

**चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड**  
एनएचपीसी लिमिटेड (भारत सरकार का एक नवरत्न उद्यम) और जेकेएसपीडीसी (जम्मू एवं कश्मीर सरकार का एक उद्यम) का एक संयुक्त उद्यम

**Chenab Valley Power Projects Limited**

A Joint Venture of NHPC Limited (A Govt. of India Navratna 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

CVPPL/Kiru/GM(I/c)/2025/ 628

Dated: 30.11.2025

Deputy Inspector General of Forests (C),  
MoEF&CC,  
Sub-Office, Jammu  
Plot No. 379-A, Gandhi Nagar,  
Jammu (J&K)- 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 April to September 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 April to September 2025.

Thanking you,

Yours faithfully,

*Ramendra*  
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), CVPPL 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:

<u>Clearance</u>	<u>Status</u>
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 were awarded in 2020 as per following details.

<b>Civil Works Package (Lot I)</b>	Awarded to M/s Patel Engineering Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 15.06.2020.
<b>Hydro-Mechanical Package (Lot II)</b>	Awarded to M/s PES Engineers Pvt. Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 11.06.2020.
<b>Electro-Mechanical Package (Lot III)</b>	Awarded to M/s Andritz Hydro Pvt. Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 22.06.2020.

Overall physical progress of **70%** has been achieved (Sept. 2025).

### 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 financial provision of Rs. 99.56 Crore. An amount of Rs. 55.00 Crore has been deposited with the Office of Commissioner R&R, out of which an amount of Rs. 52.81 Crore has been utilised for implementation of approved Plan (i.e. **Rs. 35.0441 Cr** disbursed to eligible PAFs, **Rs. 15.54862 Cr** utilized for infrastructure development and **Rs. 2.2189 Cr** utilised for skill development of PAFs). Further, implementation of approved R&R Plan is under progress.

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*Prabha*  
SME (E.M.)

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

(for the period from March to September 2025)

1	<b>Name of Project</b>	Kiru Hydro-Electric Project (624 MW)																														
2	<b>Type of Project</b>	Hydro-Electric Project																														
3	<b>Clearance letters OM No. &amp; date</b> (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	<b>Locations</b> (a) District (s) (b) State (c) Latitude (d) Longitude	(a) Kishtwar (b) UT of Jammu and Kashmir (c) 33°20'37"N (d) 75°57'34"E																														
5	<b>Address for Correspondence</b> (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	<b>Details of Environmental Management Plan</b>	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 &amp; 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 &amp; restoration Plan</td></tr> <tr><td>9.</td><td>Air &amp; 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 &amp; 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	<b>Breakup for Project area (Land details)</b>	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	<p>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.</p> <p>(a) SC/ST/Adivasis (b) Others</p>	<p>No of affected villages : 03 Displaced PAFs : 93 Non Displaced PAFs : 66 Total PAFs : 159</p> <p>(a) Scheduled Tribe : 140 families</p> <p>PAF details as per title verification by Revenue Department for final disbursement of compensation and R&amp;R benefits:</p> <p>Displaced PAFs : 92 Non Displaced PAFs : 59 Total PAFs : 151 Scheduled Tribe : 69 families</p>																																														
9	<p>Financial Details</p> <p>(a) Project cost as originally planned and subsequent revised estimates and the year of price reference</p> <p>(b) Actual expenditure incurred on the Project so far</p> <p>(c) Allocation made for Environment Management Plan</p> <p>(d) Actual expenditure incurred on EMP so far</p>	<p>TEA approved cost :Rs. 4640.88 Cr (Sept 2014 PL) CCEA approved cost :Rs. 4287.59 Cr (July 2018 PL)</p> <p>Actual expenditure: Rs. 2999.80 Crore (till Sept. 2025)</p> <p>Allocations for EMP: Rs. 162.43 Crore (as approved by MoEF&amp;CC)</p> <p>Actual expenditure incurred on EMP (till Sept. 2025):</p> <table border="1" data-bbox="722 907 1465 1653"> <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&amp;R Plan (deposited with Commissioner R&amp;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 &amp; Restoration Plan</td> <td>0.46</td> </tr> <tr> <td>vii.</td> <td>Public Health Delivery System*</td> <td>438.50</td> </tr> <tr> <td>viii.</td> <td>Energy Conservation Measures*</td> <td>1043.27</td> </tr> <tr> <td>ix.</td> <td>Muck Disposal Plan</td> <td>456.84</td> </tr> <tr> <td>x.</td> <td>Air &amp; Water Management Plan* #</td> <td>18.37</td> </tr> <tr> <td>xi.</td> <td>Solid Waste Management Plan*</td> <td>373.10</td> </tr> <tr> <td>xii.</td> <td>Disaster Management Plan</td> <td>141.66</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Total</b></td> <td><b>11795.54</b></td> </tr> </tbody> </table> <p>* Includes the expenditure incurred by Contractor as per the Contract Agreement.</p> <p># Reflects only the expenditure on air, water and noise quality monitoring and does not include the expenditure of Rs. 439.11 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	0.46	vii.	Public Health Delivery System*	438.50	viii.	Energy Conservation Measures*	1043.27	ix.	Muck Disposal Plan	456.84	x.	Air & Water Management Plan* #	18.37	xi.	Solid Waste Management Plan*	373.10	xii.	Disaster Management Plan	141.66	<b>Total</b>		<b>11795.54</b>
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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&amp;K Forest Corporation. The diverted forest land has been taken over from Forest Department on 14.03.2018.</p>																																														

11	Status of Construction (a) Date of commencement (actual and/or planned) (b) Date of completion (actual and/or planned)	(a) Date of commencement of major works of the Project : 24.02.2020. (b) Date of completion: December 2026.
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	Details of Site visits (a) By Monitoring Committee  (b) By Regional Office	<p style="text-align: center;">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&amp;CC and thereafter a Show Cause Notice dated 24.10.2024 was issued by MoEF&amp;CC.</p> <p>Point-wise reply to Show Cause Notice was submitted to MoEF&amp;CC vide letter dated 22.11.2024.</p> <p>Subsequently, Deputy Director, Sub Regional Office, Jammu again conducted site inspection on 11.07.2025 and has submitted the SCN Review Report to MoEF&amp;CC on 01.09.2025.</p>
14.	Brief note on the status of compliance of the conditions stipulated by MOEF&CC	Details are enclosed as <b>Annexure-II</b> .

*Manoj*  
SM(E&C)

## ANNEXURE-II

## STATUS OF COMPLIANCE OF THE CONDITIONS STIPULATED BY MoEF&amp;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
	<b>Specific conditions</b>	
i	<p>The Catchment Area Treatment Plan (CAT) as has been proposed in the EMP shall be strictly implemented in consultation with the J&amp;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>	<p>Being Complied.</p> <p>The CAT Plan was got revised (through a NABET accredited consultant) in consultation with Forest Department and Soil &amp; Water Conservation Department, as per the instructions of PCCF (HoFF), J&amp;K Forest Department and the same was submitted to J&amp;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&amp;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. The requisitioned funds were deposited into CAMPA Account on 26.03.2025.</p> <p>As per Minutes of review meeting chaired by PCCF (HOFF), J&amp;K Forest Department held on 22.08.2025, the plan stands approved by Executive &amp; Steering committees of J&amp;K CAMPA and has been submitted to National CAMPA for approval, which is awaited <b>(Annexure-II-a)</b>.</p> <p>National CAMPA is yet to transfer funds to J&amp;K CAMPA. Implementation of Plan shall start upon approval by National CAMPA and transfer of funds to J&amp;K CAMPA.</p> <p>Forest Department has been requested to provide current status vide letters dated 14.07.2025 and 28.10.2025. <b>(Annexure-II-b)</b></p>
ii	<p>R&amp;R benefits for the land losing households will be as per NRRP-2007 &amp; J&amp;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&amp;R issues shall be completed before commissioning of the project.</p>	<p>Being Complied</p> <p>The R&amp;R plan of Kiru HE Project was approved by Govt. of J&amp;K vide order dated 07.03.2019 upon the recommendation of Empowered Committee. The Deputy Commissioner, Kishtwar was also appointed as Commissioner R&amp;R for implementation of the approved plan vide the same Govt. Order.</p> <p>R&amp;R Plan, as approved by GoJK, is being implemented by Commissioner R&amp;R appointed by</p>

S.No.	Conditions	Compliance Status
		<p>GoJK.</p> <p>Approved cost of R&amp;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><b>Implementation of R&amp;R Plan:</b> An amount of Rs. 55.00 Crore stands deposited with Commissioner R&amp;R (upon requisition from Commissioner R&amp;R) for implementation of the approved plan. Out of this, an amount of <b>Rs. 52.81 Crore</b> has been utilized for R&amp;R Plan implementation by the office of Commissioner R&amp;R (i.e. <b>Rs. 35.0441 Cr</b> disbursed to eligible PAFs, <b>Rs. 15.54862 Cr</b> utilized for infrastructure development and <b>Rs. 2.2189 Cr</b> utilised for skill development of PAFs).</p> <p><b>Infrastructure Development Component:</b> All the works (<b>21 nos.</b>) under Infrastructure development component for total amount of Rs. 2887.00 lacs were approved by the Empowered Committee, out of which <b>13 works</b> costing <b>1333.64 lacs</b> have been completed and remaining <b>08 works</b> are under different stages of execution. Against, total approved cost of Rs. 2887.00 lacs an amount of <b>Rs. 1554.862 lacs</b> has been utilized.</p> <p><b>Skill Development Component:</b> Implementation of <b>skill development plan</b> is in progress and so far an amount of <b>Rs. 2.2189 Cr</b> has been utilised for skill development of PAFs.</p> <p>Skill mapping was conducted by District Administration wherein <b>64 PAFs</b> (24 males and 40 females) gave consent for undergoing various training courses viz. plumber (09), electrician (09), COPA (04), Crochet work (20), Cutting &amp; Tailoring (20 through Handicrafts Deptt. and 01 through ITI), Anaesthesia Technician (01). Out of these, <b>62 PAFs</b> are undergoing training.</p> <p>The details as received from Commissioner R&amp;R/Deputy Commissioner Kishtwar are enclosed as <b>Annexure-II-c.</b></p>
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>Being complied.</p> <p>GoJK constituted the Empowered Committee under the chairmanship of Chief Secretary, GoJK for</p>

S.No.	Conditions	Compliance Status
		<p>finalization, monitoring and implementation of R&amp;R Plan of Kiru HE Project vide G.O. No. 1088-GAD of 2017 dated 24.08.2017.</p> <p>Implementation of R&amp;R Plan is being reviewed from time to time by Disaster Management, Relief, Rehabilitation and Reconstruction (DMRR&amp;R) Department, GoJK as well as by the Chief Secretary GoJK and the Empowered Committee so as to expedite the implementation of approved R&amp;R Plan. The Meeting Notices and Minutes of various review meetings held in recent past are attached as <b>Annexure-II-d</b>.</p> <p>As informed by Commissioner R&amp;R, the admissible individual R&amp;R benefits stand disbursed to the eligible PAFs. The details as received from Commissioner R&amp;R/Deputy Commissioner Kishtwar are attached above as <b>Annexure-II-c</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>Implementation of R&amp;R Plan is being regularly monitored/ reviewed by the Principal Secretary, Department of Disaster Management, Relief, Rehabilitation &amp; Reconstruction, GoJK and also by the Chief Secretary, UT of J&amp;K. In this regard, the Meeting Notices and Minutes of various review meetings held in recent past are attached herewith as <b>Annexure-II-d</b>.</p> <p>Project has requested Deputy Commissioner Kishtwar for constitution of the monitoring committee as per specified EC condition (<b>Annexure-II-e</b>).</p>
v	All the commitments made during the public hearing should be fulfilled completely by project proponent and record maintained.	<p style="text-align: center;"><b>Being Complied</b></p> <p>R&amp;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&amp;R Plan includes a provision of Rs. 28.87 Crore earmarked for development of infrastructure and social &amp; community development activities in the local area. Accordingly, the Local Area Development Plan was formulated by DC Kishtwar (i.e. Commissioner R&amp;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 were approved by the Empowered Committee, out of which 13 works costing 1333.64 lacs have been completed and remaining 08 works are</p>

S.No.	Conditions	Compliance Status
		<p>under different stages of execution. Against, total approved cost of Rs. 2887.00 lacs an amount of Rs. <b>1554.86</b> lacs has been utilized.</p> <p>The details as received from Commissioner R&amp;R/Deputy Commissioner Kishtwar are attached above as <b>Annexure-II-c</b>.</p>
vi	<p>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 &amp; 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>	<p>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	<p>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 &amp; 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 any other purpose.</p>	<p>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. Further, plantation for restoration of muck disposal sites is also in progress.</p>
viii	<p>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>	<p>Complied</p> <p>An amount of Rs 9.446 Crore was deposited with J&amp;K Forest Department for diversion of 82.05 Ha of Forest land including Rs. <b>1.1487</b> 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	<p>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</p>	<p>Being complied</p> <p>Presently the project construction works are in full swing and sites/locations are not available for green belt development. However, plantation activities are being carried out at the available places in project area.</p>

