



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)

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

SIX MONTHLY COMPLIANCE REPORT ON ENVIRONMENTAL ASPECTS
(for the period October 2021 to March 2022)

ANNEXURE-I

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.1 dated 12.12.2012 MoEF&CC letter No. J-12011/39/2010-IA.1 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 18.01.2022 and 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



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)

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: rhpcl@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: rhpcl@nhpc.nic.in</p>																										
6	Details of Environmental Management Plan	<p>Environmental Management Plans to be implemented at the Project as provided in the EMP Report are as follows:</p> <table border="1"><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
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																											

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)

CIN: U40105JK2021GOI012380 E-mail id: rhpcl@nhpc.nic.in



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)

		<table border="1"> <tbody> <tr> <td>13</td> <td>Dam Break Modelling & Disaster Management Plan</td> </tr> <tr> <td>14</td> <td>Local Area Development Plan</td> </tr> <tr> <td>15</td> <td>CSR Activities</td> </tr> <tr> <td>16</td> <td>Local Skill Development Plan</td> </tr> <tr> <td>17</td> <td>Environmental Monitoring Programme</td> </tr> </tbody> </table>	13	Dam Break Modelling & Disaster Management Plan	14	Local Area Development Plan	15	CSR Activities	16	Local Skill Development Plan	17	Environmental Monitoring Programme
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)	<p>Forest Land: 168.06 ha (138.93 ha + 29.13 ha)</p> <p>Private Land : 55.52 ha</p> <p>State Land : 233.96 ha</p> <p>River Bed land : 138.81 ha</p> <p>Total Land : 596.35 ha</p> <p>Note:-Above details are as per GOJK Order No. 198-PDD of 2014 dated 15-10-2014 and No.108-FST of 2014 dated 05.03.2014</p>										
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	<p>Details of PAFs</p> <p>Displaced PAFs : 80</p> <p>Non Displaced PAFs : 160</p> <p>Total PAFs : 240</p> <p>a) Scheduled Tribe : 17 families</p> <p>b) Rural Artisans/ Small Traders : 62 families</p>										
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	<p>a) Original TEA approved cost (2012): Rs. 5517.02 Cr (completion cost)</p> <p>Cabinet Investment sanction approved (2021): Rs.5281.94Cr (Nov 2018 PL)</p> <p>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</p>										

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)

CIN: U40105JK2021GOI012380 E-mail id: rhpcl@nhpc.nic.in



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)

	<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. 10.36 Cr (till March 2022)</p> <p>Allocations for EMP : Rs. 262.35 Cr (as approved by MoEF&CC)</p> <p>Details of actual expenditure already incurred on EMP prior to 01.06.2021 shall be incorporated in the report as and when the records of the Project are handed over by JKSPDC to RHPCL.</p> <p>However, the details of expenditure incurred on EMP upto March 2022 as available with the Project is given below:-</p> <p>i)Payment released on account of Forest Clearance: 1773.07 Lakh (including Rs.179.71 Lakh on account of Compensatory Afforestation Programme)</p> <p>ii) Solid Waste Management Plan*: Rs.0.11 Lakh</p> <p>iii)public health delivery system*: Rs. 1.97 Lakh</p> <p>iv)Energy Conservation measure*: Rs. 3.00 Lakh</p> <p>v)Muck Disposal Plan*: Rs.40.00 Lakh</p> <p>vi)CSR Plan: Rs.9.05 Lakh</p> <p>vii)Environmental Monitoring Programme*: Rs.5.50 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 diversion of 29.13 Ha Forest land for use vide Order No. 108-FST of 2014 dated 05.03.2014. 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.</p>

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)

CIN: U40105JK2021GOI012380 E-mail id: rhpcl@nhpc.nic.in



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)

	(b) The status of clear felling of trees in Forest Land	(b) Clear felling status:-Records yet to be handed over by JKSPDC to RHPCL.
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	Previous records of Project yet to be handed over by JKSPDC to RHPCL.
14.	Brief note on the status of compliance of the conditions stipulated by MOEF&CC	Details enclosed as Appendix-I .



