

## चिनाब वैली पावर प्रोजेक्ट्स [पी] 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 [P] Ltd.

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

सीआईएन/CIN: U40105JK2011GOI003321

किरूजलविद्युतपरियोजना

Kiru Hydroelectric Project

Chenab Nagar-II, Kishtwar(J&K)

फोन नं./Phone No:01995-259505

Email:gmkkcvpp@gmail.com

CVPPPL/Kiru/GM/2023/ 1055

Dated:28.11.2023

Regional Officer,  
MOEF&CC,  
Integrated Regional Office (IRO), Jammu  
Plot No. 379-A, Gandhi Nagar,  
Jammu- 180004  
E-mail : env.irojk-mefcc@gov.in, paranjay.s@nic.in.

**Sub: Kiru HE Project (624 MW) in District Kishtwar, UT of J&K: 06 monthly Environment Clearance (EC) Compliance Report for the period from April 2023 to September 2023.**

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

Sir,

In reference to Environment Clearance accorded to 624 MW Kiru Hydro-Electric Project vide MoEF&CC's communication No. J-12011/32/2008-IA. I dated 24.06.2016 read with Corrigendum dated 29.07.2016, kindly find enclosed herewith the 06 monthly Environment Clearance (EC) Compliance Report, for the period from April 2023 to September 2023.

Thanking you,

Yours faithfully,

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

### Copy for kind information to:

1. Scientist E, Impact Assessment Division-I,  
Ministry of Environment, Forests & Climate Change,  
Indira ParyavaranBhawan, JorBagh Road, Ali Ganj,  
New Delhi- 110003,  
email id: diriapolicy-moefcc@gov.in, yogendra78@nic.in
2. Member Secretary, J&K Pollution Control Committee,  
PariveshBhawan, Forest Complex, Gladini, Narwal,  
Transport Nagar, Jammu (J&K)  
email id: membersecretaryjkspcb@gmail.com
3. Regional Director,  
J&K Pollution Control Committee, PariveshBhawan,  
Forest Complex, Narwal, Jammu (J&K)-180004.  
e-mail:-[regionaldirectorjkspcbjmu@gmail.com](mailto:regionaldirectorjkspcbjmu@gmail.com)
4. General Manager (Planning), CVPPPL Corporate Office, Jammu.



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

Kiru Hydro-Electric Project is a run-of-river scheme located in District Kishtwar of UT Jammu and 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:**

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

**2. Status of construction activities**

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

- Civil Works Package (Lot I)** : Awarded to M/s Patel Engineering Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 15.06.2020. Construction activities related to major Civil Components viz. Dam, Power House, Transformer Hall, Pressure shaft and TRT works are under progress.
- Hydro-Mechanical Package (Lot II)** : Awarded to M/s PES Engineers Pvt. Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 11.06.2020. Erection of 1st and 2<sup>nd</sup> stage embedded parts of Diversion Tunnel Gates completed and manufacturing of other components is under progress. 1st and 2nd stage embedded parts, DT Gates and Rope Hoist Drum reached at site and supply of pressure shaft liner is under progress.
- Electro-Mechanical Package (Lot III)** : Awarded to M/s Andritz Hydro Pvt. Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 22.06.2020. Design & Engineering work of Turbine, MIV, Generator & Balance of plant is in advance stage. E&M components required for commencement of erection works reached at site. Manufacturing and Supply of various components of Generating Plant at site is in progress.

### **3. Status of Land Acquisition**

Final Award for acquisition of land measuring 1750 Kanal 17 Marla (87.54Ha) for construction of the Project has been issued by Collector, Land Acquisition, Kishtwar on 01.07.2017 and the Supplementary Award for Trees and Structures involved therein has been issued on 11.06.2019. An amount of Rs 32.47Crore (Rs. 26.94 Crore for land + Rs. 5.53 Crore for trees and structures) has been deposited with Collector, Land acquisition, Kishtwar for disbursement to land owners out of which an amount of Rs. 32 Crore has been disbursed so far.

### **4. Status of R&R Plan Implementation**

R&R Plan has been approved by GoJK vide Government Order No. 11-DMRR&R of 2019 dated 07.03.2019 for a total amount of Rs. 9956.22 lacs. An amount of Rs. 55.00 Crore has been deposited so far with the Office of Commissioner R&R out of which an amount of Rs. 40 Crore has been disbursed among the Project Affected Families. Further, disbursement of R&R benefits to PAFs is under progress.

### **5. Status of Infrastructure works**

1. Roads to major structures like Dam, Power House, TRT have been completed.
2. Widening and strengthening of main access road to project site is under progress.
3. Construction of temporary residential infrastructure (field hostel) at project site is completed.
4. Construction of temporary office building at project site - 04 blocks of site Office are completed.
5. Work related to providing Construction Power has been completed through J&K Power Development Department as deposit work.
6. Laying of LT Distribution Network has been completed and Project site Offices and residential buildings has been connected to Grid Power.
7. Construction work of water supply for temporary field hostels and offices are completed.
8. Construction of Road for project colony area is under progress.
9. The construction of two bridges has been completed to facilitate the construction of the project has been completed through BRO as deposit work.

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

(for the period from October 2022 to March 2023)

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. and date</b> (a) Environment Clearance (b) Forest Clearance	(a) Letter No. J-12011/32/2008-IA.I 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) 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 (P) Ltd., Chenab Nagar-II, District Kishtwar, UT Jammu and Kashmir Pin code- 182 206 Telephone: - 01995-259505 email id:gmkkcvpp@gmail.com  (b) Managing Director, Chenab Valley Power Projects (P) Ltd., Chenab Jal Shakti Bhavan, Opposite SaraswatiDham, Rail Head Complex, Jammu (UT J&K); Pin code 180 012 Phone/ Fax: 0191 2479826/ 2479835

6	Details of Environmental Management Plan	<p>Environmental Management Plans to be implemented at the Project are:</p> <table border="1" data-bbox="735 304 1399 857"> <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> <tr><td>15.</td><td>Skill Mapping and Development 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	15.	Skill Mapping and Development Plan
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7	Breakup for Project area (Land details)	<p>Forest Land: 82.05 ha  Private Land: 36.27 ha  State Land: 51.27 ha  River Bed land (State land): 61.00 ha  Total Land: 230.59 ha</p>																																
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>																																
9	<p>Financial Details</p> <p>(a) Project cost as originally planned and subsequent revised estimates and the year of price reference  (b) Actual expenditure incurred on the Project so far  (c) Allocation made for Environment Management Plan</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. 1250.30 Crore (till Sep 2023)  Allocations for EMP: Rs. 162.43 Crore  (as approved by MoEF&amp;CC)</p>																																

	(d) Actual expenditure incurred on EMP so far	<p>Actual expenditure incurred on EMP (till Sept 2023):</p> <p>i) Payment released on account of Forest Clearance: : Rs 9.44 Crore (including Rs. 1.15 Crore on account of Compensatory Afforestation Plan)</p> <p>Payment released towards extraction of Forest Trees: : Rs. 52.99 Lakh</p> <p>ii) Implementation of R&amp;R Plan : Rs.55.00 Crore (deposited with Commissioner R&amp;R)</p> <p>iii) Public Health Delivery System* : Rs. 38.68 Lakh</p> <p>iv) Energy Conservation Measures* : Rs. 47.88 Lakh</p> <p>v) Muck Disposal Plan* : Rs. 66.71 Lakh</p> <p>vi) Air &amp; Water Management Plan* : Rs. 34.86 Lakh</p> <p>vii) Skill Mapping and Development : Rs. 4.06 Lakh</p> <p>viii) Solid Waste Management Plan :Rs.11.82 Lakh</p> <p>*Includes the expenditure incurred by Contractor as per the Contract Agreement.</p>
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 site 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	<p>Status of Construction</p> <p>(a) Date of commencement (actual and/or planned)</p> <p>(b) Date of completion (actual and/or planned)</p>	<p>(a) Date of commencement of major works of the Project : 24.02.2020.</p> <p>(b) Date of completion: 24.03.2026</p>
12	Reasons for the delay (If the Project is yet to be started)	After Investment approval from GOI in March 2019, the major Project works have been awarded in February 2020 and the construction activities are in progress.
13	<p>Details of Site visits</p> <p>(a) By Monitoring Committee</p> <p>(b) By Regional Office</p>	<p>Nil</p> <p>Nil</p>
14.	Brief note on the status of compliance of the conditions stipulated by MOEF&CC	Details are enclosed as <b>Annexure-II</b> .