S.No.	Conditions	Compliance Status
x	<p>for any other purpose.</p> <p>Proposed Biodiversity Conservation &amp; 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> <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.</p>	<p>Being Complied</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 was deposited into CAMPA Account on 25.11.2024.</p> <p>As per Minutes of review meeting chaired by PCCF (HOFF), J&amp;K Forest Department held on 22.08.2025, the plan stands approved by Executive &amp; Steering committees of J&amp;K CAMPA and has been submitted to National CAMPA for approval, which is awaited <b>(Annexure-IIa)</b>.</p> <p>National CAMPA is yet to transfer funds to J&amp;K CAMPA. Implementation of Plan shall start upon approval by National CAMPA and transfer of funds to J&amp;K CAMPA.</p> <p>Forest Department has been requested to provide current status vide letters dated 14.07.2025 and 28.10.2025. <b>(Annexure-II-f)</b></p> <p>Shall be complied</p> <p>The reservoir rim treatment works shall be completed prior to reservoir filling.</p>
xi	<p>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 should be fully utilized for this purpose and shall not be diverted for any other purpose.</p>	<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&amp;K Fisheries Department vide letter dated 31.05.2024, in pursuance to which full amount of Rs. 798.59 lacs was released in favour of J&amp;K Fisheries Department on 22.07.2024.</p> <p>The matter is being regularly pursued with Fisheries Department for implementation of the Plan.</p> <p>Status of implementation received from J&amp;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 acquisition of land <b>(Annexure-II-g)</b>.</p>

S.No.	Conditions	Compliance Status
		Fisheries Deptt. has been requested to provide current status vide letters dated 14.07.2025 and 28.10.2025 ( <b>Annexure-II-h</b> ).
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.	Complied 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 91 <sup>st</sup> meeting of EAC).
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.	Shall be complied The stipulated seasonal e-flows, as specified in the EC letter shall be maintained during Project operation.
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.	Shall be complied with release of the stipulated e-flows during Project operation.
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.	Being complied Skill mapping of the Project Affected Families was carried out and accordingly, the Skill Development Plan was got formulated through consultant. The Skill Mapping and Development Plan was submitted to Commissioner R&R, Kiru HEP (Deputy Commissioner, Kishtwar) on 28.09.2019. The plan is being implemented as a component of R&R Plan by Commissioner R&R i.e. Dy. Commissioner, Kishtwar. An amount of Rs. 17.48 Crore is available in the approved R&R plan for implementation of Skill Development Plan, out of which, an an amount of <b>Rs. 2.2189 Cr</b> has been utilised for skill development of PAPs. As per the latest information available from Commissioner R&R a total of <b>64 PAPs</b> (24 males and 40 females) gave consent for undergoing various training courses viz. plumber (09), electrician (09), COPA (04), Crochet work (20), Cutting & Tailoring (20 through Handicrafts Deptt. and 01 through ITI), Anaesthesia Technician (01). Out of these, <b>62</b> are undergoing training. The details are provided above as <b>Annexure-II-c</b> .

  
/sm(2m)

S.No.	Conditions	Compliance Status
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.	Being Complied. 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
<b>General Conditions</b>		
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.	Being complied The provision is included in the contract agreement with major works contractor and is being implemented accordingly by the contractor. Common mess facilities have been established by the Contractor for labourers wherein LPG is being used as fuel. Contractor is providing free fuel (LPG) in these common mess facilities.
ii	Medical facilities as well as recreational facilities shall also be provided to the labourers.	Being complied 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. 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.
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 Health 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.

*[Signature]*  
SM (Envr.)

S.No.	Conditions	Compliance Status
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.	<p style="text-align: center;">Being complied</p> <p>The same has been included in the contract agreement and is being complied by the Contractor.</p> <p>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.</p> <p>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.</p>
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.	<p style="text-align: center;">Being complied</p> <p>The restoration works have been started, as per site availability, and are in progress.</p> <p>Plantation is also being carried out at available sites to develop greenery in project area.</p>
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.	<p style="text-align: center;">Being complied</p> <p>The sampling &amp; monitoring of environmental quality parameters at Project sites for Ambient Air quality, Water quality and Noise levels is being carried out through accredited laboratory. The latest monitoring reports of environmental quality parameters are enclosed herewith as <b>Annexure-III</b>.</p>
viii	Solid waste management & sanitation facility will have to be provided for the labour force.	<p style="text-align: center;">Being complied</p> <p>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.</p> <p>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 waste/metal waste is being recycled by the contractor through scrap dealers.</p>
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 style="text-align: center;">Being Complied</p> <p>The DMP approved as part of EMP is linked with commissioning of the project as the same was formulated (and approved by MOEF&amp;CC) considering the dam breach scenario.</p>

S.No.	Conditions	Compliance Status
		<p>Three Early Flood Warning Systems (EFWS) have been installed upstream of Kiru HE Project at following locations:</p> <ul style="list-style-type: none"> <li>i. Village Layee in Gulabgarh, Padder (about 20Km upstream of Kiru Dam Axis).</li> <li>ii. Village Gulabgarh, Padder (on river Chenab about 29Km upstream of Kiru Dam Axis).</li> <li>iii. Village Massu, Padder (on Bhut Nallah about 33Km upstream of Kiru Dam Axis).</li> </ul> <p>The EFWSs provide real time online information regarding the water levels and water discharge.</p> <p>Further, three V-SAT communication systems have also been installed (one at Kishtwar, one at project site Pathernakki and one at village Layee) for maintaining proper communication link in case of disasters.</p> <p>Control Room has been established at Project level. Further, District Disaster Management Plan is already in place under the designated DDMA (with District Level Control Room and designated Disaster Response Committees).</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 style="text-align: center;">Complied</p> <p>EMC has been constituted on 25.05.2018.</p>
<b>Other Conditions mentioned in the EC Letter</b>		
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

*Prerna*  
/Sm(Em)

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/ZilaParishad/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 <a href="http://www.moef.nic.in">http://www.moef.nic.in</a> .	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. The site inspections have been conducted by MoEF&CC IRO, Jammu in May 2024 and July 2025.

S.No.	Conditions	Compliance Status
		<p>Site inspection was also conducted by Conservator of Forests, Chenab Circle, Doda on September 2024. Further, the implementation of environmental safeguards is also being regularly reviewed by Divisional Officer, J&amp;K Pollution Control Committee; DFO, Kishtwar; Assistant Director, Fisheries and other officials through regular site visits.</p>

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*Palme*  
/SM(Env.)

Office Address  
Srinagar Office : Forest Complex, Shiekh  
Bagh, Lal Chowk, Sgr-190001

Phone: 0194-2483937

Jammu Office : Forest Resource Mgmt. Centre,  
Narwal Jammu-180006

Phone: 0191-3511909



URL Address: [www.jkforest.gov.in](http://www.jkforest.gov.in)

E-mail: [pccf.for-jk@nic.in](mailto:pccf.for-jk@nic.in)



**Jammu & Kashmir Forest Department**  
**Office of the Pr. Chief Conservator of Forests & HoFF**  
**Government of Jammu & Kashmir**

**Minutes of Meeting held under the Chairmanship of Mr. Suresh K. Gupta, IFS, PCCF (HoFF), J&K on 22-08-2025 at Forest Resources Management Complex, Jammu to review the progress regarding implementation of Catchment Area Treatment plan, Wildlife Management and Biodiversity Plans of Pakul, Kiru and Kwar Hydro Electric Projects.**

The meeting was held under the Chairmanship of Mr. Suresh K. Gupta, IFS, PCCF & HoFF, J&K to review the progress regarding implementation of aforementioned Plans of Pakul, Kiru and Kwar Hydro Electric Projects in Chenab circle.

The following Officers attended the meeting:

1. Mr. T. Rabi Kumar, Pr.CCF /CEO CAMPA.
2. Mr. Sandeep Kujur, IFS, PCCF/Director, Soil & Conservation Departments
3. Dr. K. Anandh, IFS, Chief Conservator Forests, Central (Link Officer, FCA).
4. Dr. M.K. Kumar, IFS, Chief Conservator Forests, Jammu.
5. Dr. Arashdeep Singh, IFS, Conservator of Forests, Chenab Circle, Doda
6. Mr. Ramesh Mukhiya, Managing Director, Chenab Valley Power Projects Ltd
7. Mr. Mahesh Thakur, Divisional Forest Officer, Kishtwar
8. Mr. Vishal Choudhary, Divisional Forest Officer, Marwah
9. Mr. Khalid Mehmood Balwan, I/c District Soil Conservation Officer, Doda
10. Mr. Brahmeshwar Kumar, Representative of Pakul Dul HEP
11. Dr. Ravi Sharma, Representative of Kiru HEP
12. Mr. Baljeet Singh, Representative of Kwar HEP

Chief Conservator of Forests, Central welcomed the participants and initiated the discussion giving a brief of the progress of various plans. The CEO CAMPA briefed about the Annual Plans prepared along with financial requirement of the plans. The project wise discussions held are as under:

(A) **Pakul Dul HEP**

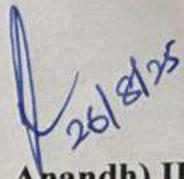
- i.** **Catchment Area Treatment Plan of Pakul Dul HEP:** It was informed by Director, Soil & Water Conservation Department that APO of Rs. 8.95 Crore has been approved for the year 2025-26. He further informed that Administrative Approvals and Technical Sanctions are under progress and shall be issued within a week. It was suggested that consolidated tenders of works of a location should be preferred for timely execution of works. It was also suggested to ensure that tenders be floated in the 1<sup>st</sup> week of September, 2025.
- ii.** **Biodiversity Conservation Plan of Pakul Dul HEP:** It was informed by DFO Marwah that works were executed under Biodiversity Plan and Rs. 4.30 Crore stands utilized. For the current year, tenders for 62 works have been floated and he assured that the works shall be executed in-time.
- iii.** **Wildlife Management Plan:** It was informed that Rs. 20.80 lakhs have been utilized till now. For current year, the works program has already been approved by Central CAMPA Authority and the funds stand also released to Department of Wildlife Protection – Implementing Agency.

(B) **Kiru and Kwar HEPs:**

It was informed that Catchment Area Treatment and Biodiversity Conservation Plans of Kiru and Kwar Hydro Electric Projects were

approved by Executive and Steering Committees of J&K CAMPA, and stand submitted to the National CAMPA for approval. The approval from the National CAMPA is awaited. Further, it was informed that funds in respect of Catchment Area Treatment and Biodiversity Plans of Pakul, Kiru and Kwar HEPs were deposited by the CVPP with National CAMPA account. The National CAMPA is yet to transfer the funds to J&K CAMPA. It was decided that CEO National CAMPA be approached for early release of the funds to J&K CAMPA.

The meeting ended with a Vote of Thanks to the Chair.

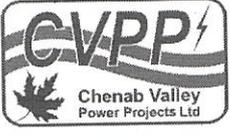
  
(Dr. K. Anandh) IFS  
Chief Conservator of Forests  
Central

No: PCCF/FCA/CATPlan/3034-43

Dated: 26-08-2025

Copy to:

1. PCCF/Chief Wildlife Warden, J&K
2. Pr.CCF /CEO CAMPA.
3. PCCF/Director, Soil & Conservation Departments
4. Chief Conservator Forests, Jammu.
5. Conservator of Forests, Chenab Circle, Doda
6. Managing Director, Chenab Valley Power Projects Ltd
7. Divisional Forest Officer, Kishtwar
8. Divisional Forest Officer, Marwah
9. I/c District Soil Conservation Officer, Doda
10. Sr. PS to Pr.CCF & HoFF J&K for kind information of the Pr.CCF & HoFF J&K.



# चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

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

## Chenab Valley Power Projects Limited

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

सीआईएन / CIN: U40105JK2011GOI003321

### Annexure-II-b

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

CVPPL/Kiru/GM(I/c)/2025-26/ 548

Dated: 28.10.2025

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

**Sub: Kiru HE Project – Implementation Status of Catchment Area Treatment (CAT) Plan.**

**Ref: 1. Letter No. CVPPL/Kiru/GM(I/c)/2024/1007 dated 28.03.2025.**

**2. Letter No. CVPPL/Kiru/GM(I/c)/2025/277 dated 14.07.2025.**

Sir,

An amount of Rs. 1883.27 lacs was deposited in CAMPA Account on 26.03.2025 for implementation of the Catchment Area Treatment (CAT) Plan of Kiru HE Project (624MW).

The current status of implementation of the Plan has been sought by Sub-Office Jammu (Integrated Regional Office) of MoEF&CC during recent inspection of Project conducted on 11.07.2025. Further, the current status is also required to be submitted to MoEF&CC through the Six Monthly Environment Clearance Compliance Report which is due for submission.

In this regard, it is requested that the current status of implementation of CAT Plan of Kiru HE Project (physical and financial progress) may kindly be intimated for onward submission to MoEF&CC, Govt. of India.

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), CVPPL for information please.
4. DM(IT)-MD Sectt., CVPPL 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

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

CVPPL/Kiru/GM(I/c)/2025/ 277

Dated: 14.07.2025

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

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In this regard, it is requested that the current status of implementation of CAT Plan of Kiru HE Project (physical and financial progress) may kindly be intimated for onward submission to MoEF&CC, Govt. of India.

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 information of the Managing Director.

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 as on 13-10-2025- **Rs. 5281.162 Lakh** (individual benefits=Rs. 3504.41 Lakh & LADP = Rs. 1554.862 Lakh & Rs. 221.89 lakh in Skill Dev Plan )
- 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 13-10-2025	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.	
	<b>Total</b>	<b>5320.33</b>	<b>3519.41</b>	<b>3504.41</b>		

## 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, 13 works costing Rs. 1333.64 Lakh have been completed and remaining 08 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.
- Funds utilized as on date Rs. 221.89 lakh.

## 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, computer operator etc. Pertinently, a total of 64 persons (24 Males & 40 Females) have given consent for undergoing various training courses (**Annexure B**).
- The ITI Kishtwar has started training of 09 No. of identified unemployed persons for Plumber course and 09 No. of identified unemployed persons for Electrician course and 04 number of identified unemployed youth for COPA. Moreover, training in other trades shall also start soon (**Annexure B**).
- Training of 20 No. of females in crochet work & 20 No. of females in cutting & tailoring work through Handicrafts Department has been started. (**Annexure B**).
- CMO Kishtwar has organized the counseling and the forms of the eligible candidates for admission in various courses under Para Medical have been filled in. As per the Nursing Council, the left out seats will be allotted to these candidates Pertinently, Paramedical Courses will be started once counseling by JKBOPEE is completed.