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)

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	<p>Shall be complied</p> <ul style="list-style-type: none"> - Previous records regarding implementation of EMPs yet to be handed over to RHPCL by JKSPDC.
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																																																									
ii	<p>All the commitments made during the public hearing shall be fulfilled completely.</p>	<p>Shall be complied</p> <ul style="list-style-type: none"> - 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. - The revised R&R Plan of the Project is under examination by JKPDD / Department of DMRRR for its approval by the Empowered Committee/ GOJK. 																																																												



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)

iii	<p>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.</p>	<p>Shall be complied</p> <ul style="list-style-type: none">- Previous records of Project yet to be handed over by JKSPDC to RHPCL.- Rehabilitation & Resettlement 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).- A part of R&R benefits as per the approved Plan stand already released to the beneficiaries however, the exact details of payment are not available as the records of the Project are yet to be handed over by JKSPDC to RHPCL.- As per R&R Plan approved by GOJK in 2013, the Deputy Commissioner, Kishtwar has been appointed as the Commissioner R&R for implementation of R&R Plan.- Now, as per MoU, the revised estimate of previously approved R&R Plan of Ratle HE Project has been submitted by RHPCL to JKSPDC / JKPDD and Department of DMRRR on 07.09.2021 and 05.11.2021 respectively for approval of same by Empowered Committee/ GOJK.- The approval of revised R&R Plan is awaited from GOJK.
-----	---	--



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)

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.	- The proposal for Monitoring Committee shall be submitted as soon as the R&R Plan is approved 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).	- With the initial setup, the approach road to Muck Disposal area-II (left bank of river Chenab, d/s of Dam axis) is being developed by the Contractor. - As intimated by the Contractor, a part of excavated muck (approx. 1000CuM) has been utilized in construction of various approach roads. - The disposal of unused muck shall be carried out only at designated muck dumping sites as per Muck Disposal Plan proposed in the EMP.
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 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

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)

CIN: U40105JK2021GOI012380 E-mail id: rhpcl@nhpc.nic.in



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)

		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
xi	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.	<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.- 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.



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)

xii	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.	- Shall be undertaken through J&K Forest Department as proposed in EMP.
xiii	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.	- Shall be undertaken through J&K Forest Department as proposed in EMP.
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 approval of R&R Package by GOJK.

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)

CIN: U40105JK2021GOI012380 E-mail id: rhpc@nhpc.nic.in



रतले हाइड्रोइलेक्ट्रिक पावर कॉरपोरेशन लिमिटेड

(एनएचपीसी लिमिटेड और जेकेएसपीडीसी लिमिटेड का एक संयुक्त उद्यम)

RATLE HYDROELECTRIC POWER CORPORATION LIMITED

(A Joint Venture of NHPC Limited and JKSPDC Limited)

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 the approval of the R&R Package.
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 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.	- One Dispensary has been set up by Contractor at Project site which is being manned by two paramedical staff. Recreational facilities shall also be ensured by Contractor. - Further, one First Aid Centre cum Dispensary has been established by Ratle Project also at Shalimar Colony.
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.	Being complied
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.

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)

CIN: U40105JK2021GOI012380 E-mail id: rhpcl@nhpc.nic.in



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)

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 leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Being complied
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 in March 2022. 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. 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.	Shall be complied
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

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)

CIN: U40105JK2021GOI012380 E-mail id: rhpcl@nhpc.nic.in



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)

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 requirement, the 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 proposal for constitution of Multi-disciplinary committee shall be submitted shortly.
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.	Shall be complied - Environment Clearance letter of Ratle HE Project has been put on the website of RHPCL i.e. rhpclindia.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 .	Shall be complied
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

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)

CIN: U40105JK2021GOI012380 E-mail id: rhpcl@nhpc.nic.in



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)

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.	Shall be complied - 06 monthly reports on the status of compliance of the 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 to RHPCL. The above information shall be suitably updated upon receipt of records and shall also be submitted to MoEF&CC for kind information.

----- x----- x-----



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-II

Ratle HE Project (850 MW)

(Status Report as on 31.03.2022)

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.



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)

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 amount of Rs. 110 Crore. As per MoU, the rates of R&R Plan are to be revised as per the rates provided in case of R&R Plan of Kishanganga HE Project of NHPC. Accordingly, the updated estimate of R&R Plan of Ratle HE Project stands submitted by RHPCL to GOJK on 07.09.2021 and 05.11.2021 respectively. The revised R&R Plan is under examination by JKPDC/ JKPDD and Department of DMRRR for seeking approval from Empowered Committee / GOJK.

2. Award of construction works

After completion of tendering process, the work for Turnkey Execution of Ratle HE Project has been awarded to M/s MEIL on 18.01.2022. The initial setup and mobilisation of equipments is underway by the Contractor. Further, the work of restoration/ widening and strengthening of approach roads is also under progress. 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 per GOJK Order No. 198-PDD of 2014 dated 15-10-2014 regarding sanction of lease, 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. Further, sanction has been accorded by GOJK for use of land measuring 138.81 Ha falling under river bed. The Awarded amount on account of acquisition of land stands deposited with concerned Revenue Collectorate(s). After disbursement of compensation among the land Owners, the Land Awards have been issued by GOJK in favour of JKSPDC. Further, vide communication dated 09.07.2021 and 10.03.2022, RHPCL has taken up the matter with GOJK for transfer of Project land from JKSPDC to RHPCL. The sanction of lease/ transfer of land in favour of RHPCL is under process by GOJK.

