	5 Ltr.+250 ml		
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	E-MAIL	Dated	19/11/2023
Date of Receipt of Sample	20/12/2023		
Period of Analysis	20/12/2023 To 25/12/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Irfanul Aziz
Sampling Location#	NHPC Office		
Visual Observation	N/A		
Date of Sampling	18/12/2023		
Date of Reporting	25/12/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	IS: 10500:2012		

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.11	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	109	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ-0.01)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	16.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	21.9	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023

Reviewed by
[Signature]
25/12/23
Dipti Jain
Asst. Tech. Manager

Authorised Signatory
[Signature]
25/12/23
Kartar Singh
Tech. Mgr.
Panchkula

Idma Laboratories Limited

Idma Corporate Park,
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Lab No.		201223N-E-009				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	15.0	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.09	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	102	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	142	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	7.9	Max. 200	Max. 400	APHA 4500-SO ² -4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	2.6	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	8.1	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.002	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.011	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Silver as Ag	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Mercury as Hg	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Arsenic	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023



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Idma Laboratories Limited

Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

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TEST REPORT

Lab No.		201223N-E-009				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
30	Total Chromium	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023
	Biological Testing (Water)	-	-	-	-	-
31	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

Opinion :

Represents details provided by the customer.

End of Report



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TEST REPORT

Lab No.	201223N-E-010	Page No. 1/3
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir	
Type of Sample#	R.O. Drinking Water	
Customer's Description of Sample#	R.O. Drinking Water	
Quantity#	5 Ltr.+250 ml	
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	E-MAIL	Dated 19/11/2023
Date of Receipt of Sample	20/12/2023	
Period of Analysis	20/12/2023 To 25/12/2023	
Sampling Team Idma	Idma Representative Team	Client Mr. Irfanul Aziz
Sampling Location#	NHPC Mess	
Visual Observation	N/A	
Date of Sampling	18/12/2023	
Date of Reporting	25/12/2023	
Sampling Protocol	IS:17614 (PART-1):2021	
Testing Protocol	IS: 10500:2012	

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.25	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	99	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ -0.01)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	18.5	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	19.4	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023

Reviewed by



Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
391, industrial Area, Phase - 1,
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Idma Laboratories Limited

TEST REPORT

Lab No.		201223N-E-010				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	16.0	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.12	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	111	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	152	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	9.4	Max. 200	Max. 400	APHA 4500-SO ² -4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	1.9	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	8.2	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.003	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.007	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Silver as Ag	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Mercury as Hg	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Arsenic	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023

Reviewed by

 Dipti Jain
 Asst. Tech. Manager

Karla 25/12/23
 Authorised signatory

Kartar Singh
 Tech. Mgr.

Idma Laboratories Limited

Idma Corporate Park,
 391, industrial Area, Phase - 1,
 Panchkula - 134113,
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 Tel No. 0172 - 5064827, - 5064830
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Idma Laboratories Limited

TEST REPORT

Lab No.		201223N-E-010				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
30	Total Chromium	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023
	Biological Testing (Water)	-	-	-	-	-
31	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

Opinion :

Represents details provided by the customer.

End of Report



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TEST REPORT

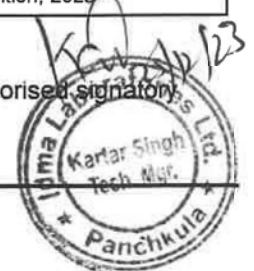
Lab No.	201223N-E-011		Page No. 1/3	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	RO Drinking Water			
Customer's Description of Sample#	RO Drinking Water			
Quantity#	5 Ltr.+250 ml			
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	Camp Area			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	IS: 10500:2012			

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.24	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	86	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ-0.01)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	15.6	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	13.4	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023



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TEST REPORT

Lab No.		201223N-E-011				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	14.8	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.04	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	99	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	125	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	5.6	Max. 200	Max. 400	APHA 4500-SO ²⁻ -4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.2	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	1.7	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	6.4	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.001	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.006	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Silver as Ag	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Mercury as Hg	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Arsenic	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023



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TEST REPORT

Lab No.		201223N-E-011				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
30	Total Chromium	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023
	Biological Testing (Water)	-	-	-	-	-
31	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

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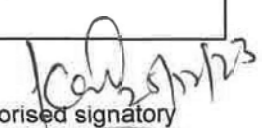


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TEST REPORT

Lab No.		201223N-E-012				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.07	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO3)	mg/L	113	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	162	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO4	mg/L	10.5	Max. 200	Max. 400	APHA 4500-SO ² -4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	2.1	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	8.6	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.022	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	BLQ (LOQ-0.0005)	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Silver as Ag	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Mercury as Hg	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Arsenic	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023

Reviewed by

 Dipti Jain
 Asst. Tech. Manager


Authorised signatory



 Kartar Singh
 Tech. Mgr.