- 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 selection of the Agency(s) shall be done through a transparent process. The Mission Yuva data has been complied and accordingly a team headed by ADC Kishtwar, CPO Kishtwar, Principal ITI Kishtwar, AD Employment, HQA to DC Kishtwar and two members of NSDC representatives has been constituted for floating EoI and other modalities for imparting skill training to the mapped unemployed youths of affected areas of the Projects. 06 response received for the EoI and same has been opened/ allotted on 11-08-2025.
- 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, the 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 in the future.
- *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 trained in trades 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 13-10-2025 (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 PAFs (Project Affected Families)	450.00	0.00	Tender issued, at Technical bidding will be opned on 19-10-2025
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 centres (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	Work completed
9		f. Sports and re creational infrastructure for youth in affected area (project name:indoor sports stadium and park)	400.00	184.00	45 % 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. 204.80Lakh JKPDCL work- Rs. 25.00Lakh	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, Nawatnoo 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	Work in Progress. Land levelling in 4 days. Procurement of Equipments on-going.
17		Bore-well @05 numbers (few in project affected families sites)	92.15	0.00	Work allotted. Work was started. PHE to provide more sites
18		Community Hall at Kishtwar	179.50	100.00	Consultancy tender allotted.
19	Miscellaneous Development Activities	Transformer and allied infrastructure for PHC Kiru (creation of 63KV sub-station at PHC Kiru)	5.00	0.00	80% completed. To be completed in 10 days.
20		Providing of Grid connectivity to habitation of Chicha (Horta area)	36.90	0.00	35 % completed. will be completed before Dec 2025
21		Road connectivity for PHC Kiru including cost of land	59.43	0.00	Allotted & work started
<b>Total</b>			<b>2887.00</b>	<b>1554.862</b>	

**DETAILS OF BENEFICIARIES WHO HAVE OPTED FOR SKILL DEVELOPMENT PLAN (ITI)**

S.No	Details of PAFs			Course Details after counseling at ITI	Site for training	Remarks
	Displaced	Non Displaced	Total			
1.	92	59	151	1. Plumber-09	ITI, Kishtwar	Course started w.e.f 20.05.2025
2.				1. Electrician - 09		Course started w.e.f 23.05.2025
3.				1. COPA (Computer Operator)-04		Course started w.e.f 17.07.2025
4.				1. Cutting & Tailoring-01		Other beneficiaries identified to undergo training.

{Male beneficiaries-23 (09 Plumber, 09 Electrician, 04 COPA, 01 Other Beneficiary); Female Beneficiaries-NIL}

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

S.No	Details of PAFs			Course Details/No. of Beneficiaries	Buildings available at project site/ rehabilitation site for training	Remarks
	Displaced	Non Displaced	Total			
1.	92	59	151	1. Crochet Craft-20 2. Cutting & Tailoring - 20	Galhar Bhata (02 centres)	02 instructors, (one each for the two courses) appointed & training course started.

{Male beneficiaries-NIL; Female Beneficiaries-40(Crochet Craft-20, Cutting & Tailoring-20)}

**DETAILS OF BENEFICIARIES WHO HAVE OPTED FOR SKILL DEVELOPMENT PLAN (HEALTH DEPARTMENT)**

S.No	Details of PAFs			Course Details	Remarks
	Displaced	Non Displaced	Total		
1.	92	59	151	Anesthesia Tech.-01	<ul style="list-style-type: none"> <li>CMO Kishtwar has organized the counseling and the forms of the eligible candidates for admission in various courses under Para Medical have been filled in. As per the Nursing Council, the left out seats will be allotted to these candidates Pertinently, Paramedical Courses will be started once counseling by JKBOPEE is completed.</li> </ul>

{Male beneficiaries-01; Female Beneficiaries-NIL}

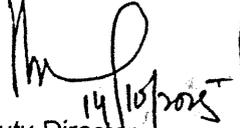
Total Beneficiaries (Male=24, Female=40) for undergoing Skill Development= 64 (ITI=22, Handicrafts=40, Health=01, Other Beneficiary=01).

Meeting Notice

**Subject: Proactive Governance and Timely Implementation (PRAGATI)-Part-II.**

The preparatory meeting on the above captioned subject under the chairmanship of Chief Secretary which was scheduled on **16.10.2025 at 5.00 PM** (copy enclosed) has been **re-scheduled and shall now be held on 17.10.2025 (Friday) at 5.30 PM.**

The venue and agenda for the meeting shall remain the same.

  
Deputy Director,  
PD&MD.

No. PD&MD/PRAGATI/2021

*SM (Em?)  
Am (Feb?)*  
*J 14/10/2025*  
Dated: 14.10.2025

Copy to the:

1. Financial Commissioner (Additional Chief Secretary), Jal Shakti Department.
2. Financial Commissioner (Additional Chief Secretary), Agriculture Production & Farmer's Welfare Department./Power Development Department
3. Financial Commissioner (Additional Chief Secretary), PW (R&B) Department.
4. Principal Secretary to Government, Disaster management, Relief, Rehabilitation & Reconstruction Department.
5. Principal Secretary to Government, Finance Department.
6. Commissioner/Secretary to Government, Forest, Ecology & Environment Department.
7. Principal Chief Conservator of Forests, J&K.
8. Secretary to Government, Science & Technology Department
9. Secretary to Government, Tribal Affairs Department
10. Secretary to Government, Revenue Department
11. Divisional Commissioner Jammu.
12. Secretary to Government, Information Technology Department
13. Divisional Commissioner, Kashmir
14. Director General, Economics & Statistics, J&K.
15. Deputy Commissioner, Jammu/Poonch/Rajouri/Kishtwar/Baramulla/Reasi/Ganderbal (Through VC).
16. MD, JKSPDC/CVPP/L/Rattle
17. Director, Fisheries, J&K
18. Director Planning (PFD), PD&MD
19. Chief Engineer, Project Beacon
20. Chief Engineer, Project SAMPARK
21. Executive Director, NHIDCL Jammu/Srinagar
22. Executive Director, NHPC
23. General manager, BSNL
24. State Informatics Officer (SIO), NIC with the request to make necessary arrangements for the Video Conference on the scheduled date and time.
25. Director Estates with the request to make the meeting halls available for said meeting on scheduled date and time.
26. Director Finance, PD&MD for favour of information.
27. Pvt. Secretary to Chief Secretary for kind information of the Chief Secretary.
28. Pvt. Secretary to Financial Commissioner (ACS), Planning, Development & Monitoring Department for kind information of ACS.
29. Network Manager in the office of Chief Secretary for favour of information.

Meeting Notice

Subject: Proactive Governance and Timely Implementation (PRAGATI)-Part-II.

The Chief Secretary, J&K has desired to convene a preparatory meeting on 16.10.2025 at 5:00 PM (Thursday) in the Committee Room 3<sup>rd</sup> Floor Civil secretariat Srinagar to review the following Projects/Programmes/Schemes, which are likely to be discussed during the forthcoming PRAGATI session, scheduled on 29<sup>th</sup> October, 2025 to be chaired by the Hon'ble Prime Minister :

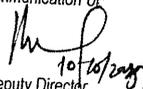
1. Jal Jeevan Mission (JJM)
2. PMKSY-Minor Irrigation-(Har Khet Ko Pani-HKKP)
3. PMKSY-Major Irrigation (Accelerated Irrigation Benefit Programme-AIBP)
4. PMKSY-PDMC (Per Drop More Crop)
5. PMKSY-MCAD (Modernization of Command Area Development)
6. Pradhan Mantri Fasal Bima Yojana (PMFBY)
7. Pradhan Mantri Matsya Sampada Yojana (PMMSY)
8. Pradhan Mantri Surya Ghar Muft Bijli Yojana
9. Revamped Distribution Sector Scheme (RDSS)
10. Kiru HEP
11. Kwar HEP
12. Ralle HEP
13. Pakal Dul HEP
14. PMGSY (Phase-I to Phase-IV)
15. Srinagar-Baramulla-Uri National Highway
16. Jammu-Akhnoor - Poonch National Highway
17. Zojila Tunnel
18. Pradhan Mantri Suraksha Bima Yojana
19. Pradhan Mantri Jeevan Jyoti Bima Yojana
20. Pradhan Mantri Jan Dhan Yojana
21. BharatNet
22. Dharti Aaba Janjatiya Gram Utkarsh Abhiyan (DAJGUA)

The undersigned is accordingly directed to request the following Administrative Secretaries/Officers to kindly attend the meeting on the scheduled date, time & venue:

1. Financial Commissioner (Additional Chief Secretary), Jal Shakti Department
2. Financial Commissioner (Additional Chief Secretary), Agriculture Production & Farmer's Welfare Department./Power Development Department
3. Financial Commissioner (Additional Chief Secretary), PW (R&B) Department.
4. Principal Secretary to Government, Disaster management, Relief, Rehabilitation & Reconstruction Department.
5. Principal Secretary to Government, Finance Department.
6. Commissioner/Secretary to Government, Forest, Ecology & Environment Department.
7. Principal Chief Conservator of Forests, J&K.
8. Secretary to Government, Science & Technology Department
9. Secretary to Government, Tribal Affairs Department
10. Secretary to Government, Revenue Department
11. Divisional Commissioner Jammu
12. Secretary to Government, Information Technology Department
13. Divisional Commissioner, Kashmir
14. Director General, Economics & Statistics, J&K.
15. Deputy Commissioner, Jammu/ Poonch/ Rajouri/ Kishtwar/ Baramulla/ Reasi/ Ganderbal (Through VC).
16. MD, JKSPDC/CVPL/Ralle
17. Director, Fisheries, J&K
18. Director Planning(PFD), PD&MD
19. Chief Engineer, Project Beacon
20. Chief Engineer, Project SAMPARK
21. Executive Director, NHIDCL Jammu/Srinagar
22. Executive Director, NHPC
23. General manager, BSNL

The officers stationed at Jammu shall attend the meeting through Video Conference from the Meeting Hall, 2<sup>nd</sup> Floor, Civil Secretariat, Jammu.

Further, the background note/ updated status of the Projects/Programmes/Schemes may kindly be sent at [jkstateplan@gmail.com](mailto:jkstateplan@gmail.com) by today (10.10.2025) positively as already requested vide this Departments communication of even No. dated 08.10.2025.

  
10/10/2025  
Deputy Director,  
PD&MD.

Distribution as above

No. PD&MD/PRAGATI/2021

Dated: 10.10.2025

Copy to the:

1. State Informatics Officer (SIO), NIC with the request to make necessary arrangements for the Video Conference on the scheduled date and time.
2. Director Estates with the request to make the meeting halls available for said meeting on scheduled date and time.
3. Director Finance, PD&MD for favour of information.
4. Pvt. Secretary to Chief Secretary for kind information of the Chief Secretary.
5. Pvt. Secretary to Financial Commissioner (ACS), Planning, Development & Monitoring Department for kind information of ACS.
6. Network Manager in the office of Chief Secretary for favour of information.



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

## Minutes of the Meeting

Minutes of the meeting of Standing Committee which has been reconstituted vide Government Order No. 691-JK(GAD) of 2025 dated 11.06.2025 & Empowered Committee(s) constituted vide Government Order Nos. 1088-GAD of 2017 dated 24.08.2017 and 1281-GAD of 2017 dated 09.10.2017 held under the Chairmanship of the Chief Secretary, UT of J&K on 30th July, 2025 at 10:30 AM in order to take decisions regarding the following agenda points:

1. Approval of works taken up under LADP component of Ratle HEPP.
2. Approval of works taken up under CSR component of Ratle HEPP.
3. Approval of Electrician and COPA courses taken up under Skill Development Components of Kiru, Kwar, Ratle & Pakal Dul HEPP(s).
4. Any other point (s) with the permission of the Chair.

The meeting was attended by the following members (including the special invitees):

1. Administrative Secretary, Jal Shakti Department.
2. Administrative Secretary, Planning, Development & Monitoring Department.
3. Administrative Secretary, Public Works (R&B) Department.
4. Administrative Secretary, Power Development Department.
5. Administrative Secretary, Department of Disaster Management, Relief, Rehabilitation & Reconstruction.
6. Administrative Secretary, Finance Department.
7. Administrative Secretary, Housing & Urban Development Department.
8. Administrative Secretary, Forest, Environment & Ecology Department.
9. Divisional Commissioner, Jammu.
10. Administrative Secretary, Department of Rural Development & Panchayati Raj.
11. Managing Director, J&K State Power Development Corporation.
12. Deputy Commissioner, Kishtwar.
13. Chief Engineer, J&K Power Development Corporation, Jammu.
14. Head of the Power Project(s) Kiru, Kwar, Pakal Dul & Ratle (Special Invitees).

At the outset, the Principal Secretary to the Government, Department of DMRR&R welcomed the participants and gave a brief about the R&R Plans of HEPPs. Thereafter, a detailed Power Point Presentation was made by the Deputy Commissioner, Kishtwar, highlighting the component wise physical & financial progress made in respect of the HEPPs. After the detailed deliberations the following decisions were unanimously taken by the Committee(s):

Agenda 1: Approval of works taken up under LADP component of Ratle HEPP.