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



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)

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 however, exact details of payment shall be available only after the records of Project are handed over by JKSPDC to RHPCL.

Further, in compliance to Clause V(a) of the MOU signed for incorporation of RHPCL, the rates of the items of R&R Plan have been revised as per the rates provided in case of Kishanganga HE Project of NHPC and the revised 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 and approval by the Empowered Committee/ GOJK. The approval of the revised R&R Plan of Ratle HE Project is awaited from GOJK.

5. Status of Infrastructure works

- i) Access roads leading to major structures like Dam, DT, Power House etc. are under construction / restoration.
- ii) The Colonies / residential structures have been partially constructed at two different sites which are required to be renovated for use.
- iii) A temporary Office setup has been developed at Project site, Drabshalla and the Office building has been connected with LT Distribution Network /Grid Power.
- iv) Construction Power: 33/11 KV receiving station for Ratle HE Project has been constructed (partially) through JKPDD and the same is not functional presently.
- v) Medical Dispensary: A Medical Dispensary has been set up at Project site which is being manned by two paramedical staff.
- vi) Construction of Security Barracks- The security posts have been constructed at some work sites.
- vii) Demarcation of land: The Deputy Commissioner, Kishtwar has constituted a Committee of Revenue Officials for demarcation of entire land acquired for Ratle HE Project. The demarcation of Project land is under progress.

*Note: The land records pertaining to Ratle HE Project are yet to be handed over by JKSPDC to RHPCL, for which the exercise is under process.

----- X----- X-----



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D-	225	Date	06.04.22	Lab No.	290322L-ED-005	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	1 Nos.						
Packing, Markings	Filter Paper Packed In Polythene Pouch N/A						
Mode of Collection of Sample	Sampling By Laboratories						
Work Order No.	NIL	Dated	29/03/2022				
Date of Receipt of Sample	29/03/2022						
Period of Analysis	29/03/2022 To 02/04/2022						
Sampling Team Idma	Idma Representative Team	Client	Mr. P.Sudhakar				
Sampling Location	Down-Stream of Project Site						
Visual Observation	N/A						
Date of Sampling	26/03/2022						
Date of Reporting	02/04/2022						
Sampling Protocol	NAAQMS/36/2012-13						
Testing Protocol	NAAQS						

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM 10	µg/m ³	78.5	Max. 100	IS 5182 (Part 23) : 2006
2	PM2.5	µg/m ³	33.2	Max. 60	IDL/SP/03, Issue No-1, Issue Date.16.04.16
3	SO ₂	µg/m ³	14.8	Max. 80	IS 5182 (Part 2) : 2001
4	NO ₂	µg/m ³	18.5	Max. 80	IS 5182 (Part 6) : 2006
5	CO	mg/m ³	0.52	Max. 02	IS 5182 (Part 10) :1999

End of Report

Analyst
2/4/22

Analyst

(Renu Sharma)

For Idma Laboratories Limited

2/4/22
Authorized Signatory



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172-5064827, 5064830 Website : www.idmagroup.co.in



mail : testing@idmagroup.co.in | support@idmagroup.co.in | commercial@idmalab.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D- 226	Date 06.04.22	Lab No. 290322L-ED-006	Page No. 1/1
Customer	Megha Engineering & Infrastructures Limited Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar J&K		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 Nos.		
Packing, Markings	Filter Paper Packed In Polythene Pouch N/A		
Mode of Collection of Sample	Sampling By Laboratories		
Work Order No.	NIL	Dated	29/03/2022
Date of Receipt of Sample	29/03/2022		
Period of Analysis	29/03/2022 To 02/04/2022		
Sampling Team Idma	Idma Representative Team	Client	Mr. P.Sudhakar
Sampling Location	Up-Stream of Project Site		
Visual Observation	N/A		
Date of Sampling	26/03/2022		
Date of Reporting	02/04/2022		
Sampling Protocol	NAAQMS/36/2012-13		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM 10	µg/m ³	76.9	Max. 100	IS 5182 (Part 23) : 2006
2	PM2.5	µg/m ³	33.2	Max. 60	IDL/SP/03, Issue No-1. Issue Date.16.04.16
3	SO2	µg/m ³	15.7	Max. 80	IS 5182 (Part 2) : 2001
4	NO2	µg/m ³	19.3	Max. 80	IS 5182 (Part 6) : 2006
5	CO	mg/m ³	0.38	Max. 02	IS 5182 (Part 10) :1999

