

चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

एनएचपीसी लिमिटेड (भारत सरकार का एक उद्यम) और जेकेएसपीडीसी(जम्मू एवं कश्मीर सरकार का एक उद्यम) का एक संयुक्त उद्यम

Chenab Valley Power Projects Ltd.

A Joint Venture of NHPC Ltd. (A Govt. of India Enterprise) & JKSPDC (A Govt. of J & K Enterprise)

सीआईएन/CIN: U40105JK2011GOI003321

किरु जलविद्युत परियोजना

Kiru Hydroelectric Project

Chenab Nagar-II, Kishtwar (J&K)

फोन नं./Phone No: 01995-259505

Email: hopkuru@cvppindia.com

gmkkcvpp@gmail.com

CVPPPL/Kiru/GM(I/c)/2025/ 154

Dated: 30.05.2025

Deputy Inspector General of Forests,
MOEF&CC,
Sub-Regional Office, Jammu
Plot No. 379-A, Gandhi Nagar,
Jammu- 180004
E-mail : iro.jammu-mefcc@gov.in

Sub: Kiru HE Project (624 MW) in District Kishtwar, UT of J&K: Environment Clearance (EC) Compliance Report for the period from October 2024 to March 2025.

Ref: Environment Clearance granted to Kiru HE Project vide letter No. J-12011/32/2008-IA.1 dated 24.06.2016 & Corrigendum dated 29.07.2016.

Sir,

In reference to Environment Clearance accorded to 624MW Kiru Hydroelectric Project vide MoEF&CC communication No. J-12011/32/2008-IA.1 dated 24.06.2016 read with Corrigendum dated 29.07.2016, kindly find enclosed herewith the Environment Clearance (EC) Compliance Report, for the period from October 2024 to March 2025.

Thanking you,

Yours faithfully,

Ramesh
General Manager (I/c) & HOP
Kiru HE Project

Copy for kind information to:

1. Director, Impact Assessment Division-I,
Ministry of Environment, Forests & Climate Change,
Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj,
New Delhi- 110003,
email id: yogendra78@nic.in
2. Group General Manager (Planning), CVPPPL Corporate Office, Jammu.

KIRU HE PROJECT (624MW), DISTRICT KISHTWAR, JAMMU AND KASHMIR

Kiru Hydroelectric Project is a run-of-river scheme located in District Kishtwar, UT of Jammu & Kashmir. With installed capacity of 624 MW, the Project has been planned on river Chenab and envisages construction of 123 mtr high (above river bed level) Concrete Gravity Dam and an underground Power House to accommodate 4 units of 156 MW each.

1. Status of Clearances:

Clearance	Status
Techno-Economic Appraisal by CEA	TEA accorded by CEA vide letter no. 2/NHPC/54/CEA/2006-PAC/652-86 dated 13.06.2016.
Forest Clearance (by J&K State Govt.)	Forest Clearance has been accorded by Govt. of J&K on 19.05.2016 for diversion of 82.05 Ha Forest land.
Environment Clearance	Accorded by MoEF&CC vide letter No. J-12011/32/2008-IA-1 dated 24.06.2016.
Indus Water Clearance	IWT clearance has been accorded by MoWR (RD&GR), Indus Wing on 24.10.2016.
PIB/CCEA Clearance	Investment Approval for construction of 624MW Kiru Hydro-Electric Project was conveyed by MOP vide letter dated 08.03.2019.
R&R Plan Approval	R&R Plan of the Project has been approved by Govt. of Jammu and Kashmir vide Order No. 11-DMRR&R of 2019 dated 07.03.2019.

2. Status of construction activities

All the three packages for major construction works of Kiru HE Project have been awarded and the construction activities have commenced in Sept 2020, as detailed below:

Civil Works Package (Lot I) : Awarded to M/s Patel Engineering Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 15.06.2020. Construction activities related to major Civil Components viz. Dam concrete works, Power Intake concrete works, Power House concrete works, Transformer Hall concrete works and TRT works are under progress.

Hydro-Mechanical Package (Lot II) : Awarded to M/s PES Engineers Pvt. Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 11.06.2020. Erection of steel liner in the glacis portion of dam blocks is in progress and erection of Pressure Shaft Steel liners in Pressure shafts is in progress. Further, manufacturing and supply of balance components are in progress.

Electro-Mechanical Package (Lot III) : Awarded to M/s Andritz Hydro Pvt. Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 22.06.2020. Manufacturing and Supply of various components at site is in progress. E&M works have been taken up by the contractor and presently draft tube erection works have been completed in Unit # 1, 2 and 3 in Power House.

3. Status of Land Acquisition

Final Award for acquisition of land measuring 1750 Kanal 17 Marla (87.5425 Ha) for construction of the Project was issued by Collector, Land Acquisition, Kishtwar on 01.07.2017 and the Supplementary Award for Trees and Structures involved therein was issued on 11.06.2019. An amount of Rs 32.47 Crore (Rs. 26.94 Crore for land + Rs. 5.53 Crore for trees and structures) was deposited with Collector, Land acquisition, Kishtwar for disbursement to land owners. Full compensation amount stands disbursed to rightful land owners and utilization certificate to this effect has been issued by Collector Land Acquisition.

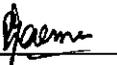
4. Status of R&R Plan Implementation

R&R Plan was approved by GoJK vide Government Order No. 11-DMRR&R of 2019 dated 07.03.2019 for a total amount of Rs. 99.56 Crore. An amount of Rs. 55.00 Crore has been deposited so far with the Office of Commissioner R&R out of which an amount of Rs. 50.59 Crore has so far been utilised for implementation of approved R&R Plan (i.e. Rs. 35.04 Crs disbursed to PAFs and Rs. 15.54 Crs utilized for infrastructure development works). Further, implementation of approved R&R Plan is under progress.

5. Status of Infrastructure works

1. Roads to major structures like Dam, Power House, TRT have been completed.
2. Widening and strengthening of main access road to project site has been completed.
3. Construction of temporary residential infrastructure at project site has been completed.
4. Construction of temporary office building at project site has been completed.
5. Work related to providing Construction Power has been completed through J&K Power Development Department as deposit work.
6. Laying of LT Distribution Network has been completed and Project site Offices and residential buildings have been connected to Grid Power.
7. Construction work of water supply for temporary field hostels and offices has been completed.
8. Construction of two bridges (through BRO as deposit work) has been completed to facilitate the construction of the project.
9. 70R steel truss bridge connecting right bank has been completed.

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ANNEXURE-I**KIRU HE PROJECT (624MW), DISTRICT KISHTWAR, JAMMU AND KASHMIR****SIX MONTHLY ENVIRONMENT CLEARANCE COMPLIANCE REPORT**

(for the period from October 2024 to March 2025)

1	Name of Project	Kiru Hydro-Electric Project (624 MW)																														
2	Type of Project	Hydro-Electric Project																														
3	Clearance letters OM No. & date (a) Environment Clearance (b) Forest Clearance	(a) Letter No. J-12011/32/2008-IA.1 dated 24.06.2016 & Corrigendum dated 29.07.2016. (b) Order No. 143-FST of 2016 dated 19.05.2016 of Govt. of Jammu and Kashmir (for 82.05 Ha land)																														
4	Locations (a) District (s) (b) State (c) Latitude (d) Longitude	(a) Kishtwar (b) Jammu and Kashmir (c) 33°20'37"N (d) 75°57'34"E																														
5	Address for Correspondence (a) Address of concerned Project Head (with Pin code, Telephone/Fax no.) (b) Address of concerned HOD in Corporate Office (with Pin code, Telephone/Fax no.)	(a) General Manager (I/c) & HoP Kiru HE Project, Chenab Valley Power Projects Ltd., Chenab Nagar-II, District Kishtwar, UT Jammu and Kashmir Pin code- 182 206 Telephone: - 01995-259505 email : gmkkcvpp@gmail.com, hopkiru@cvppindia.com (b) Managing Director, Chenab Valley Power Projects Ltd., Chenab Jal Shakti Bhavan, Opposite Saraswati Dham, Rail Head Complex, Jammu (UT J&K); Pin code 180 012 Phone/ Fax: 0191 2479826/ 2479835																														
6	Details of Environmental Management Plan	Environmental Management Plans to be implemented at the Project are: <table border="1"> <thead> <tr> <th>S.No.</th> <th>EMP</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Biodiversity Conservation & Management Plan</td></tr> <tr><td>2.</td><td>Catchment Area Treatment Plan</td></tr> <tr><td>3.</td><td>Fisheries Development 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 Plan</td></tr> <tr><td>9.</td><td>Air & Water 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> <tr><td>13.</td><td>Environmental Monitoring Programme</td></tr> <tr><td>14.</td><td>Disaster Management Plan</td></tr> </tbody> </table>	S.No.	EMP	1.	Biodiversity Conservation & Management Plan	2.	Catchment Area Treatment Plan	3.	Fisheries Development Plan	4.	Solid Waste Management Plan	5.	Public Health Delivery System	6.	Energy Conservation Measures	7.	Muck Disposal Plan	8.	Landscaping & restoration Plan	9.	Air & Water Management Plan	10.	Reservoir Rim treatment Plan	11.	Compensatory Afforestation plan	12.	Rehabilitation & Resettlement Plan	13.	Environmental Monitoring Programme	14.	Disaster Management Plan
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7	Breakup for Project area (Land details)	Forest Land: 82.05 ha Private Land: 36.93 ha State Land: 50.61 ha River Bed land (State land): 61.00 ha Total Land: 230.59 ha																																														
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	No of affected villages : 03 Displaced PAFs : 93 Non Displaced PAFs : 66 Total PAFs : 159 (a) Scheduled Tribe : 140 families PAF details as per title verification by Revenue Department for final disbursement of compensation and R&R benefits: Displaced PAFs : 92 Non Displaced PAFs : 59 Total PAFs : 151 Scheduled Tribe : 69 families																																														
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 (c) Allocation made for Environment Management Plan (d) Actual expenditure incurred on EMP so far	TEA approved cost :Rs. 4640.88 Cr (Sept 2014 PL) CCEA approved cost :Rs. 4287.59 Cr (July 2018 PL) Actual expenditure: Rs. 2434.56 Crore (till March 2025) Allocations for EMP: Rs. 162.43 Crore (as approved by MoEF&CC) Actual expenditure incurred on EMP (till March 2025): <table border="1" data-bbox="735 1077 1406 1787"> <thead> <tr> <th>S.No.</th> <th>Component</th> <th>Expenditure (Rs. in Lacs)</th> </tr> </thead> <tbody> <tr> <td rowspan="2">i.</td> <td>Payment released on account of Forest Clearance (including Rs. 114.87 Lac on account of Compensatory Afforestation Plan)</td> <td>944.63</td> </tr> <tr> <td>Payment released towards extraction of Forest Trees</td> <td>52.99</td> </tr> <tr> <td rowspan="2">ii.</td> <td>Implementation of R&R Plan (deposited with Commissioner R&R)</td> <td>5500.00</td> </tr> <tr> <td>Skill Mapping and formulation of Skill Development Plan</td> <td>4.06</td> </tr> <tr> <td>iii.</td> <td>Fisheries Development Plan</td> <td>798.59</td> </tr> <tr> <td>iv.</td> <td>Biodiversity Management Plan (payment released on 25.11.2024)</td> <td>139.80</td> </tr> <tr> <td>v.</td> <td>Catchment Area Treatment Plan (payment released into CAMPA Fund on 26.03.2025)</td> <td>1883.27</td> </tr> <tr> <td>vi.</td> <td>Landscaping & Restoration Plan</td> <td>0.464</td> </tr> <tr> <td>vii.</td> <td>Public Health Delivery System*</td> <td>376.70</td> </tr> <tr> <td>viii.</td> <td>Energy Conservation Measures*</td> <td>915.52</td> </tr> <tr> <td>ix.</td> <td>Muck Disposal Plan</td> <td>373.77</td> </tr> <tr> <td>x.</td> <td>Air & Water Management Plan* #</td> <td>15.68</td> </tr> <tr> <td>xi.</td> <td>Solid Waste Management Plan*</td> <td>329.68</td> </tr> <tr> <td>xii.</td> <td>Disaster Management Plan</td> <td>42.353</td> </tr> <tr> <td colspan="2" style="text-align: center;">Total</td> <td>11377.507</td> </tr> </tbody> </table> <p>* Includes the expenditure incurred by Contractor as per the Contract Agreement. # Reflects only the expenditure on air, water and noise quality monitoring and does not include the expenditure of Rs. 378.46 Lac incurred by contractor under contract provisions for dust suppression measures in project area.</p>	S.No.	Component	Expenditure (Rs. in Lacs)	i.	Payment released on account of Forest Clearance (including Rs. 114.87 Lac on account of Compensatory Afforestation Plan)	944.63	Payment released towards extraction of Forest Trees	52.99	ii.	Implementation of R&R Plan (deposited with Commissioner R&R)	5500.00	Skill Mapping and formulation of Skill Development Plan	4.06	iii.	Fisheries Development Plan	798.59	iv.	Biodiversity Management Plan (payment released on 25.11.2024)	139.80	v.	Catchment Area Treatment Plan (payment released into CAMPA Fund on 26.03.2025)	1883.27	vi.	Landscaping & Restoration Plan	0.464	vii.	Public Health Delivery System*	376.70	viii.	Energy Conservation Measures*	915.52	ix.	Muck Disposal Plan	373.77	x.	Air & Water Management Plan* #	15.68	xi.	Solid Waste Management Plan*	329.68	xii.	Disaster Management Plan	42.353	Total		11377.507
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10	<p>Forest Land Requirements</p> <p>(a) Status of approval diversion of Forest Land for non-forestry use</p> <p>(b) The status of clear felling of trees in Forest Land</p>	<p>(a) Forest clearance for diversion of 82.05 Ha forest land accorded by Govt. of Jammu and Kashmir vide Order No. 143- FST of 2016 dated 19.05.2016.</p> <p>(b) Clear felling status: - Tree felling at work sites has been completed by J&K Forest Corporation. The diverted forest land has been taken over from Forest Department on 14.03.2018.</p>
11	<p>Status of Construction</p> <p>(a) Date of commencement (actual and/or planned)</p> <p>(b) Date of completion (actual and/or planned)</p>	<p>(a) Date of commencement of major works of the Project : 24.02.2020.</p> <p>(b) Date of completion: September 2026.</p>
12	Reasons for the delay (If the Project is yet to be started)	After Investment approval from GOI in March 2019, the major Project works have been awarded in February 2020 and the construction activities are in progress.
13	<p>Details of Site visits</p> <p>(a) By Monitoring Committee</p> <p>(b) By Regional Office</p>	<p>Nil</p> <p>Site visit conducted by Deputy Director, Sub Regional Office, Jammu on 11.05.2024. Monitoring Report dated 06.09.2024 was forwarded by Sub Regional Office to MoEF&CC and thereafter a Show Cause Notice dated 24.10.2024 was issued by MoEF&CC.</p> <p>Point-wise reply to Show Cause Notice stands submitted to MoEF&CC vide letter dated 22.11.2024.</p>
14.	Brief note on the status of compliance of the conditions stipulated by MOEF&CC	Details are enclosed as Annexure-II .