The following works taken up under LADP component of R&R Plan of Ratle HEPP were placed before the Standing Committee for a decision:

S.No	Name of Work	Amount (Rs. in Lakh)
1.	Creation of 63 MVA, 33/11 KV Receiving Stations along with 33 KV Line Hasti Kishtwar	442.09
2.	Construction of Veterinary Complex with residential accommodation Complex with residential accommodation at Kukerwas, Tehsil Drabshalla	245.80
3.	Construction of Veterinary Complex with residential accommodation Complex with residential accommodation at Kuntwara, Tehsil Drabshalla	245.80
4.	Construction of Community Hall and Sarai Building at Drabshalla	454.67
5.	Wooden Poles replacement in Project affected areas to Block Drabshalla including Kuntwara (HT= 8km, LT = 30Km) Rs. 250.00 lakh	302.00
6.	Evacuation of 2 no. 11 KV Feeders for providing reliable power supply to affected areas I.e Saroor from Grid Station Kishtwar (HT=2 Kms) Rs. 17.00 lakh	
7.	Upgradation of Power Distribution Network in Tribal areas/Habitation of Project affected areas (HT= 150 Km, S.Station 4 X 25 KVA) Rs. 35.00 Lakh	
8.	i. Establishment of individual HD orchard/Plantation. ii. Tool Kits. iii. Administrative Cost including freight charges etc.	100.00
9.	Establishment of indoor multi facility sports stadium at Drabshalla Kishtwar a. Establishment of cricket arena and allied works at Drabshalla Kishtwar. b. Establishment of indoor boxing arena and allied works at Drabshalla Kishtwar	254.38
10.	Supply installation, testing and Commissioning of multilevel automated parking system at Drabshalla Kishtwar	493.41
11.	Establishment of Indoor Badminton Court and allied works at Trigam Kishtwar	38.54
12.	Establishment of Indoor Table tennis (multi table) and allied works at Trigam Kishtwar	39.32
13.	Establishment of Indoor Badminton Court and allied works at Sarthal Kishtwar	39.875
14.	Establishment of Indoor Table tennis (multi table) and allied works at Sarthal Kishtwar	38.98
15.	Remodeling of Govt. HS Lass. Rs. 8.05 Lakh	24.05
16.	Supply installations, Testing and Commissioning of OS enabled Educational AI Pannel in Govt. HS Lass Rs. 16.00 Lakh	
17.	Remodeling of Govt. HS Bugrana. Rs. 7.13 Lakh	23.13
18.	Supply installations, Testing and Commissioning of OS enabled Educational AI Pannel in Govt. HS Bugrana Rs. 16.00 Lakh	
19.	Remodeling of Govt. HS Drabshalla. Rs. 8.08 Lakh	29.78
20.	Supply installations, Testing and Commissioning of OS enabled Educational AI Pannel in Govt. HS Drabshalla Rs. 21.70 Lakh	
21.	Supply installations, Testing and Commissioning of OS enabled Educational AI Pannel in Govt. HS Trigam	17.80
22.	Constt of 06 rooms (3+3) double storey building at HS Drabshalla	200.01
23.	Constt of 04 rooms (2+2) Rooms DS at PS Bhatpora Badhat	128.58
24.	Constt of 03 Nos additional class rooms at GMS Badhat	47.10
25.	Repair and renovation of MS Tatani	26.84
26.	Constt of Balance Work 03 Nos additional classrooms at MS Seegat	37.08
27.	Constt of 02 No Additional Classrooms at HSS Badhat	30.70
28.	Constt of 04 rooms (2+2) double storey building at MS Bhatkoot	132.47
<b>Total</b>		<b>3392.405</b>

**Decision:**

The Standing Committee gave post-facto approval to the 28 No. of works taken up under LADP component of Ratle HEPP amounting to Rs. 3392.405 lakh. Besides, directions

were issued to the Deputy Commissioner, Kishtwar to formulate projects for the balance approved amount under the IADP component of Rattle HEPP.

Agenda 2: Approval of works taken up under CSR component of Rattle HEPP.

The following 08 works taken up & 01 work to be taken up under CSR component of Rattle HEPP were placed before the Standing Committee for a decision:

S. No.	Name of works	Amount (Rs. in lakh)
1	Erection of Pre-Fabricated Building at Tehsil office Kishtwar one stop centre for facilitation of PAFs	16.65
2	Badminton court and Indoor shooting facility	44.68
3	Construction of Single Storey Hospital Building at Drabshalla	298.09
4	Establishment of Indoor Table Tennis facility at Drabshalla	31.36
5	Construction of Zila Samik Welfare Board	296.53
6	Installation of computers in Schools of Project Affected areas of District Kishtwar	51.87
7	Installation of 63KVA Transformer along with HT/LT network for stabilization / improvement of low voltage at village Dhanota Balgran	7.64
8	Creation of new 25 KVA substation including HT/LT network at village Londhl Panchayat Bhardat	11.93
9	Construction of drain from Neelkanth Mandir to Fisheries office (NEW WORK PROPOSED)	98.63
	Total	857.38

Decision:

The Standing Committee gave post-facto approval to 08 No. of works taken up & 01 No. work to be taken up under CSR component of Rattle HEPP amounting to Rs. 857.38 lakh. Besides, directions were also issued to the Deputy Commissioner, Kishtwar to formulate projects for the balance approved amount under the said component of Rattle HEPP including exploring the necessity & possibility of setting up of a full-fledged ITI and Centre of Excellence.

Agenda 3: Approval of Electrician and COPA courses taken up under Skill Development Component of Kiru, Kwar, Rattle & Pakal Dul HEPP(s).

The detailed proposal of Electrician and COPA courses being conducted by ITI, Kishtwar amounting to Rs. 72.30 lakh and Rs. 37.05 lakh being taken up under Skill Development Plan of the 04 HEPP(s) were placed before the Committee(s) for approval.

Decision:

The Committee(s) approved the proposal and it was unanimously decided that the common expenses if any, shall be apportioned to Kiru & Rattle HEPP(s) in proportion of the approved outlays under Skill Development component considering the fact that the said projects have considerable amounts approved for the said component. More so, the individual trainee related expenses viz. hostel fee, stipend, tool kits etc. shall be utilized out of the respective HEPP(s).

Agenda 4: Approval of the Skill courses in collaboration with NSDC.

The Deputy Commissioner, Kishtwar apprised the chair that the matter has been taken up with NSDC for initiating Skill courses under Skill Development component of the 04 HEPPs. It was further informed that in the first phase, the training programmes shall target

the beneficiaries from among the Project Affected Families (PAFs), thereafter, in the second phase the Skill Development programme shall target youth at the block level in the Project Affected Areas (PAAs) of the Hydel Power Projects and lastly, in the third phase, the same shall be implemented across the entire district.

Decision:

The Committee(s) agreed to the proposal put forth by the Deputy Commissioner, Kishtwar and directions were issued that the selection process of the NSDC empanelled/recommended agencies must be done in a fair and transparent manner & the MoU(s) to be executed with the agencies should include milestone-based payment terms.

Agenda 5: Approval of Para Medical courses to be taken up under Skill Development Components of Kiru, Kwar, Ratle & Pakal Dul HEPP(s).

The Deputy Commissioner, Kishtwar informed the Chair that the Para Medical courses are likely to start shortly for the beneficiaries from among the PAFs who have opted for the same and approval is being sought from the Committee(s) in this regard.

Decision:

The Committee(s) agreed to the proposal and it was unanimously decided that the financial implications w.r.t. the eligible beneficiaries opting for Para Medical courses shall be met out of the Skill Development component of the respective HEPP(s) & common expenses, if any, shall be apportioned to Kiru & Ratle HEPP(s) in proportion of the approved outlays under Skill Development component given the fact that the said projects have considerable amounts approved for the said component.

In the closing remarks, the Chair appreciated the efforts put forth by the Deputy Commissioner, Kishtwar in the implementation of the R&R package of the 04 HEPPs. However, it was emphasized that more efforts were required to ensure that the funds approved under the various components of the HEPP(s) are utilized in timely and proficient manner.

Further, the Chair also advised Deputy Commissioner, Kishtwar that while identifying new infrastructure proposals under LADP/CSR components, it needs to be ensured that the DPRs are vetted by the Competent Authority; the land is free from all encumbrances and post completion of all the projects, the concerned Departments should take over the Operation & Maintenance (O&M) of the projects from their respective budgets.

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



Sonia Vaid  
Joint Director (P)  
Dated: 11.08.2025

No. DMRRR/Plan/19/2025

Distribution as above

Copy to the:

1. Divisional Commissioner, Jammu.
2. Managing Director, J&K State Power Development Corporation.
3. Deputy Commissioner, Kishtwar.
4. Chief Engineer, JPDCL.
5. Heads of Kiru, Kwar, Ratle & Pakal Dul HEPP(s), Kishtwar.
6. Private Secretary to Chief Secretary UT of J&K for kind information of Chief Secretary.
7. Private Secretary to Administrative Secretary, \_\_\_\_\_ Department for information.
8. Private Secretary to Principal Secretary to the Government, Department of DMRR&R for information of the Principal Secretary.
9. Office File.



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

## Meeting Notice

**Subject: Approve/Regularize the LADP and CSR works under Kiru and Ratle HEPP(s)**

Meeting of Standing Committee & Empowered Committee(s) under the Chairmanship of Chief Secretary, J&K are concurrently scheduled to be held on 19<sup>th</sup> May, 2025 at 3:30 PM in the Meeting Hall, 3<sup>rd</sup> Floor, Civil Secretariat, Srinagar in order to:

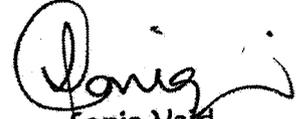
1. approve the new LADP works proposed under Kiru HEPP.
2. regularize the LADP works taken up under Ratle HEPP.
3. regularize the CSR works taken up under Ratle HEPP.
4. any other point(s) with the permission of the Chair.

The undersigned is, accordingly, directed to request the following Members of the Committee(s) to kindly make it convenient to attend the said meeting on scheduled date and time:

1. Administrative Secretary, Jal Shakti Department.
2. Administrative Secretary, Power Development Department.
3. Administrative Secretary, Department of Disaster Management, Relief, Rehabilitation & Reconstruction.
4. Administrative Secretary, Finance Department.
5. Administrative Secretary, Housing & Urban Development Department.
6. Administrative Secretary, Forest, Environment & Ecology Department.
7. Administrative Secretary, Revenue Department.
8. Administrative Secretary, Skill Development Department (Special Invitee).
9. Administrative Secretary, Planning, Development & Monitoring Department.
10. Administrative Secretary, Public Works (R&B) Department.
11. Divisional Commissioner, Jammu.
12. Administrative Secretary, Department of Rural Development & Panchayati Raj.
13. Managing Director, J&K State Power Development Corporation.
14. Deputy Commissioner, Kishtwar.
15. Chief Engineer, Power Development Corporation Limited, Jammu.
16. Head of the Power Project(s) Kiru & Ratle (Special Invitees).

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 email ([arvindraina.539@rediffmail.com](mailto:arvindraina.539@rediffmail.com)) by tomorrow positively.

The officers stationed at Jammu will attend the meeting through VC from the Meeting Hall, 2<sup>nd</sup> Floor, Civil Secretariat, Jammu.



Sonia Vaid  
Joint Director (P)  
Dated: 17.05.2025

No. DMRRR-ER/59/2021

Distribution as above

Copy to the:

1. Director Estates, Kashmir/Jammu for information and necessary action.
2. SSP, Security, Civil Secretariat, J&K, Srinagar/Jammu
3. SIO, NIC, Civil Secretariat, J&K for information and necessary action.
4. Private Secretary to the Chief Secretary, UT of J&K.
5. Private Secretary to Principal Secretary to Government, Department of DMRR&R
6. Sh. Abdul Gani (*Nazir*), Department of DMRR&R.



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, 5<sup>th</sup> 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:

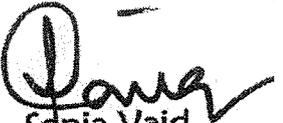
- i. Kwar Hydro Electric Project, Tehsil Nagseni, Kishtwar, J&K.
- ii. Ratle Hydro Electric Power Project, Kishtwar, J&K.
- iii. Kiru Hydro Electric Project, Kishtwar, J&K.
- iv. Pakal Dul Hydro Electric Project, Kishtwar, J&K.

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](mailto:arvindraina.539@rediffmail.com)) today positively.

The officers stationed at Jammu shall attend the meeting through VC from Meeting Hall, 1<sup>st</sup> 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.



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 2<sup>nd</sup> 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.

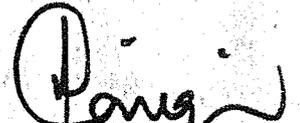
After the detailed deliberations, the following decisions were taken:

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 (CVPPPL)/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 Vaid

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.

## 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
	<b>Total</b>	<b>1354.00</b>		<b>906.09</b>		

**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 Pathernaki Rs 36.60 lakh	100.57	HSS Nagseni- Completed And HS Pathernaki -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 Pathernaki 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 re creational 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. 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). Component wise details: Road work by PWD (R&amp;B) Kishtwar -- 64.20 lakh Work to be done by Mechanical Deptt (cold storage) = Rs. 204.80 lakh 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 JPDCI. Kishtwar	147.00	Completed	Completed
		2. Education for All	98.95		
		3. Mobile Digital Theatre (MDMT) for open screening in Kishtwar	104.25		
		<b>Total</b>	<b>2233.64</b>		

**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
	<b>Total</b>		<b>552.03</b>	

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 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 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.

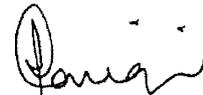
After threadbare deliberations the following decisions were arrived at:

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.



## चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

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

### Chenab Valley Power Projects Limited

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

सीआईएन/ CIN: U40105JK2011GOI003321

## Annexure-II-e

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

CVPPL/Kiru/GM(I/c)/2025-26/ 545

Dated: 28.10.2025

Commissioner R&R - Kiru HE Project &  
Deputy Commissioner, Kishtwar.

Sub: Kiru HEP – Constitution of Monitoring Committee for Rehabilitation and Resettlement.

Ref: Letter No. CVPPL/Kiru/GM(I/c)/2025/281 dated 14.07.2025.