End of Report

Rel
2/4/22

Analyst

(Renu Sharma)

For Idma Laboratories Limited

Authorized Signatory



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172-5064827, 5064830 Website : www.idmagroup.co.in



Mail : testing@idmagroup.co.in | support@idmagroup.co.in | commercial@idmalab.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D- 227	Date 06/04/22	Lab No. 290322L-ED-007	Page No. 1/1
Customer	Megha Engineering & Infrastructures Limited Megha Engineering & Infrastructures Limited Ralle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar J&K		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 Nos.		
Packing, Markings	Filter Paper Packed In Polythene Pouch N/A		
Mode of Collection of Sample	Sampling By Laboratories		
Work Order No.	NIL	Dated	29/03/2022
Date of Receipt of Sample	29/03/2022		
Period of Analysis	29/03/2022 To 02/04/2022		
Sampling Team Idma	Idma Representative Team	Client	Mr. P.Sudhakar
Sampling Location	Camp Area		
Visual Observation	N/A		
Date of Sampling	26/03/2022		
Date of Reporting	02/04/2022		
Sampling Protocol	NAAQMS/36/2012-13		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM 10	µg/m ³	79.4	Max. 100	IS 5182 (Part 23) : 2006
2	PM2.5	µg/m ³	36.1	Max. 60	IDL/SP/03, Issue No-1, Issue Date.16.04.16
3	SO2	µg/m ³	15.6	Max. 80	IS 5182 (Part 2) : 2001
4	NO2	µg/m ³	20.9	Max. 80	IS 5182 (Part 6) : 2006
5	CO	mg/m ³	0.38	Max. 02	IS 5182 (Part 10) :1999

End of Report

Analyst
2/4/22

Analyst

Chenu Sharma

For Idma Laboratories Limited

Authorized Signatory
02/04/22
Idma Laboratories Ltd.
Panchkula

Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172-5064827, 5064830 Website : www.idmagroup.co.in



Email : testing@idmagroup.co.in | support@idmagroup.co.in | commercial@idmalab.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D- 228	Date 06.04.22	Lab No.	290322L-ED-008	Page No. 1/1
Customer	Megha Engineering & Infrastructures Limited Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar J&K			
Type of Sample	Noise Level (Ambient)			
Customer's Description of Sample	Noise Level (Ambient)			
Quantity	1 Nos.			
Packing, Markings	Instrument At Site N/A			
Mode of Collection of Sample	Sampling By Laboratories			
Work Order No.	NIL	Dated	29/03/2022	
Date of Receipt of Sample	29/03/2022			
Period of Analysis	29/03/2022 To 02/04/2022			
Sampling Team Idma	Idma Representative Team	Client	Mr. P.Sudhakar	
Sampling Location	Tunnel Face Portal Area, Down stream of Project			
Visual Observation	N/A			
Date of Sampling	26/03/2022			
Date of Reporting	02/04/2022			
Sampling Protocol	CPCB			
Testing Protocol	CPCB PROTOCOL July 2015			

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	69.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	58.2	Max 70	CPCB PROTOCOL July 2015.

End of Report

Resh
29/3/22

Analyst

(Resh Sharma)

For Idma Laboratories Limited



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172-5064827, 5064830 Website : www.idmagroup.co.in



Mail : testing@idmagroup.co.in | support@idmagroup.co.in | commercial@idmalab.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D- 224	Date 06.04.22	Lab No. 290322L-ED-009	Page No. 1/1
Customer	Megha Engineering & Infrastructures Limited Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar J&K		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 Nos.		
Packing, Markings	Instrument At Site N/A		
Mode of Collection of Sample	Sampling By Laboratories		
Work Order No.	NIL	Dated	29/03/2022
Date of Receipt of Sample	29/03/2022		
Period of Analysis	29/03/2022 To 02/04/2022		
Sampling Team Idma	Idma Representative Team	Client	Mr. P.Sudhakar
Sampling Location	Up Stream of Project Site		
Visual Observation	N/A		
Date of Sampling	26/03/2022		
Date of Reporting	02/04/2022		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	58.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	47.5	Max 70	CPCB PROTOCOL July 2015.