ANNEXURE-II

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

(Environment Clearance letter No. J-12011/32/2008-IA-1 dated 24.06.2016 and Corrigendum to EC dated 29.07.2016)

S.No.	Conditions	Compliance Status
	Specific conditions	
i	The Catchment Area Treatment Plan (CAT) as has been proposed in the EMP shall be strictly implemented in consultation with the J&K State Forest Department. Major works of CAT shall be completed before impounding of reservoir. The CAT plan will be implemented in 5 years. Financial allocation of Rs. 1883.82 lakhs for CAT plan implementation shall be fully utilized and the same shall not be diverted for any other purpose. As per CAT plan, the area of CAT is 1849.28 ha.	<p>The CAT Plan was got revised (through a NABET accredited consultant) in consultation with Forest Department and Soil & Water Conservation Department, as per the instructions of PCCF (HoFF), J&K Forest Department and the same was submitted to J&K Forest Department for approval of the competent authority on 04.09.2024.</p> <p>The revised CAT Plan was approved by PCCF (HoFF), J&K Forest Department vide Approval Letter dated 23.01.2025.</p> <p>Requisition for deposition of approved amount of Rs. 1883.27443 lacs was received vide DFO Kishtwar letter dated 21.03.2025.</p> <p>The requisitioned funds stand deposited into CAMPA Account on 26.03.2025 (Annexure-II-a). The utilization status is awaited. However, as per available information the implementation of CAT Plan shall commence in the current FY (2025-26).</p>
ii	R&R benefits for the land losing households will be as per NRRP-2007 & J&K state Govt. Adequate publicity of the compensation package should be circulated in the affected villages. However, this is to be compared with the state Rehabilitation and Resettlement policy, and the more beneficial policy is to be adopted for the PAF's. All R&R issues shall be completed before commissioning of the project.	<p>Being Complied</p> <p>The R&R plan of Kiru HE Project was approved by Govt. of J&K vide order dated 07.03.2019 upon the recommendation of Empowered Committee. The Deputy Commissioner, Kishtwar was also appointed as Commissioner R&R for implementation of the approved plan vide the same Govt. Order.</p> <p>The R&R Plan, as approved by GoJK, is being implemented by the Commissioner R&R appointed by GoJK.</p> <p>Approved cost of R&R plan is Rs. 99.5622 Crore including the cost of Rs. 28.87 Crore towards infrastructure development component, Rs. 17.48 Crore towards skill development component and Rs. 2.50 Crore towards monitoring and evaluation.</p> <p>An amount of Rs. 55.00 Crore stands deposited with Commissioner R&R (upon requisition from Commissioner R&R) for implementation of the approved plan. Out of this, an amount of Rs. 50.59 Crore has been utilized for R&R Plan implementation by the office of Commissioner R&R (i.e. Rs. 35.0441 Crore disbursed to eligible PAFs and Rs. 15.5486 Crore utilized for infrastructure development).</p> <p>Latest utilization certificate to this effect has also been received from Commissioner R&R/Deputy Commissioner Kishtwar (Annexure-II-b).</p>

S.No.	Conditions	Compliance Status
iii	Implementation of R&R plan shall have to be closely monitored by the state authority and is to be ensured that all PAF's shall get adequate & timely compensation.	<p>GoJK constituted the Empowered Committee under the chairmanship of Chief Secretary, GoJK for finalization, monitoring and implementation of R&R Plan of Kiru HE Project vide G.O. No. 1088-GAD of 2017 dated 24.08.2017.</p> <p>The implementation of R&R Plan is also being monitored by Disaster Management, Relief, Rehabilitation and Resettlement Department, GoJK.</p> <p>Further, Deputy Commissioner, Kishtwar has been appointed as the Commissioner R&R for implementation of R&R Plan.</p> <p>The implementation of R&R Plan is being reviewed from time to time by DMRR&R Department as well as by the Chief Secretary GoJK and the Empowered Committee so as to expedite the implementation of approved R&R Plan.</p> <p>Latest Minutes of the Meetings convened by Principal Secretary DMRR&R Department, Chief Secretary GoJK and Empowered Committee Meeting are attached as Annexure-II-c.</p> <p>As informed by Commissioner R&R, the admissible individual R&R benefits stand disbursed to the eligible PAFs. The Utilization Certificate received from Commissioner R&R is attached above as Annexure-II-b.</p>
iv	A Monitoring Committee for R&R should be constituted which shall include representatives of project affected persons from SC/ST category and a woman beneficiary.	<p>The constitution of Monitoring Committee for R&R was approved by the Empowered Committee in its meeting held under the Chairmanship of Chief Secretary, J&K on 06.04.2018.</p> <p>The Committee shall include apart from the Officers of the State Govt. as one of its members:</p> <ol style="list-style-type: none"> 1. A representative of a woman residing in the area, 2. A representative each of SC & ST residing in the area, 3. A representative of a voluntary organization, 4. A representative of the lead bank, 5. Chairperson(s) of the Panchayats and municipalities located in the affected area, or their nominee(s), 6. Members of Parliament and members of Legislative Assembly of the area included in the affected area, 7. The land acquisition officer of the Project, and 8. A representative of the requiring body. <p>Formal Govt. Order for constitution of the Committee is awaited.</p>

S.No.	Conditions	Compliance Status
v	All the commitments made during the public hearing should be fulfilled completely by project proponent and record maintained.	<p style="text-align: center;">Being Complied</p> <p>R&R Plan was formulated by District Administration after consultations with all stake holders and duly considering the aspirations and demands of local people and as such the approved R&R Plan includes a provision of Rs. 28.87 Crore earmarked for development of infrastructure and social & community development activities in the local area. Accordingly, the Local Area Development Plan was formulated by DC Kishtwar (i.e. Commissioner R&R) in consultation with all stakeholders and the same was subsequently approved by the Empowered Committee.</p> <p>All the works (21 nos.) under Infrastructure development component for total amount of Rs. 2887.00 lacs have been approved by the Empowered Committee, out of which 12 projects costing 1333.64 lacs have been completed and remaining works are under different stages of execution. Against, total approved cost of Rs. 2887.00 lacs an amount of Rs. 1554.86 lacs has so far been utilized.</p> <p>The latest utilization certificate to this effect has also been issued by Commissioner R&R / Deputy Commissioner Kishtwar (attached above as Annexure-II-b).</p>
vi	A minimum environmental flow of 16.33 cumec (20%) during lean season (December to March), 73.37 cumec (10%) during monsoon season (June to September) and 16.62 cumec (10%) during remaining four months (October – November & April – May) shall have to be maintained. Continuous monitoring system for the flow measurement shall be installed and data be displayed at appropriate site for civil society and stake holders. Six monthly results shall be submitted to the Regional office of the Ministry.	<p style="text-align: center;">Shall be complied</p> <p>The release of e-flows specified in the EC letter for different seasons post project commissioning shall be fully complied.</p> <p>Continuous monitoring system for flow measurement shall be installed and further, six monthly results/ data shall be submitted to Regional Office of the Ministry.</p>
vii	Dumping and consolidation/compaction of the muck shall be carried-out in the designated muck dumping sites as submitted in the EIA/EMP report. As per the proposed muck disposal plan given in EMP, out of the 25.78 lakh cubic meter of muck to be generated, 8.36 lakh cubic meter will be utilized for construction purpose and remaining 17.42 lakh cubic meter will be dumped at four designated disposal sites in an allocated area of 28.22 ha. The dumping sites shall be more than 30m away from the HFL of the river & the toe walls for muck disposal sites shall be constructed at least 30m away from HFL of river. Allocated grant of Rs. 1697.57 lakhs shall be fully utilized and not to be diverted for	<p style="text-align: center;">Being complied</p> <p>The suitable portion of excavated muck is being utilized by the Contractor in the construction activities as proposed in the EMP. Part of excavated muck is also being utilized in the construction of retaining structures, approach roads, job facility areas, etc.</p> <p>The disposal of unusable muck at designated muck dumping sites is being carried out as per the Muck Disposal Plan.</p> <p>The dumping sites have been protected by providing adequate protection walls to avoid spillage of muck.</p>

S.No.	Conditions	Compliance Status
	any other purpose.	
viii	Proposed Compensatory Afforestation Programme in 164.10 ha of degraded forest area shall be undertaken in consultation with State Forest Department. Allocated grant of Rs. 1036 lakh shall be fully utilized and not to be diverted for any other purpose.	<p>Complied</p> <p>An amount of Rs 9.446 Crore was deposited with J&K Forest Department for diversion of 82.05 Ha of Forest land including Rs. 1.1487 Crore towards Compensatory Afforestation.</p> <p>The Compensatory Afforestation works stand completed by the Forest Department in the year 2021-22 and utilization certificate to this effect has also been provided by DFO Kishtwar.</p>
ix	To enhance the quality of environment of project site, green belt, as proposed in EMP report, shall be developed. The proposed green belt along the project appurtenances shall be undertaken in consultation with State Forest Department. The allocated budget of Rs 28.78 lakhs shall be fully utilized for this purpose and not to be diverted for any other purpose.	<p>Shall be complied</p> <p>Presently the project construction works are in full swing and sites/locations are not available for green belt development.</p> <p>The green belt development works shall be undertaken in consultation with J&K Forest Department as per site availability.</p>
x	Proposed Biodiversity Conservation & Management plan as outlined in the EMP shall be implemented with State Forest Department. The allocated budget of Rs. 139.80 lakhs for this purpose shall be fully utilized and shall not be diverted for any other purpose.	<p>Being Complied</p> <p>The matter remained under continuous follow up with J&K Forest Department since commencement of project execution.</p> <p>The demand of funds for implementation of Biodiversity Conservation and Management Plan was received from DFO Kishtwar vide letter dated 15.10.2024. The full amount of Rs. 139.80 lacs has been deposited into CAMPA Account on 25.11.2024. Further, DFO Kishtwar was requested to provide the status of implementation with physical and financial progress vide letter dated 05.04.2025. However, the status is yet to be received. Relevant documents attached as Annexure-II-d.</p> <p>As per available information, the implementation of Plan shall start in the current financial year (year 2025-26).</p>
	Proposed Reservoir Rim Treatment Plan with both biological and engineering measures shall be implemented strictly. Allocated amount of Rs. 620.17 lakhs should be fully utilized and shall not be diverted for any other purpose.	Shall be complied
xi	The Fisheries Development Plan as proposed in the EMP shall be implemented completely in consultation with the State Fisheries Department. As proposed, a fish hatchery shall be developed in 2 ha of area for development of fingerlings for stocking of reservoir and river. The budget of Rs. 798.59 lakhs provided for fisheries development plan	<p>Being Complied</p> <p>Fisheries Department has planned to set up a joint fish farm for Kiru, Kwar and Kirthai-II HE Projects at village Kijai near Gulabgarh.</p> <p>Demand of funds for implementation of Fisheries Development Plan was received from J&K Fisheries Department vide letter dated 31.05.2024,</p>

S.No.	Conditions	Compliance Status
	should be fully utilized for this purpose and shall not be diverted for any other purpose.	<p>in pursuance to which the full amount of Rs. 798.59 lacs stands released in favour of J&K Fisheries Department on 22.07.2024.</p> <p>Fisheries Department was requested to provide the status of implementation with physical and financial progress vide letter dated 05.04.2025.</p> <p>In response, the status of implementation received from J&K Fisheries Department vide letter dated 29.05.2025 provides that an amount of Rs. 274 lacs has been released by Fisheries Department in favour of concerned Collector Land Acquisition for disbursement of land compensation to rightful owners and that the DPR is under preparation. (Annexure-II-e).</p>
xi(a)	The total project cost is Rs. 4640.88 crores and EMP budget is Rs 147.32 crores is about 3.2%. The overall EMP budget should be raised to 3.5% (i.e 162.43 crores) of the project cost.	<p>Complied</p> <p>MoEF&CC itself increased the EMP budget from Rs. 147.32 Crores to Rs. 162.43 Crores by provisioning additional amount of Rs. 15.1073 Crores for Skill Mapping and Development Plan (as per the minutes of 91st meeting of EAC).</p>
xii	As mentioned in EIA, 15 coldwater fish species have been identified in the river stretches including 2 exotic species, therefore, e- flow to be maintained for the downstream river depth, wetter perimeter, water quality and minimize fluctuation in ambient temperature during extreme conditions.	<p>Shall be complied</p> <p>The stipulated seasonal e-flows, as specified in the EC letter shall be maintained during Project operation.</p>
xiii	To maintain flourishing fish population/communities in the river, the river must witness all seasonal changes including low flow levels during lean season to maximum during monsoon/floods/high rains.	<p>Shall be complied with release of the stipulated e-flows during Project operation.</p>
xiv	Skill mapping of the area to be conducted, mentioning the skills inherent of the local people, skill requirement of the project and the best ways to develop the skills in the local people so that the locals can be employed in the project.	<p>Being complied</p> <p>Skill mapping of the Project Affected Families was carried out and accordingly, the Skill Development Plan was got formulated through consultant. The report on Skill Mapping and Development Plan was submitted to Commissioner R&R, Kiru HEP (Deputy Commissioner, Kishtwar) on 28.09.2019 for further action in the matter. The said Report was forwarded by Deputy Commissioner, Kishtwar to Divisional Commissioner, Jammu vide letter No. DCK/LA/2019/355-59 dated 10.02.2020 for further approval from Government.</p> <p>A series of meetings for the implementation of Skill Mapping and Development Plan have been held by GoJK at the highest level for re-formulation and implementation of Skill Development Plan of all CVPPL Projects including Kiru HE Project. As per the recommendations of Principal Secretary DMRR, GoJK, a Project Management Unit has been constituted under the chairmanship of Dy. Commissioner Kishtwar including CVPPL Project</p>

S.No.	Conditions	Compliance Status
		<p>Heads and other J&K Departments for formulation and management of Skill Development Components of all the CVPPL Projects. In addition to that a granular level Nodal Team has also been constituted under the Chairmanship of Dy. Commissioner Kishtwar including a project representative, Chief Planning Officer, Kishtwar and Principal ITI Kishtwar for carrying out Skill Mapping and implementation of Skill Development Plan of the respective projects (Annexure -II-f)</p> <p>A fresh survey has been got conducted by the Commissioner R&R for Skill Mapping of the PAFs in May 2025 and the implementation of skill development plan has been started accordingly. The details are provided above as Annexure-II-b.</p>
xv	Use of 82.05 ha of forest land for construction of Kiru HEP by CVPP has been granted by Govt. of J&K vide no. 143-FST of 2016 dated 19.05.2016. The project proponent shall adhere to terms and conditions of this Government order strictly.	Conditions stipulated in Forest Clearance letter are being complied.
xvi	Any other clearances required from any other concerned authorities should be obtained before commencement of works and commissioning of the project, as applicable.	Being complied
General Conditions		
i	Adequate arrangements for ensuring availability of fuel like kerosene/LPG shall be provided at the project cost for the labourers to be engaged during construction work so that Indiscriminate felling of trees is prevented. The energy conservation measures as provided in EMP shall be fully implemented.	<p>Being complied</p> <p>The provision is included in the contract agreement and is being implemented accordingly. Common mess facilities have been established by the Contractor for the labourers wherein LPG is being used as fuel.</p> <p>Further, the major Contractor is providing free fuel (LPG) in the common mess facilities to prevent any use of fire wood. The energy conservation measures as provided in the EMP are being implemented.</p>
ii	Medical facilities as well as recreational facilities shall also be provided to the labourers.	<p>Being complied</p> <p>Four dispensaries (one by PP and three by Contractor) have been established in the residential and work areas. One doctor with paramedical staff are available for proper healthcare of workers and staff. Further, three ambulances (one by PP and two by Contractor) are also available round the clock at project site.</p> <p>Recreational facilities viz. Indoor recreation rooms with TV, carrom and chess facilities, Televisions in Common Mess Halls and outdoor game facilities with volleyball court have been provided by the major works contractor at project site.</p>

S.No.	Conditions	Compliance Status
iii	The labourers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit. Periodic health checkup during construction period may also be taken up.	Being complied Thorough checkup of the labourers is being done by the Contractor before engaging them in the project construction work. Periodic health checkup of the labourers engaged for the major construction work is also being done by the Contractor at project site.
iv	Water sprinkling arrangements shall be made to suppress fugitive emissions/ dust.	Being complied The same has been included in the contract agreement and is being complied by the Contractor. The arrangements for sprinkling of water to control dust emission are in place. Adequate number of water tankers have been deployed by Contractor for regular water sprinkling in project area and on project roads.
v	Potable drinking water and proper sanitary facilities shall be provided for the labour force. Also, proper disposal facilities for solid waste are to be ensured.	Being complied The same has been included in the contract agreement and is being complied by the Contractor. Potable drinking water and sanitation facilities are in place. Disposal of organic waste is being done through composting. Paper and plastic waste is being managed through recycling. Sufficient number of waste bins have been provided at several locations in residential areas, office areas and project area for collection and segregation of solid waste. The organic waste (primarily food waste from common mess facilities) is being managed through composting. The paper/plastic /metal waste is being recycled by the contractor through scrap dealers.
vi	Restoration of construction area including muck dumping sites shall be ensured by leveling, filling up of borrow pits, landscaping, etc. The area should be properly planted to develop good greenery in the area.	Shall be complied
vii	Environmental parameters shall be monitored and "Six monthly monitoring reports" shall be submitted to the Ministry of Environment, Forest & Climate change, New Delhi including its Regional office for their review.	Being complied The sampling & monitoring of environmental quality parameters at Project sites for Ambient Air quality, Water quality and Noise levels is being carried out through laboratory accredited by J&K Pollution Control Committee for SMR. The latest monitoring reports of environmental quality parameters are enclosed herewith as Annexure-III .
viii	Solid waste management & sanitation facility will have to be provided for the labour force.	Being complied The same has been included in the contract agreement and is being complied by the Contractor. Adequate arrangements for sanitation and solid waste management are in place. Sufficient number of waste bins have been provided at several locations in residential areas, office areas and project area for collection and segregation of solid waste. The organic waste