Sir,

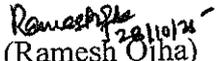
In continuation to above cited letter (copy enclosed) it is again submitted that the Environment Clearance for Kiru HE Project was accorded by MoEF&CC, Govt. of India in June 2016 stipulating the condition that – *“A monitoring Committee for R&R shall be constituted which shall include representatives of project affected persons including representative from SC/ST category and a woman beneficiary.”*

During recent inspection conducted on 11.07.2025, the Sub-Office Jammu (Integrated Regional Office) of MoEF&CC raised the observation regarding non-compliance to this condition. Further, the current status is also required to be submitted to MoEF&CC through the Six Monthly Environment Clearance Compliance Report which is due for submission.

In this regard, it is requested that the requisite R&R Monitoring Committee may kindly be constituted so that the compliance status can be intimated to MoEF&CC, Govt. of India.

Thanking you.

With warm regards,

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

Copy to:

1. Group General Manager (Planning), CVPPL for information please.
2. DM(IT)-MD Sectt., CVPPL 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

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

CVPPL/Kiru/GM(I/c)/2025/ 281

Dated: 14.07.2025

**Commissioner R&R - Kiru HE Project &  
Deputy Commissioner, Kishtwar.**

**Sub: Kiru HEP – Constitution of Monitoring Committee for Rehabilitation and Resettlement.**

Sir,

Environment Clearance for Kiru HE Project was accorded by MoEF&CC, Govt. of India in June 2016 wherein a condition was stipulated that – *“A monitoring Committee for R&R shall be constituted which shall include representatives of project affected persons including representative from SC/ST category and a woman beneficiary.”*

During recent inspection conducted on 11.07.2025, the Sub-Office Jammu (Integrated Regional Office) of MoEF&CC raised the observation regarding non-compliance to this condition.

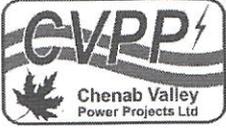
In this regard, it is requested that the requisite R&R Monitoring Committee may kindly be constituted so that the compliance status can be intimated to MoEF&CC, Govt. of India.

Thanking you.

With warm regards,

*Ramesh Ojha*  
(Ramesh Ojha)

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



## चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

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

### Chenab Valley Power Projects Limited

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

सीआईएन/ CIN: U40105JK2011GOI003321

## Annexure-II-f

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

CVPPL/Kiru/GM(I/c)/2025-26/ 547

Dated: 28.10.2025

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

**Sub: Kiru HE Project – Implementation Status of Biodiversity Conservation & Management Plan.**

- Ref: 1. Letter No. CVPPL/Kiru/GM(I/c)/2024/670 dated 28.11.2024.  
2. Letter No. CVPPL/Kiru/GM(I/c)/2025-26/13 dated 05.04.2025.  
3. Letter No. CVPPL/Kiru/GM(I/c)/2025/278 dated 14.07.2025

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).

The current status of implementation of the Plan has been sought by Sub-Office Jammu (Integrated Regional Office) of MoEF&CC during recent inspection of Project conducted on 11.07.2025. Further, the current status is also required to be submitted to MoEF&CC through the Six Monthly Environment Clearance Compliance Report which is due for submission.

In this regard, it is requested that the current status of implementation of Biodiversity Conservation & Management Plan (physical and financial progress) may kindly be intimated for onward submission to MoEF&CC, Govt. of India.

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 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

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

CVPPL/Kiru/GM(I/c)/2025/ 278

Dated: 14.07.2025

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

**Sub: Kiru HE Project – Implementation Status of Biodiversity Conservation & Management Plan.**

**Ref: 1. Letter No. CVPPL/Kiru/GM(I/c)/2024/670 dated 28.11.2024.**

**2. Letter No. CVPPL/Kiru/GM(I/c)/2025-26/13 dated 05.04.2025.**

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The current status of implementation of the Plan has been sought by Sub-Office Jammu (Integrated Regional Office) of MoEF&CC during recent inspection of Project conducted on 11.07.2025.

In this regard, it is requested that the current status of implementation of Biodiversity Conservation & Management Plan (physical and financial progress) may kindly be intimated for onward submission to MoEF&CC, Govt. of India.

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 information of the Managing Director.



**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,

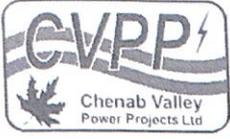
In reference to the subject and reference cited above, an amount of Rs.274.00 lacs has been transferred and placed at the disposal of Collector Land Acquisition (Sub-Divisional Magistrate) Paddar for disbursement among the rightful land owners. The formulation of DPR for establishment of Kiru HE Project 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 नवरत्न उद्यम) और जेकेएसपीडीसी (जम्मू एवं कश्मीर  
सरकार का एक उद्यम) का एक संयुक्त उद्यम

## Chenab Valley Power Projects Limited

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सीआईएन / CIN: U40105JK2011GOI003321

## Annexure-II-h

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

CVPPL/Kiru/GM(I/c)/2025-26/552

Date: 28.10.2025

The Director

J&K Fisheries Department,  
Jammu/Srinagar.

Email: [jkfdjmu@gmail.com](mailto:jkfdjmu@gmail.com)

**Sub: Implementation of Fisheries Development Plan of Kiru HE Project.**

- Ref: 1. Letter No. DF/Plg/NHPC/2024/593(B) dated 31.05.2024.  
2. Letter No. CVPPL/Kiru/HoP/2024/387 dated 06.08.2024.  
3. Letter No. ADF/Ktr/2025-26/160-63 dated 29.05.2025.  
4. Letter No. CVPPL/Kiru/GM(I/c)/2025-26/280 dated 14.07.2025

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).

Subsequently, Assistant Director Fisheries Kishtwar vide letter dated 29.05.2025 informed that an amount of Rs. 274 lacs has been released in favour of Collector Land Acquisition Padder for acquisition of the land.

It is pertinent to mention here that the implementation of Fisheries Development Plan is required to be completed prior to commissioning of the Project. As such, the Project is scheduled for commissioning in December 2026, whereas, the implementation of Fisheries Development Plan is still in its initial stage. Observation regarding delay in implementation of the Plan has also been raised during recent inspection conducted by Sub-Office Jammu (Integrated Regional Office) of MoEF&CC.

In view of above, it is requested that the implementation of Fisheries Development Plan may kindly be expedited for its timely completion coinciding with commissioning of Kiru HE Project.

Further, the final copy of approved DPR of Fisheries Development Plan along with current status of implementation thereof (physical and financial progress) may kindly be provided for onward submission to MoEF&CC, Govt. of India.

Thanking you.

With Warm Regards,

  
(Ramesh Ojha)

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

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

**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

CVPPL/Kiru/GM(I/c)/2025-26/ 280

Date: 14.07.2025

**The Director**

**J&K Fisheries Department,**

**Jammu/Srinagar.**

Email: jkfdjmu@gmail.com

**Sub: Implementation of Fisheries Development Plan of Kiru HE Project.**

**Ref: 1. Letter No. DF/Plg/NHPC/2024/593(B) dated 31.05.2024.**

**2. Letter No. CVPPL/Kiru/HoP/2024/387 dated 06.08.2024.**

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Further, the final copy of approved DPR of Fisheries Development Plan along with current status of implementation thereof (physical and financial progress) may kindly be provided for onward submission to MoEF&CC, Govt. of India.

Thanking you.

With Warm Regards,

*Ramesh Ojha*  
(Ramesh Ojha)

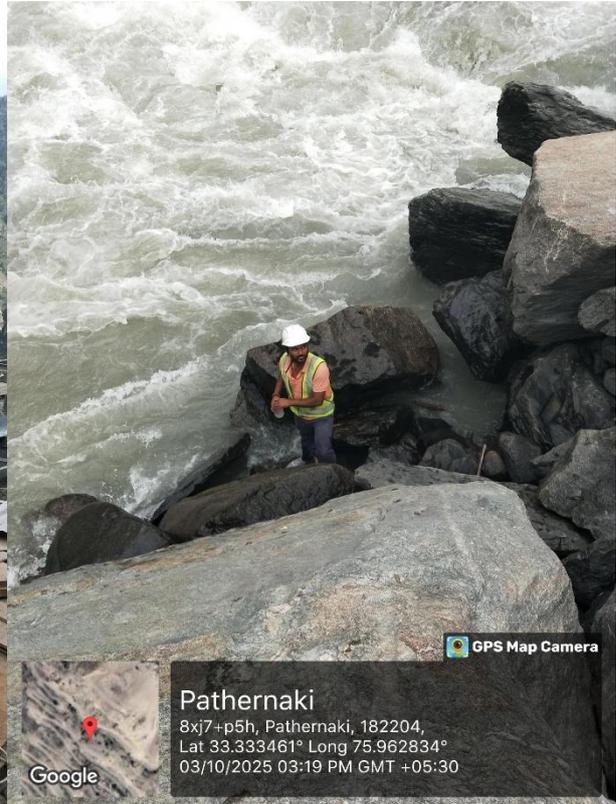
**General Manager (I/c) & HOP**  
**Kiru HE Project**

**Copy to: 1. Assistant Director, J&K Fisheries Department, Kishtwar for information please.**

**2. GGM (Planning), CVPPL for information please.**

**3. DM(IT) MD Secretariat, CVPPL for information of MD CVPPL.**

**Photographs of Air, Water and Noise Quality Monitoring**





# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-067		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 D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514		Dated 28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 13/10/2025		
Sampling Team	Idma Representative Team		Client Mr. Alok Kumar
Sampling Location#	DG Noise cummins 500 KVA, Pathernaki		
Visual Observation	N/A		
Date of Sampling	03/10/2025		
Date of Reporting	13/10/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	64.1	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	80.6	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	54.9	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.7	Min. 25	CPCB PROTOCOL JULY 2015

# 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](http://www.idmagroup.co.in)

Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

### Disclaimer :

- The Test Report is only for the sample tested.
- Samples not drawn by us unless otherwise stated.
- Total liability of Idma Laboratories Limited is limited to the invoiced amount.
- If sample(s) not consumed, they will be stored & retained as per Company Policy/ Quality System Procedure.
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- The Test Report in full or parts shall not be used for promotional or publicity purpose.
- Legal disputes are subject to Panchkula Jurisdiction only.
- Any complaint/discipancies in this Test Report Should be communicated in writing within 15 days of the dispatch of Test Report.
- In case of any dispute, the terms & conditions of Idma Laboratories Limited shall prevail.
- In case of any feedback/complaints, please send email to [testing@idmagroup.co.in](mailto:testing@idmagroup.co.in) or call at 0172 - 5064827 / 5064830



# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-068		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 D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team		Client	Mr. Alok Kumar
Sampling Location#	DG Noise Cummins 250 KVA, Main Office Camp.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	13/10/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	64.9	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	90.6	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	64.2	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	26.4	Min. 25	CPCB PROTOCOL JULY 2015

# 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.	111025L-ED-069		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 D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 13/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	DG Noise Cummins 125 KVA, Officer Camp Padyarna.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	13/10/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	70.3	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	87.3	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	61.8	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.5	Min. 25	CPCB PROTOCOL JULY 2015

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-070		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 D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team		Client	Mr. Alok Kumar
Sampling Location#	DG Noise Caterpillar 250 KVA, Officer Camp Padyarna.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	13/10/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	64.2	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	100.5	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	74.1	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	26.4	Min. 25	CPCB PROTOCOL JULY 2015

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Kartar Singh  
Tech. Mgr.



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-071		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project VIII. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	DG Noise Cummins 125 KVA, Officer Guest House Padyarna.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	13/10/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	70.5	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	97.6	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	71.9	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.7	Min. 25	CPCB PROTOCOL JULY 2015

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# Idma Laboratories Limited



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## TEST REPORT

Lab No.	111025L-ED-072		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 D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	DG Noise Cummins 500 KVA, Near TRT.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	13/10/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	69.8	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	99.1	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	72.7	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	26.4	Min. 25	CPCB PROTOCOL JULY 2015

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TC-8207

## TEST REPORT

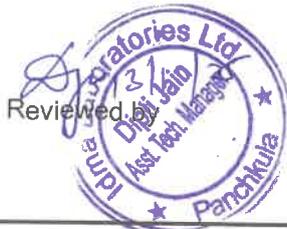
Lab No.	111025L-ED-073		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	DG Noise 125 KVA, Pool Yard.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	13/10/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	64.2	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	79.6	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	52.4	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	27.2	Min. 25	CPCB PROTOCOL JULY 2015

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# Idma Laboratories Limited



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## TEST REPORT

Lab No.	111025L-ED-073		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 D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	DG Noise 125 KVA, Pool Yard.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	13/10/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	64.2	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	79.6	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	52.4	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	27.2	Min. 25	CPCB PROTOCOL JULY 2015

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-074		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 D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	DG Noise Caterpillar 1010 KVA, Captive Power plant.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	13/10/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	67.5	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	92.3	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	66.9	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.4	Min. 25	CPCB PROTOCOL JULY 2015

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## TEST REPORT

Lab No.	111025L-ED-075	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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Worker Camp Pathernakii		
Visual Observation	N/A		
Date of Sampling	03/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	APHA 1060 B & C 24 Edition		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.65	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	154.8	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	23	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	4.7	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	1121	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	31	Max. 100	IS 3025 (Part 17)

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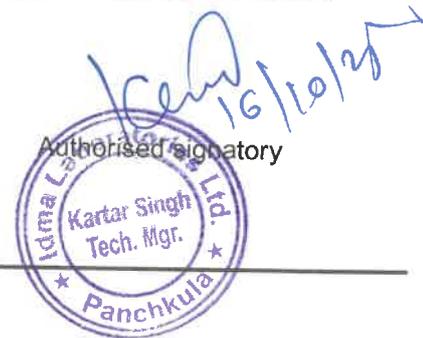
Lab No.	111025L-ED-076		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Waste Water(Mess)		
Customer's Description of Sample#	Waste Water(Mess)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Camp Near Main Office.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	APHA 1060 B & C 24 Edition		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.65	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	164.2	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	21	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	942	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	29	Max. 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Officer Camp Padyarna.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	APHA 1060 B & C 24 Edition		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.79	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	168	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	2.7	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	851	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	32	Max. 100	IS 3025 (Part 17)