End of Report

Red
24/22

Analyst

Arum Sharma

For Idma Laboratories Limited

Arum Sharma
24/04/22
Authorized Signatory
TM/NI/III

Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172- 5064827, 5064830 Website : www.idmagroup.co.in



Email : testing@idmagroup.co.in | support@idmagroup.co.in | commercial@idmalab.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D- 230	Date 06.04.22	Lab No.	290322L-ED-010	Page No. 1/1
Customer	Megha Engineering & Infrastructures Limited Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt. - Kishtwar J&K			
Type of Sample	Noise Level (Ambient)			
Customer's Description of Sample	Noise Level (Ambient)			
Quantity	1 Nos.			
Packing, Markings	Instrument At Site N/A			
Mode of Collection of Sample	Sampling By Laboratories			
Work Order No.	NIL	Dated	29/03/2022	
Date of Receipt of Sample	29/03/2022			
Period of Analysis	29/03/2022 To 02/04/2022			
Sampling Team Idma	Idma Representative Team	Client	Mr. P.Sudhakar	
Sampling Location	Camp Area			
Visual Observation	N/A			
Date of Sampling	26/03/2022			
Date of Reporting	02/04/2022			
Sampling Protocol	CPCB			
Testing Protocol	CPCB PROTOCOL July 2015			

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	56.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	42.3	Max 70	CPCB PROTOCOL July 2015.

End of Report

Analyst

(Chen Shyam)

For Idma Laboratories Limited



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172- 5064827, 5064830 Website : www.idmagroup.co.in



Email : testing@idmagroup.co.in | support@idmagroup.co.in | commercial@idmalab.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D- 231	Date 06.04.22	Lab No. 290322L-ED-011	Page No. 1/1
Customer	Megha Engineering & Infrastructures Limited Megha Engineering & Infrastructures Limited Ratle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar J&K		
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.	NIL	Dated	29/03/2022
Date of Receipt of Sample	29/03/2022		
Period of Analysis	29/03/2022 To 02/04/2022		
Sampling Team Idma	Idma Representative Team	Client	Mr. P.Sudhakar
Sampling Location	Down-Stream Chenab River		
Visual Observation	N/A		
Date of Sampling	26/03/2022		
Date of Reporting	02/04/2022		
Sampling Protocol	IS: 3025-(P-1)-1987		
Testing Protocol	IS 3025		

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.54	IS 3025 (Part 11) :1983
2	Chloride as Cl	mg/L	9.2	IS 3025 (Part 32) : 1988
3	Hardness Total (as CaCO ₃)	mg/L	42	IS 3025 (Part 21) : 2009
4	Oil & Grease	mg/L	<2.5	IS 3025 (Part 39) :1991
5	Total Dissolved Solids	mg/L	89	IS 3025 (Part 16) : 1984
6	Sulphate as SO ₄	mg/L	6.8	IS 3025 (Part 24) :1986
7	Iron as Fe	mg/L	0.031	IS 3025 (Part 53) : 2003
8	Lead as Pb	mg/L	0.002	IS 3025 (Part 47) : 1992
	Biological Testing (Water)	--	-	--
9	Feecal Coliform	/100ml	130	IS 1622:1981
10	Total Coliform Bacteria	/100ml	350	IS 1622:1981
11	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44) :1993
12	Chemical Oxygen Demand	mg/L	5.94	IS 3025 (Part 58) : 2006

End of Report

For Idma Laboratories Limited

Prd
24/4/22
Chenabshar

Sudhakar
02/04/2022



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172- 5064827, 5064830 Website : www.idmagroup.co.in

E-mail : testing@idmagroup.co.in | support@idmagroup.co.in | commercial@idmalab.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D-	232	Date	06.04.22	Lab No.	290322L-ED-012	Page No.	1/1
Customer	Megha Engineering & Infrastructures Limited Megha Engineering & Infrastructures Limited Rattle Hydroelectric project Vill- Drabshalla, Distt.- Kishtwar J&K						
Type of Sample	Surface Water						
Customer's Description of Sample	Surface Water						
Quantity	5 Ltr.						
Packing, Markings, Seal & Quantity	Plastic Can. N/A						
Mode of Collection of Sample	Sampling By Laboratories						
Work Order No.	NIL				Dated	29/03/2022	
Date of Receipt of Sample	29/03/2022						
Period of Analysis	29/03/2022 To 02/04/2022						
Sampling Team Idma	Idma Representative Team				Client	Mr. P.Sudhakar	
Sampling Location	Up-Stream Chenab River						
Visual Observation	N/A						
Date of Sampling	26/03/2022						
Date of Reporting	02/04/2022						
Sampling Protocol	IS: 3025-(P-1)-1987						
Testing Protocol	IS : 3025						