S.No.	Conditions	Compliance Status
		(primarily food waste from common mess facilities) is being managed through composting. The paper/plastic waste/metal waste is being recycled by the contractor through scrap dealers.
ix	Disaster management plan as provided in EMP shall be implemented in consultation with the District Authorities and early warning system shall be installed.	<p>Being Complied</p> <p>The DMP approved as part of EMP is linked with commissioning of the project as the same has been formulated and approved by MOEF&CC considering the dam breach scenario. The same shall be implemented prior to commissioning of the project in consultation with District Disaster Management Authority and in consonance with the District Disaster Management Plan.</p> <p>However, as an advance measure, three Early Flood Warning Systems have been installed upstream of Kiru HE Project as detailed below:</p> <p>One Early Flood Warning System had earlier been installed at Village Layee in Gulabgarh, Padder (about 20Km upstream of Kiru Dam Axis).</p> <p>Subsequently, two more Early Flood Warning Systems have been installed upstream of Kiru HE Project at village Gulabgarh, Padder (on river Chenab about 29Km upstream of Kiru Dam Axis) and at village Massu, Padder (on Bhut Nallah about 33Km upstream of Kiru Dam Axis).</p> <p>Rest of the measures shall be finalised and implemented as per latest NDMA guidelines and in consultation with DDMA, coinciding with advancement in project construction/ commissioning.</p>
x	An Environmental Management Cell (EMC) shall be constituted at the project level with sufficient manpower. The head of the EMC shall report directly to the head of the project for speedy implementation of EMP & related issues.	<p>Complied</p> <p>EMC has been constituted on 25.05.2018.</p>
Other Conditions mentioned in the EC Letter		
5.	The project proponent shall provide full cooperation and provide all requisite documents/data to the officials from concerned Regional Office of the Ministry who would be monitoring the implementation of environmental safeguards and to undertake inspection.	Being complied
7.	Besides the above stated conditions, the project proponent shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time.	Being complied

S.No.	Conditions	Compliance Status
8.	The EMP shall be strictly adhered to and a sum of Rs. 162.43 Crores, the budgetary provisions for the implementation of EMP, shall be fully utilized and shall not be diverted for any other purpose.	Being complied
9.	In case of change in the scope of the Project, the same may be intimated to the Ministry and a fresh approval, if required, shall be taken from the Ministry.	Shall be complied (in case of requirement)
12.	A copy of clearance letter shall be marked to concerned anchayat/Zila Parishad/Municipal Corporation, Urban Local Body and local NGO, if any, from whom any suggestion/representations were received while processing the proposal.	Complied
14.	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of the clearance letters are available with State Pollution Control Board/Committee and may also be seen at website of Ministry of Environment, Forest & Climate Change at http://www.moef.nic.in .	Complied. Advertisement was published in two newspapers viz: 1. Daily Excelsior (English) dated 30.06.2016 and 2. Daily Udaan (Urdu) dated 30.06.2016.
15.	The project proponent shall also submit six monthly reports on the status of compliance of stipulated EC conditions including the results of monitored data (both in hard copies as well as by e-mail) to respective Regional Office of MoEF&CC.	Being Complied. Six monthly reports regarding compliance of the EC conditions are being timely submitted.
16.	After five years of commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and over the downstream ecology of the project. The study shall be undertaken by independent agency to be decided in consultation with the Ministry.	Shall be complied
17.	A Multi Disciplinary Committee for monitoring the implementation of environmental safeguards during construction shall be constituted by the project proponent in consultation with the MoEF&CC, New Delhi within six weeks of the issue of the EC letter. The committee shall meet every six month to review the status of implementation of EC conditions in general and monitoring of E-flow and stability and effectiveness of muck dumping sites in particular.	Being Complied Constitution of MDMC was approved by MoEF&CC vide letter dated 09.07.2018 with amendment dated 02.05.2019. MDMC members were requested vide letters dated 07.03.2020 and 11.05.2021 for scheduling the meeting of the Committee. However, the meeting is yet to be convened.

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चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

एनएचपीसी लिमिटेड (भारत सरकार का एक उद्यम) और जेकेएसपीडीसी(जम्मू एवं कश्मीर सरकार का एक उद्यम) का एक संयुक्त उद्यम

Chenab Valley Power Projects Ltd.

A Joint Venture of NHPC Ltd. (A Govt. of India Enterprise) & JKSPDC (A Govt. of J & K Enterprise)

सीआईएन/CIN: U40105JK2011GOI003321

किरु जलविद्युत परियोजना
Kiru Hydroelectric Project
Chenab Nagar-II, Kishtwar(J&K)
फोन नं./Phone No:01995-259505
Email: hopkiru@cvppindia.com
gmkkcvpp@gmail.com

CVPPPL/Kiru/GM(I/c)/2025/ 1007

Dated: 28.03.2025

Divisional Forest Officer,
Kishtwar Forest Division,
Distt. Kishtwar (J&K).
Email: dfokishtwar1@gmail.com

Sub: Catchment Area Treatment (CAT) Plan of Kiru HE Project – Transfer of Funds regarding.

Ref: Letter No. KFD/2024-25/Gen/4863-67 dated 21.03.2025.

Sir,

Kindly refer to above cited communication vide which the requisition of funds and bank account details for deposition of funds were provided for implementation of Catchment Area Treatment (CAT) Plan of Kiru HE Project (624MW).

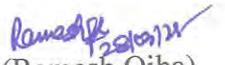
In pursuance to aforementioned communications, the requisitioned amount of **Rs. 18,83,27,443/-** has been transferred into the CAMPA Account on 26.03.2025 vide NEFT UTR Nos. SBIN125085849908 and SBIN125085847378 as per following details:

Date of Transfer of Funds	NEFT UTR No.	Amount Transferred (Rs.)
26.03.2025	SBIN125085849908	10,00,00,000.00
26.03.2025	SBIN125085847378	8,83,27,443.00

In this regard, it is requested that further action for implementation of the approved CAT Plan of Kiru HE Project may kindly be initiated.

Thanking you.

With warm regards,


(Ramesh Ojha)
General Manager (I/c) & HOP
Kiru HE Project

Copy to:

- 1. Chief Conservator of Forests & Nodal Officer (FCA)** for information please.
- 2. Conservator of Forests, Chenab Circle, Doda** for information please.
- 3. Group General Manager (Planning), CVPPL** for information please.
- 4. DM(IT)-MD Sectt., CVPPL** for kind information of the Managing Director.



Government of Jammu and Kashmir
OFFICE OF THE DIVISIONAL FOREST OFFICER
KISHTWAR FOREST DIVISION, KISHTWAR
Tel/ FAX No.: 01995-295465 e-mail: dfokishtwar1@gmail.com

The Head of Project
Kiru HEPP.

No: KFD/2024-25/Gen./4863-67 Dt: 21-03-2025

Sub: Demand note/bill on account of Catchment Area Treatment (CAT) Plan of Kiru Hydro Electric Project.

**Ref: - Chief Conservator of Forests & Nodal Officer, FCA O/o Pr. CCF Govt J&K
Jammu No: PCCF/FCA/4935/7866-70 Dt: 20-03-2025.**

Sir,

In continuation to this office No: KFD/2024-25/Gen/4505-06 Dated: 08-02-2025 & as directed by Nodal Officer (FCA) vide his office No. under reference you are requested to deposit the amount of Rs. **18,83,27,443.00** (Rupees Eighteen Crores, Eighty-Three Lakhs, Twenty-Seven Thousand, Four Hundred Forty three only) on account of Catchment Area Treatment (CAT) Plan of Kiru HEPP in the below bank account at an earliest for further eventual action under an intimation to this office please.

Name of UT: Jammu & Kashmir

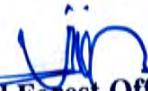
IFSC code : UBIN0903710

Account No: 520101263743541

Yours sincerely,


Vijay Kumar. DCF
Divisional Forest Officer,
Kishtwar.

- 1. Copy submitted to the Chief Conservator of Forests/Nodal Officer, FCA J&K Jammu for favour of kind information please.*
- 2. Copy submitted to the Chief Conservator of Forests Jammu for favour of kind information please.*
- 3. Copy submitted to the Conservator of Forests Chenab Circle Doda for favour of kind information please.*
- 4. Copy submitted to the Managing Director, Chenab Valley Power Project for favour of kind information and necessary action please.*


Divisional Forest Officer,
Kishtwar.



OFFICE OF THE DEPUTY COMMISSIONER
New DC Office Complex Mini Secretariat, Kishtwar

Phone/Fax: 01995-261466/259555, E-mail: crrdcktr@gmail.com, dckishtwar-jk@nic.in



No:- DCK/PS/25/F.NO 07/229

Dt: 26/ 05/ 2025

ANNEXURE-II-b

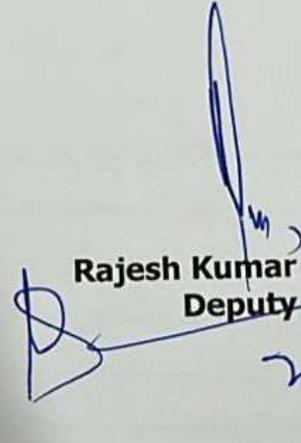
1. CEO Rattle
2. GM Kiru
3. GM Pakal Dul
4. GM Kwar

Sub: - UC regarding R&R plan disbursement

Sir,

On the subject cited above and as requested, the updated UC w.r.t the Rattle, Kiru, Kwar, Pakal Dul and Kwar is enclosed as annexure A, B, C and D respectively.

Yours faithfully


Rajesh Kumar Shavan (JKAS)
Deputy Commissioner,
Kishtwar

Rehabilitation & Resettlement (R&R) Plan, KIRU (624 MW)

- Rehabilitation & Resettlement Plan of Kiru HEPP has been approved vide G.O. No. 11-DMRR&R of 2019 dated 07.03.2019.
- Executing Agency of Kiru HEPP project is CVPPL+JKPDC
- Implementation of R&R being done by Deputy Commissioner, Kishtwar/Commissioner R&R.
- Amount of R&R Plan Rs. 9956.22 Lakh
- Total Amount Received Rs. 5500.00 Lakh
- Amount Released/Utilized up to 16.05.2025 **Rs. 5059.272 Lakh** (individual benefits=Rs. 3504.41 Lakh & LADP = Rs. 1554.862 Lakh)
- Total Project Affected Families (PAFs)= 151 (Displaced= 92 and Non-displaced=59)

Individual Benefits (including Monitoring and Evaluation):

- The individual benefits to the Project Affected Families (PAFs) (Displaced and Non-displaced) have been paid in full (Rs. 3504.41 Lakh) as per the detailed break up given below:

(Rs. in Lakh)

S. No.	Individual Benefits	Amount Sanctioned (upper limit)	Amount payable as per eligibility	Amount Utilized/ disbursed up to 16.05.2025	Remarks	Reasons for less/non disbursement of benefits
1.	Lump Sum Cost of Land and House Constt @Rs 33.00 Lakh each	3069.00	3036.00	3021.00	Paid to 92 eligible PAFs	An amount of Rs.15.00 Lakh has not been disbursed in full to 1 PAF house structure is still to be demolished
2.	Stamp Duty	715.15	0.00	0.00	No eligible PAFs	
3.	Cattle Shed @ 0.25 Lakh	39.75	15.75	15.75	Paid to 63 eligible PAFs	
4.	Transportation grant @ Rs 0.35 Lakh	32.55	31.50	31.50	Paid to 90 eligible PAFs	All PAFs paid as per eligibility
5.	Financial Assistance for Construction of workshed/Shop @Rs. 0.40 Lakh	63.60	0.00	0.00	No eligible PAFs	

6.	Scholarship to the PAF children @ 1000/ per month x 2 x PAF for 24 months (with additional 10% to female and disabled)	83.95	41.24	41.24	Paid to eligible children of 91 eligible PAFs	
7.	Rehabilitation Grant: Minimum Agriculture wages @ Rs. 1.69 Lakh	268.71	255.19	255.19	Paid to 151 eligible PAFs	All PAFs paid as per eligibility
8.	Subsistence Allowance: Minimum Agriculture wages @ Rs. 0.675 Lakh	62.78	62.10	62.10	Paid to 92 eligible PAFs	All PAFs paid as per eligibility
9.	Pension for vulnerable affected families @ Rs. 3.066 Lakh	487.50	0.00	0.00	No eligible PAFs	
10.	Transit Accommodation Allowance @ Rs. 0.30 Lakh	27.90	0.00	0.00	No eligible PAFs	
11.	Additional grant of ST PAF's (MAW 500 days MAW per PAF @ Rs 225 per MAW)	179.67	77.63	77.63	Paid to 69 eligible PAFs	
12.	Monitoring and Evaluation	250.00	0.00	0.00	Project is under implementation stage	
13.	Grants for seeds and fertilizers	39.77	0.00	0.00	PAFs are landless, accordingly not admissible at this stage.	
	Total	5320.33	3519.41	3504.41		

Local Area Development Plan (LADP)

- Under the LADP component, the total amount of Rs. 2887.00 Lakh has been approved against which 21 No. of works (Annex. A) costing Rs. 2887.00 Lakh are under implementation. An amount of Rs. 1554.862 Lakh has been released for the said works.
- Out of the total 21 No. of works, 12 works costing Rs. 1333.64 Lakh have been completed and remaining 09 works are at different stages of completion.

Skill Development Component:

- Under Skill Development Component **Rs. 1748.89 Lakh** (Rs. 38.16 lakh for training, Rs. 200.00 lakh for Skill Development Programme & Rs. 1510.73 lakh for Skill Mapping and Development Plan) has been approved.

Action taken:

- The Skill Mapping of PAFs was carried out some time back which is now being assessed again.
- Nodal Team headed by the Deputy Commissioner, Kishtwar constituted for preparation of Skill Development Plan.
- Preliminary Survey result has indicated preference for Skill Development Training in trades like plumber, electrician, tailor etc. **(Annexure B)**.
- The ITI Kishtwar has started training of 09 No. of identified unemployed persons for undergoing training in Plumber course and 08 No. of identified unemployed persons for undergoing training in Electrician course w.e.f 20.05.2025 and 23.05.2025 respectively. Moreover, training in other trades shall also be started soon **(Annexure B)**.
- Training of 20 No. of females in crochet work & 20 No. of females in cutting & tailoring work through Handicrafts Department is likely to start shortly (Orientation Programme started) **(Annexure B)**.
- For other trades and based on interest shown, Skill Development Department shall provide a detailed matrix outlining the qualifications and proposed skill for beneficiaries, based on NSDC guidelines on both Job Roles as well as Recognition of Prior Learning (RPL) for adoption.
- Training for Self Employment & Skilling through NSDC Master Trainers/Agencies is being contemplated. The Agency shall be done through a transparent process.

- Other approved notable Skill Development related interventions include development of Centre of Excellence at ITI Kishtwar, providing scholarships to students opting for higher technical education, post saturation of PAFs, expansion of skill mapping to other villages of same CD Block to cover more families, etc.
- One Project Management Unit headed by Dy. Commissioner, Kishtwar with members from all the 04 Projects, Planning, Industries, Education, Employment, Health, Finance & Skill Development Department has been formulated for finalization & overall monitoring of Skill Development Plan including corporate convergence and credit linkages.
- *Besides, data from Mission YUVA has been taken and 169 unemployed youths (from all the four HEPPs) have been identified (other than PAFs) from adjoining areas (Block Trigam, Kishtwar, Drabshalla, Nagseni and Dachhan) for Skill Development Training in different trades.*

Other than R&R Plan benefits:

- Under PM Vishwakarma Scheme, 06 beneficiaries have been selected for undergoing training in trades viz. tailoring (03), carpentry (01), washer man (01) & masonry (01).
- Under Lakhpati Didi, 50 beneficiaries have been selected for undergoing training in trading viz. farming (32) & shops (08), livestock rearing (06) & tailoring (04).

The expected timeline for completion of all the above activities is 12 months.