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

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

S.No.	Conditions	Compliance Status
	<b>Specific conditions</b>	
i	The Catchment Area Treatment Plan (CAT) as has been proposed in the EMP shall be strictly implemented in consultation with the J&K State Forest Department. Major works of CAT shall be completed before impounding of reservoir. The CAT plan will be implemented in 5 years. Financial allocation of Rs. 1883.82 lakhs for CAT plan implementation shall be fully utilized and the same shall not be diverted for any other purpose. As per CAT plan, the area of CAT is 1849.28 ha.	<ul style="list-style-type: none"> <li>- The matter was taken up with J&amp;K Soil &amp; Water Conservation Department for micro-planning and finalization of the CAT Plan vide letter No. CVPP/Kiru/GM/2020/472 dated 07.03.2020 and No. CVPP/Kiru/GM(C)/2020/268-271 dated 13.08.2020.</li> <li>- For expediting the implementation of CAT Plan, the matter was further taken up with PCCF (HoFF), J&amp;K vide letter No. CVPPPL/Kiru/Env-05/2020-21/909 dated 14.10.2020. In response to this, a Committee was constituted by J&amp;K Forest Department vide communication No. PCCF/FCA/1226-II/2942-51 dated 02.11.2020 under the Chairmanship of Principal Chief Conservator of Forests (HoFF), J&amp;K for reviewing the progress of implementation of CAT Plan.</li> <li>- The first meeting of said Committee was held on 09.11.2020 under the Chairmanship of PCCF(HoFF), J&amp;K and subsequently, another meeting was held at Jammu on 21.12.2020 by Chief Conservator of Forests, Jammu to review the CAT Plan of Project.</li> <li>- J&amp;K Forest Department advised the Project Authorities to update the CAT Plan as per existing rate schedule and resubmit the updated Plan for its approval.</li> <li>- CAT Plan of Project was updated and submitted to J&amp;K Forest Department vide no. CVPPPL/Kiru/HoP/2021/825 dt. 30.07.2021, after submission of updated CAT Plan some observations were raised by the J&amp;K Forest Department vide no. PCCF/FCA/12226-III/1980 dt. 28.08.2021. The reply of observations is also submitted vide no. CVPPPL/Kiru/HoP/2021/1079 dt. 25.09.2021 and the matter is being regularly pursued with J&amp;K Forest Department for timely implementation of CAT measures.</li> <li>- Project vide letter no. CVPPPL/Kiru/GGM/2022/2230 dated 05.07.2022 requested Additional PCCF (Nodal Officer) to examine/review the updated CAT plan at the earliest and provide comments/inputs, if any, for finalization and approval of CAT plan.</li> <li>- Additional PCCF (Nodal Officer) vide letter no. PCCF/FCA/1226-II/2109-14 dated 14.07.2022 forwarded the comments/observations received from Soil &amp; Water Conservation Department</li> </ul>

S.No.	Conditions	Compliance Status
		<p>with the request to submit the plan in accordance with the recent schedule rates.</p> <ul style="list-style-type: none"> <li>- Further a meeting was held with Director (Soil &amp; Water Conservation) on 18.07.2022 regarding implementation of CAT Plan and also to take up the survey and micro planning to formulate a complete and holistic CAT plan and revise the estimate based on latest schedule of rates.</li> <li>- Further, a review meeting under the Chairmanship of PCCF&amp;HoFF was held on 19.10.2022 regarding implementation of CAT Plan wherein the ground survey of the area considered for treatment under the plan was discussed.</li> <li>- Further, CVPP vide letter no. CVPP/CO/MD Sectt./2023/374 dated 23.06.2023 requested PCCF&amp;HoFF to convene a meeting at the earliest to finalise the mechanism of revision of CAT plan.</li> <li>- Further, a review meeting under the Chairmanship of PCCF&amp;HoFF was held on 07.07.2023 regarding progress of CAT Plan and the need to revised the CAT plan.</li> <li>- The revision of the CAT plan has been initiated.</li> </ul>
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>	<ul style="list-style-type: none"> <li>- R&amp;R Plan of Kiru HE Project was submitted to DC Kishtwar on 12.07.2016 which was further forwarded by DC Kishtwar to Divisional Commissioner, Jammu on 17.03.2017 for approval of Government. Empowered Committee for implementation of R&amp;R Plan of Kiru HE Project was constituted by GoJK vide G.O. No. 1088-GAD of 2017 dated 24.08.2017.</li> <li>- CVPPPL timely requested the GoJK (vide letter dated 12.06.2017) to enhance the cost provision for displaced PAFs pertaining to "Land for House and House Construction Assistance" from Rs. 18 lacs to Rs. 33 lacs per displaced family in line with the provision approved for Kishanganga HE Project. The request was duly considered by Empowered Committee in its meeting held on 06.10.2017 and revision was advised. Accordingly, the plan was revised by DC Kishtwar and resubmitted. The revised plan was forwarded by Divisional Commissioner, Jammu to Commissioner / Secretary Revenue Deptt. on 30.01.2018 for approval of GoJK.</li> <li>- The Plan was discussed in the meeting of Empowered Committee held on 06.04.2018 wherein the plan was recommended for approval of GoJK. The decision was conveyed</li> </ul>

S.No.	Conditions	Compliance Status
		<p>through Minutes of Meeting issued on 21.05.2018.</p> <ul style="list-style-type: none"> <li>- The R&amp;R Plan of Project has been approved by the State Administrative Council (SAC) as per Govt. Order No. 11-DMRR&amp;R of 2019 dated 07.03.2019 as recommended by Empowered Committee.</li> <li>- The R&amp;R Plan is under implementation and will be completed before commissioning of the Project. Till date, an amount of Rs. 40 Crore has been disbursed to the PAFs by the Commissioner R&amp;R out of Rs.55.00 Crore deposited by the Project.</li> <li>- A progress review meeting of implementation of R&amp;R Plan of the project was held on 12.09.2022 under the chairmanship of Commissioner R&amp;R cum Deputy Commissioner, Kishtwar.</li> </ul>
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.	As per the approved R&R Plan, Deputy Commissioner, Kishtwar has been appointed as the Commissioner for implementation of R&R Plan.
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>Monitoring Committee for R&amp;R was constituted in the Empowered Committee Meeting held under the Chairmanship of Chief Secretary, J&amp;K on 06.04.2018.</p> <p>The Committee shall include apart from the Officers of the State Govt. as one of its members:</p> <ol style="list-style-type: none"> <li>1. A representative of a woman residing in the area,</li> <li>2. A representative each of SC &amp; ST residing in the area,</li> <li>3. A representative of a voluntary organization,</li> <li>4. A representative of the lead bank,</li> <li>5. Chairperson(s) of the Panchayats and municipalities located in the affected area, or their nominee(s),</li> <li>6. Members of Parliament and members of Legislative Assembly of the area included in the affected area,</li> <li>7. The land acquisition officer of the Project, and</li> <li>8. A representative of the requiring body.</li> </ol> <p>Formal Govt. Order for constitution of the Committee is awaited.</p>

S.No.	Conditions	Compliance Status
v	All the commitments made during the public hearing should be fulfilled completely by project proponent and record maintained.	<ul style="list-style-type: none"> <li>- District Administration prepared the R&amp;R plan for Govt. approval after consultations with all stake holders and duly considering the aspirations and demands of local people.</li> <li>- The R&amp;R Plan as approved by GoJK is under the process of implementation.</li> </ul>
vi	A minimum environmental flow of 16.33 cumec (20%) during lean season (December to March), 73.37 cumec (10%) during monsoon season (June to September) and 16.62 cumec (10%) during remaining four months (October – November & April – May) shall have to be maintained. Continuous monitoring system for the flow measurement shall be installed and data be displayed at appropriate site for civil society and stake holders. Six monthly results shall be submitted to the Regional office of the Ministry.	<p style="text-align: center;">Shall be complied</p> <p>Continuous monitoring system for flow measurement shall be installed and further, six monthly results/ data shall be submitted to Regional Office of the Ministry.</p>
vii	Dumping and consolidation/compaction of the muck shall be carried-out in the designated muck dumping sites as submitted in the EIA/EMP report. As per the proposed muck disposal plan given in EMP, out of the 25.78 lakh cubic meter of muck to be generated, 8.36 lakh cubic meter will be utilized for construction purpose and remaining 17.42 lakh cubic meter will be dumped at four designated disposal sites in an allocated area of 28.22 ha. The dumping sites shall be more than 30m away from the HFL of the river & the toe walls for muck disposal sites shall be constructed at least 30m away from HFL of river. Allocated grant of Rs. 1697.57 lakhs shall be fully utilized and not to be diverted for any other purpose.	<p style="text-align: center;">Being complied</p> <p>The suitable portion of excavated muck is being utilized by the Contractor in the construction activities as proposed in the EMP. Part of excavated muck is also being utilized in the construction of retaining structures and approach road etc. Usable portion of muck is also being stacked for its use in future construction works. The disposal of unusable muck at designated muck dumping sites is being carried out as per the Muck Disposal Plan.</p>
viii	Proposed Compensatory Afforestation Programme in 164.10 ha of degraded forest area shall be undertaken in consultation with State Forest Department. Allocated grant of Rs. 1036 lakh shall be fully utilized and not to be diverted for any other purpose.	<ul style="list-style-type: none"> <li>- 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. 1.1487 Crore towards Compensatory Afforestation.</li> <li>- The Compensatory Afforestation Plan is being implemented by Forest Department under CAMPA and it was intimated by Forest Department, the Compensatory Afforestation works viz. fencing, plantation (PB/NR), silvi-pasture work (sowing/ dibbling patches) and DRSM works have been carried out and total amount of Rs. 1.1487 Crore has been utilized upto March 2022.</li> </ul>