# Represents details provided by the customer.

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Right Bank Dam Site Worker Camp.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	APHA 1060 B & C 24 Edition			
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	147.6	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	20	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	2.8	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	976	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	39	Max. 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-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 (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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Primary Crusher Pathemaki.		
Visual Observation	N/A		
Date of Sampling	03/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	APHA 1060 B & C 24 Edition		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	8.12	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	174.6	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	23	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	1051	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	44	Max. 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-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(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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant CP-240 Base Camp.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	APHA 1060 B & C 24 Edition		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.91	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	116.2	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	19	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.2	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	910	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	42	Max. 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-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 (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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
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	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	APHA 1060 B & C 24 Edition		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.83	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	124	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	921	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	34	Max. 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant CP-30 Base Camp.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	APHA 1060 B & C 24 Edition		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	8.03	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	168	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	21	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	1024	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	47	Max. 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-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 (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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
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	04/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	APHA 1060 B & C 24 Edition			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.91	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	170.5	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	3.5	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	641	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	28	Max. 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-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		
Customer's Description of Sample#	Waste Water		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Near Work Shop.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	APHA 1060 B & C 24 Edition		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.63	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	160.4	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	14	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.2	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	768	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	36	Max. 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-086		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 (River)			
Customer's Description of Sample#	Surface Water (River)			
Quantity#	5 Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team Idma	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Chenab River (Up-Stream)			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	APHA 1060 B & C 24 Edition			
Testing Protocol	--			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.43	IS 3025 (Part 11)
2	Alkalinity (as CaCO <sub>3</sub> )	mg/L	152	IS 3025 (Part 23)
3	Calcium (as Ca)	mg/L	31.0	IS 3025 (Part 40)
4	Chloride (as Cl)	mg/L	20.8	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	7.1	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	116	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	244	IS 3025 (Part 16)
8	Sulphate (as SO <sub>4</sub> )	mg/L	16.8	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)



Reviewed by Jyoti Jain  
Asst. Tech. Manager

Authorised signatory



Kartar Singh  
Tech. Mgr.

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**Idma Laboratories Limited**

Idma Corporate Park,

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Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

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Email : commercial@idmalab.co.in



# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.		111025L-ED-086			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	9.4	IS 3025 (Part 46)	
12	Iron as Fe	mg/L	0.011	IS 3025 (Part 53)	
13	Lead as Pb	mg/L	BLQ(LOQ-0.0005)	IS 3025 (Part 47)	
14	Manganese as Mn	mg/L	BLQ(LOQ-0.0005)	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)	
	Biological Testing (Environment & Pollution)	-	-	-	
17	Feacal Coliform	MPN/100ml	84	IS 1622:1981	

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-087		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 (River)			
Customer's Description of Sample#	Surface Water (River)			
Quantity#	5 Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team Idma	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Chenab River (Down-Stream)			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	APHA 1060 B & C 24 Edition			
Testing Protocol	--			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.62	IS 3025 (Part 11)
2	Alkalinity (as CaCO <sub>3</sub> )	mg/L	121	IS 3025 (Part 23)
3	Calcium (as Ca)	mg/L	28.9	IS 3025 (Part 40)
4	Chloride (as Cl)	mg/L	19.4	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	6.9	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	108	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	197	IS 3025 (Part 16)
8	Sulphate (as SO <sub>4</sub> )	mg/L	17.4	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)



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# Idma Laboratories Limited



## TEST REPORT

Lab No.		111025L-ED-087			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	8.75	IS 3025 (Part 46)	
12	Iron as Fe	mg/L	0.016	IS 3025 (Part 53)	
13	Lead as Pb	mg/L	BLQ(LOQ-0.0005)	IS 3025 (Part 47)	
14	Manganese as Mn	mg/L	BLQ(LOQ-0.0005)	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)	
	Biological Testing (Environment & Pollution)	-	-	-	
17	Feacal Coliform	MPN/100ml	109	IS 1622:1981	

### Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025N-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 Gases		
Customer's Description of Sample#	Noxious Gases		
Quantity#	01 No.		
Packing, Markings#	Filter paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Inside TRT (Tail Race Tunnel)		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	ILL/SOP/ENV/WZ/01:2020		
Testing Protocol	OSHA /Client specification		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION )	-	-	-	-
1	Nitrogen fumes	ppm	<0.001	Max. 0.01	NIOSH Manual Method
2	CO	ppm	7.05	Max. 50	NIOSH Manual Method
3	Hydrogen sulfide (H2S)	mg/m <sup>3</sup>	1.33	Max. 10	NIOSH Manual Method
4	CO2	ppm	1912	Max. 5000	NIOSH Manual Method
5	O2	%	21.6	19.5-23.5	NIOSH Manual Method
6	Silica (SiO2)	mg/m <sup>3</sup>	0.94	Max 10	NIOSH Manual Method

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025N-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 Gases		
Customer's Description of Sample#	Noxious Gases		
Quantity#	01 No.		
Packing, Markings#	Filter paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Inside MAT		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	ILL/SOP/ENV/WZ/01:2020		
Testing Protocol	OSHA /Client specification		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	Nitrogen fumes	ppm	<0.001	Max. 0.01	NIOSH Manual Method
2	CO	ppm	7.11	Max. 50	NIOSH Manual Method
3	Hydrogen sulfide (H <sub>2</sub> S)	mg/m <sup>3</sup>	1.2	Max. 10	NIOSH Manual Method
4	CO <sub>2</sub>	ppm	1946	Max. 5000	NIOSH Manual Method
5	O <sub>2</sub>	%	20.8	19.5-23.5	NIOSH Manual Method
6	Silica (SiO <sub>2</sub> )	mg/m <sup>3</sup>	0.86	Max 10	NIOSH Manual Method

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025N-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 Gases		
Customer's Description of Sample#	Noxious Gases		
Quantity#	01 No.		
Packing, Markings#	Filter paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Inside TC.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	ILL/SOP/ENV/WZ/01:2020		
Testing Protocol	OSHA / Client Specification		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION )	-	-	-	-
1	Nitrogen fumes	ppm	<0.001	Max 0.01	NIOSH Manual Method
2	CO	ppm	7.04	Max. 50	NIOSH Manual Method
3	Hydrogen sulfide (H2S)	mg/m <sup>3</sup>	1.31	Max. 10	NIOSH Manual Method
4	CO2	ppm	1862	Max. 5000	NIOSH Manual Method
5	O2	ppm	21.5	19.5-23.5	NIOSH Manual Method
6	Silica (SiO2)	mg/m <sup>3</sup>	0.96	Max 10	NIOSH Manual Method

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025N-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 Gases			
Customer's Description of Sample#	Noxious Gases			
Quantity#	01 No.			
Packing, Markings#	Filter paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Inside CVT.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	ILL/SOP/ENV/WZ/01:2020			
Testing Protocol	OSHA /Client specification			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION )	-	-	-	-
1	Nitrogen fumes	ppm	<0.001	Max. 0.01	NIOSH Manual Method
2	CO	ppm	6.83	Max. 50	NIOSH Manual Method
3	Hydrogen sulfide (H2S)	mg/m <sup>3</sup>	1.22	Max. 10	NIOSH Manual Method
4	CO2	ppm	1931	Max. 5000	NIOSH Manual Method
5	O2	ppm	21.7	19.5-23.5	NIOSH Manual Method
6	Silica (SiO2)	mg/m <sup>3</sup>	0.86	Max 10	NIOSH Manual Method

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\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

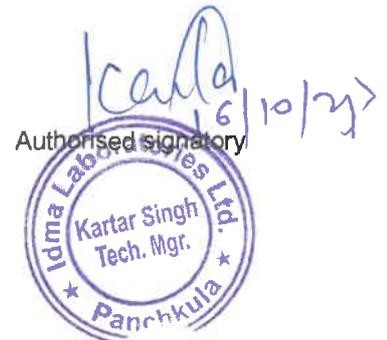
Lab No.	111025N-E-005	Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Noxious Gases		
Customer's Description of Sample#	Noxious Gases		
Quantity#	01 No.		
Packing, Markings#	Filter paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Inside APST.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	ILL/SOP/ENV/WZ/01:2020		
Testing Protocol	OSHA /Client specification		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION )	-	-	-	-
1	Nitrogen Fumes	ppm	<0.001	Max. 0.01	NIOSH Manual Method
2	CO	ppm	7.21	Max. 50	NIOSH Manual Method
3	Hydrogen sulfide (H <sub>2</sub> S)	mg/m <sup>3</sup>	1.38	Max. 10	NIOSH Manual Method
4	CO <sub>2</sub>	ppm	1912	Max. 5000	NIOSH Manual Method
5	O <sub>2</sub>	ppm	22.3	19.5-23.5	NIOSH Manual Method
6	Silica (SiO <sub>2</sub> )	mg/m <sup>3</sup>	0.97	Max 10	NIOSH Manual Method

# Represents details provided by the customer.

**\*\*End of Report\*\***



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009105F

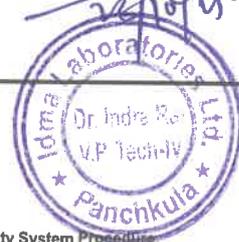
Lab No.	111025L-FD-034	Page No. 1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Drinking Water	
Customer's Description of Sample#	Drinking Water	
Quantity#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-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	11/10/2025	
Period of Analysis	11/10/2025 To 23/10/2025	
Visual Observation	N/A	
Date of Reporting	23/10/2025	
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	-	7.19	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	40.6	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.029	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	15.41	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	11.50	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 <sub>3</sub> )	mg/L	59.92	Max. 200	Max. 600	IS 3025 (Part 21) : 2009



Authorised Signatory  
*Idma*



### 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](http://www.idmagroup.co.in)

Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009105F

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	99.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO <sub>4</sub> )	mg/L	4.85	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	0.056	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	0.022	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	Sodium as Na	mg/L	1.2	-	-	IS 3025 (Part-45): 2024
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 2024
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) : 2022
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009105F

Lab No.		111025L-FD-034				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	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\*\*

Reviewed by



Authorised signatory



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009106F

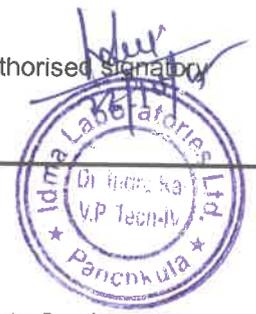
Lab No.	111025L-FD-035	Page No. 1/3	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-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	11/10/2025		
Period of Analysis	11/10/2025 To 23/10/2025		
Visual Observation	N/A		
Date of Reporting	23/10/2025		
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	-	7.41	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	44.66	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.028	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	17.12	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	12.50	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 <sub>3</sub> )	mg/L	64.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by *Ranjana* 23/10/2025

Authorised Signatory *[Signature]*



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# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009106F

Lab No.		111025L-FD-035				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	106.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO <sub>4</sub> )	mg/L	4.57	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	0.048	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	0.024	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	Sodium as Na	mg/L	1.4	-	-	IS 3025 (Part-45): 2024
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 2024
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) : 2022
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--

Reviewed by *[Signature]* 23/10/2025

Authorised signatory *[Signature]* 23/10/25



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 Panchkula - 134113,  
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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009106F

Lab No.		111025L-FD-035				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

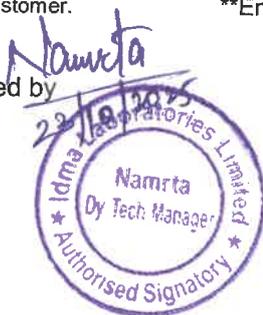
**Opinion :**

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\*\***

Reviewed by



Authorised signatory



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# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009107F

Lab No.	111025L-FD-036	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#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-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	11/10/2025	
Period of Analysis	11/10/2025 To 23/10/2025	
Visual Observation	N/A	
Date of Reporting	23/10/2025	
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	-	7.36	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	32.48	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.030	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	15.41	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	12.0	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 <sub>3</sub> )	mg/L	51.36	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by 28/10/2025

Authorised signatory

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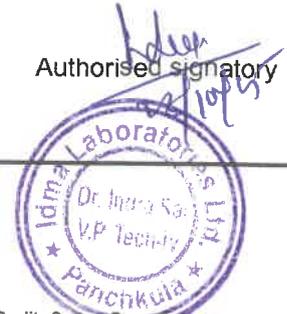
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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009107F

Lab No.		111025L-FD-036				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	90.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO <sub>4</sub> )	mg/L	4.42	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	0.053	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	0.023	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	Sodium as Na	mg/L	1.3	-	-	IS 3025 (Part-45): 2024
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 2024
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) : 2022
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--

Reviewed by *[Signature]* 23/10/2025

Authorised signatory *[Signature]*

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009107F

Lab No.		111025L-FD-036				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	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\*\***

Reviewed by



Authorised signatory



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009108F

Lab No.	111025L-FD-037	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#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-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	11/10/2025	
Period of Analysis	11/10/2025 To 23/10/2025	
Visual Observation	N/A	
Date of Reporting	23/10/2025	
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	-	7.42	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	40.6	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.031	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	18.33	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	13.50	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 <sub>3</sub> )	mg/L	64.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by 23/10/2025

Authorised signatory



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# Idma Laboratories Limited



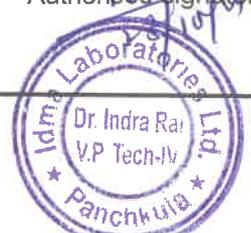
## TEST REPORT

ULR : TC820725700009108F

Lab No.		111025L-FD-037				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	102.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO4)	mg/L	4.85	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	0.052	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	0.026	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	Sodium as Na	mg/L	1.2	-	-	IS 3025 (Part-45): 2024
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 2024
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--