LADP component of R&R Plan of Kiru HEPP

S. No	Local Area Development Activities/ Social and Community Development Package	Amount (Rs. in lakh)	Amount Released/Utilized up to 16.05.2025 (Rs. in lakh)	Remarks	
1	Education and Skill Development	a. Providing & upgrading of infrastructure to existing schools in Project Affected villages (HSS Nagseni- Rs. 63.97 Lakh	100.57	63.97	Work completed.
2		b. HS Patherlaki Rs 36.60 Lakh		29.00	Work completed.
3		c. Constt. of Hostel building at Kishtwar with accommodation facility for girls and boys PAF's (Project Affected Families)	450.00	0.00	At tendering stage (delayed due to land non-availability)
4	Infrastructure Development and Public Utilities	a. Rural connectivity in affected area	300.00	231.252	Work completed
5		b. Upgrading and assistance to existing PHC at Keeru	100.00	60.64	Work Completed.
6		c. Community centers (repair and reconstruction of community hall at village)	32.00	32.00	Work Completed
7		d. Solar Street Lights in affected area	15.00	15.00	Work completed
8		e. Constt and fencing of graveyards and cremation places	50.00	43.00	Out of 16 works, 04 works are completed and rest are under progress
9		f. Sports and re creational infrastructure for youth in affected area (project name: indoor sports stadium and park)	400.00	184.00	30 % work completed and rest in progress and likely to be completed March, 2026
10		g. Assistance for up gradation of irrigation facilities in affected area (Dharbi Khul)	101.87	60.00	Work completed

11	Social Welfare schemes	a. Cold Storage Plant at Shalimar. Component wise details: Road work by PWD (R&B) Kishtwar --- 64.20 Lakh Work to be done by Mechanical Deptt (cold storage) = Rs. 204.80 Lakh JKPDCL work- Rs. 25.00 Lakh	294.00	260.00	Work completed
12		b. Milk Processing Unit at Dool.	40.00	40.00	Work completed
13	Miscellaneous Development activities (Amount placed at the Disposal of DC Kishtwar = Rs. 1000.00 Lakh)	Re-energizing of off – habitation of Sazar, Nawnatnoo and Bamani (DPRs submitted by ExEn JPDCL Kishtwar	147.00	147.00	Work completed
14		Education for All	98.95	80.00	Work completed
15		Mobile Digital Theatre (MDMT) for open screening in Kishtwar	104.25	69.00	Work completed
16		Creation of 6.3MVA receiving station at Dool alongwith 33KV line	280.38	140.00	Under Tendering Process
17		Bore-well @05 numbers (few in project affected families sites)	92.15	0.00	Under Tendering Process
18		Community Hall at Kishtwar	179.50	100.00	Consultancy Tender Floated
19	Miscellaneous Development Activities	Transformer and allied infrastructure for PHC Kiru (creation of 63KV sub-station at PHC Kiru)	5.00	0.00	Under Implementation
20		Providing of Grid connectivity to habitation of Chicha (Horta area)	36.90	0.00	Under Implementation
21		Road connectivity for PHC Kiru including cost of land	59.43	0.00	Under Implementation
Total			2887.00	1554.862	

DETAILS OF BENEFICIARIES OPTED FOR SKILL DEVELOPMENT PLAN (ITI)

S.No	Details of PAFs			No. of Beneficiaries opted for course/ Training/Skill Dev. Plan	Course Details after counseling at ITI	Buildings available at project site / rehabilitation site for training	Remarks
	Displaced	Non Displaced	Total				
1.	92	59	151	33	1. Plumber-09	HS Nagsnei/HSS Pathernaki/Any Govt. building/ Private Building to be identified by the ITI (Nodal Deptt.) in consultation with other Skill Deptt. after having a site visit.	Course started w.e.f 20.05.2025
2.					1. Electrician - 08		Course started w.e.f 23.05.2025
3.					1. Tailoring – 05 2. Nursing / Paramedical-01 3. COPA(Computer Operator)-05 4. Motor Mech.- 02 5. Fitter-02 6. Shopkeeper -01		Shall be started soon.

DETAILS OF BENEFICIARIES OPTED FOR SKILL DEVELOPMENT PLAN (HANDICRAFTS DEPARTMENT)

S.No	Skill programme for PAFs	Details of PAFs			Beneficiaries opted handicrafts courses	Course Details	Buildings available at project site / rehabilitation site for training	Remarks
		Displaced	Non Displaced	Total				
1.	Female (through Handicraft Deptt Kishtwar)	92	59	151	40	1. Crochet Craft-20 2. Cutting & Tailoring - 20	Galhar Bhata (02 centres)	Orientation programme started ,



GOVERNMENT OF JAMMU & KASHMIR
Department of Disaster Management, Relief, Rehabilitation & Reconstruction
Civil Secretariat, Jammu/Srinagar.

Minutes of Meeting

Minutes of the review meeting held under the Chairmanship of the Chief Secretary UT of J&K on 17th April, 2025 at 11:45 AM in order to review/examine the Rehabilitation and Resettlement (R&R) Plan(s) in respect of the following Hydro Electric Power Projects (HEPPs):

- i. Kwar Hydro Electric Project, Tehsil Nagseni, Kishtwar, J&K.
- ii. Ratle Hydro Electric Power Project, Kishtwar, J&K.
- iii. Keeru Hydro Electric Project, Kishtwar, J&K.
- iv. Pakal Dul Hydro Electric Project, Kishtwar, J&K.

Principal Secretary to Government, Department of DMRR&R welcomed the participants and gave a brief about the 04 R&R projects. Thereafter, a detailed Power Point Presentation was made by the Deputy Commissioner, Kishtwar, highlighting the benefits provided under R&R Package & LADP Component in respect of all the above HEPPs.

After threadbare deliberations the following decisions were taken:

1. A meeting of the Empowered Committee of Kwar HEPP be convened for approval of works proposed to be taken up under LADP component of R&R Plan. Besides, Deputy Commissioner, Kishtwar was directed to submit proposal amounting to Rs 4.00 Cr in replacement to the project of "Water Supply to Affected areas" which stands already covered under JJM scheme.
2. The proposal put forth by the Deputy Commissioner, Kishtwar in respect of utilization of the anticipated balance funds available under Skill Development Component of the Keeru HEPP towards the LADP component was deliberated and it was decided that the matter be placed before the Empowered Committee for a decision. Besides, Deputy Commissioner, Kishtwar shall also propose the works to be taken under the LADP and also get the same approved from the Committee designated by Empowered Committee.
3. The Chair directed Deputy Commissioner, Kishtwar to expedite the approval & implementation of individual LADP/CSR projects of R&R Plan of Ratle HEPP.
4. Deputy Commissioner, Kishtwar was also directed to provide the expected date of completion of the ongoing and the newly proposed works taken up/to be taken under the LADP Component of the 04 HEPP(s).

The meeting ended with a vote of thanks to the chair.

Sonia Vaid
Joint Director (P)
Dated: 18.04.2025

No. DMRRR/ER/59/2021

Distribution as above

Copy to the:

1. Divisional Commissioner, Jammu.
2. Deputy Commissioner, Kishtwar.
3. Managing Director, JKPDC, J&K.
4. Managing Director, Chenab Valley Power Project Limited (CVPPL).
5. CEO, Ratle Hydroelectric Power Corporation Limited (RHPCL).

6. Chief Engineer, JPDCL.
7. Additional Secretary to Government, Department of DMRR&R.
8. Private Secretary to Chief Secretary J&K for kind information of Chief Secretary.
9. Private Secretary to Principal Secretary to Government, Power Development Department.
10. Private Secretary to Principal Secretary to Government, Department of Disaster Management Relief Rehabilitation and Reconstruction.



GOVERNMENT OF JAMMU & KASHMIR
Department of Disaster Management, Relief, Rehabilitation & Reconstruction
Civil Secretariat, Jammu/Srinagar.

Minutes of the Meeting

Minutes of the meeting of Empowered Committee constituted by the Government vide G.O. No 1088-GAD of 2017 dated 24.08.2017 & G.O. No 1281-GAD of 2017 dated 09.10.2017 held under the Chairmanship of the Chief Secretary, UT of J&K on 18th April, 2025 at 04:30 PM in order to take decisions regarding the following agenda points:

- I. Approval of works to be taken up under LADP component of R&R Plan of Kwar HEPP.
- II. Formal Approval of works formulated by Committee Designated by the Empowered Committee under LADP component of R&R Plan of Keeru HEPP.
- III. Approval of balance work to be taken up under LADP component of R&R Plan of Keeru HEPP.

The meeting was attended by the following officers:

1. Administrative Secretary, Power Development Department.
2. Administrative Secretary, Department of Disaster Management, Relief, Rehabilitation & Reconstruction.
3. Administrative Secretary, Forest, Environment & Ecology Department.
4. Administrative Secretary, Revenue Department.
5. Administrative Secretary, Planning, Development & Monitoring Department.
6. Administrative Secretary, Public Works (R&B) Department.
7. Divisional Commissioner, Jammu.
8. Managing Director, J&K Power Development Corporation.
9. Deputy Commissioner, Kishtwar.
10. Special Secretary to Government, Jal Shakti Department.

Principal Secretary to Government, Department of DMRR&R welcomed the participants and gave a brief about the 02 R&R HEPPs. Thereafter, a detailed Power Point Presentation was made by the Deputy Commissioner, Kishtwar, highlighting the benefits provided under R&R Package & LADP Component in respect of the above HEPPs.

Agenda 1:

The following works under LADP component of R&R Plan of Kwar HEPP were placed before the Empowered Committee for decision:

S.No	Component	Amount allotted as per the approval and Minutes approved (Rs in lakh)	DPRs received	Amount (Rs. in lakh)	Executing agency	Likely date of completion of Project

1	Education and Skill Development	300.00	Up gradation of Infrastructure of HS Kwar	70.76	CEO Education through PWD(R&B) Paddar	1½ year
			Up gradation of Infrastructure of MS Bhattan	117.79	CEO Education through PWD(R&B) Paddar	1½ year
			Up gradation of Infrastructure of MS Gujjar Basti Padhyarna	61.07	CEO Education through RDD Kishtwar	1½ year
			Repair of GMS Nagseni	19.70	CEO Education through PWD(R&B) Paddar	1½ year
			Repair/renovation of MS Chingnana including Breast wall	7.10	CEO Education through RDD Kishtwar	1½ year
			Total	276.42		
2	Infrastructure Development and Public utilities	Rural Connectivity- 200.00	Rural connectivity in affected villages	200.00	RDD Kishtwar	01 year
3		Upgradation and assistance to existing health care establishments- 100.00	Constt of Health and Wellness Centre at Kwar	89.75	CMO Kishtwar through PWD(R&B) Paddar	02 years
4		Sports and recreational activity for youth of affected area- 35.00	Development of Playground (opposite GHSS, Nagseni) (Rs 30.00 lakh) and Sports equipments/organizing Sports events (Rs 5.00 lakh) for recreational infrastructure	35.00	Youth Services and sports Deptt.	06 Months
5.		Solar Street Lights in the Affected area - 15.00	Solar Street Lights in the Affected area/affected Panchayat (Bhagna-C, Sumna Bhata & Bhatan Dimji)	15.00	RDD Kishtwar	06 Months
6.		Graveyard and cremation grounds- 15.00	Graveyard (7.00) and Cremation grounds (8.00) in Affected area/affected Panchayat	15.00	RDD Kishtwar	06 Months

7.	Infrastructure Dev and Public utilities	Upgradation of irrigation facilities in affected villages-75.00	Const Rashgawari Noose (1600mtrs) of to Khul	75.00	Irrigation and Flood Control deptt Hydraulic Div Kishtwar	06 Months
8.	Social Welfare Scheme	Encouragement in horticulture and agriculture activities -100.00	Construction of AEO office cum training cum demonstration centre at Kwar, Nagseni (95.00 lakh) Proposed High Density walnut orchards 25 units of one Kanal each (4.70 lakh)	100.00	Agriculture Deptt. Horticulture Deptt .	01 year
9.	Misc Dev Activities (placed at the disposal of DC Kishtwar)	To be finalised by DC Kishtwar)-514.00	Repair and renovation of Tourist Hostel Building at TRC Kishtwar	99.92	PWD Kishtwar	07 Months
	Total	1354.00		906.09		

Agenda 2:

With respect to R&R Plan of Keeru HEPP, it was briefed to the Chair that Committee designated by Empowered Committee in a series of deliberations has formulated the list of works to be executed under LADP & on the basis of onsite feasibility and availability of space/land at the project sites, has made some changes in the formulated plan and accordingly, the revised list of works formulated (some of which are already executed and many under execution) was put up before Empowered Committee in this meeting for formal approval. The List of works is as under:

S. No	Local Area development Activities/ Social and Community Development Package	Amount Sanctioned (Rs. in Lakh)	Status of works in last meeting	Remarks

1.	Education and Skill Development	a. Providing & upgrading of infrastructure to existing schools in Project Affected villages (HSS Nagseni- Rs. 63.97 lakh and HS Patherdaki Rs 36.60 lakh	100.57	HSS Nagseni- Completed And HS Patherdaki -Ground floor completed and steel work of 1st floor completed	Work completed. Earlier 06 works in different schools were proposed but on the basis of feasibility and availability of space/land the projects were restricted to only 02-(HSS Nagseni- Rs. 63.97 lakh and H S Patherdaki Rs 36.60 lakh
		b. Constt. of Hostel building at Kishtwar with accommodation facility for girls and boys PAF's (Project Affected Families)	450.00	Land identification under process	Land identified in ITI Kishtwar . Also NOC issued by the Director Consultancy drawing under finalization. At tendering stage.
2.	Infrastructure Development and Public Utilities	a. Rural connectivity in affected area	300.00	06 works completed out of 11 and 05 ongoing	Work completed
		b. Upgrading and assistance to existing PHC at Keeru	100.00	Work Completed .	Work Completed .
		c. Community centers (repair and reconstruction of community hall at village)	32.00	Work Completed	Work Completed
		d. Solar Street Lights in affected area	15.00	Order placed for purchase	Work completed
		e. Constt and fencing of graveyards and cremation places	50.00	Tender floated and allotment made	Out of 16 , 04 works completed , rest under progress
		f. Sports and recreational infrastructure for youth in affected area (project name: indoor sports stadium and park)	400.00	20 % work completed and rest in progress and likely to be completed March 2026	30 % work completed and rest in progress and likely to be completed March 2026
		g. Assistance for up gradation of irrigation facilities in affected area (Dharbi Khul)	101.87	95% completed	completed

3.	Social Welfare schemes	<p>a. Cold Storage Plant at Shalimar.</p> <p>The works proposed under the said component was approved by the committee. It was also approved that the estimates of Rs. 294.00 lakh be covered by utilizing the Rs. 200.00 lakh under said component and rest Rs. 94.00 lakh from Misc Dev activities (amount placed at the disposal of DC Kishtwar at S. No 04).</p> <p>Component wise details:</p> <p>Road work by PWD (R&B) Kishtwar -- 64.20 lakh</p> <p>Work to be done by Mechanical Deptt (cold storage) = Rs. 204.80 lakh</p> <p>JKPDCL work- Rs. 25.00 Lakh</p>	294.00	38% completed work	Work completed
		b. Milk Processing Unit at Dool.	40.00	Completed	Milk Processing Unit functional. (completed). Earlier project of Assistance to self help groups in Agriculture & Horticulture activities was proposed which was later finalized as Milk Processing unit at Dool.
4.	Miscellaneous Development activities (Amount placed at the Disposal	Works taken up - Re-energizing of off-habitation of Sazar, Nawnatnoo and Bamani (DPR's			

of DC Kishtwar = Rs. 1000.00 lakh)	submitted by ExEn JPDCL Kishtwar	147.00	Completed	Completed
	2. Education for All	98.95		
	3. Mobile Digital Theatre (MDMT) for open screening in Kishtwar	104.25		
	Total	2233.64		

Agenda 3:

The balance works formulated by the Committee designated by the Empowered Committee to be taken up under LADP component of R&R Plan of Keeru HEPP were put up before the Empowered Committee for decision as under:

S. No	Local Area Development Activities/ Social and Community Development package	Brief Description	Amount Sanctioned (Rs.in lakh)	
1.	Miscellaneous Development Activities	Creation of 6.3MVA receiving station at Dool alongwith 33KV line	Creation of 6.3MVA receiving station at Dool alongwith 33KV line	280.38
		Bore-well @05 numbers (few in project affected families sites)	Deep drilling development and stabilization (location viz Gulabgarh, Atholi, Drabshaala and other locations.	92.15
		Community Hall at Kishtwar	Community Hall with R/Wall, B/Wall. State land bearing khasra No. 5249/5114/4219 min in village Kishtwar measuring 03KI-15MI is available for the said project.	179.50
	Total		552.03	

After detailed deliberations the following decisions were taken:

1. With respect to Agenda item number 1 (Kwar HEPP), the Empowered Committee unanimously approved projects amounting to Rs. 906.09 lakh out of the total sanctioned amount of Rs. 1354.00 lakh under LADP component of R&R Plan of Kwar HEPP. Moreover, the Committee authorized the Deputy Commissioner, Kishtwar/Commissioner, R&R to formulate and execute the balance works under LADP for remaining amount of Rs. 447.91 lakh.

2. With respect to Agenda item number 2 (Keeru HEPP), the Empowered Committee unanimously ratified the decision of Committee designated by Empowered Committee regarding projects amounting to Rs. 2233.64 lakh out of the total sanctioned amount of Rs. 2887.00 lakh under LADP component of R&R Plan of Keeru HEPP.
3. With respect to Agenda item number 3 (Keeru HEPP), the Empowered Committee unanimously approved balance projects amounting to Rs. 552.03 lakh out of the total sanctioned amount of Rs. 2887.00 lakh under LADP component of R&R Plan of Keeru HEPP for execution.
4. With respect to Skill Development Component of R&R Plan of Keeru HEPP, it was desired by the chair that Skill Mapping of PAFs be redone immediately and action plan be prepared by Deputy Commissioner, Kishtwar /Commissioner R&R and same be placed before the Committee designated by Empowered Committee for the purpose.

The meeting ended with a vote of thanks to the chair.


Sonia Vaid
Joint Director (P)

No. DMRRR/ER/59/2021

Dated: 19.04.2025

Distribution as above

Copy to the:

1. Private Secretary to Chief Secretary J&K for kind information of Chief Secretary.
2. Private Secretary to Financial Commissioner (ACS), Jal Shakti Department, J&K for kind information of Additional Chief Secretary.
3. Private Secretary to Principal Secretary to Government, Power Development Department.
4. Private Secretary to Principal Secretary to Government, Department of Disaster Management Relief Rehabilitation and Reconstruction.
5. Private Secretary to Administrative Secretary, _____ Department for information.
6. Office File.