Idma Laboratories Limited

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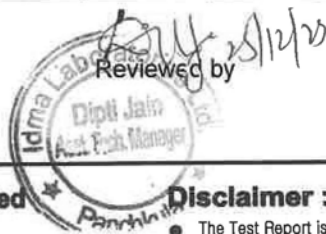
Idma Laboratories Limited

TEST REPORT

Lab No.	201223N-E-012		Page No. 1/3	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Drinking Water			
Customer's Description of Sample#	Drinking Water			
Quantity#	5 Ltr.+250 ml			
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	GVK Colony			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	IS: 10500:2012			

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit In absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.32	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	105	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	<0.01	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	19.7	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	14.5	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023
8	Magnesium as Mg	mg/L	15.7	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023



Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)
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Website : www.idmagroup.co.in
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Idma Laboratories Limited

TEST REPORT

Lab No.		201223N-E-012				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
30	Total Chromium	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023
	Biological Testing (Water)	-	-	-	-	-
31	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

Opinion :

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,
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TEST REPORT

Lab No.	201223N-E-013	Page No. 1/3	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr.+250 ml		
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	E-MAIL	Dated	19/11/2023
Date of Receipt of Sample	20/12/2023		
Period of Analysis	20/12/2023 To 25/12/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Irfanul Aziz
Sampling Location#	New Camp Downstream		
Visual Observation	N/A		
Date of Sampling	18/12/2023		
Date of Reporting	25/12/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	IS: 10500:2012		

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.2	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	101	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ - 0.01)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	18.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	16.7	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023



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Idma Laboratories Limited

Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
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Idma Laboratories Limited

TEST REPORT

Lab No.		201223N-E-013				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	17.0	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.08	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	115	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	148	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	9.4	Max. 200	Max. 400	APHA 4500-SO ² -4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	1.9	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	8.8	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.007	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.002	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Silver as Ag	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Mercury as Hg	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Arsenic	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023

Reviewed by

Dipti Jain
 Asst. Tech. Manager


Authorised signatory

Kartar Singh
 Techn. Mgr.


Idma Laboratories Limited

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 391, industrial Area, Phase - 1,
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TEST REPORT

Lab No.		201223N-E-013				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit In absence of alternate Source	
30	Total Chromium	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023
	Biological Testing (Water)	-	-	-	-	-
31	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

Opinion :

Represents details provided by the customer.

End of Report

Reviewed by



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Idma Laboratories Limited

TEST REPORT

Lab No.	201223N-E-014		Page No. 1/3	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Drinking Water			
Customer's Description of Sample#	Drinking Water			
Quantity#	5 Ltr.+250 ml			
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	NHPC Office			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	IS: 10500:2012			

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.34	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	108	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	<0.05	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	18.1	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	15.7	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023
8	Magnesium as Mg	mg/L	16.9	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023



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TEST REPORT

Lab No.		201223N-E-014				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.08	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	114	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	132	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	9.1	Max. 200	Max. 400	APHA 4500-SO ² -4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	2.2	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	10.9	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.012	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.034	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Silver as Ag	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
30	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023

Reviewed by

 Dipti Jain
 Asst. Tech. Manager


Authorised signatory

 Kartar Singh
 Tech. Mgr.


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 391, industrial Area, Phase - 1,
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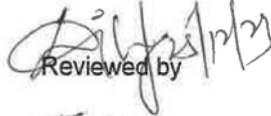
TEST REPORT

Lab No.		201223N-E-014				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
30			0.0005)			
	Biological Testing (Water)	-	-	-	-	-
31	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

Opinion :

Represents details provided by the customer.

End of Report

Reviewed by 



Authorised signatory 



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Idma Laboratories Limited

TEST REPORT

Lab No.	201223N-E-015		Page No. 1/2	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Surface Water			
Customer's Description of Sample#	Surface Water			
Quantity#	5 Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	Up-Stream			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	-			

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	pH	-	7.39	APHA 4500H+B 24th Edition, 2023
2	Chloride as Cl	mg/L	16.7	APHA 4500Cl- B 24th Edition, 2023
3	Hardness Total (as CaCO ₃)	mg/L	80	APHA 2340C 24th Edition, 2023
4	Oil & Grease	mg/L	<2.5	APHA 5500 B 24th Edition, 2023
5	Total Dissolved Solids	mg/L	95	APHA 2540 C 24th Edition, 2023
6	Sulphate as SO ₄	mg/L	7.9	APHA 4500-SO ² -4 E 24th Edition, 2023
7	Iron as Fe	mg/L	0.031	APHA 3120 B 24th Edition, 2023
8	Lead as Pb	mg/L	BLQ (LOQ - 0.0005)	APHA 3120 B 24th Edition, 2023
	Biological Testing (Water)	-	-	-



Idma Laboratories Limited

Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

Lab No.		201223N-E-015		Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method
9	Faecal Coliforms	MPN/100ml	350	APHA 9221 F 24th Edition 2023
10	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis
11	Chemical Oxygen Demand	mg/L	4	CPCB Guide Manual:Water & waste water Analysis

Opinion :

Represents details provided by the customer.