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.47	IS 3025 (Part 11) :1983
2	Chloride as Cl	mg/L	9.5	IS 3025 (Part 32) : 1988
3	Hardness Total (as CaCO ₃)	mg/L	42	IS 3025 (Part 21) : 2009
4	Oil & Grease	mg/L	<2..5	IS 3025 (Part 39) :1991
5	Total Dissolved Solids	mg/L	87	IS 3025 (Part 16) : 1984
6	Sulphate as SO ₄	mg/L	6.1	IS 3025 (Part 24) :1986
7	Iron as Fe	mg/L	0.03	IS 3025 (Part 53) : 2003
8	Lead as Pb	mg/L	0.002	IS 3025 (Part 47) : 1992
	Biological Testing (Water)	--	-	--
9	Feecal Coliform	/100ml	170	IS 1622:1981
10	Total Coliform Bacteria	/100ml	220	IS 1622:1981
11	Biochemical Oxygen Demand (BOD 3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44) :1993
12	Chemical Oxygen Demand	mg/L	3.9	IS 3025 (Part 58) : 2006

End of Report

For Idma Laboratories Limited

Rid
21/4/22
Chenu Sharma

Sundee
29/03/22



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172- 5064827, 5064830 Website : www.idmagroup.co.in

E-mail : testing@idmagroup.co.in | support@idmagroup.co.in | commercial@idmalab.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



TC-8207

MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Page No. 1/3

Ref. No. IL/D- 233

Date 06.04.22

ULR : TC820722700001794F

Issued To:

M/s.Megha Engineering & Infrastructures Limited
Megha Engineering & Infrastructures Limited
Ratle Hydroelectric project
Vill- Drabshalla, Distt.- Kishtwar
J&K

Test Report as per : IS 10500: 2012, Amdt 1,2,3 & 4

Report No.: 290322L-FD-008/A
(Job Card.No.)

Report Issued Date: 04/04/2022

Your reference: NIL

Reference Date : 29/03/2022

PART A. PARTICULARS OF SAMPLE SUBMITTED

- (a) Nature of Sample : Drinking Water
(b) Grade/Variety/Type/Class/Size : N/A
(c) Brand Name if any : Drinking Water
(d) Declared Values if any : N/A
(e) Code No. : N/A
(f) Batch No. & Date of Manufacture : N/A, DOM = N.M., DOE = N/A
(g) Quantity : 5 Ltr. + 250 ml
(h) Mode of packing : Plastic Can. + Glass Bottle
(i) Date of Receipt of Sample : 29/03/2022
(j) Date of Sampling : 29/03/2022
(k) Mode of Collection of Sample : Sampling By Laboratories
(l) Sampling Location : Camp Area
(m) Sampling Team Idma : Idma Representative Team
(n) Any other information : N/A
(o) Date of Commencement of testing : 29/03/2022
(p) Date of Completion of testing : 04/04/2022

Client : Mr. P.Sudhakar

PART A: NOTES:

- N.B 1. This report, in full or in part, shall not be published, advertised, used for any legal action, without prior permission
2. This test report is ONLY FOR THE SAMPLE TESTED.

Booked By

Verification by
(Sample cell)



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Page No. 2/3

Ref. No. IL/D- 233

Date 06.04.22

ULR : TC820722700001794F

Report No. 290322L-FD-008/A

IS 10500: 2012, Amdt 1,2,3 & 4

Report Issued Date: 04/04/2022

PART B: SUPPLEMENTARY INFORMATIONS:

- a) Reference to sampling procedure, wherever applicable: IS: 3025-(P-1)-1987 & ILL/SOP/MB/034
b) Supporting documents for the measurements taken and results derived like graphs, tables, sketches and/or photographs as appropriate to test report, if any (to be attached): N/A
c) Deviation from the test methods, if any: NIL