S.No.	Conditions	Compliance Status
ix	To enhance the quality of environment of project site, green belt, as proposed in EMP report, shall be developed. The proposed green belt along the project appurtenances shall be undertaken in consultation with State Forest Department. The allocated budget of Rs 28.78 lakhs shall be fully utilized for this purpose and not to be diverted for any other purpose.	Shall be undertaken in consultation with J&K Forest Department.
x	Proposed Biodiversity Conservation & Management plan as outlined in the EMP shall be implemented with State Forest Department. The allocated budget of Rs. 139.80 lakhs for this purpose shall be fully utilized and shall not be diverted for any other purpose.  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.	<ul style="list-style-type: none"> <li>- J&amp;K Forest Department has been requested vide letter No. CVPP/Kiru/Env/2020/215 dated 29.09.2020, CVPP/Kiru/Env/2021 /517 dated 01.03.2021 and CVPP/Kiru/GM(C) /2022 /1627 dated 23.02.2022 for an early accord of approval of Biodiversity Conservation and Management Plan for ensuring its timely implementation.</li> <li>- Further, vide letter no. CVPPPL/Kiru/GGM/2022-23/3188 dated 29.03.2023, J&amp;K Forest Deptt was again requested to convey the approval of the Plan along with demand for financial expenditure.</li> <li>- A review meeting under the Chairmanship of PCCF&amp;HoFF was held on 07.07.2023.</li> <li>- Approval of Biodiversity Conservation and Management Plan by J&amp;K Forest Department is yet awaited.</li> </ul> <p style="text-align: center;">Shall be complied</p>
xi	The Fisheries Development Plan as proposed in the EMP shall be implemented completely in consultation with the State Fisheries Department. As proposed, a fish hatchery shall be developed in 2 ha of area for development of fingerlings for stocking of reservoir and river. The budget of Rs. 798.59 lakhs provided for fisheries development plan should be fully utilized for this purpose and shall not be diverted for any other purpose.	<ul style="list-style-type: none"> <li>- Vide letters No. CVPPPL/Kiru/SM(C) /2019/906 dated 12.10.2019, CVPPPL/Kiru/HoPSectt/2021/266 dated 17.03.2021, CVPPPL/ Kiru/ HoPSectt./ 2021/ 771 Dated 19.07.2021 and CVPPPL/Kiru/GM (C ) /2022/1397 Dated 03.01.2022 the matter regarding implementation of Fisheries Development Plan for Kiru HE Project has been taken up with J&amp;K Fisheries Department.</li> <li>- In this regard, the site inspection of identified land at Kiru HE Project has already been carried out by the Officials of J&amp;K Fisheries Department for development of Composite fish farm and other allied structures as per Fisheries Development Plan provided under EMP.</li> <li>- A meeting of the committee constituted vide Fisheries Order No. 276-Fisheries of 2022 dated 14.04.2022 was held under the</li> </ul>

S.No.	Conditions	Compliance Status
		<p>chairmanship of Joint Director, Fisheries Central, Jammu, regarding implementation of Fisheries Development Plan.</p> <ul style="list-style-type: none"> <li>- A committee for implementation of fisheries Development plan has visited the proposed site to ascertain the feasibility of land at Kajai village, in Padder Block and acquisition of land is in process by J&amp;K Fisheries Department.</li> <li>- Asstt. Director Fisheries, Kishtwar vide letter no. ADF/Ktr/2023-24/580-83 dated 28.07.2023 requested CVPP to submit necessary clearance as to whether the said identified patch of land for said Trout Fish Farming project is out of impact of back-water pool.</li> <li>- Project vide letter no. CVPP/Kiru/GM/2023/457 dated 01.08.2023 submitted necessary details and review meeting held with Asstt. Director Fisheries, Kishtwar On 29.09.2023 for early finalization of Fish Farming site.</li> <li>- The matter is being constantly followed up with J&amp;K Fisheries Department for implementation of the Plan.</li> </ul>
xi(a)	The total project cost is Rs. 4640.88 crores and EMP budget is Rs 147.32 crores is about 3.2%. The overall EMP budget should be raised to 3.5% (i.e 162.43 crores) of the project cost.	<p style="text-align: center;">Complied</p> <p>MoEF&amp;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).</p>
xii	As mentioned in EIA, 15 coldwater fish species have been identified in the river stretches including 2 exotic species, therefore, e- flow to be maintained for the downstream river depth, wetter perimeter, water quality and minimize fluctuation in ambient temperature during extreme conditions.	<p style="text-align: center;">Shall be complied</p> <p>The stipulated seasonal e-flows shall be maintained during Project operation.</p>
xiii	To maintain flourishing fish population/communities in the river, the river must witness all seasonal changes including low flow levels during lean season to maximum during monsoon/floods/high rains.	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.	<p style="text-align: center;">Being complied</p> <ul style="list-style-type: none"> <li>- Skill mapping of the Project Affected Families was carried out and accordingly, the Skill Development Plan was formulated in Sept. 2019. The report on Skill Mapping and Development Plan was submitted to Commissioner R&amp;R, Kiru HEP /</li> </ul>

S.No.	Conditions	Compliance Status
		<p>Deputy Commissioner, Kishtwar on 28.09.2019 for further action in the matter.</p> <ul style="list-style-type: none"> <li>- The said Report has been forwarded by Deputy Commissioner, Kishtwar to Divisional Commissioner, Jammu vide letter No. DCK/LA/2019/355-59 dated 10.02.2020 for further approval from Government.</li> <li>- Vide letter No. CVPP/Kiru/Env/2021 /576 dated 30.03.2021 and CVPPPL/Kiru/GM (C) /2022/1458 Dated 20.01.2022 Commissioner R&amp;R has been requested by Kiru Project Authorities for expediting the approval of the Plan by the Committee constituted in the matter by J&amp;K Govt.</li> <li>- A meeting regarding Skill Development Plan was held on 04.07.2022 under the chairmanship of Additional District Development Commissioner, Kishtwar.</li> <li>- A review meeting regarding Skill Development Plan was held on 12.09.2022 under the chairmanship of Deputy Commissioner, Kishtwar.</li> <li>- The matter is being followed up and approval of J&amp;K Government is awaited.</li> </ul>
xv	Use of 82.05 ha of forest land for construction of Kiru HEP by CVPP has been granted by Govt. of J&K vide no. 143-FST of 2016 dated 19.05.2016. The project proponent shall adhere to terms and conditions of this Government order strictly.	Conditions stipulated in Forest Clearance letter are being complied
xvi	Any other clearances required from any other concerned authorities should be obtained before commencement of works and commissioning of the project, as applicable.	Being complied
<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.	<p>Being complied</p> <ul style="list-style-type: none"> <li>- Common mess facilities are being provided by the Contractor to the labourers wherein LPG is being used as fuel.</li> <li>- Further, the major Contractor is providing free fuel (LPG) to the labour force to prevent any use of fire wood. The supply of LPG to the labourers is being met from LPG Depots at Galhar and Kishtwar. The energy conservation measures as provided in the EMP is being implemented.</li> </ul>