GOVERNMENT OF JAMMU & KASHMIR
Department of Disaster Management, Relief, Rehabilitation & Reconstruction
Civil Secretariat, Jammu/Srinagar.

Minutes of Meeting

Minutes of the 2nd meeting held on 4th of December, 2024 under the Chairmanship of the Principal Secretary to Government, Department of Disaster Management, Relief, Rehabilitation and Reconstruction, J&K in order to review/examine the R&R Plan of the following Hydro Electric Power Projects (HEPPs).

- i. Kwar Hydro Electric Project, Tehsil Nagseni, Kishtwar, J&K.
- ii. Ratle Hydro Electric Power Project, Kishtwar, J&K.
- iii. Kiru Hydro Electric Project, Kishtwar, J&K.
- iv. Pakal Dul Hydro Electric Project, Kishtwar, J&K.

The following officers attended the meeting:

1. Divisional Commissioner, Jammu.
2. Deputy Commissioner, Kishtwar.
3. Managing Director, JKPDCL, J&K.
4. Director Finance, Department of DMRR&R.
5. Chief Engineer, JPDCL.
6. Joint Director (Planning), Department of DMRR&R.
7. Under Secretary, Power Development Department.
8. Sr. Consultant, Department of DMRR&R.

At the outset, Sr. Consultant Department of DMRR&R briefed the chair about the ATR in respect of the decisions taken in the previous meeting held on 9th October, 2024. Thereafter, a detailed presentation was made by the Deputy Commissioner, Kishtwar before the Chairperson, highlighting the benefits provided under R&R Package & LADP Component under R&R Plans of the above projects.

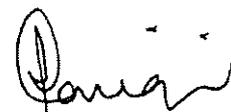
After threadbare deliberations the following decisions were arrived at:

1. The Chair directed the Deputy Commissioner, Kishtwar to frame subject-wise sub committees to monitor the progress of components of respective LADP projects.
2. It was also directed that Deputy Commissioner, Kishtwar shall personally monitor the physical and financial progress of the various components of the LADP of the respective R&R package of the HEPPs and share the same with the DMRR&R/the concerned Empowered Committee on monthly basis.
3. Deputy Commissioner, Kishtwar shall regularly visit the ongoing project sites to examine the pace of works on ground.

4. It was further directed that timelines with month and year of completion of the projects be shared as already instructed in the previous meeting in order to ensure timely completion of the same.
5. Deputy Commissioner, Kishtwar was directed to formulate/submit the left over LADP proposals under the R&R Plan immediately through Divisional Commissioner, Jammu after due consultation with the concerned stakeholders. Besides, it was also directed that the Detailed Project Reports (DPRs) must be duly countersigned by the competent authority.
6. It was also instructed that DPR(s) being framed for the projects must have the provisions for operation and maintenance of the same for the initial few years.
7. It was also directed that Deputy Commissioner, Kishtwar shall ensure the availability of land free from all encumbrances for the new projects being proposed under LADP components. Besides, the feasibility for the construction of the proposed project(s) shall also be ensured.
8. The Chair directed Deputy Commissioner, Kishtwar to obtain completion certificate from the executing agency on the completion of the project. More so, proper handing over and taking of the projects between the executing agency and the concerned department should be done.
9. It was also decided that the assets so created on the completion of the projects shall become the property of the respective line departments and they should cater for their proper upkeep and maintenance.

The Chair directed that another review of R&R Plans would be held after a month.

The meeting ended with a vote of thanks to the Chair.



Sonia Vaid
Joint Director (P)

No. DMRRR/ER/59/2021

Dated: 12.12.2024

Distribution as above.

Copy to the:

1. Private Secretary to Chief Secretary J&K for kind information of Chief Secretary.
2. Private Secretary to Principal Secretary to Government, Power Development Department.
3. Private Secretary to Principal Secretary to Government, Department of Disaster Management Relief Rehabilitation and Reconstruction.



GOVERNMENT OF JAMMU & KASHMIR
Department of Disaster Management, Relief, Rehabilitation & Reconstruction
Civil Secretariat, Jammu/Srinagar.

Minutes of Meeting

Minutes of the review meeting held under the Chairmanship of the Principal Secretary to Government, Department of Disaster Management, Relief, Rehabilitation & Reconstruction on 2nd May, 2025 at 11:00 AM in order to review/examine the Rehabilitation and Resettlement (R&R) Plan(s) in respect of the following Hydro Electric Power Projects (HEPPs):

- i. Kwar Hydro Electric Project, Tehsil Nagseni, Kishtwar, J&K.
- ii. Ratle Hydro Electric Power Project, Kishtwar, J&K.
- iii. Kiru Hydro Electric Project, Kishtwar, J&K.
- iv. Pakal Dul Hydro Electric Project, Kishtwar, J&K.

The meeting was attended by the following officers:

1. Administrative Secretary, Department of Skill Development.
2. Managing Director, J&K State Power Development Corporation Limited.
3. Deputy Commissioner, Kishtwar.
4. Secretary in the Department, Department of Rural Development and Panchayati Raj.
5. Special Secretary to the Government, Power Development Department.
6. Director Finance, Department of DMRR&R.
7. Additional Commissioner, Jammu.
8. Chief Engineer, JPDCL, Jammu.
9. Joint Director (Planning), Department of DMRR&R.
10. Deputy Secretary to Government (MR), Department of DMRR&R.
11. Heads of HEPP(s), Kwar, Ratle, Kiru & Pakal Dul.
12. Chief Planning Officer, Kishtwar.
13. Sr. Consultant, Department of DMRR&R.

At the outset, Principal Secretary to Government, Department of DMRR&R welcomed the participants and thereafter, a detailed Power Point Presentation was made by the Deputy Commissioner, Kishtwar, highlighting the latest physical & financial progress made under the R&R Plan in respect of the above HEPPs.

After the detailed deliberations, the following decisions were taken:

1. For professional formulation and management of the Skill Development components of all the 4 HEPPs, the Deputy Commissioner, Kishtwar was directed to formulate one Project Management Unit (PMU), which shall be headed by Deputy Commissioner, Kishtwar & shall include the Heads of the HEPPs, Officers from Skill Development Department, Education Department, Chief Planning Officer (CPO) Kishtwar, Accounts Officer (AO), or any other department as may be desired. NHPC was advised to propose a comprehensive plan for PMU selection on the lines of its experience with NHPC Projects in Assam and Arunachal Pradesh. The PMU shall formulate a Single Comprehensive Skill Development Plan entailing the desired financial aspect for each component proposed. The project proposal from NHPC shall be submitted within 10 days.
2. At the granular level, it was decided that 04 Nodal teams headed by the Deputy Commissioner, Kishtwar with members viz. Principal ITI, CPO Kishtwar, representative from Chenab Valley Power Projects Limited (CVPPL)/Ratle Hydro Power Corporation

Limited (RHPCL) shall be constituted for carrying out of the Skill mapping and implementation of the Skill Development Plans. For a comprehensive skill mapping of PAFs, it was suggested to use the raw data of Mission YUVA survey, which is available with Secretary, Skill Development. Once the Comprehensive Skill Development Plan is received from the 04 Nodal teams, one each for each HEPPs is prepared by the Nodal teams, the Deputy Commissioner, Kishtwar shall submit the same for seeking approval of the Empowered /Standing committee concerned, as the case may be.

3. It was further decided that in-case the ITI facility is not available near the Project Area, then a Government school may be utilized for imparting skills & accordingly, ITI instructors shall provide training on the identified skills to the trainees.
4. It was also decided that the identified beneficiaries of PAFs in particular, their spouses and/or their children within the eligible age groups should be convinced/prioritized to undergo appropriate skill development training.
5. It was also unanimously decided that in case of felt need, the families residing nearby the project site may also be considered for inclusion in skill development activities.
6. With regard to the Ratle HEPP, it was decided that the Head of Ratle HEPP, in consultation with DC Kishtwar will identify the CSR projects.
7. It was also decided that after completion of training, suitable kits and credit linkage with banks, if needed should also be provided to the trainees. The entire exercise should be managed by PMU and under the overall supervision of DC Kishtwar.
8. It was impressed upon DC Kishtwar and Project Heads of 4 HEPPs that the Skill Development Component of the R&R plans must be accorded the highest priority and the activities should be pursued and completed through a Mission Mode approach.

The meeting ended with a vote of thanks to the Chair.


Sonia Vald
Joint Director (P)
Dated: 06.05.2025

No. DMRRR/ER/59/2021

Copy to the:

1. Managing Director, J&K State Power Development Corporation Limited.
2. Deputy Commissioner, Kishtwar.
3. Secretary in the Department, Department of Rural Development and Panchayati Raj.
4. Special Secretary to the Government, Power Development Department.
5. Director Finance, Department of DMRR&R.
6. Additional Commissioner, Jammu.
7. Chief Engineer, JPDCL, Jammu.
8. Deputy Secretary to Government (MR), Department of DMRR&R.
9. Heads of HEPP(s), Kwar, Ratle, Kiru & Pakal Dul.
10. Chief Planning Officer, Kishtwar.
11. Private Secretary to Chief Secretary J&K for kind information of Chief Secretary.
12. Private Secretary to Principal Secretary to Government, Power Development Department.
13. Private Secretary to Principal Secretary to Government, Department of Disaster Management Relief Rehabilitation and Reconstruction.
14. Private Secretary to Secretary to Government, Skill Development Department.
15. Sr. Consultant, Department of DMRR&R.
16. Office File.



GOVERNMENT OF JAMMU & KASHMIR
Department of Disaster Management, Relief, Rehabilitation & Reconstruction
Civil Secretariat, Jammu/Srinagar.

Meeting Notice

Principal Secretary to Government, Department of Disaster Management, Relief, Rehabilitation & Reconstruction has desired to convene a meeting on 13.05.2025 (Tuesday) at 3:00 PM in the Meeting Hall, 5th Floor, Civil Secretariat, Srinagar to review/examine the Rehabilitation and Resettlement (R&R) Plan(s) in particular the Action Taken on the decisions taken in the meeting held on 02.05.2025 in respect of the following projects:

- i. Kwar Hydro Electric Project, Tehsil Nagseni, Kishtwar, J&K.
- ii. Ratle Hydro Electric Power Project, Kishtwar, J&K.
- iii. Kiru Hydro Electric Project, Kishtwar, J&K.
- iv. Pakal Dul Hydro Electric Project, Kishtwar, J&K.

The undersigned is, accordingly, directed to request the following officers to kindly make it convenient to attend the said meeting on the scheduled date and time:

1. Administrative Secretary, Skill Development Department.
2. Divisional Commissioner, Jammu.
3. Administrative Secretary, Rural Development Department and Panchayati Raj.
4. Managing Director, JKSPDCL, J&K.
5. Deputy Commissioner, Kishtwar [along with Chief Planning Officer], [Through VC]
6. Director Finance, Department of DMRR&R.
7. Representative from the Power Development Department (not below the rank of Additional Secretary).
8. Chief Engineer, JPDCL.
9. Deputy Secretary (MR) to Government, Department of DMRR&R.
10. Head of Project, Kwar, Ratle, Kiru and Pakal Dul Hydro Electric Project.
11. Sr. Consultant, Department of DMRR&R.

Deputy Commissioner, Kishtwar is requested to kindly prepare/present PPT for the scheduled meeting. The soft copy of the PPT may also be shared to this Department through e-mail (arvindraina.539@rediffmail.com) today positively.

The officers stationed at Jammu shall attend the meeting through VC from Meeting Hall, 1st Floor, Civil Secretariat, Jammu.

Sonia Vaid
Joint Director (P)
Dated: 09.05.2025

No: DMRRR-ER/59/2021

Distribution as above

Copy to the:

1. SSP, Security, Civil Secretariat, Srinagar/ Jammu for information.
2. SIO, NIC for information and necessary action.
3. Private Secretary to Principal Secretary to Government, Power Development Department.
4. Private Secretary to Principal Secretary to Government, Department of DMRR&R.
5. Sh. Abdul Gani (*Nazir*), Department of DMRR&R for information.

चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

एनएचपीसी लिमिटेड (भारत सरकार का एक उद्यम) और जेकेएसपीडीसी (जम्मू एवं कश्मीर सरकार का एक उद्यम) का एक संयुक्त उद्यम

Chenab Valley Power Projects Ltd.

A Joint Venture of NHPC Ltd. (A Govt. of India Enterprise) & JKSPDC (A Govt. of J & K Enterprise)

सीआईएन/CIN: U40105JK2011GOI003321

किरु जलविद्युत परियोजना

Kiru Hydroelectric Project

Chenab Nagar-II, Kishtwar(J&K)

फोन नं./Phone No:01995-259505

Email: hopkuru@cvppindia.com

gmkkcvpp@gmail.com

CVPPPL/Kiru/GM(I/c)/2025-26/13

Dated: 05.04.2025

**Divisional Forest Officer,
Kishtwar Forest Division,
Distt. Kishtwar (J&K).
Email: dfokishtwar1@gmail.com**

Sub: Biodiversity Conservation & Management Plan of Kiru HE Project – regarding Physical and Financial Status.

Ref: Letter No. CVPPPL/Kiru/GM(I/c)/2024/670 dated 28.11.2024.

Sir,

An amount of Rs. 139.80 lacs was deposited in CAMPA Account on 25.11.2024 for implementation of the Biodiversity Conservation and Management Plan of Kiru HE Project (624MW).

In this regard, it is requested that the current status with physical and financial progress of works as on 31st March 2025 may kindly be intimated for onward submission to MoEF&CC, Govt. of India.

The requisite information may kindly be provided by 15th April 2025.

Thanking you.

With warm regards,

Ramesh Ojha
(Ramesh Ojha)

**General Manager (I/c) & HOP
Kiru HE Project**

Copy to:

1. Chief Conservator of Forests & Nodal Officer (FCA) for information please.
2. Conservator of Forests, Chenab Circle, Doda for information please.
3. Group General Manager (Planning), CVPPPL for information please.
4. DM(IT)-MD Sectt., CVPPPL for information of the Managing Director.

चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

एनएचपीसी लिमिटेड (भारत सरकार का एक उद्यम) और जेकेएसपीडीसी (जम्मू एवं कश्मीर सरकार का एक उद्यम) का एक संयुक्त उद्यम

Chenab Valley Power Projects Ltd.

A Joint Venture of NHPC Ltd. (A Govt. of India Enterprise) & JKSPDC (A Govt. of J & K Enterprise)

सीआईएन/CIN: U40105JK2011GOI003321

किरू जलविद्युत परियोजना
Kiru Hydroelectric Project
Chenab Nagar-II, Kishtwar (J&K)
फोन नं./Phone No: 01995-259505
Email: hopkuru@cvppindia.com
gmkkcvpp@gmail.com

CVPPPL/Kiru/GM(I/c)/2024/670

Dated: 28.11.2024

Divisional Forest Officer,
Kishtwar Forest Division,
Distt. Kishtwar (J&K).
Email: dfokishtwar1@gmail.com

Sub: Biodiversity Conservation & Management Plan under EMP of Kiru HE Project – Transfer of Funds regarding.

Ref: 1. Letter No. KFD/2023-24/Gen/2927-31 dated 15.10.2024
2. Letter No. PCCF/FCA?1226-III/2471-76 dated 12.09.2024.

Sir,

Kindly refer to above cited communications vide which the requisition of funds and bank account details for deposition of funds were provided for implementation of Biodiversity Conservation and Management plan under EMP of Kiru HE Project (624MW).

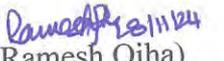
In pursuance to aforementioned communications, the requisitioned amount of Rs. 139.80 lacs has been transferred into the CAMPA Account on 25.11.2024 vide NEFT UTR No. SBIN524330871033 as per following details:

Date (Value Date)	Narration	Debit
25-Nov-2024	TO TRANSFER INB NEFT UTR NO: SBIN524330871033 CAF JAMMU AND KASHMIR	1,39,80,000.00

In this regard, it is requested that further action for implementation of the Biodiversity Conservation and Management Plan may kindly be initiated.

Thanking you.

With warm regards,


(Ramesh Ojha)
General Manager (I/c) & HOP
Kiru HE Project

Copy to:

1. Chief Conservator of Forests & Nodal Officer (FCA) for information please.
2. Conservator of Forests, Chenab Circle, Doda for information please.
3. Group General Manager (Planning), CVPPPL for information please.



Government of Jammu and Kashmir
OFFICE OF THE DIVISIONAL FOREST OFFICER
KISHTWAR FOREST DIVISION, KISHTWAR
Tel./ FAX No.: 01995-295465 e-mail: dfokishtwar1@gmail.com

✓ The Head of Project
Kiru HEPP.