PART C. TEST RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Method
				Acceptable limit	Permissible limit	
1	Chemical Testing (Water)					
2	Colour /Cl.4.0, Table -1-i)	Hazen	<1	Max 5	Max 15	IS:3025 (part4) ;1983, RA 2017
3	Odour /Cl.4.0, Table -1-ii)	-	Agreeable	Agreeable	Agreeable	IS:3025 (part5) :2018
4	pH value /Cl.4.0, Table -1-iii)	-	7.04	6.5 -8.5	No relaxation	IS:3025 (part11) ;1983, RA 2017
5	Taste /Cl.4.0, Table -1-iv)	-	Agreeable	Agreeable	Agreeable	IS:3025 (part 7 & 8) ;1984, RA 2017
6	Turbidity /Cl.4.0, Table -1-v)	NTU	<1	Max 1	Max 5	IS:3025 (part 10) ;1984, RA 2017
7	Total Dissolved Solids , Cl.4.0, Table -1-vi)	mg/l	155.45	Max 500	Max 2000	IS:3025 (part 16) ;1984, RA 2017
8	Aluminium (as Al), Cl.4.0, Table -2-i)	mg/l	BLQ (LOQ - 0.0005)	Max 0.03	Max 0.2	IS:3025 (part 55) ;2003, RA 2019
9	Boron (as B) , Cl.4.0, Table -2-v)	mg/l	BLQ(LOQ-0. 01)	Max 0.5	Max 2.4	IS:3025 (part 57) ;2005, RA2017
10	Calcium (as Ca) , Cl.4.0, Table -2-vi)	mg/l	36.72	Max 75	Max 200	IS:3025 (part 40) ;1991, RA 2019
11	Chloride (as Cl), Cl.4.0, Table -2-viii)	mg/l	29.32	Max 250	Max 1000	IS:3025 (part 32) , 1988, RA 2019
12	Copper (as Cu) , Cl.4.0, Table -2-ix)	mg/l	BLQ (LOQ - 0.0005)	Max 0.05	Max 1.5	IS:3025 (part 42) ; 1992, RA 2019
13	Free residual chlorine, Cl.4.0, Table -2-xi)	mg/l	0.23	Min 0.2	Max 1	IS:3025 (part 26);1986, RA 2019
14	Iron (as Fe) , Cl.4.0, Table -2-xii)	mg/l	0.046	Max 1.0	No relaxation	IS:3025 (part 53);2003 , RA2019
15	Magnesium (as Mg) , Cl.4.0, Table -2-xiii)	mg/l	11.18	Max 30	Max 100	IS:3025 (part 46), 1994, RA 2019
16	Manganese (as Mn) , Cl.4.0, Table -2-xiv)	mg/l	0.005	Max 0.1	Max 0.3	IS:3025 (part 59);2006, RA 2017
17	Selenium , (as Se) , Cl.4.0, Table -2-xviii)	mg/l	0.001	Max 0.01	No relaxation	IS:3025 (part 56);2003, RA 2019 or IS:15303
18	Silver (as Ag) , Cl.4.0, Table -2-xix)	mg/l	0.002	Max 0.1	No relaxation	Annex J of IS :13428 2005, RA 2014

Tested By

Subject
04/04/22

Reviewed by

(Signature)
(Signature)

Authorised signatory

(Signature)
(Signature)

Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172-5064827, 5064830

Website : www.idmagroup.co.in

E-mail : testing@idmagroup.co.in

E-mail : support@idmagroup.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)



MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Page No. 3/3

Ref. No. IL/D- 233

Date 06.04.22

ULR : TC820722700001794F

Report No. 290322L-FD-008/A

IS 10500: 2012, Amdt 1,2,3 & 4

Report Issued Date: 04/04/2022

PART B: SUPPLEMENTARY INFORMATIONS:

- a) Reference to sampling procedure, wherever applicable: IS: 3025-(P-1)-1987 & ILL/SOP/MB/034
- b) Supporting documents for the measurements taken and results derived like graphs, tables, sketches and/or photographs as appropriate to test report, if any (to be attached): N/A
- c) Deviation from the test methods, if any: NIL

PART C. TEST RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Method
				Acceptable limit	Permissible limit	
19	Sulphate , (as SO ₄), Cl.4.0, Table -2-xx)	mg/l	11.34	Max 200	Max 400	IS:3025 (part 24);1986, RA 2019
20	Total Alkalinity as calcium carbonate , Cl.4.0, Table -2-xxii)	mg/l	70.43	Max 200	Max 600	IS:3025 (part 23);1986, RA 2019
21	Total Hardness (as CaCO ₃), Cl.4.0, Table -2-xxiii)	mg/l	74.23	Max 200	Max 600	IS:3025 (part 21);2009, RA 2019
22	Zinc (as Zn), Cl.4.0, Table -2-xxiv)	mg/l	0.100	Max 5	Max 15	IS:3025 (part 49);1994, RA 2019
23	Cadmium(as Cd), Cl.4.0, Table -3-i)	mg/l	BLQ (LOQ - 0.0005)	Max 0.003	No relaxation	IS:3025 (part 41);1992, RA 2019
24	Cyanide (as CN), Cl.4.0, Table -3-ii)	mg/l	BLQ(LOQ-0.01)	Max 0.05	No relaxation	IS:3025 (part 27);1986, RA 2019
25	Mercury (as Hg), Cl.4.0, Table -3-iv)	mg/l	BLQ (LOQ - 0.0005)	Max 0.001	No relaxation	IS:3025 (part 48);1994, RA 2019
26	Nickel (as Ni), Cl.4.0, Table -3-vi)	mg/l	0.001	Max 0.02	No relaxation	IS:3025 (part 54);2003, RA 2019
27	Total arsenic (As) Cl.4.0, Table -3-x)	mg/l	0.001	Max 0.01	No relaxation	IS:3025 (part 37);1988, RA 2019
28	Total chromium (as Cr), Cl.4.0, Table -3-xii)	mg/l	BLQ (LOQ - 0.0005)	Max 0.05	No relaxation	IS:3025 (part 52);2003, RA 2019