S.No.	Conditions	Compliance Status
ii	Medical facilities as well as recreational facilities shall also be provided to the labourers.	Being complied - Two dispensaries have been established at Project site (i.e., one by the major Contractor and the other by the Project) to cater to the health requirements of the work force. These dispensaries are being manned by the paramedical staff. - Three ambulances have also been provided at Project site (i.e., Two by the major Contractor and the other by the Project). - With the development of infrastructure at project site, the required recreational facilities is also being provided to the labourers engaged by the major contractors.
iii	The labourers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit. Periodic health checkup during construction period may also be taken up.	Being complied Thorough checkup of the labourers is being done by the Contractor before engaging them in the project construction work. Periodic health checkup of the labourers engaged for the major construction work are also being done by the Contractor at project site.
iv	Water sprinkling arrangements shall be made to suppress fugitive emissions/ dust.	Being complied
v	Potable drinking water and proper sanitary facilities shall be provided for the labour force. Also, proper disposal facilities for solid waste are to be ensured.	Being complied
vi	Restoration of construction area including muck dumping sites shall be ensured by leveling, filling up of borrow pits, landscaping, etc. The area should be properly planted to develop good greenery in the area.	Shall be complied
vii	Environmental parameters shall be monitored and "Six monthly monitoring reports" shall be submitted to the Ministry of Environment, Forest & Climate change, New Delhi including its Regional office for their review.	Being complied - The sampling & monitoring of environmental quality parameters at Project sites for Ambient Air quality, Water quality and Noise levels has been carried out through laboratory accredited by J&K Pollution Control Committee for SMR. The test reports of environmental quality parameters are enclosed herewith as <b>Annexure-III.</b>
viii	Solid waste management & sanitation facility will have to be provided for the labour force.	Being complied



S.No.	Conditions	Compliance Status
ix	Disaster management plan as provided in EMP shall be implemented in consultation with the District Authorities and early warning system shall be installed.	Shall be complied in consultation with District Disaster Management Authority.  As an advance measure, the Early Flood Warning System has been installed at site.
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.	Complied  EMC has been constituted on 25.05.2018.
<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.	Shall be 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.	Shall be complied
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.	Shall be 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.

S.No.	Conditions	Compliance Status
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. 06 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 <ul style="list-style-type: none"> <li>- The proposal for constitution of Multi Disciplinary Committee was submitted to MoEF&amp;CC on 12.07.2016. Revised proposal along with nomination letters of proposed committee members was submitted to MoEF&amp;CC on 24.05.2017.</li> <li>- Approval for constitution of committee was granted by MoEF&amp;CC vide letter no. J-12011/32/2008-IA.1 dated 09.07.2018.</li> <li>- However, vide letter dated 25.03.2019, MoEF&amp;CC was requested for minor amendment in the approval letter for clarity which was granted by MoEF&amp;CC vide letter no. J-12011/32/2008-IA-I dated 02.05.2019.</li> <li>- All the members of Multi-Disciplinary Committee were intimated regarding constitution of the Committee and were requested for scheduling the meeting of the Committee for monitoring the implementation of environmental safeguard measures for Kiru HE Project vide no. CVPP/Kiru/GM/2020/474 dated 07.03.2020 &amp; CVPP/HoPSectt./2021/429 dated 11.05.2021. However, meeting of Committee is yet to be held.</li> </ul>

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-001		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022	
Date of Receipt of Sample	04/08/2023			
Period of Analysis	04/08/2023 To 09/08/2023			
Sampling Team	Idma Representative Team	Client	Mr Sunil Tamrakar	
Sampling Location#	Paternoki Camp			
Visual Observation	N/A			
Date of Sampling	02/08/2023			
Date of Reporting	09/08/2023			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

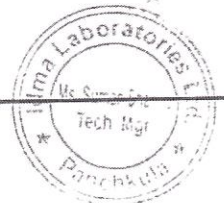
## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m <sup>3</sup>	80.4	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m <sup>3</sup>	15.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m <sup>3</sup>	18.4	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m <sup>3</sup>	22.3	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m <sup>3</sup>	35.1	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m <sup>3</sup>	0.39	Max. 2	NAAQMS/36/2012-13

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

## TEST REPORT

Lab No.		040823N-E-001				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	20	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	$\mu\text{g}/\text{m}^3$	<2	Max. 5	NAAQMS/36/2012-13(GC method)	
9	Benzo-a-Pyrene(BaP) - Particulate phase	$\text{ng}/\text{m}^3$	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)	
10	Arsenic	$\text{ng}/\text{m}^3$	<1	Max. 6	NAAQMS/36/2012-13	
11	Nickel	$\text{ng}/\text{m}^3$	<8	Max. 20	NAAQMS/36/2012-13	
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1	NAAQMS/36/2012-13	

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by  
*[Signature]*  
Dipti Jain  
Asst. Prob. Manager  
Panchkula

*[Signature]*  
Authorised signatory



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-002	Page No.	1/2
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	1 No		
Packing, Markings#	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Dam Top		
Visual Observation	N/A		
Date of Sampling	02/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

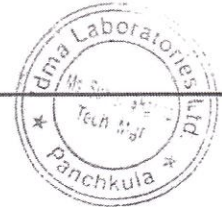
## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m <sup>3</sup>	79.0	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m <sup>3</sup>	14.8	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m <sup>3</sup>	19.1	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m <sup>3</sup>	21.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m <sup>3</sup>	34.5	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m <sup>3</sup>	0.38	Max. 2	NAAQMS/36/2012-13

Reviewed by  
Dipti Jain  
Asst. Tech. Manager



Authorised signatory  
09/08/23



### Idma Laboratories Limited

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

## TEST REPORT

Lab No.	040823N-E-002				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	µg/m <sup>3</sup>	21	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	µg/m <sup>3</sup>	<2	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m <sup>3</sup>	<1	Max. 6	NAAQMS/36/2012-13
11	Nickel	ng/m <sup>3</sup>	<8	Max. 20	NAAQMS/36/2012-13
12	Lead	µg/m <sup>3</sup>	<0.1	Max. 1	NAAQMS/36/2012-13

# Represents details provided by the customer.

\*\*End of Report\*\*

*Dipti Jain 09/08/23*  
Reviewed by

*Sd/- 09/08/23*  
Authorised signatory



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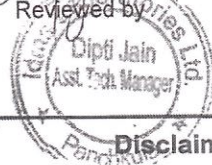
## TEST REPORT

Lab No.	040823N-E-003	Page No.	1/2
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	1 No		
Packing, Markings#	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Main Office		
Visual Observation	N/A		
Date of Sampling	02/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

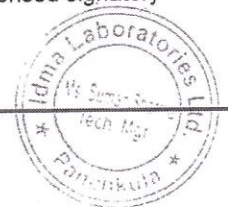
### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m <sup>3</sup>	78.6	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO <sub>2</sub>	µg/m <sup>3</sup>	14.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO <sub>2</sub>	µg/m <sup>3</sup>	18.8	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH <sub>3</sub>	µg/m <sup>3</sup>	22.3	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m <sup>3</sup>	34.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m <sup>3</sup>	0.39	Max. 2	NAAQMS/36/2012-13

Reviewed by  
Dipti Jain  
Asst. Tech. Manager



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

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# Idma Laboratories Limited

## TEST REPORT

Lab No.		040823N-E-003			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	19	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	<2	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	$\text{ng}/\text{m}^3$	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	$\text{ng}/\text{m}^3$	<1	Max. 6	NAAQMS/36/2012-13
11	Nickel	$\text{ng}/\text{m}^3$	<8	Max. 20	NAAQMS/36/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1	NAAQMS/36/2012-13

# 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

## TEST REPORT

Lab No.	040823N-E-004	Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Paternaki		
Visual Observation	N/A		
Date of Sampling	02/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	EPA/CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	62.8	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	54.6	Max 70	EPA Guideline Manual July 2008

# Represents details provided by the customer.

\*\*End of Report\*\*



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Panchkula - 134113,

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-005	Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Dam Top		
Visual Observation	N/A		
Date of Sampling	02/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	EPA/CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	67.2	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	56.4	Max 70	EPA Guideline Manual July 2008

# Represents details provided by the customer.

\*\*End of Report\*\*

*Signature*  
Reviewed by

*Signature*  
09/08/23  
Authorised signatory

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# Idma Laboratories Limited

## TEST REPORT

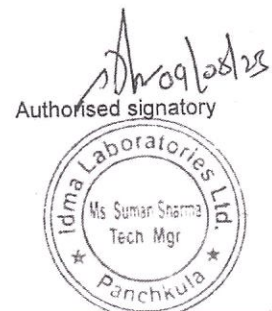
Lab No.	040823N-E-006		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	NOISE LEVEL (AMBIENT)			
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)			
Quantity#	1 No			
Packing, Markings#	Instrument at Site			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022	
Date of Receipt of Sample	04/08/2023			
Period of Analysis	04/08/2023 To 09/08/2023			
Sampling Team	Idma Representative Team	Client	Mr Sunil Tamrakar	
Sampling Location#	DG Area (Base Camp)			
Visual Observation	N/A			
Date of Sampling	02/08/2023			
Date of Reporting	09/08/2023			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	EPA/CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	63.8	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	54.6	Max 70	EPA Guideline Manual July 2008