No: KFD/2023-24/Gen./2927-31

Dt: 15-10-2024

Sub: Demand note/bill on account of Implementation of Bio-diversity
Conservation Plans of Kiru Hydro Electric Projects.

Ref:- Chief Conservator of Forests/ Nodal Officer, FCA O/o Pr. CCF Govt J&K
Jammu No: PCCF/FCA/1226-III/2471-75 Dt: 12-09-2024..

Sir,

On the subject cited above, and as directed by Nodal Officer (FCA) vide his office
No. under reference you are requested to deposited the amount of Rs. 139.80 Laes on
account of Bio-diversity Plan of Kiru HEPP in the below bank account at an earliest for
further eventual action please.

Name of UT: Jammu & Kashmir

IFSC code : UBIN0903710

Account No: 520101263743541

Yours sincerely,

Vijay Kumar (SFS)
Divisional Forest Officer,
Kishtwar.

1. Copy submitted to the Chief Conservator of Forests Jammu for favour of kind information please.
2. Copy submitted to the Chief Conservator of Forests/Nodal Officer, FCA J&K Jammu for favour of kind information please.
3. Copy submitted to the Conservator of Forests Chenab Circle Doda for favour of kind information please.
4. Copy submitted to the Managing Director, Chenab Valley Power Project for favour of kind information and necessary action please.

Divisional Forest Officer,
Kishtwar.

SU (Em)
17/10/24



ANNEXURE-II-e

GOVERNMENT OF JAMMU & KASHMIR
OFFICE OF THE ASSISTANT DIRECTOR FISHERIES DISTRICT KISHTWAR

Tel: 01995-295045
Email ID: adfktr@gmail.com

The General Manager
(I/C) & HOP Kiru HE Project
Chenab Nagar-II Kishtwar

No: ADF/Ktr/2025-26/160 -63

Dated: 29 /05/2025

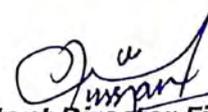
Subject: -Implementation of Fisheries Development Plan of Kiru HE Project—regarding Physical and Financial status.

Ref. No: - CVPP/Kiru/GM (I/C) 2025-26/16 Dated: 05-04-2025.

Sir,

In reference to the subject and reference cited above, an amount of Rs.274.00 lacs has been transferred and placed at the disposal of Collector Land Acquisition (Sub-Divisional Magistrate) Paddar for disbursement among the rightful land owners. The formulation of DPR for establishment of Kiru HE Project is also under process.

Hence, the information is submitted for your kind perusal please.


Assistant Director Fisheries
District Kishtwar

Copy to the: -

1. The District Development Commissioner, Kishtwar for favour of kind information please.
2. Director Fisheries UT of J&K Govt. for favour of kind information please.
3. Joint Director Fisheries (CV) Jammu for favour of information please.

चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

एनएचपीसी लिमिटेड (भारत सरकार का एक उद्यम) और जेकेएसपीडीसी (जम्मू एवं कश्मीर सरकार का एक उद्यम) का एक संयुक्त उद्यम

Chenab Valley Power Projects Ltd.

A Joint Venture of NHPC Ltd. (A Govt. of India Enterprise) & JKSPDC (A Govt. of J & K Enterprise)

सीआईएन/CIN: U40105JK2011GOI003321

किरु जलविद्युत परियोजना

Kiru Hydroelectric Project

Chenab Nagar-II, Kishtwar (J&K)

फोन नं./Phone No: 01995-259505

Email: hopkiru@cvppindia.com

gmkkcvpp@gmail.com

CVPPPL/Kiru/GM(I/c)/2025 - 26/16

Dated: 05.04.2025

Assistant Director Fisheries

J&K Fisheries Department,

Kishtwar.

Email: adfctr@gmail.com

Sub: Implementation of Fisheries Development Plan of Kiru HE Project – regarding Physical & Financial Status.

Ref: Letter No. CVPPPL/Kiru/HoP/2024/387 dated 06.08.2024.

Sir,

An amount of Rs. 798.59 lacs was deposited with J&K Fisheries Department on 22.07.2024 for implementation of the Fisheries Development Plan under EMP of Kiru HE Project (624MW).

In this regard, it is requested that the current status with physical and financial progress of works as on 31st March 2025 may kindly be intimated for onward submission to MoEF&CC, Govt. of India.

The requisite information may kindly be provided by 15th April 2025.

Thanking you.

With Warm Regards,

Ramesh Ojha
(Ramesh Ojha)

**General Manager (I/c) & HOP
Kiru HE Project**

- Copy to:**
- 1. Director, J&K Fisheries Department, Jammu** for information please.
 - 2. GGM (Planning), CVPPPL** for information please.
 - 3. DM(IT) MD Secretariat, CVPPPL** for information of MD CVPPPL.



GOVERNMENT OF UNION TERRITORY OF JAMMU & KASHMIR
OFFICE OF THE DISTRICT DEVELOPMENT COMMISSIONER KISHTWAR
 District Administrative Complex, Mini Secretariat Kishtwar-182204 (J&K)- India.
 TELE-FAX: 01995-259862/email:kishtwarcpo@gmail.com

Subject: Constitution of Project Management Unit for professional formulation and management of the Skill Development components of all the four HEPPs

ORDER No: 17 DDCK of 2025.
Dated: 09-05-2025

In pursuance to the Minutes of the Meeting issued under endorsement vide No: DMRRR/ER/59/2021, dated: 06.05.2025 by Department of Disaster Management, Relief, rehabilitation & reconstruction, Civil Secretariat Jammu/Srinagar & in supersession to this office Order issued under endorsement No: DDCK/PLG/Order File-712/2025-26/786-802, Dated: 02.05.2025, sanction is hereby accorded to the constitution of Project Management Unit of the following composition for the professional formulation and management of the Skill Development components of all the four HEPPs Viz. Pakal Dul HEPP, Kiru HEPP, Kwar HEPP & Rattle HEPP:

1. Deputy Commissioner, Kishtwar:	Chairman
2. Chief Planning Officer, Kishtwar:	Member
3. Project Head Pakal Dul HEPP Kishtwar:	Member.
4. Project Head Kiru HEPP Kishtwar:	Member.
5. Project Head Kwar HEPP Kishtwar:	Member.
6. Project Head Rattle HEPP Kishtwar:	Member.
7. General Manager, Dlc, Kishtwar:	Member
8. Chief Education Officer, Kishtwar:	Member.
9. Assistant Director Handloom/Handicraft Kishtwar:	Member
10. Assistant Director Employment & Counselling Kishtwar:	Member
11. Accounts Officer Dy. Com. Office Kishtwar:	Member.
12. Principal ITI Kishtwar:	Member
13. Director RESTI Kishtwar:	Member

Terms of Reference of the Project Management Unit are as under:

- i. Professional formulation and management of the Skill Development components of all the four HEPPs Viz Pakal Dul HEPP, Kiru HEPP, Kwar HEPP & Rattle HEPP
- ii. Identify the final list of PAFs for undergoing the skill development course along with trade opted by them.
- iii. Modus Oprenidi for providing of Skill development course.
- iv. Identification of Training centres/locations for providing of Skill development training.
- v. Exploring the possibility for use of Mission YUVA Data and mapping of same for providing skill development training.
- vi. Finalizing the list and procedure to be followed including the locations of training programme and submitting the same to the Commissioner R&R Plan for Final approval from empowerment Committee.

(Rajesh Kumar Shavan), JKAS
 District Dev. Commissioner,
 Kishtwar.

No: DDCK/Plg/Skill Dev(R&R Plan) 767/2025-26/ 1055-70

Dated: 09-05-2025

Copy to the:

1. Divisional Commissioner, Jammu for favour of kind inf.
2. _____ (All concerned for information and necessary action)
3. Pvt. Secretary to Administrative Secretary to Govt. DMRRR Civil Secretariat Jammu for kind inf of Adm. Secretary.



GOVERNMENT OF UNION TERRITORY OF JAMMU & KASHMIR
OFFICE OF THE DISTRICT DEVELOPMENT COMMISSIONER KISHTWAR
District Administrative Complex, Mini Secretariat Kishtwar-182204 (J&K)- India.
TELE-FAX: 01995-259862/email:kishtwarcpo@gmail.com

Subject: Constitution of Nodal Teams at granular level for all the four HEPPs Viz. Pakal Dul HEPP, Kiru HEPP, Kwar HEPP & Rattle HEPP.

ORDER No: 16 DDCK of 2025.
Dated: 09-05-2025

In pursuance to the Minutes of the Meeting issued under endorsement vide No: DMRRR/ER/59/2021, dated: 06.05.2025 by Department of Disaster Management, Relief, rehabilitation & reconstruction, Civil Secretariat Jammu/Srinagar &, sanction is hereby accorded to the constitution of four numbers of Nodal Teams at granular level of the following composition for carrying out of the skill mapping and implementation of Skill Development Plan for all the four HEPPs Viz. Pakal Dul HEPP, Kiru HEPP, Kwar HEPP & Rattle HEPP:

S.No	Name of the HEPP	Composition of granular Nodal Team
1	Pakal Dul HEPP	a) Deputy Commissioner Kishtwar: Chairman b) Chief Planning Officer, Kishtwar: Member c) Principal, ITI Kishtwar: Member d) Sh. Naseer Ahmed Manager Environment CVPP Pakal Dul HEPP: Member
2	Kiru HEPP	a) Deputy Commissioner Kishtwar: Chairman b) Chief Planning Officer, Kishtwar: Member c) Principal, ITI Kishtwar: Member d) Dr. Ravi Sharma, Sr. Manager Environment CVPP Kiru HEPP: Member
3	Kwar HEPP	a) Deputy Commissioner Kishtwar: Chairman b) Chief Planning Officer, Kishtwar: Member c) Principal, ITI Kishtwar: Member d) Sh. Jaspreet Singh, Group Sr. Manager Environment CVPP Kwar HEPP: Member
4	Rattle HEPP	a) Deputy Commissioner Kishtwar: Chairman b) Chief Planning Officer, Kishtwar: Member c) Principal, ITI Kishtwar: Member d) Sh. Shashi Pal Charak, sr. Manager Environment RHPCL Rattle HEPP: Member

(Rajesh Kumar Shavan), JKAS
District Dev. Commissioner,
Kishtwar.

No: DDCK/Plg/Skill Dev(R&R Plan) 767/2025-26/1049-54 Dated: 09-05-2025

Copy to the:

1. Divisional Commissioner, Jammu for favour of kind inf.
2. _____ (All concerned for information and necessary action)
3. Pvt. Secretary to Administrative Secretary to Govt. DMRRR Civil Secretariat Jammu for kind inf of Adm. Secretary.



TEST REPORT

Lab No.	050425L-ED-088		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Surface Water (Chenab River)			
Customer's Description of Sample#	Surface Water (Chenab River)			
Quantity#	5 Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team Idma	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Chenab River, Up Stream			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	11/04/2025			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	--			

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.53	IS 3025 (Part 11)
2	Alkalinity (as CaCO ₃)	mg/L	80	IS 3025 (Part 23)
3	Calcium (as Ca)	mg/L	18.1	IS 3025 (Part 40)
4	Chloride (as Cl)	mg/L	15.4	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	6.9	IS 3025 (Part 38)
6	Hardness Total (as CaCO ₃)	mg/L	68	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	172	IS 3025 (Part 16)
8	Sulphate (as SO ₄)	mg/L	8.3	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)



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

Disclaimer :

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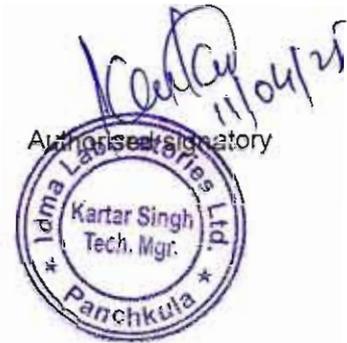
TEST REPORT

Lab No.	050425L-ED-088			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods
10	Residual Free chlorine	mg/L	0.21	IS 3025 (Part 26)
11	Magnesium (as Mg)	mg/L	5.227	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.028	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ (LOQ-0.0005)	IS 3025 (Part 47)
14	Manganese as Mn	mg/L	0.002	IS 3025 (Part 47)
15	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	<4	IS 3025 (Part 58)
17	Feecal Coliform	MPN/100ml	17	IS 1622:1981

Opinion :

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-089		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Surface Water (Chenab River)			
Customer's Description of Sample#	Surface Water (Chenab River)			
Quantity#	5 Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team Idma	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Chenab River , Down Stream.			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	11/04/2025			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	-			

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.81	IS 3025 (Part 11)
2	Alkalinity (as CaCO ₃)	mg/L	74	IS 3025 (Part 23)
3	Calcium (as Ca)	mg/L	16.0	IS 3025 (Part 40)
4	Chloride (as Cl)	mg/L	18.5	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	7.0	IS 3025 (Part 38)
6	Hardness Total (as CaCO ₃)	mg/L	90	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	173	IS 3025 (Part 16)
8	Sulphate (as SO ₄)	mg/L	8.4	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)



Authorised Signature



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

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TEST REPORT

Lab No.		050425L-ED-089			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods	
10	Residual Free chlorine	mg/L	0.22	IS 3025 (Part 26)	
11	Magnesium (as Mg)	mg/L	5.023	IS 3025 (Part 46)	
12	Iron as Fe	mg/L	0.001	IS 3025 (Part 53)	
13	Lead as Pb	mg/L	BLQ (LOQ-0.0005)	IS 3025 (Part 47)	
14	Manganese as Mn	mg/L	0.002	IS 3025 (Part 47)	
15	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)	
16	Chemical Oxygen Demand	mg/L	<4	IS 3025 (Part 58)	
17	Feecal Coliform	MPN/100ml	48	IS 1622:1981	

Opinion :

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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Panchkula - 134113,

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- In case of any feedback/complaints, please send email at testing@idmagroup.co.in or call at 0172 - 5064827 / 5064830



Idma Laboratories Limited



TEST REPORT

ULR : TC820725700006365F

Lab No.	040425L-FD-007		Page No.	1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Drinking Water			
Customer's Description of Sample#	Drinking Water			
Quantity#	1 Ltr			
Packing, Markings, Seal & Quantity#	Plastic Can, Location-Right Bank Dam Site Worker Camp			
Mode of Collection of Sample	Sample Collected By Idma Lab Person			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	04/04/2025			
Period of Analysis	04/04/2025 To 14/04/2025			
Visual Observation	N/A			
Date of Reporting	14/04/2025			
Testing Protocol	IS 10500:2012 Amdt 1 to 4			

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.45	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO3)	mg/L	95.88	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.012	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	43.25	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	22.24	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS 3025 (Part 60) : 2008
10	Total Hardness (as CaCO3)	mg/L	148.92	Max. 200	Max. 600	IS 3025 (Part 21) : 2009



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

ULR : TC820725700006365F

Lab No.		040425L-FD-007				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	236.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	5.6	Max. 200	Max. 400	IS 3025 (Part 24/Sec 1) : 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	Min. 0.2	Min.1.0	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Copper (as Cu)	mg/L	0.003	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.003	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994

Reviewed by *[Signature]* 14/10/2025

Authorized Signatory *[Signature]*
V.P. Tech-IV
Panchkula

Idma Laboratories Limited

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



TEST REPORT

ULR : TC820725700006365F

Lab No.		040425L-FD-007				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
26	Magnesium (as Mg)	mg/L	9.91	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Sodium as Na	mg/L	2.1	-	-	IS 3025 (Part-45): 1993
28	Potassium as K	mg/L	1.6	-	-	IS 3025 (Part-45): 1993
29	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
30	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	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 :

Remarks:- The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ:- Below limit of quantification, LOQ:- Limit of quantification.

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TEST REPORT

ULR : TC820725700006366F

Lab No.	040425L-FD-008		Page No.	1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Drinking Water			
Customer's Description of Sample#	Drinking Water			
Quantity#	1 Ltr			
Packing, Markings, Seal & Quantity#	Plastic Can, Location-Base Camp Near Workshop			
Mode of Collection of Sample	Sample Collected By Idma Lab Person			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	04/04/2025			
Period of Analysis	04/04/2025 To 14/04/2025			
Visual Observation	N/A			
Date of Reporting	14/04/2025			
Testing Protocol	IS 10500:2012 Amdt 1 to 4			

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.34	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	81.6	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.013	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	26.11	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	17.74	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	104.04	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by 

 Ranjna
 Tech. Mgr.

Authorized Signatory


 Dr. Indra Raj
 Y.P. Technol.