End of Report



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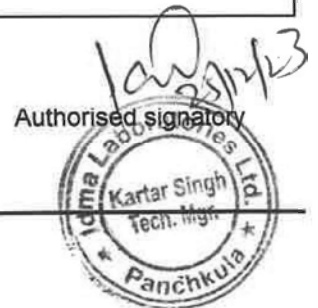
Idma Laboratories Limited

TEST REPORT

Lab No.	201223N-E-016		Page No. 1/2	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Surface Water			
Customer's Description of Sample#	Surface Water			
Quantity#	5 Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	Down Stream			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	-			

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	pH	-	7.37	APHA 4500H+B 24th Edition, 2023
2	Chloride as Cl	mg/L	12.6	APHA 4500Cl- B 24th Edition, 2023
3	Hardness Total (as CaCO ₃)	mg/L	67	APHA 2340C 24th Edition, 2023
4	Oil & Grease	mg/L	<2.5	APHA 5500 B 24th Edition, 2023
5	Total Dissolved Solids	mg/L	91	APHA 2540 C 24th Edition, 2023
6	Sulphate as SO ₄	mg/L	7.7	APHA 4500-SO ² -4 E 24th Edition, 2023
7	Iron as Fe	mg/L	0.024	APHA 3120 B 24th Edition, 2023
8	Lead as Pb	mg/L	BLQ (LOQ - 0.0005)	APHA 3120 B 24th Edition, 2023
	Biological Testing (Water)	-	-	-



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Idma Laboratories Limited

TEST REPORT

Lab No.		201223N-E-016		Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method
9	Faecal Coliforms	MPN/100ml	280	APHA 9221 F 24th Edition 2023
10	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis
11	Chemical Oxygen Demand	mg/L	<4	CPCB Guide Manual:Water & waste water Analysis

Opinion :

Represents details provided by the customer.

End of Report

Dipti Jain
25/12/23
Reviewed by



Kartar Singh
01/12/23
Authorised signatory



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Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
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Idma Laboratories Limited

TEST REPORT

Lab No.	201223N-E-017		Page No. 1/1	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Waste Water			
Customer's Description of Sample#	Waste Water			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	Camp Area			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.62	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	52.4	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	10	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.7	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	496	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	27	Max 100	APHA2540 D24th Edition, 2023

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Idma Laboratories Limited

TEST REPORT

Lab No.	201223N-E-018		Page No. 1/1	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Waste Water			
Customer's Description of Sample#	Waste Water			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	RO Plant Area			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.68	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	39.7	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	8	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	<2.5	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	379	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	19	Max 100	APHA2540 D24th Edition, 2023

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Authorised signatory



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TEST REPORT

Lab No.	201223N-E-019	Page No. 1/1
Customer#	Megha Engineering & Infrastructures Limited Rattle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir	
Type of Sample#	Noise Level D.G.	
Customer's Description of Sample#	Noise Level D.G.	
Quantity#	01 No.	
Packing, Markings#	Instrument at Site	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	E-MAIL	Dated 19/11/2023
Date of Receipt of Sample	20/12/2023	
Period of Analysis	20/12/2023 To 25/12/2023	
Sampling Team	Idma Representative Team	Client Mr. Irfanul Aziz
Sampling Location#	DG-1, Cummins 500 KVA (Upstream)	
Visual Observation	N/A	
Date of Sampling	18/12/2023	
Date of Reporting	25/12/2023	
Sampling Protocol	CPCB Protocol:2015	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.4	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.2	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.8	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.4	Min. 25	EPA Guideline Manual July 2008

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End of Report

[Signature]
Reviewed by
Dipti Jain
Asst. Test Manager
[Stamp: Idma Laboratories Ltd. Panchkula]

[Signature]
Authorised signatory
Kartar Singh
Tech. Mgr.
[Stamp: Idma Laboratories Ltd. Panchkula]

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TEST REPORT

Lab No.	201223N-E-020		Page No. 1/1	
Customer#	Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	E-MAIL	Dated	19/11/2023	
Date of Receipt of Sample	20/12/2023			
Period of Analysis	20/12/2023 To 25/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Irfanul Aziz	
Sampling Location#	DG-2, Cummins 500 KVA (Down Stream)			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	25/12/2023			
Sampling Protocol	CPCB Protocol:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.8	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.9	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.2	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guideline Manual July 2008

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