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-007	Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Power House Site		
Visual Observation	N/A		
Date of Sampling	02/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	EPA/CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	60.1	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	52.4	Max 70	EPA Guideline Manual July 2008

# Represents details provided by the customer.

\*\*End of Report\*\*

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

*Ms Sumar Sharma*  
Authorised signatory  
Ms Sumar Sharma  
Tech Mgr  
Idma Laboratories Ltd.  
Panchkula

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Idma Corporate Park,

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-008	Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Crusher Plant (200 TPH)		
Visual Observation	N/A		
Date of Sampling	02/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	EPA/CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	63.5	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	51.2	Max 70	EPA Guideline Manual July 2008

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-009	Page No.	1/2
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	Surface Water		
Customer's Description of Sample#	Surface Water		
Quantity#	5 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Upstream Coffe Dam		
Visual Observation	N/A		
Date of Sampling	02/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	-		

## RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing ( Water )	-	-	-
1	pH	-	7.51	APHA 4500H+B 24th Edition, 2022
2	Alkalinity as CaCO <sub>3</sub>	mg/L	126	APHA 2320 B 24th Edition, 2022
3	Calcium as Ca	mg/L	24.1	APHA 3500-Ca B 24th Edition, 2022
4	Chloride as Cl	mg/L	17.8	APHA 4500Cl- B 24th Edition, 2022
5	Magnesium as Mg	mg/L	10.2	APHA 3500 Mg B 24th Edition 2022
6	Conductivity	uS/cm	331	USEPA Method 120.1
7	Dissolved Oxygen (DO)	mg/L	7.0	CPCB Guide Manual:Water & waste water Analysis
8	Fluoride as F	mg/L	0.29	CPCB Guide Manual:Water & waste water Analysis

Reviewed by  
09/08/23



09/08/23  
Authorised signatory



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## TEST REPORT

Lab No.		040823N-E-009		Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method
9	Hardness Total (as CaCO <sub>3</sub> )	mg/L	102	APHA 2340C 24th Edition, 2022
10	Total Dissolved Solids	mg/L	152	APHA 2540 C 24th Edition, 2022
11	Sulphate as SO <sub>4</sub>	mg/L	19.2	APHA 4500-SO <sub>4</sub> -4 E 24th Edition, 2022
12	Turbidity	NTU	<1	APHA 3130 B 24th Edition, 2022
13	Residual Free chlorine	mg/L	<0.1	APHA 4500CI B 24th Edition, 2022
14	Nitrate as N	mg/L	1.1	APHA 4500 NO <sub>3</sub> 24th Edition 2022
15	Potassium	mg/L	1.3	APHA 3125 B 24th Edition 2022
16	Sodium	mg/L	11.6	APHA 3125 B 24th Edition 2022
17	Iron as Fe	mg/L	0.091	APHA 3125 B 24th Edition 2022
18	Manganese as Mn	mg/L	BLQ (LOQ-0.0005)	APHA 3125 B 24th Edition 2022
Biological Testing (Water)		-	-	-
19	Total Coliform Bacteria	MPN/100ml	500	APHA 9221 E 24th Edition 2022
20	Faecal Coliforms	MPN/100ml	350	APHA 9221 F 24th Edition 2022
21	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis
22	Chemical Oxygen Demand	mg/L	4	CPCB Guide Manual:Water & waste water Analysis

Opinion :

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\*\*End of Report\*\*

Reviewed by  
Dipti Jain  
Asst. Tech. Manager  
Panchkula

Authorised signatory  
Ms Suman Sharma  
Tech Mgr  
Panchkula

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391, industrial Area, Phase - 1,  
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Haryana (India)  
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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-010	Page No.	1/2
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	Surface Water		
Customer's Description of Sample#	Surface Water		
Quantity#	5 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Dam Site Labour Camp		
Visual Observation	N/A		
Date of Sampling	02/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	-		

## RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing ( Water )	-	-	-
1	pH	-	7.22	APHA 4500H+B 24th Edition, 2022
2	Alkalinity as CaCO <sub>3</sub>	mg/L	131	APHA 2320 B 24th Edition, 2022
3	Calcium as Ca	mg/L	21.8	APHA 3500-Ca B 24th Edition, 2022
4	Chloride as Cl	mg/L	18.4	APHA 4500Cl- B 24th Edition, 2017
5	Magnesium as Mg	mg/L	10.8	APHA 3500 Mg B 24th Edition, 2022
6	Conductivity	uS/cm	325	USEPA Method 120.1
7	Dissolved Oxygen (DO)	mg/L	7.1	CPCB Guide Manual:Water & waste water Analysis
8	Fluoride as F	mg/L	0.21	CPCB Guide Manual:Water & waste water Analysis

Reviewed by

Authorised signatory

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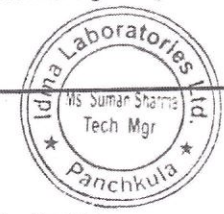
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# Idma Laboratories Limited

## TEST REPORT

Lab No.		040823N-E-010		Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method
9	Hardness Total (as CaCO <sub>3</sub> )	mg/L	99	APHA 2340C 24th Edition, 2022
10	Total Dissolved Solids	mg/L	148	APHA 2540 C 24th Edition, 2022
11	Sulphate as SO <sub>4</sub>	mg/L	12.0	APHA 4500-SO <sub>4</sub> -4 E 24th Edition, 2022
12	Turbidity	NTU	<1	APHA 3130 B 24th Edition, 2022
13	Residual Free chlorine	mg/L	<0.1	APHA 4500Cl B 24th Edition, 2022
14	Nitrate	mg/L	1.2	APHA 4500 NO <sub>3</sub> 24th Edition, 2022
15	Potassium	mg/L	1.6	APHA 3125 B 24th Edition, 2022
16	Sodium	mg/L	11.4	APHA 3125 B 24th Edition, 2022
17	Iron as Fe	mg/L	0.082	APHA 3125 B 24th Edition, 2022
18	Manganese as Mn	mg/L	BLQ (LOQ-0.0005)	APHA 3125 B 24th Edition, 2022
Biological Testing (Water)		-	-	-
19	Total Coliform Bacteria	MPN/100ml	220	APHA 9221 E 24th Edition 2022
20	Faecal Coliforms	MPN/100ml	170	APHA 9221 F 24th Edition 2022
21	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis
22	Chemical Oxygen Demand	mg/L	<4	CPCB Guide Manual:Water & waste water Analysis

Opinion :

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\*\*End of Report\*\*

*Signature*  
Reviewed by

*Signature*  
Authorised signatory

### Idma Laboratories Limited

Idma Corporate Park,

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Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

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

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# Idma Laboratories Limited

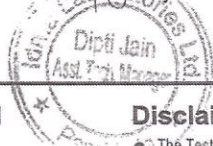
## TEST REPORT

Lab No.	040823N-E-018	Page No. 1/3
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir	
Type of Sample#	Drinking Water	
Customer's Description of Sample#	Drinking Water	
Quantity#	5 Ltr+250ML	
Packing, Markings, Seal & Quantity#	Plastic Can & Glass Bottle	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	PEL/381/187104/21-22	Dated 08/04/2022
Date of Receipt of Sample	04/08/2023	
Period of Analysis	04/08/2023 To 09/08/2023	
Sampling Team Idma	Idma Representative Team	Client Mr Sunil Tamrakar
Sampling Location#	Paternaki Worker Camp	
Visual Observation	N/A	
Date of Sampling	03/08/2023	
Date of Reporting	09/08/2023	
Sampling Protocol	IS:17614 (PART-1):2021 & ILL/MB/SOP/034	
Testing Protocol	IS: 10500:2012	

## RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th-Edition, 2022
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2022
3	pH	-	7.24	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2022
4	Alkalinity as CaCO <sub>3</sub>	mg/L	113	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2022
5	Boron	mg/L	0.001	Max. 0.5	Max. 2.4	APHA 3125 B 24th Edition, 2022
6	Calcium as Ca	mg/L	19.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2022
7	Chloride as Cl	mg/L	14.6	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2022
8	Cyanide as CN	mg/L	BLQ	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2022

Reviewed by



Authorised signatory



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Panchkula - 134113,

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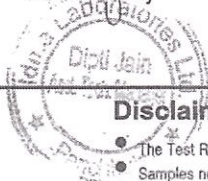