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Idma Laboratories Limited



TC-8207

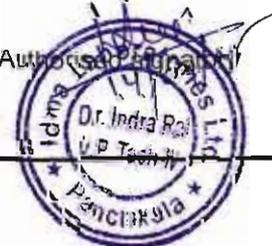
TEST REPORT

ULR : TC820725700006366F

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	158.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	6.3	Max. 200	Max. 400	IS 3025 (Part 24/Sec 1) : 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	Min. 0.2	Min.1.0	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Copper (as Cu)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.002	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994

Reviewed by 


Authorised Signatory



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TEST REPORT

ULR : TC820725700006366F

Lab No.		040425L-FD-008				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
25			(LOQ-0.0005)			
26	Magnesium (as Mg)	mg/L	9.42	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Sodium as Na	mg/L	1.5	-	-	IS 3025 (Part-45): 1993
28	Potassium as K	mg/L	1.2	-	-	IS 3025 (Part-45): 1993
29	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
30	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	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 :

Remarks:- The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ:- Below limit of quantification, LOQ:- Limit of quantification.

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End of Report

Reviewed by
14/04/2025



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Idma Laboratories Limited



TC-8207

TEST REPORT

ULR : TC820725700006367F

Lab No.	040425L-FD-009		Page No.	1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Drinking Water (Raw Water)			
Customer's Description of Sample#	Drinking Water (Raw Water)			
Quantity#	1 Ltr			
Packing, Markings, Seal & Quantity#	Plastic Can, Location-Natural Source Near TRT			
Mode of Collection of Sample	Sample Collected By Idma Lab Person			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	04/04/2025			
Period of Analysis	04/04/2025 To 14/04/2025			
Visual Observation	N/A			
Date of Reporting	14/04/2025			
Testing Protocol	IS 10500:2012 Amdt 1 to 4			

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.62	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	102.0	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.004	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	49.78	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	19.49	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	177.48	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by 

 Rishina
 Tech Mgr
 Panchkula



 Dr. Jitendra
 V.P. Test
 Panchkula

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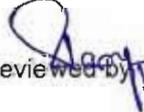


TC-8207

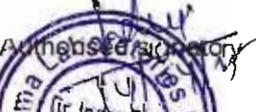
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				Acceptable Limit (Max)	Permissible Limit (Max)	
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12	Sulphate (as SO ₄)	mg/L	7.5	Max. 200	Max. 400	IS 3025 (Part 24/Sec 1) : 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) : 2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	Min. 0.2	Min. 1.0	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) : 2023
17	Copper (as Cu)	mg/L	0.001	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.002	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	0.001	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) : 1994
26	Magnesium (as Mg)	mg/L	12.89	Max. 30	Max. 100	IS 3025 (Part 46) : 2023
27	Sodium as Na	mg/L	2.0	-	-	IS 3025 (Part-45): 1993

Reviewed by 

 Ranjna
 Tech. Mgr.

Authorized signatory


 Or. Indra
 V.P. Panchkula

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Idma Laboratories Limited



TC-8207

TEST REPORT

ULR : TC820725700006367F

Lab No.		040425L-FD-009				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28	Potassium as K	mg/L	1.2	-	-	IS 3025 (Part-45): 1993
29	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
30	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	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 :

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Idma Laboratories Limited



TEST REPORT

ULR : TC820725700006368F

Lab No.	040425L-FD-010	Page No. 1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Drinking Water (Raw Water)	
Customer's Description of Sample#	Drinking Water (Raw Water)	
Quantity#	1 Ltr	
Packing, Markings, Seal & Quantity#	Plastic Can, Location-Natural Source Near Office	
Mode of Collection of Sample	Sample Collected By Idma Lab Person	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	04/04/2025	
Period of Analysis	04/04/2025 To 14/04/2025	
Visual Observation	N/A	
Date of Reporting	14/04/2025	
Testing Protocol	IS 10500:2012 Amdt 1 to 4	

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.78	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	97.92	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.013	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	52.22	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	21.99	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	187.68	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by: 
Ranjina
Tech. Mgr.


Analysed by: 
Dr. Indira


Idma Laboratories Limited

Idma Corporate Park,
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TEST REPORT

ULR : TC820725700006368F

Lab No.		040425L-FD-010				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	294.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	6.6	Max. 200	Max. 400	IS 3025 (Part 24/Sec 1) : 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) : 2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	Min. 0.2	Min. 1.0	IS 3025 (Part 26) : 2021
METALS:						
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) : 2023
17	Copper (as Cu)	mg/L	0.004	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.002	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	0.001	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) : 1994
26	Magnesium (as Mg)	mg/L	13.88	Max. 30	Max. 100	IS 3025 (Part 46) : 2023
27	Sodium as Na	mg/L	2.4	-	-	IS 3025 (Part-45): 1993

Reviewed by

Authorized Laboratory

Idma Laboratories Limited

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TEST REPORT

ULR : TC820725700006368F

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28	Potassium as K	mg/L	1.3	-	-	IS 3025 (Part-45): 1993
29	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
30	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	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 :

Remarks:- The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ:- Below limit of quantification, LOQ:- Limit of quantification.

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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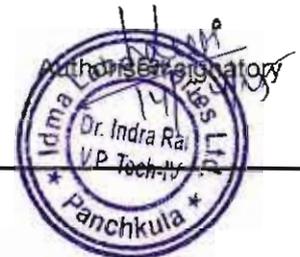
TEST REPORT

ULR : TC820725700006370F

Lab No.	040425L-FD-011		Page No.	1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Drinking Water			
Customer's Description of Sample#	Drinking Water			
Quantity#	1 Ltr			
Packing, Markings, Seal & Quantity#	Plastic Can, Location- Worker Camp Pathemaki			
Mode of Collection of Sample	Sample Collected By Idma Lab Person			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	04/04/2025			
Period of Analysis	04/04/2025 To 14/04/2025			
Visual Observation	N/A			
Date of Reporting	14/04/2025			
Testing Protocol	IS 10500:2012 Amdt 1 to 4			

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.72	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	91.8	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.011	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	45.70	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	20.74	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	163.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009



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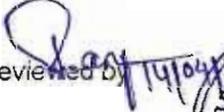
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TEST REPORT

ULR : TC820725700006370F

Lab No.		040425L-FD-011				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	243.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	5.9	Max. 200	Max. 400	IS 3025 (Part 24/Sec 1) : 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) : 2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	Min. 0.2	Min. 1.0	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) : 2023
17	Copper (as Cu)	mg/L	0.004	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.002	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	0.001	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) : 1994
26	Magnesium (as Mg)	mg/L	11.90	Max. 30	Max. 100	IS 3025 (Part 46) : 2023
27	Sodium as Na	mg/L	2.1	-	-	IS 3025 (Part-45): 1993

Reviewed by: 

 Ranjna
 Tech Ingr.
 Panchkula

Authorized Signatory: 

 V.P Tech-IV
 Panchkula

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TEST REPORT

ULR : TC820725700006370F

Page No. 3/3

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28	Potassium as K	mg/L	1.6	-	-	IS 3025 (Part-45): 1993
29	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
30	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	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 :

Remarks:- The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ:- Below limit of quantification, LOQ:- Limit of quantification.

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****End of Report****



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Idma Laboratories Limited



TEST REPORT

ULR : TC820725700006371F

Lab No.	040425L-FD-012		Page No. 1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	1 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can, Location- Staff Camp Patherdaki		
Mode of Collection of Sample	Sample Collected By Idma Lab Person		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	04/04/2025		
Period of Analysis	04/04/2025 To 14/04/2025		
Visual Observation	N/A		
Date of Reporting	14/04/2025		
Testing Protocol	IS 10500:2012 Amdt 1 to 4		

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.55	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO3)	mg/L	73.44	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.013	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	33.46	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	16.49	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS 3025 (Part 60) : 2008
10	Total Hardness (as CaCO3)	mg/L	122.4	Max. 200	Max. 600	IS 3025 (Part 21) : 2009



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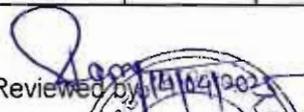
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TEST REPORT

ULR : TC820725700006371F

Lab No.		040425L-FD-012				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	184.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	5.5	Max. 200	Max. 400	IS 3025 (Part 24/Sec 1) : 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	Min. 0.2	Min.1.0	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Copper (as Cu)	mg/L	0.002	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	0.001	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.002	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
26	Magnesium (as Mg)	mg/L	9.42	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Sodium as Na	mg/L	1.2	-	-	IS 3025 (Part-45): 1993

Reviewed by: 



Authorised signatory: 



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TEST REPORT

ULR : TC820725700006371F

Lab No.		040425L-FD-012				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 1993
29	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
30	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	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 :

Remarks:- The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ:- Below limit of quantification, LOQ:- Limit of quantification.

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase - 1,
Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

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Idma Laboratories Limited



TEST REPORT

ULR : TC820725700006372F

Lab No.	040425L-FD-013		Page No. 1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	1 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can, Location- Camp Near Main Office		
Mode of Collection of Sample	Sample Collected By Idma Lab Person		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	04/04/2025		
Period of Analysis	04/04/2025 To 14/04/2025		
Visual Observation	N/A		
Date of Reporting	14/04/2025		
Testing Protocol	IS 10500:2012 Amdt 1 to 4		

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.56	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO3)	mg/L	79.56	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.014	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	42.43	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	17.99	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS 3025 (Part 60) : 2008

Reviewed by

 Ranina
 Tech. Mgr.


Authorized Signatory

 Dr. Indra Rai
 V.P. Tech. Mgr.


Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

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Idma Laboratories Limited



TEST REPORT

ULR : TC820725700006372F

Lab No.		040425L-FD-013				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
10	Total Hardness (as CaCO ₃)	mg/L	140.76	Max. 200	Max. 600	IS 3025 (Part 21) : 2009
11	Total Dissolved Solids	mg/L	204.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	6.4	Max. 200	Max. 400	IS 3025 (Part 24/Sec 1) : 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) : 2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	Min. 0.2	Min. 1.0	IS 3025 (Part 26) : 2021
METALS:		-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) : 2023
17	Copper (as Cu)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	0.001	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.003	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ	Max. 0.001	No Relaxation	IS 3025 (Part 48) : 1994

Reviewed by

 Ranjna
 Tech. Mgr
 Idma Laboratories Ltd.
 Panchkula

Authorised Signatory

 Dr. Indra Raj
 V.P. Tech. IV
 Idma Laboratories Ltd.
 Panchkula

Idma Laboratories Limited

Idma Corporate Park,
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TEST REPORT

ULR : TC820725700006372F

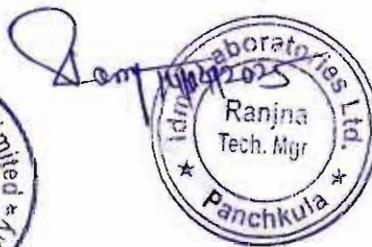
Lab No.		040425L-FD-013				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
25			(LOQ-0.0005)			
26	Magnesium (as Mg)	mg/L	8.43	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Sodium as Na	mg/L	1.9	-	-	IS 3025 (Part-45): 1993
28	Potassium as K	mg/L	1.1	-	-	IS 3025 (Part-45): 1993
29	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
30	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	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 :

Remarks:- The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ:- Below limit of quantification, LOQ:- Limit of quantification.

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TEST REPORT

ULR : TC820725700006373F

Lab No.	040425L-FD-014		Page No.	1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Drinking Water			
Customer's Description of Sample#	Drinking Water			
Quantity#	1 Ltr			
Packing, Markings, Seal & Quantity#	Plastic Can, Location- Officer Colony Padyarna			
Mode of Collection of Sample	Sample Collected By Idma Lab Person			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	04/04/2025			
Period of Analysis	04/04/2025 To 14/04/2025			
Visual Observation	N/A			
Date of Reporting	14/04/2025			
Testing Protocol	IS 10500:2012 Amdt 1 to 4			

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.71	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO3)	mg/L	83.64	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.021	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	34.37	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	17.74	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS 3025 (Part 60) : 2008
10	Total Hardness (as CaCO3)	mg/L	130.56	Max. 200	Max. 600	IS 3025 (Part 21) : 2009



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TEST REPORT

ULR : TC820725700006373F

Lab No.		040425L-FD-014				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	194.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	7.0	Max. 200	Max. 400	IS 3025 (Part 24/Sec 1) : 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) : 2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	Min. 0.2	Min. 1.0	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) : 2023
17	Copper (as Cu)	mg/L	0.001	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.003	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) : 1994

Reviewed by 


Authorized Signatory 


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Idma Laboratories Limited



TEST REPORT

ULR : TC820725700006373F

Lab No.		040425L-FD-014				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
26	Magnesium (as Mg)	mg/L	10.91	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Sodium as Na	mg/L	1.6	-	-	IS 3025 (Part-45): 1993
28	Potassium as K	mg/L	1.4	-	-	IS 3025 (Part-45): 1993
29	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
30	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	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 :

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TEST REPORT

Lab No.	050425L-ED-077		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Worker Camp Pathernaki			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	11/04/2025			
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	-	7.36	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	154.4	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	16	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.6	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	405	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	34	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer. **End of Report**

Reviewed by

 Dipti Jain
 Asst. Tech. Manager

Authorised signatory

 Kanar Singh
 Tech. Mgr.

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Idma Laboratories Limited



TEST REPORT

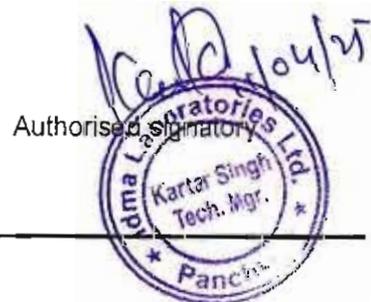
Lab No.	050425L-ED-078		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Staff Camp Pathemaki			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	11/04/2025			
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	-	7.19	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	203.2	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	22	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.0	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	422	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	26	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End-of Report



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



TC-8207

TEST REPORT

Lab No.	050425L-ED-079		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Carr.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Camp Near Main Office			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	11/04/2025			
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	-	7.21	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	211.3	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	24	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	<2.5	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	462	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	38	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report

Reviewed by

Dipati Jain
Asst. Tech. Manager

Authorised signatory

Kartar Singh
Tech. Mgr.

Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	050425L-ED-080		Page No. 1/1	
Customer#	Patel Engineering Limited Klru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Office Colony Padyarna.			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	11/04/2025			
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	-	7.31	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	215.4	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	16	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.4	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	398	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	28	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report

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

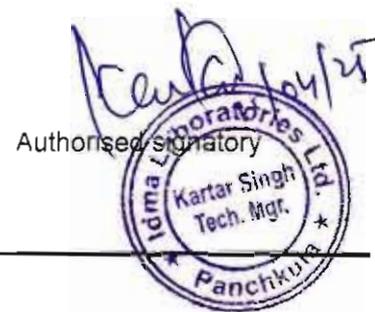
Lab No.	050425L-ED-081	Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Waste Water (Mess)		
Customer's Description of Sample#	Waste Water (Mess)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 11/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Right Bank Dam Site Worker Camp.		
Visual Observation	N/A		
Date of Sampling	02/04/2025		
Date of Reporting	11/04/2025		
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	-	7.69	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	186.9	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	17	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.3	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	415	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	31	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	050425L-ED-082		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Backing Plant)			
Customer's Description of Sample#	Waste Water (Backing Plant)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-30 Near Main Officer.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
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	-	7.54	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	191.0	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	08	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	<2.5	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	381	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	24	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report

Reviewed by

Asst. Tech. Manager


Authorised signatory

Kartar Singh
Tech. Mgr.


Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-083		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Waste Water (Batching Plant)		
Customer's Description of Sample#	Waste Water (Batching Plant)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 11/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant CP-240, Base Camp.		
Visual Observation	N/A		
Date of Sampling	02/04/2025		
Date of Reporting	11/04/2025		
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	-	8.07	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	203.2	Max.250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	16	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.1	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	405	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	32	Max. 100	IS 3025 (Part 17)

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	050425L-ED-084		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Batching Plant)			
Customer's Description of Sample#	Waste Water (Batching Plant)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-240, Base Camp.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	11/04/2025			
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	-	7.69	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	178.8	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	11	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	<2.5	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	376	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	23	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

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Haryana (India)

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TEST REPORT

Lab No.	050425L-ED-085		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Waste Water (Crusher Plant)		
Customer's Description of Sample#	Waste Water (Crusher Plant)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 11/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Crusher Plant 600 TPH Base Camp.		
Visual Observation	N/A		
Date of Sampling	02/04/2025		
Date of Reporting	11/04/2025		
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	-	7.61	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	215.4	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	18	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	2.9	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	401	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	39	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited



TC-8207

TEST REPORT

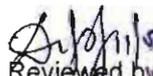
Lab No.	050425L-ED-086		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Crusher Plant 200 TPH Near Main Office.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	11/04/2025			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

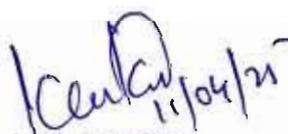
RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.28	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	174.7	Max.250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	15	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.1	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	427	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	28	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report

Reviewed by

 Dipti Jain
 Asst. Tech. Manager
 Idma Laboratories Ltd.