Reviewed by *[Signature]* 23/10/2025

Authorised signatory *[Signature]*



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## TEST REPORT

ULR : TC820725700009108F

Lab No.		111025L-FD-037			Page No. 3/3	
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	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\*\***

Reviewed by



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# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009109F

Lab No.	111025L-FD-038	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#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Base Camp Near 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	11/10/2025		
Period of Analysis	11/10/2025 To 23/10/2025		
Visual Observation	N/A		
Date of Reporting	23/10/2025		
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	-	7.52	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	48.72	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.028	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	18.83	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	13.50	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 <sub>3</sub> )	mg/L	68.48	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by *[Signature]* 23/10/2025

Authorized Signatory *[Signature]*



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## TEST REPORT

ULR : TC820725700009109F

Lab No.		111025L-FD-038				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	109.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO <sub>4</sub> )	mg/L	4.57	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	0.053	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	0.026	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	Sodium as Na	mg/L	1.2	-	-	IS 3025 (Part-45): 2024
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 2024
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--

Reviewed by *[Signature]*  
28/10/2025

Authorized signatory  
*[Signature]*

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# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009109F

Lab No.		111025L-FD-038				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	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 : TC820725700009110F

Lab No.	111025L-FD-039	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#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-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	11/10/2025	
Period of Analysis	11/10/2025 To 23/10/2025	
Visual Observation	N/A	
Date of Reporting	23/10/2025	
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	-	7.49	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	46.69	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.027	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	18.83	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	13.50	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 <sub>3</sub> )	mg/L	68.48	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by: *[Signature]*  
31/10/2025  
**Idma Laboratories Limited**  
Ranjna  
Tech. Manager  
Panchkula

Authorised signatory  
*[Signature]*  
**Idma Laboratories Limited**  
Dr. Indra Rai  
V.P. Tech-JV  
Panchkula

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009110F

Lab No.		111025L-FD-039				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	112.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO <sub>4</sub> )	mg/L	4.42	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	0.053	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	0.029	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	Sodium as Na	mg/L	1.2	-	-	IS 3025 (Part-45): 2024
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 2024
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
30	E. coli	/100ml	Absent	Shall not be	--	IS 15185: 2016

Reviewed by  
  
 Namrata  
 Tech Mgr  
 Authorised Signatory

  
 Idma Laboratories Ltd  
 Tech Mgr

Authorised Signatory  
  
 Dr. Indra Rai  
 V.P Tech-IV  
 Authorised Signatory

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 Panchkula - 134113,  
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# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009110F

Lab No.		111025L-FD-039				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
30				detectable in any 100ml sample		
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

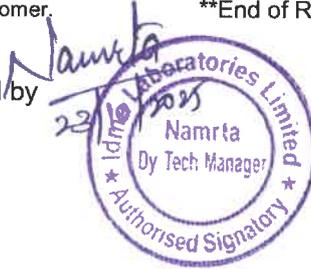
### Opinion :

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\*\*

Reviewed by



Authorised signatory



### Idma Laboratories Limited

Idma Corporate Park,

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Panchkula - 134113,

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009111F

Lab No.	111025L-FD-040	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#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Natural Source Tanker Filling Point	
Mode of Collection of Sample	Sample Collected By Idma Lab Person	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	11/10/2025	
Period of Analysis	11/10/2025 To 23/10/2025	
Visual Observation	N/A	
Date of Reporting	23/10/2025	
Testing Protocol	IS 10500:2012 Amdt 1 to 4	

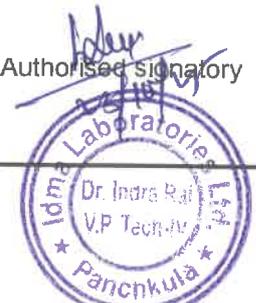
## RESULTS

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	-	7.31	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	48.72	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.026	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	22.26	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	14.0	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 <sub>3</sub> )	mg/L	72.76	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by 28/10/2025



Authorised signatory



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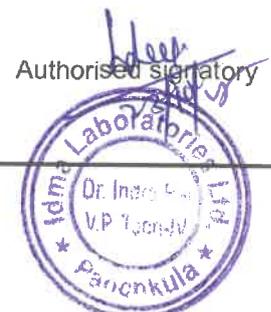
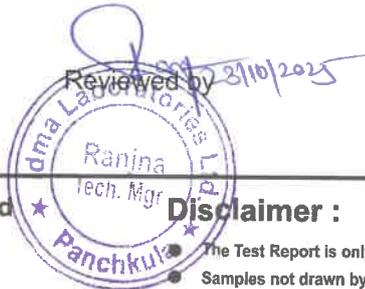
# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009111F

Lab No.		111025L-FD-040				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	116.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO4)	mg/L	6.14	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	0.050	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	0.027	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	Sodium as Na	mg/L	1.2	-	-	IS 3025 (Part-45): 2024
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 2024
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) : 2022
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing	--	-	--	--	--



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# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009111F

Lab No.		111025L-FD-040				Page No. 3/3	
S.No.	Test Parameter	Units	Results	Requirements		Test Methods	
				Acceptable Limit (Max)	Permissible Limit (Max)		
	(Water)						
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016	
31	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\*\***

Reviewed by



Authorised signatory



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

ULR : TC820725700009112F

Lab No.	111025L-FD-041	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#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-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	11/10/2025		
Period of Analysis	11/10/2025 To 23/10/2025		
Visual Observation	N/A		
Date of Reporting	23/10/2025		
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	-	7.90	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/L	52.78	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.031	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	22.26	Max. 75	Max. 200	IS 3025 (Part 40) : 2024
7	Chloride (as Cl)	mg/L	14.0	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 <sub>3</sub> )	mg/L	77.04	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by *[Signature]* 23/10/2025

Authorised signatory *[Signature]*

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# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009112F

Lab No.		111025L-FD-041				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	123.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO4)	mg/L	5.57	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	0.053	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	0.028	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	Sodium as Na	mg/L	1.2	-	-	IS 3025 (Part-45): 2024
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 2024
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--

Reviewed by *[Signature]* 23/10/2025

Authorised signatory *[Signature]*

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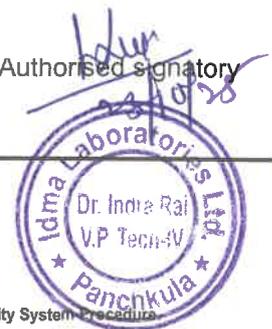
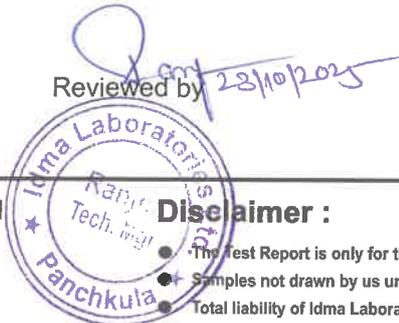
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# Idma Laboratories Limited



## TEST REPORT

ULR : TC820725700009112F

Lab No.		111025L-FD-041				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

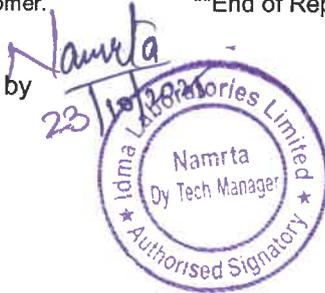
**Opinion :**

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\*\*

Reviewed by



Authorised signatory



### Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-037/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-240, Base Camp.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.62	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	2.1	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-037/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-240, Base Camp.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m <sup>3</sup>	76.2	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	36.7	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	14.9	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	18.6	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	26.1	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m <sup>3</sup>	23.1	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/625/R-96/010a



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-037/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m <sup>3</sup>	0.11	Max. 1.0	EPA/625/R-96/010a

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-038/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Crusher Plant 600 TPH, Base Camp.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.58	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<2.0	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

# Represents details provided by the customer.

\*\*End of Report\*\*



Authorised signatory



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-038/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1.0	EPA/625/R-96/010a

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-039/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
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	03/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.62	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<2.0	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-039/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
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	03/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m <sup>3</sup>	80.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	40.5	Max. 60	IDL/SP/03, Issue No-1
3	SO <sub>2</sub>	µg/m <sup>3</sup>	16.4	Max. 80	IS 5182 (Part 2)
4	NO <sub>2</sub>	µg/m <sup>3</sup>	19.6	Max. 80	IS 5182 (Part 6)
5	NH <sub>3</sub>	µg/m <sup>3</sup>	24.3	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m <sup>3</sup>	22.8	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/625/R-96/010a

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

Authorised signatory  
  
**Kartar Singh**  
Tech. Mgr.

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.		111025L-ED-039/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m <sup>3</sup>	0.13	Max. 1.0	EPA/625/R-96/010a	

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-040/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Primary Crusher Pathernaki.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.71	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	2.2	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-040/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#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	01 No.		
Packing, Markings#	Filter Paper Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Primary Crusher Pathernaki.		
Visual Observation	N/A		
Date of Sampling	03/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m <sup>3</sup>	77.8	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	36.2	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	14.5	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	20.3	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	26.6	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m <sup>3</sup>	22.5	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/625/R-96/010a

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

Authorised signatory  
**Kartar Singh**  
Tech. Mgr.  
Idma Laboratories Ltd.  
Panchkula

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**Idma Laboratories Limited**

Idma Corporate Park,

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Haryana (India)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-040/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m <sup>3</sup>	0.12	Max. 1.0	EPA/625/R-96/010a

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-041/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-30 Base camp.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.62	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<2.0	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



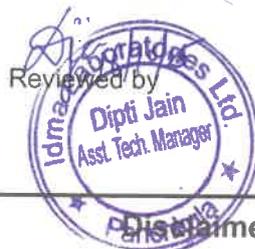
TC-8207

## TEST REPORT

Lab No.	111025L-ED-041/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-30 Base camp.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m <sup>3</sup>	79.4	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	47.1	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	14.2	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	17.5	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	25.8	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m <sup>3</sup>	21.6	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/625/R-96/010a



Authorised Signatory



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-041/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m <sup>3</sup>	<0.1	Max. 1.0	EPA/625/R-96/010a

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-042/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#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	01 No.		
Packing, Markings#	Filter Paper Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
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	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.64	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<2.0	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by



Authorised Signatory



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-042/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#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
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	04/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m <sup>3</sup>	82.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	43.1	Max. 60	IDL/SP/03, Issue No-1
3	SO <sub>2</sub>	µg/m <sup>3</sup>	15.9	Max. 80	IS 5182 (Part 2)
4	NO <sub>2</sub>	µg/m <sup>3</sup>	18.5	Max. 80	IS 5182 (Part 6)
5	NH <sub>3</sub>	µg/m <sup>3</sup>	25.8	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m <sup>3</sup>	21.9	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/625/R-96/010a



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# Idma Laboratories Limited



## TEST REPORT

Lab No.		111025L-ED-042/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m <sup>3</sup>	0.12	Max. 1.0	EPA/625/R-96/010a	

# Represents details provided by the customer.

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Crusher Plant 600 TPH Base Camp.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	13/10/2025			
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)	61.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	56.7	Max 70	CPCB PROTOCOL July 2015.

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed



Authorised signatory



**Idma Laboratories Limited**

Idma Corporate Park,

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
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	03/10/2025			
Date of Reporting	13/10/2025			
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)	73.1	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	63.8	Max 70	CPCB PROTOCOL July 2015.

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

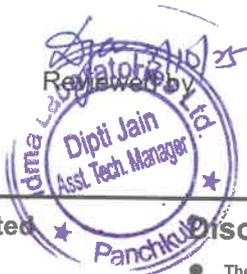
Lab No.	111025L-ED-046		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level (Ambient)		
Customer's Description of Sample#	Noise Level (Ambient)		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 13/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Primary crusher Pathernaki.		
Visual Observation	N/A		
Date of Sampling	03/10/2025		
Date of Reporting	13/10/2025		
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)	68.3	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\*\*



**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](http://www.idmagroup.co.in)

Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-30, Base Camp.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	13/10/2025			
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)	64.7	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	52.3	Max 70	CPCB PROTOCOL July 2015.

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
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	03/10/2025			
Date of Reporting	13/10/2025			
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)	62.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	51.9	Max 70	CPCB PROTOCOL July 2015.