# Idma Laboratories Limited

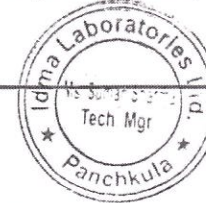
## TEST REPORT

Lab No.		040823N-E-018				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8			(LOQ-0.05)			
9	Fluoride as F	mg/L	0.2	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
10	Hardness Total (as CaCO <sub>3</sub> )	mg/L	102	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022
11	Total Dissolved Solids	mg/L	136	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2022
12	Sulphate as SO <sub>4</sub>	mg/L	11.2	Max. 200	Max. 400	APHA 4500-SO <sub>4</sub> -4 E 24th Edition, 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2022
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2022
15	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2022
16	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 24th Edition, 2022
17	Potassium	mg/L	1.1	-	-	APHA 3125 B 24th Edition, 2022
18	Sodium	mg/L	10.2	-	-	APHA 3125 B 24th Edition, 2022
19	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 24th Edition, 2022
20	Iron as Fe	mg/L	0.024	Max. 1.0	No Relaxation	APHA 3125 B 24th Edition, 2022
21	Lead as Pb	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
22	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 24th Edition, 2022
23	Zinc as Zn	mg/L	0.062	Max. 5	Max. 15	APHA 3125 B 24th Edition, 2022
24	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 24th Edition, 2022
25	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
26	Silver as Ag	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	No Relaxation	APHA 3125 B 24th Edition, 2022
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 24th Edition, 2022
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
29	Total Chromium	mg/L	BLQ (LOQ -	Max. 0.05	No Relaxation	APHA 3125 B 24th Edition, 2022

Reviewed by



Authorised signatory



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# Idma Laboratories Limited

## TEST REPORT

Lab No.		040823N-E-018				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29	Biological Testing (Water)	-	0.0005)	-	-	-
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*

*[Signature]*  
Reviewed by  


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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-019	Page No. 1/3	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr+250ML		
Packing, Markings, Seal & Quantity#	Plastic Can & Glass Bottle		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Base Camp		
Visual Observation	N/A		
Date of Sampling	03/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	IS:17614 (PART-1):2021 & ILL/MB/SOP/034		
Testing Protocol	IS: 10500:2012		

## RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing ( Water )	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2022
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2022
3	pH	-	7.39	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2022
4	Alkalinity as CaCO <sub>3</sub>	mg/L	81	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2022
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3125 B 24th Edition, 2022
6	Calcium as Ca	mg/L	15.6	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2022
7	Chloride as Cl	mg/L	9.4	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2022

Reviewed by



Authorised signatory



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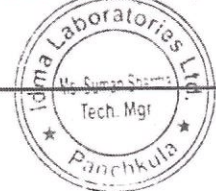
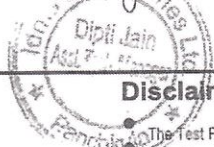
# Idma Laboratories Limited

## TEST REPORT

Lab No.		040823N-E-019				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2022
9	Fluoride as F	mg/L	0.13	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
10	Hardness Total (as CaCO3)	mg/L	71	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022
11	Total Dissolved Solids	mg/L	122	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2022
12	Sulphate as SO4	mg/L	7.8	Max. 200	Max. 400	APHA 4500-SO <sup>2</sup> -4 E 24th Edition, 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2022
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2022
15	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500CI B 24th Edition, 2022
16	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 24th Edition, 2022
17	Potassium	mg/L	0.82	-	-	APHA 3125 B 24th Edition, 2022
18	Sodium	mg/L	7.6	-	-	APHA 3125 B 24th Edition, 2022
19	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 24th Edition, 2022
20	Iron as Fe	mg/L	0.014	Max. 1.0	No Relaxation	APHA 3125 B 24th Edition, 2022
21	Lead as Pb	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
22	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 24th Edition, 2022
23	Zinc as Zn	mg/L	0.034	Max. 5	Max. 15	APHA 3125 B 24th Edition, 2022
24	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 24th Edition, 2022
25	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
26	Silver as Ag	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	No Relaxation	APHA 3125 B 24th Edition, 2022
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 24th Edition, 2022
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022

Reviewed by *[Signature]* 09/08/23

Authorised signatory *[Signature]* 09/08/23



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# Idma Laboratories Limited

## TEST REPORT

Lab No.		040823N-E-019				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 24th Edition, 2022
	Biological Testing (Water)	-	-	-	-	-
30	E.coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*

*[Signature]*  
Reviewed by

*[Signature]*  
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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-020	Page No. 1/3	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr+250ML		
Packing, Markings, Seal & Quantity#	Plastic Can & Glass Bottle		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Staff Catony Pad-iyarna		
Visual Observation	N/A		
Date of Sampling	03/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	IS:17614 (PART-1):2021 & ILL/MB/SOP/034		
Testing Protocol	IS: 10500:2012		

### RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2022
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2022
3	pH	-	7.23	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2022
4	Alkalinity as CaCO <sub>3</sub>	mg/L	95	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2022
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3125 B 24th Edition, 2022
6	Calcium as Ca	mg/L	18.3	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2022
7	Chloride as Cl	mg/L	11.1	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2022

Reviewed by  
Dipti Jain

Authorised signatory  
Ms. Suman Sharma  
Tech Mgr

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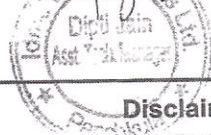


# Idma Laboratories Limited

## TEST REPORT

Lab No.		040823N-E-020				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2022
9	Fluoride as F	mg/L	0.13	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
10	Hardness Total (as CaCO <sub>3</sub> )	mg/L	82	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022
11	Total Dissolved Solids	mg/L	131	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2022
12	Sulphate as SO <sub>4</sub>	mg/L	9.6	Max. 200	Max. 400	APHA 4500-SO <sup>2</sup> -4 E 24th Edition, 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2022
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2022
15	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500CI B 24th Edition, 2022
16	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 24th Edition, 2022
17	Potassium	mg/L	0.96	-	-	APHA 3125 B 24th Edition, 2022
18	Sodium	mg/L	8.1	-	-	APHA 3125 B 24th Edition, 2022
19	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 24th Edition, 2022
20	Iron as Fe	mg/L	0.022	Max. 1.0	No Relaxation	APHA 3125 B 24th Edition, 2022
21	Lead as Pb	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
22	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 24th Edition, 2022
23	Zinc as Zn	mg/L	0.061	Max. 5	Max. 15	APHA 3125 B 24th Edition, 2022
24	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 24th Edition, 2022
25	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
26	Silver as Ag	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	No Relaxation	APHA 3125 B 24th Edition, 2022
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 24th Edition, 2022
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022

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

## TEST REPORT

Lab No.		040823N-E-020				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 24th Edition, 2022
	Biological Testing (Water)	-	-	-	-	-
30	E.coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by



Authorised signatory



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	040823N-E-021	Page No. 1/3	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr+250ML		
Packing, Markings, Seal & Quantity#	Plastic Can & Glass Bottle		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	PEL/381/187104/21-22	Dated	08/04/2022
Date of Receipt of Sample	04/08/2023		
Period of Analysis	04/08/2023 To 09/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr Sunil Tamrakar
Sampling Location#	Main Office		
Visual Observation	N/A		
Date of Sampling	03/08/2023		
Date of Reporting	09/08/2023		
Sampling Protocol	IS:17614 (PART-1):2021 & ILL/MB/SOP/034		
Testing Protocol	IS: 10500:2012		

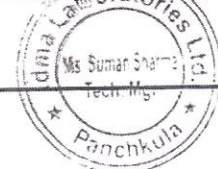
## RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2022
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2022
3	pH	-	7.21	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2022
4	Alkalinity as CaCO <sub>3</sub>	mg/L	126	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2022
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3125 B 24th Edition, 2022
6	Calcium as Ca	mg/L	25.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2022
7	Chloride as Cl	mg/L	21.7	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2022

Reviewed by



Authorised signatory



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# Idma Laboratories Limited

## TEST REPORT

Lab No.		040823N-E-021				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2022
9	Fluoride as F	mg/L	0.16	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
10	Hardness Total (as CaCO3)	mg/L	119	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022
11	Total Dissolved Solids	mg/L	181	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2022
12	Sulphate as SO4	mg/L	12.6	Max. 200	Max. 400	APHA 4500-SO <sup>2</sup> -4 E 24th Edition, 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2022
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2022
15	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2022
16	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 24th Edition, 2022
17	Potassium	mg/L	2.1	-	-	APHA 3125 B 24th Edition, 2022
18	Sodium	mg/L	11.4	-	-	APHA 3125 B 24th Edition, 2022
19	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 24th Edition, 2022
20	Iron as Fe	mg/L	0.059	Max. 1.0	No Relaxation	APHA 3125 B 24th Edition, 2022
21	Lead as Pb	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
22	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 24th Edition, 2022
23	Zinc as Zn	mg/L	0.17	Max. 5	Max. 15	APHA 3125 B 24th Edition, 2022
24	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 24th Edition, 2022
25	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
26	Silver as Ag	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	No Relaxation	APHA 3125 B 24th Edition, 2022
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 24th Edition, 2022
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022