Authorised signatory

 Kartar Singh
 Tech. Ingr
 Idma Laboratories Ltd.
 Panchkula

Idma Laboratories Limited

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TEST REPORT

Lab No.	050425L-ED-087		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 11/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Primary Crusher Pathernaki			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	11/04/2025			
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	-	8.05	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	195.07	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	29	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	<2.5	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	432	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	41	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



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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Idma Laboratories Limited

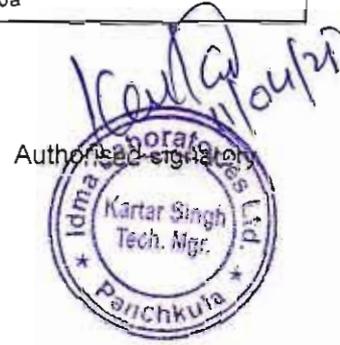


TEST REPORT

Lab No.		050425L-ED-090/A			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m³	0.11	Max. 1.0	EPA/625/R-96/010a

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TEST REPORT

Lab No.	050425N-E-001		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Noxious Gas			
Customer's Description of Sample#	Noxious Gas			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sample Supplied by the party			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Inside TRT Tail Race Tunnel.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	-			
Testing Protocol	OSHA/Customer's Specification			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	CO	ppm	6.92	Max. 50	NIOSH MANUAL:6604
2	Hydrogen sulfide (H ₂ S)	mg/m ³	1.26	Max. 10	NIOSH MANUAL: 6013
3	CO ₂	ppm	1856	Max. 5000	NIOSH MANUAL:6603
4	O ₂	%	21.3	19.5-23.5	NIOSH MANUAL: 6601
5	Methane as CH ₄	ppm	231	Max. 1000	NIOSH MANUAL
6	Silica (SiO ₂)	mg/m ³	0.92	Max 10	NIOSH MANUAL
7	Nitrogen Fumes	ppm	<0.001	Max. 0.01	NIOSH MANUAL

Represents details provided by the customer.

End of Report

Reviewed by

Dipti Jain
Asst. Tech. Manager


Authorised signatory



Alok Kumar
Tech. Mgr.
Panchkula

Idma Laboratories Limited

Idma Corporate Park,
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TEST REPORT

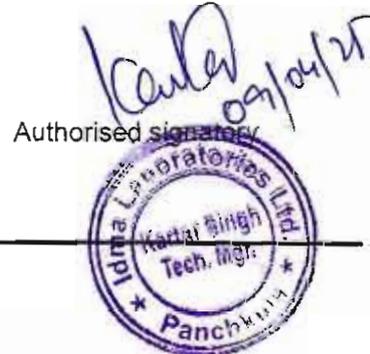
Lab No.	050425N-E-002		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Noxious Gas			
Customer's Description of Sample#	Noxious Gas			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sample Supplied by the party			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Inside MAT			
Visual Observation	N/A			
Date of Sampling	03/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	-			
Testing Protocol	OSHA/ Customer Specification			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	CO	ppm	7.13	Max. 50	NIOSH MANUAL: 6604
2	Hydrogen sulfide (H2S)	mg/m ³	1.08	Max. 10	NIOSH MANUAL:6013
3	CO2	ppm	1846	Max. 5000	NIOSH MANUAL: 6603
4	O2	%	20.8	19.5-23.5	NIOSH MANUAL: 6601
5	Methane as CH4	ppm	216	Max. 1000	NIOSH MANUAL
6	Silica (SiO2)	mg/m ³	0.82	Max 10	NIOSH MANUAL
7	Nitrogen Fumes	ppm	<0.001	Max. 0.01	NIOSH MANUAL

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TEST REPORT

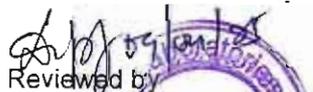
Lab No.	050425N-E-003		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Noxious Gas		
Customer's Description of Sample#	Noxious Gas		
Quantity#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sample Supplied by the party		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 09/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Inside TC		
Visual Observation	N/A		
Date of Sampling	03/04/2025		
Date of Reporting	09/04/2025		
Sampling Protocol	-		
Testing Protocol	OSHA/Customer's Specification		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	CO	ppm	6.8	Max. 50	NIOSH MANUAL:6604
2	Hydrogen sulfide (H2S)	mg/m ³	1.32	Max. 10	NIOSH MANUAL:6013-1994
3	CO2	ppm	1725	Max. 5000	NIOSH MANUAL:6603
4	O2	%	20.5	19.5-23.5	NIOSH MANUAL:6601
5	Methane as CH4	ppm	183	Max. 1000	NIOSH MANUAL
6	Silica (SiO2)	mg/m ³	0.92	Max. 10	NIOSH MANUAL
7	Nitrogen Fumes	ppm	<0.001	Max. 0.01	NIOSH MANUAL

Represents details provided by the customer.

End of Report

Reviewed by

Dipati Jain
Asst. Tech. Manager


Authorised Signatory


Kartar Singh
Tech. Mgr.


Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	050425N-E-004		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Noxious Gas			
Customer's Description of Sample#	Noxious Gas			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sample Supplied by the party			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Inside CVT			
Visual Observation	N/A			
Date of Sampling	03/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	-			
Testing Protocol	OSHA/Customer's Specification			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	CO	ppm	7.09	Max. 50	NIOSH MANUAL: 6604
2	Hydrogen sulfide (H2S)	mg/m ³	1.61	Max. 10	NIOSH MANUAL :6013
3	CO2	ppm	1792	Max. 5000	NIOSH MANUAL: 6603
4	O2	%	21.1	19.5-23.5	NIOSH MANUAL:6601
5	Methane as CH4	mg/m ³	218	Max. 1000	NIOSH MANUAL
6	Silica (SiO2)	mg/m ³	0.96	Max. 10	NIOSH MANUAL
7	Nitrogen Fumes	ppm	<0.001	Max. 0.01	NIOSH MANUAL

Represents details provided by the customer.

End of Report

Reviewed by 

 Dipati Jain
 Asst. Tech. Manager

Authorised signatory 

 Kartar Singh
 Tech. Mgr.

Idma Laboratories Limited

Idma Corporate Park,

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Panchkula - 134113,

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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-044		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-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.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 10/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-240 Base Camp			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	10/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	61.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	52.7	Max 70	CPCB PROTOCOL July 2015.

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End of Report



Authorised Signatory



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	050425L-ED-045		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-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.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 10/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Crusher Plant 600 TPH Base Camp.			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	10/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	61.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	56.4	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-046	Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-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.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 10/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Crusher Plant 200 TPH, Near Main Office.		
Visual Observation	N/A		
Date of Sampling	01/04/2025		
Date of Reporting	10/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	59.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	53.4	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-047		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-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.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 10/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-30, Near Main Office.			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	10/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	67.1	Max 70	CPCB PROTOCOL July 2015.

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Idma Laboratories Limited



TC-8207

TEST REPORT

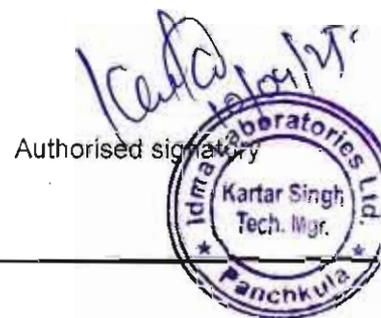
Lab No.	050425L-ED-048	Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level (Ambient)		
Customer's Description of Sample#	Noise Level (Ambient)		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 10/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Primary Crusher Pathernaki		
Visual Observation	N/A		
Date of Sampling	01/04/2025		
Date of Reporting	10/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	73.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	62.9	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,

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Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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TEST REPORT

Lab No.	050425L-ED-049		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-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.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 10/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stone Quarry Pathernaki		
Visual Observation	N/A		
Date of Sampling	01/04/2025		
Date of Reporting	10/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	67.2	Max 70	CPCB PROTOCOL July 2015.

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End of Report



Authorized Signatory



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TC-8207

TEST REPORT

Lab No.	050425L-ED-050		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-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.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 10/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-240 Base Camp.			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	10/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	74.0	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	68.2	Max 70	CPCB PROTOCOL July 2015.

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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-057/A		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Cummins 500 KVA, EM003271, D.G. Pathernaki.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	4.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	32	-	-
4	Stack Temperature	°C	87	-	-
5	Velocity	m/s	12.0	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by

 Dipati Jain
 Asst. Tech. Manager
 Idma Laboratories Ltd.
 Panchkula

Authorized Signatory

 Kartar Singh
 Tech. Mgr.
 Idma Laboratories Ltd.
 Panchkula

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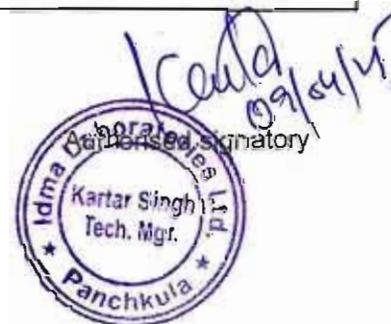


TEST REPORT

Lab No.		050425L-ED-057/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	33	-	-	
9	Volumetric Flow rate	Nm ³ /hr	651.2	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.13	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.15	Max. 3.5	IS:13270	
12	SO2	g/kW-hr	1.24	-	IS: 11255(Part -2)	

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TEST REPORT

Lab No.	050425L-ED-057/B		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 09/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attach to DG Cummins 500 KVA, EM003271, D.G. Pathernaki.		
Visual Observation	N/A		
Date of Sampling	02/04/2025		
Date of Reporting	09/04/2025		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	2.28	Max. 4.0	IS: 11255(Part -7)

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TEST REPORT

Lab No.	050425L-ED-059/A		Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/04/2025		
Period of Analysis	05/04/2025 To 09/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attach to DG Cummins 125 KVA, EM007157 Pandyama Guest House.		
Visual Observation	N/A		
Date of Sampling	02/04/2025		
Date of Reporting	09/04/2025		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	4.0	-	-
2	Stack Diameter	Meters	0.1016	-	-
3	Ambient Temperature	°C	32	-	-
4	Stack Temperature	°C	89	-	-
5	Velocity	m/s	12	-	-
6	Type of Fuel	-	HSD	-	-



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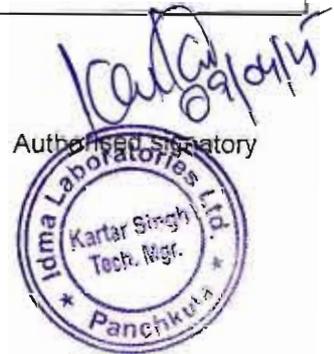
TC-8207

TEST REPORT

Lab No.		050425L-ED-059/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	32	-	-	
9	Volumetric Flow rate	Nm ³ /hr	287.8	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.08	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.91	Max. 3.5	IS:13270	
12	SO2	g/kW-hr	1.31	-	IS: 11255(Part -2)	

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TEST REPORT

Lab No.	050425L-ED-059/B		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	510001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Cummins 125 KVA, EM007157 Pandyarna Guest House.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	2.17	Max. 4.0	IS: 11255(Part -7)

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TEST REPORT

Lab No.	050425L-ED-060/A		Page No.	1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Cummins 500 KVA, EM005763, Plange Pool.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1016	-	-
3	Ambient Temperature	°C	32	-	-
4	Stack Temperature	°C	77	-	-
5	Velocity	m/s	12.0	-	-
6	Type of Fuel	-	HSD	-	-



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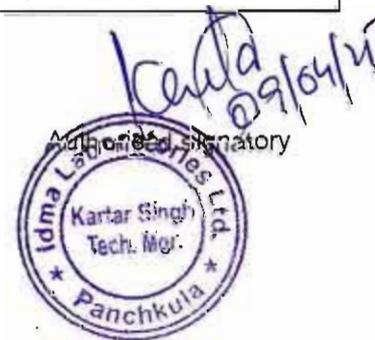


TEST REPORT

Lab No.		050425L-ED-060/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	33	-	-	
9	Volumetric Flow rate	Nm ³ /hr	297.7	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.10	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.92	Max. 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.14	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report



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

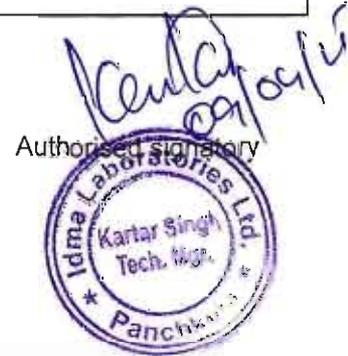
Lab No.	050425L-ED-060/B		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Cummins 500 KVA, EM005763, Plange Pool.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	2.18	Max.4.0	IS: 11255(Part -7)

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-061/A		Page No.	1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Cummins 250 KVA, EM007150 Main Office & Camp.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1016	-	-
3	Ambient Temperature	°C	32	-	-
4	Stack Temperature	°C	82	-	-
5	Velocity	m/s	12.0	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by

 Dipti Jain
 Asst. Tech. Manager

Authorised Signatory

 Kartar Singh
 Tech. Mgt.

Idma Laboratories Limited

Idma Corporate Park,
 391, Industrial Area, Phase - 1,
 Panchkula - 134113,
 Haryana (India)
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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.		050425L-ED-061/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	33	-	-	
9	Volumetric Flow rate	Nm ³ /hr	293.5	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.12	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.01	Max. 3.5	IS:13270	
12	SO2	g/kW-hr	1.04	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report

Reviewed by
Dipti Jain
Dipti Jain
Asst. Tech. Manager
Panchkula

Authorized signatory
Kartar Singh
Kartar Singh
Tech. Mgr.
Panchkula

Idma Laboratories Limited

Idma Corporate Park,
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Idma Laboratories Limited

TEST REPORT

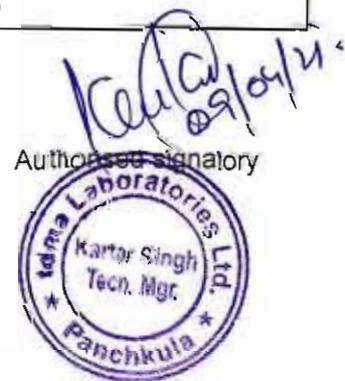
Lab No.	050425L-ED-061/B		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Cummins 250 KVA, EM007150 Main Office & Camp.			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	2.15	Max.4.0	IS: 11255(Part -7)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-062/A		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Cummins 125 KVA, EM007107, Officers Camp Padyarani			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.0762	-	-
3	Ambient Temperature	°C	32	-	-
4	Stack Temperature	°C	67	-	-
5	Velocity	m/s	12.0	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by

 Dipati Jain
 Asst. Tech. Manager
 Idma Laboratories Ltd.
 Panchkula

Authorized signatory

 Karan Singh
 Tech. Mgr.
 Idma Laboratories Ltd.
 Panchkula

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TEST REPORT

Lab No.		050425L-ED-062/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	32	-	-	
9	Volumetric Flow rate	Nm ³ /hr	306.5	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.09	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.83	Max. 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.06	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report

Reviewed By
[Signature]
Dipti Jain
Asst. Tech. Manager
Panchkula

[Signature]
09/01/25
Authorised signatory
Kartar Singh
Tech. Mgr.
Panchkula

Idma Laboratories Limited

Idma Corporate Park,
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Idma Laboratories Limited

TEST REPORT

Lab No.	050425L-ED-062/B		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Cummins 125 KVA, EM007107, Officers Camp Padyarani			
Visual Observation	N/A			
Date of Sampling	02/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	1.99	Max. 4.0	IS: 11255(Part -7)

Represents details provided by the customer.

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Reviewed by



Authorised signatory



Idma Laboratories Limited

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Idma Laboratories Limited



TEST REPORT

Lab No.	050425L-ED-063/A		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Caterpillar 250 KVA, EM002429.			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1016	-	-
3	Ambient Temperature	°C	32	-	-
4	Stack Temperature	°C	95	-	-
5	Velocity	m/s	13	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by 
Dipit Jain
Asst. Tech. Manager

Authorised Signatory


Kartar Singh
Tech. Mgr.

Idma Laboratories Limited

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.		050425L-ED-063/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	25	-	-	
8	Sampling Time	Minutes	30	-	-	
9	Volumetric Flow rate	Nm ³ /hr	306.7	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.10	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.12	Max. 3.5	IS:13270	
12	SO2	g/kW-hr	1.5	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report

Reviewed by *[Signature]*
 Idma Laboratories Ltd.
 Panchkula
 Dipti Jain
 Asst. Tech. Manager

[Signature]
 09/04/25
 Authorised Laboratory
 Idma Laboratories Ltd.
 Panchkula
 Kartar Singh
 Tech. Mgr.

Idma Laboratories Limited

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

TEST REPORT

Lab No.	050425L-ED-063/B		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/04/2025			
Period of Analysis	05/04/2025 To 09/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attach to DG Caterpillar 250 KVA, EM002429.			
Visual Observation	N/A			
Date of Sampling	01/04/2025			
Date of Reporting	09/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	2.07	Max. 4.0	IS: 11255(Part -7)

Represents details provided by the customer.

End of Report



Authorised signatory



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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