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# Idma Laboratories Limited

## TEST REPORT

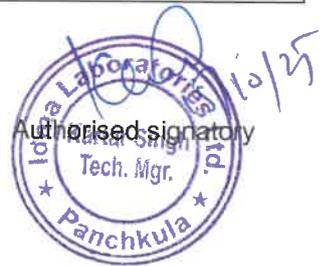
Lab No.	111025L-ED-049/B		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 15/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 125 KVA, officer Guest House Paddyarna.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	15/10/2025			
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	2.27	Max. 4.0	IS: 11255(Part -7)

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# Idma Laboratories Limited



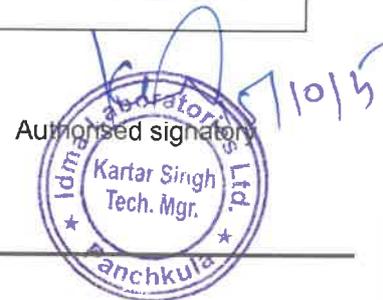
TC-8207

## TEST REPORT

Lab No.	111025L-ED-049/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 15/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 125 KVA, officer Guest House Paddyarna.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	15/10/2025			
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	26	-	-
4	Stack Temperature	°C	102	-	-
5	Velocity	m/s	11.7	-	-
6	Type of Fuel	-	HSD	-	-



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.		111025L-ED-049/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	22	-	-	
8	Sampling Time	Minutes	34	-	-	
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	152.8	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.09	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.05	Max. 3.5	IS:13270	
12	SO <sub>2</sub>	g/kW-hr	1.24	-	IS: 11255(Part -2)	

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-050/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 Laboratory	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	11/10/2025	
Period of Analysis	11/10/2025 To 15/10/2025	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Cummins 500 KVA, Near TRT.	
Visual Observation	N/A	
Date of Sampling	04/10/2025	
Date of Reporting	15/10/2025	
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	2.26	Max. 4.0	IS: 11255(Part -7)

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\*\*End of Report\*\*



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-050/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 15/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 500 KVA, Near TRT.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	15/10/2025			
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	26	-	-
4	Stack Temperature	°C	120	-	-
5	Velocity	m/s	12.5	-	-
6	Type of Fuel	-	HSD	-	-



Authorised signatory



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-050/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 <sup>3</sup> /hr	276.9	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.11	Max. 0.2	IS:11255(Part -1)
11	CO	g/kW-hr	1.08	Max. 3.5	IS:13270
12	SO <sub>2</sub>	g/kW-hr	1.71	-	IS: 11255(Part -2)

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-051/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Ashok Leyland 125 KVA, Dool yard.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	13/10/2025			
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	2.73	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.	111025L-ED-051/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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 13/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Ashok Leyland 125 KVA, Dool yard.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	13/10/2025		
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	26	-	-
4	Stack Temperature	°C	107	-	-
5	Velocity	m/s	12.2	-	-
6	Type of Fuel	-	HSD	-	-



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Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : [www.idmagroup.co.in](http://www.idmagroup.co.in)

Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.		111025L-ED-051/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 <sup>3</sup> /hr	279.5	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.13	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.14	Max. 3.5	IS:13270	
12	SO <sub>2</sub>	g/kW-hr	1.4	-	IS: 11255(Part -2)	

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-052/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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Cummins 250 KVA, Main Office Camp.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
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.

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-052/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 250 KVA, Main Office Camp.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	26	-	-
4	Stack Temperature	°C	110	-	-
5	Velocity	m/s	12.7	-	-
6	Type of Fuel	-	HSD	-	-



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-052/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	24	-	-
8	Sampling Time	Minutes	31	-	-
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	288.7	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.11	Max. 0.2	IS:11255(Part -1)
11	CO	g/kW-hr	0.93	Max. 3.5	IS:13270
12	SO <sub>2</sub>	g/kW-hr	1.17	-	IS: 11255(Part -2)

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\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-053/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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Cummins 125 KVA, Officer Camp Padyarna.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
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	2.14	Max. 4.0	IS: 11255(Part -7)

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\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-053/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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Cummins 125 KVA, Officer Camp Padyarna.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
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	26	-	-
4	Stack Temperature	°C	105	-	-
5	Velocity	m/s	11.8	-	-
6	Type of Fuel	-	HSD	-	-



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-053/A					Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	22	-	-	
8	Sampling Time	Minutes	34	-	-	
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	152.9	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.11	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.09	Max. 3.5	IS:13270	
12	SO <sub>2</sub>	g/kW-hr	1.31	-	IS: 11255(Part -2)	

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-054/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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Caterpillar 250 KVA, Officer Camp Padyarna.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
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	2.29	Max. 4.0	IS: 11255(Part -7)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-054/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Caterpillar 250 KVA, Officer Camp Padyarna.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	26	-	-
4	Stack Temperature	°C	115	-	-
5	Velocity	m/s	12.3	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by



Authorised signatory



Idma Laboratories Limited

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-054/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 <sup>3</sup> /hr	155.3	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.07	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.13	Max. 3.5	IS:13270	
12	SO <sub>2</sub>	g/kW-hr	1.46	-	IS: 11255(Part -2)	

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-055/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 1010 KVA, Captive Power Plant.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	16/10/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	Non- Methane hydrocarbon	mg/m <sup>3</sup>	24.1	Max. 100	IS 5182 (Part-17)

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by



Authorised signatory



### 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](http://www.idmagroup.co.in)

Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-055/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 1010 KVA, Captive Power Plant.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	16/10/2025			
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	8.0	-	-
2	Stack Diameter	Meters	0.254	-	-
3	Ambient Temperature	°C	26	-	-
4	Stack Temperature	°C	140	-	-
5	Velocity	m/s	13.7	-	-
6	Type of Fuel	-	HSD	-	-



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-055/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	26	-	-
8	Sampling Time	Minutes	28	-	-
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	1805.1	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg /Nm <sup>3</sup>	51.9	Max. 75	IS:11255(Part -1)
11	CO	mg /Nm <sup>3</sup>	66.4	Max. 150	IS:13270
12	NOx	ppmv	108.2	Max. 710	IS: 11255(Part -7)
13	SO2	mg /Nm <sup>3</sup>	30.5	-	IS: 11255(Part -2)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-056/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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DGCummins 1010 KVA Captive Power Plant.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	Non- methane hydrocarbon	mg/m <sup>3</sup>	23.6	Max. 100	IS 5182 (Part-17)

# Represents details provided by the customer.

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-056/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DGCummins 1010 KVA Captive Power Plant.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	8.0	-	-
2	Stack Diameter	Meters	0.254	-	-
3	Ambient Temperature	°C	26	-	-
4	Stack Temperature	°C	145	-	-
5	Velocity	m/s	13.8	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by  
  
Dipa Jain  
Asst. Tech. Manager  


Authorised signatory  
  
Karan Singh  
Tech. Mgr.  


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## TEST REPORT

Lab No.	111025L-ED-056/A					Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	27	-	-	
8	Sampling Time	Minutes	27	-	-	
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	1796.6	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm <sup>3</sup>	52.7	Max. 75	IS:11255(Part -1)	
11	CO	mg /Nm <sup>3</sup>	69.3	Max. 150	IS:13270	
12	NOx	ppmv	117.2	Max. 710	IS: 11255(Part -7)	
13	SO2	mg /Nm <sup>3</sup>	31.4	-	IS: 11255(Part -2)	

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by  
8/4/25



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Caterpillar 600 KVA, Captive Power Plant.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
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	2.41	Max. 4.0	IS: 11255(Part -7)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Caterpillar 600 KVA, Captive Power Plant.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	6.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	26	-	-
4	Stack Temperature	°C	130	-	-
5	Velocity	m/s	13.1	-	-
6	Type of Fuel	-	HSD	-	-



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-ED-057/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	24	-	-
8	Sampling Time	Minutes	31	-	-
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	614	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.10	Max. 0.2	IS:11255(Part -1)
11	CO	g/kW-hr	1.08	Max. 3.5	IS:13270
12	SO <sub>2</sub>	g/kW-hr	1.19	-	IS: 11255(Part -2)

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-ED-058/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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 500 KVA, Captive power Plant.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	2.57	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.	111025L-ED-058/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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Cummins 500 KVA, Captive power Plant.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
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	7.0	-	-
2	Stack Diameter	Meters	0.2032	-	-
3	Ambient Temperature	°C	26	-	-
4	Stack Temperature	°C	130	-	-
5	Velocity	m/s	13.1	-	-
6	Type of Fuel	-	HSD	-	-



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## TEST REPORT

Lab No.	111025L-ED-058/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 <sup>3</sup> /hr	1132.1	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.11	Max. 0.2	IS:11255(Part -1)
11	CO	g/kW-hr	1.14	Max. 3.5	IS:13270
12	SO <sub>2</sub>	g/kW-hr	1.48	-	IS: 11255(Part -2)

# Represents details provided by the customer

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG Cummins 500 KVA, Captive Power Plant.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
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	2.43	Max. 4.0	IS: 11255(Part -7)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 500 KVA, Captive Power Plant.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	7.0	-	-
2	Stack Diameter	Meters	0.2032	-	-
3	Ambient Temperature	°C	26	-	-
4	Stack Temperature	°C	125	-	-
5	Velocity	m/s	12.5	-	-
6	Type of Fuel	-	HSD	-	-



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-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 <sup>3</sup> /hr	1080.2	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.07	Max. 0.2	IS:11255(Part -1)
11	CO	g/kW-hr	1.02	Max. 3.5	IS:13270
12	SO <sub>2</sub>	g/kW-hr	1.18	-	IS: 11255(Part -2)

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 500 KVA, PC Pathernaki.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	2.13	Max. 4.0	IS: 11255(Part -7)

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by



Authorised signatory



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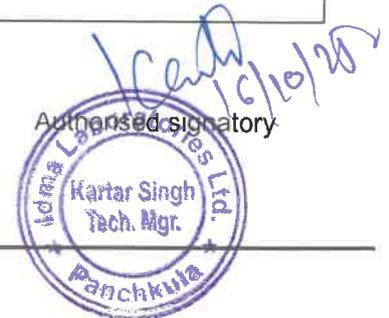


## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG Cummins 500 KVA, PC Pathernaki.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	26	-	-
4	Stack Temperature	°C	135	-	-
5	Velocity	m/s	12.7	-	-
6	Type of Fuel	-	HSD	-	-



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.		111025L-ED-060/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	24	-	-	
8	Sampling Time	Minutes	31	-	-	
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	609.8	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.14	Max. 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.06	Max. 3.5	IS:13270	
12	SO <sub>2</sub>	g/kW-hr	1.15	-	IS: 11255(Part -2)	

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	111025L-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 Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 16/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack Attached to DG caterpillar 1010 KVA, Captive Power Plant.		
Visual Observation	N/A		
Date of Sampling	04/10/2025		
Date of Reporting	16/10/2025		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	Non-methane hydrocarbon	mg/m <sup>3</sup>	24.7	Max. 100	IS 5182 (Part-17)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	111025L-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 Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 16/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack Attached to DG caterpillar 1010 KVA, Captive Power Plant.			
Visual Observation	N/A			
Date of Sampling	04/10/2025			
Date of Reporting	16/10/2025			
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	8.0	-	-
2	Stack Diameter	Meters	0.355	-	-
3	Ambient Temperature	°C	26	-	-
4	Stack Temperature	°C	160	-	-
5	Velocity	m/s	14.1	-	-
6	Type of Fuel	-	HSD	-	-



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# Idma Laboratories Limited



## TEST REPORT

Lab No.		111025L-ED-061/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	26	-	-	
8	Sampling Time	Minutes	28	-	-	
9	Volumetric Flow rate	Nm <sup>3</sup> /hr	3461.5	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm <sup>3</sup>	47.6	Max. 75	IS:11255(Part -1)	
11	CO	mg /Nm <sup>3</sup>	62.9	Max. 150	IS:13270	
12	NOx	ppmv	124.6	Max. 710	IS: 11255(Part -7)	
13	SO2	mg /Nm <sup>3</sup>	33.1	-	IS: 11255(Part -2)	

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-062/A		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 D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	11/10/2025			
Period of Analysis	11/10/2025 To 13/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	DG Noise Cummins 1010 KVA, Captive Power Plant.			
Visual Observation	N/A			
Date of Sampling	03/10/2025			
Date of Reporting	13/10/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.6	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	96.8	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	71.4	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.4	Min. 25	CPCB PROTOCOL JULY 2015

# Represents details provided by the customer.

\*\*End of Report\*\*



**Idma Laboratories Limited**

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Tel No. 0172 - 5064827, - 5064830

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# Idma Laboratories Limited



## TEST REPORT

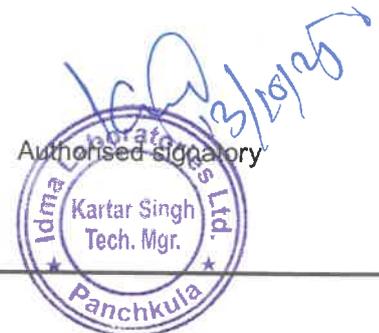
Lab No.	111025L-ED-063		Page No.	1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Noise Level D.G.				
Customer's Description of Sample#	Noise Level D.G.				
Quantity#	01 No.				
Packing, Markings#	Instrument at Site.				
Mode of Collection of Sample	Sampling by Laboratory				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	11/10/2025				
Period of Analysis	11/10/2025 To 13/10/2025				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	DG Noise 1010 KVA, Captive Power Plant.				
Visual Observation	N/A				
Date of Sampling	03/10/2025				
Date of Reporting	13/10/2025				
Sampling Protocol	CPCB PROTOCOL:2015				
Testing Protocol	CPCB				

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	59.4	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	96.5	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	71.2	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.3	Min. 25	CPCB PROTOCOL JULY 2015

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# Idma Laboratories Limited



## TEST REPORT

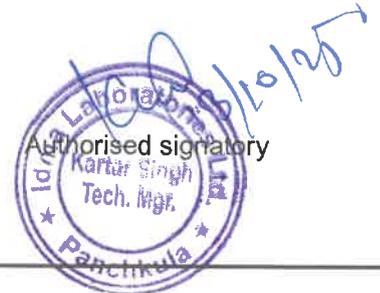
Lab No.	111025L-ED-064	Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 13/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	DG Noise 600 KVA, Captive Power Plant.		
Visual Observation	N/A		
Date of Sampling	03/10/2025		
Date of Reporting	13/10/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	68.2	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	85.5	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	58.9	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	26.6	Min. 25	CPCB PROTOCOL JULY 2015

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\*\*End of Report\*\*



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-065	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 D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 13/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	DG Noise Cummins 500 KVA, Captive Power Plant.		
Visual Observation	N/A		
Date of Sampling	03/10/2025		
Date of Reporting	13/10/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	65.2	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	88.5	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	60.6	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	27.9	Min. 25	CPCB PROTOCOL JULY 2015

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\*\*End of Report\*\*



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	111025L-ED-066	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 D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	11/10/2025		
Period of Analysis	11/10/2025 To 13/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	DG Noise cummins 500 KVA, Captive Power Plant.		
Visual Observation	N/A		
Date of Sampling	03/10/2025		
Date of Reporting	13/10/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

### RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	63.5	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	81.5	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	55.3	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	26.2	Min. 25	CPCB PROTOCOL JULY 2015

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