Reviewed by

Authorised signatory

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# Idma Laboratories Limited

## TEST REPORT

Lab No.		040823N-E-021				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 24th Edition, 2022
	Biological Testing (Water)	-	-	-	-	-
30	E.coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by



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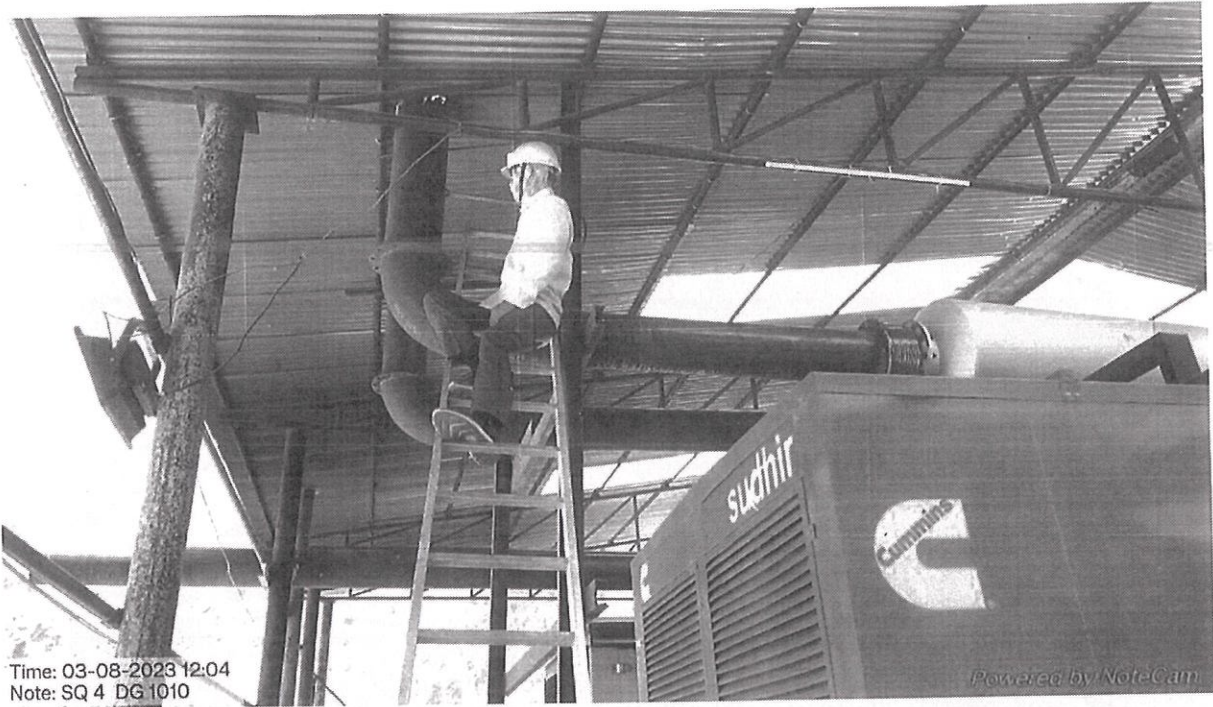
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Latitude: 33°20'45"  
Longitude: 75°57'19"  
Altitude: 1403.63±21 m  
Accuracy: 13.0 m  
Time: 02-08-2023 15:58  
Note: DWQ 2 -Base Camp

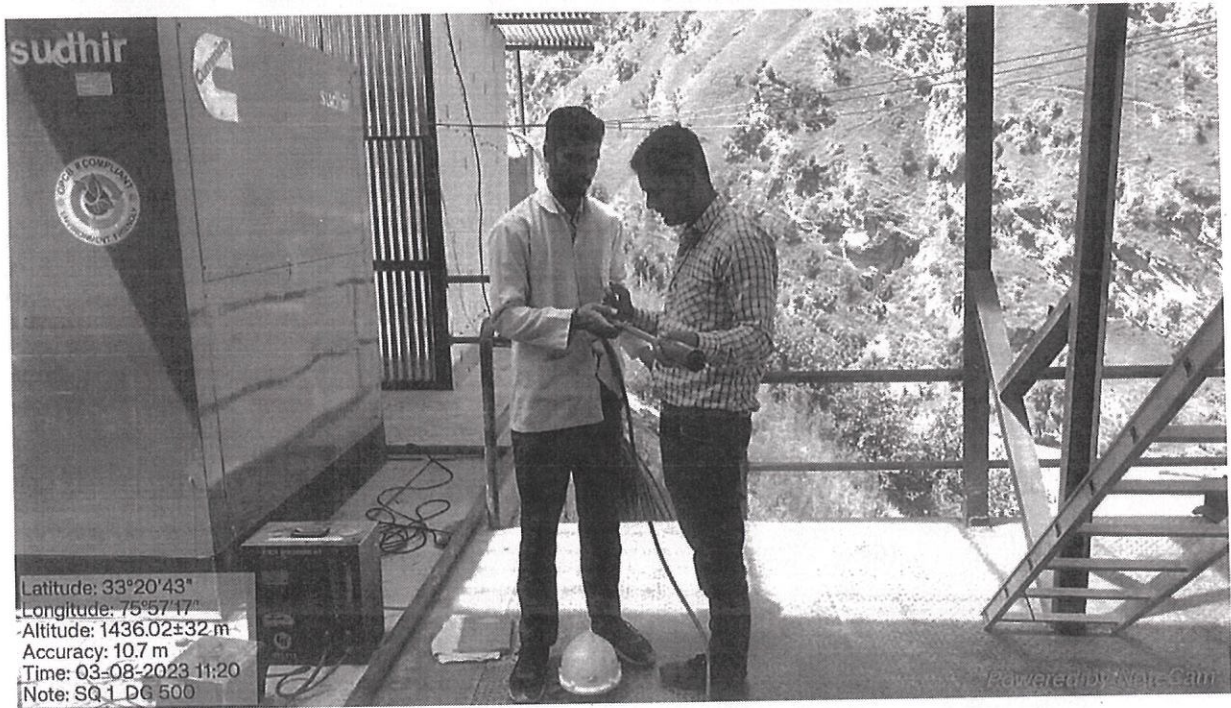


Time: 02-08-2023 15:10  
Note: WQ 3 DT Outlet



Time: 03-08-2023 12:04  
Note: SQ 4 DG 1010

Powered by NoteCam



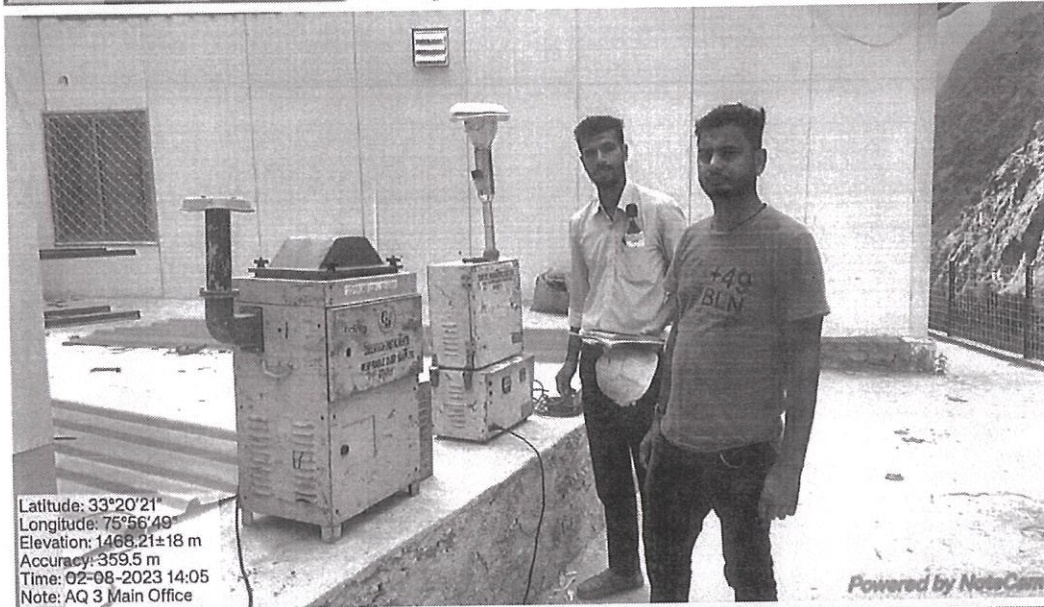
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Longitude: 75°57'47"  
Altitude: 1436.02±32 m  
Accuracy: 10.7 m  
Time: 03-08-2023 11:20  
Note: SQ 1 DG 500