PART D. REMARKS --

All Tested Parameters are within permissible limit as per IS: 10500-2012, So water is potable.

BLQ - Below The Limit Quantification; LOQ - Limit of Quantification.

End of Report

Tested By
Baljot
04/04/22

Q
07/04/22
(Ajay)

Reviewed by
(Signature)



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172-5064827, 5064830

Website : www.idmagroup.co.in

E-mail : testing@idmagroup.co.in

E-mail : support@idmagroup.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)

MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Page No. 1/2

Ref. No. IL/D- 233

Date 06.04.22

Issued To:

M/s.Megha Engineering & Infrastructures Limited
Megha Engineering & Infrastructures Limited
Rattle Hydroelectric project
Vill- Drabshalla, Distt.- Kishtwar
J&K

Test Report as per : IS 10500: 2012, Amdt 1,2,3 & 4

Report No.: 290322L-FD-008/B
(Job Card.No.)

Report Issued Date: 04/04/2022

Your reference: NIL

Reference Date : 29/03/2022

PART A. PARTICULARS OF SAMPLE SUBMITTED

- (a) Nature of Sample : Drinking Water
(b) Grade/Variety/Type/Class/Size : N/A
(c) Brand Name if any : Drinking Water
(d) Declared Values if any : N/A
(e) Code No. : N/A
(f) Batch No. & Date of Manufacture : N/A, DOM = N.M., DOE = N/A
(g) Quantity : 5 Ltr. + 250 ml
(h) Mode of packing : Plastic Can. + Glass Bottle
(i) Date of Receipt of Sample : 29/03/2022
(j) Date of Sampling : 29/03/2022
(k) Mode of Collection of Sample : Sampling By Laboratories
(l) Sampling Location : Camp Area
(m) Sampling Team Idma : Idma Representative Team
(n) Any other information : N/A
(o) Date of Commencement of testing : 29/03/2022
(p) Date of Completion of testing : 04/04/2022

Client : Mr. P.Sudhakar

PART A: NOTES:

- N.B 1. This report, in full or in part, shall not be published, advertised, used for any legal action, without prior permission
2. This test report is ONLY FOR THE SAMPLE TESTED.

Booked By

Verification by
(Sample cell)

Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula-134113, Haryana

Tel. No. : 0172-5064827, 5064830 Website : www.idmagroup.co.in

E-mail : testing@idmagroup.co.in E-mail : support@idmagroup.co.in

Turn Overleaf



Idma Laboratories Limited

(A Government Approved Test House)

MoEF & CC/BIS/FSSAI/State Pollution Control Boards/Drugs & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Page No. 2/2

Ref. No. IL/D- 233

Date 06.04.22

Report No. 290322L-FD-008/B

IS 10500: 2012, Amdt 1,2,3 & 4

Report Issued Date: 04/04/2022

PART B: SUPPLEMENTARY INFORMATIONS:

- a) Reference to sampling procedure, wherever applicable: IS: 3025-(P-1)-1987 & ILL/SOP/MB/034
b) Supporting documents for the measurements taken and results derived like graphs, tables, sketches and/or photographs as appropriate to test report, if any (to be attached): N/A
c) Deviation from the test methods, if any: NIL

PART C. TEST RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Method
				Acceptable limit	Permissible limit	
1	Fluoride (as F), Cl.4.0, Table -2-x)	mg/l	0.2	Max 1.0	Max 1.5	IS:3025 (part 60),2008, RA 2019
2	Biological Testing(Water)	-	-	-	-	-
3	Total Coliform bacteria, Cl.4.1.1, Table-6-(1)	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185:2016
4	E.coli, Cl.4.1.1, Table-6-(1)	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185:2016

PART D. REMARKS --

All Tested Parameters are within permissible limit as per IS: 10500-2012, So water is potable.

BLQ - Below The Limit Quantification; LOQ - Limit of Quantification.

End of Report

Tested By

Baljeet
04/04/22

Cuteka
04/04/2022

Reviewed by

Dr. Khan
04/04/22

Authorised Signatory