Powered by NoteCam



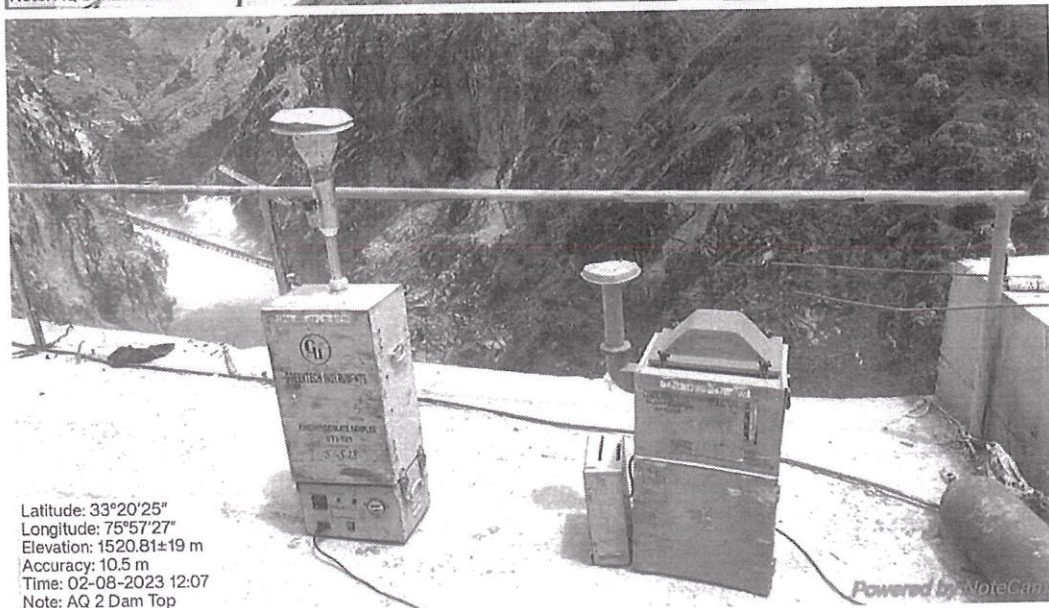
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Longitude: 75°57'50"  
Elevation: 1597.32±13 m  
Accuracy: 25.1 m  
Time: 02-08-2023 10:44  
Note: AQ 1 Patherneki

Powered by NoteCam



Latitude: 33°20'21"  
Longitude: 75°56'49"  
Elevation: 1468.21±18 m  
Accuracy: 359.5 m  
Time: 02-08-2023 14:05  
Note: AQ 3 Main Office

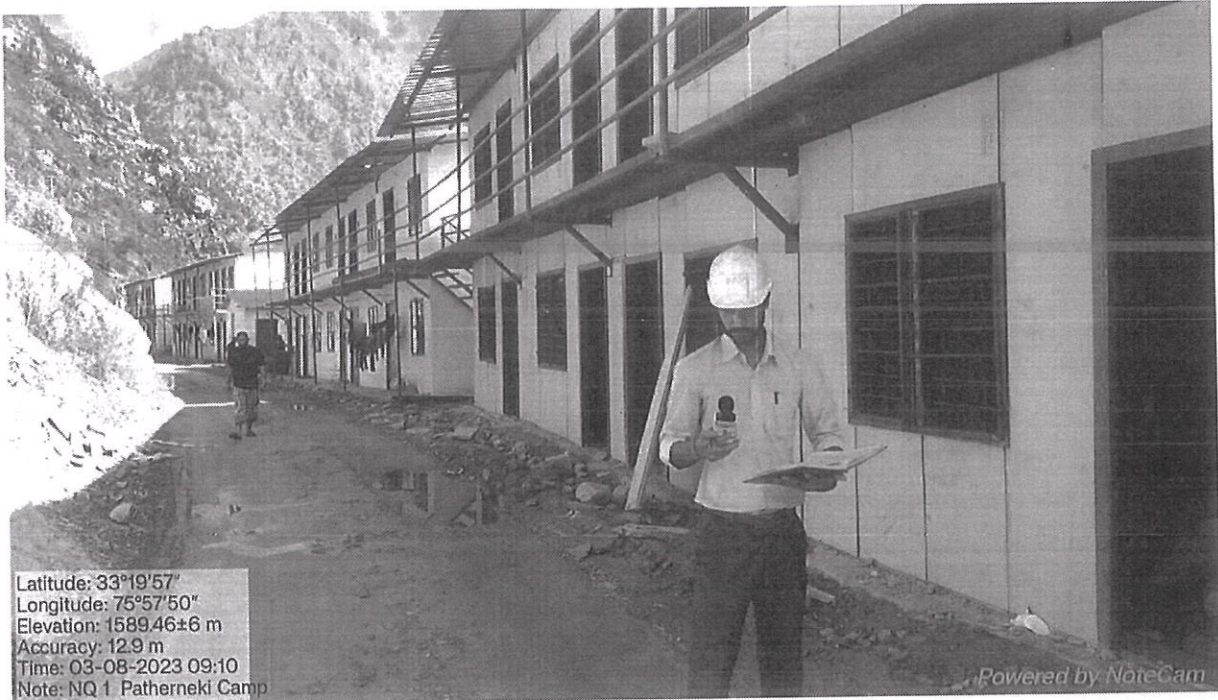
Powered by NoteCam



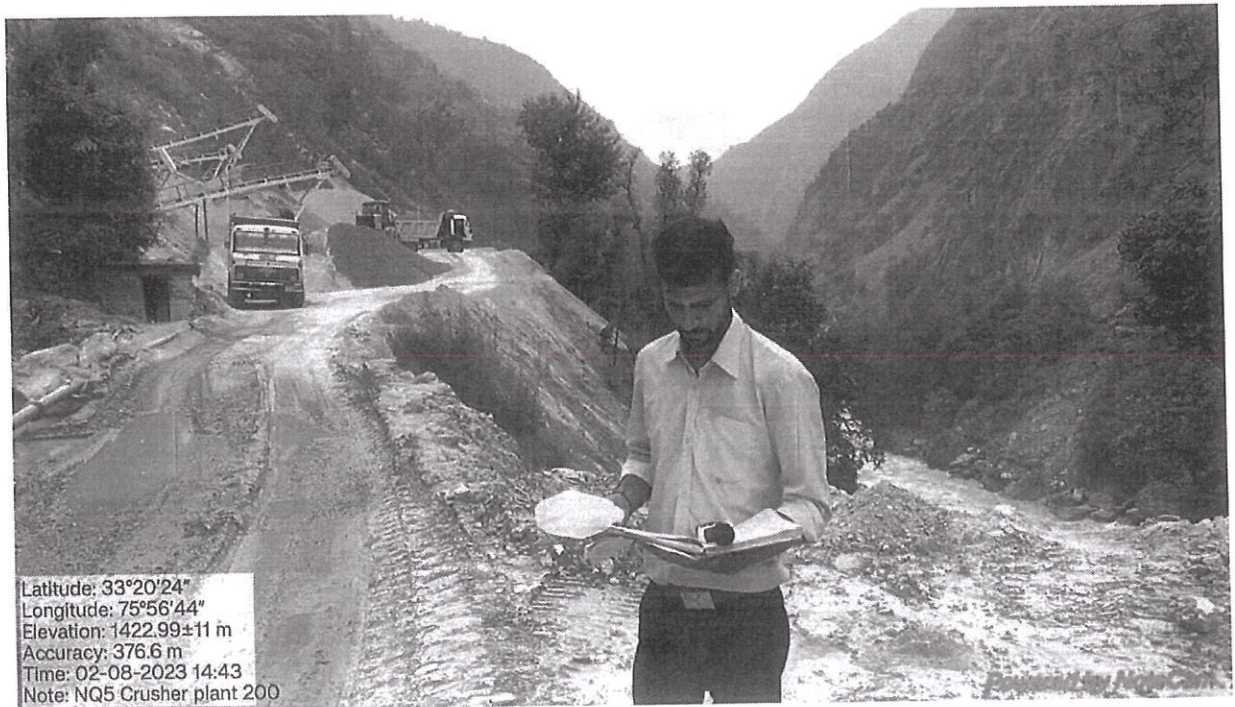
Latitude: 33°20'25"  
Longitude: 75°57'27"  
Elevation: 1520.81±19 m  
Accuracy: 10.5 m  
Time: 02-08-2023 12:07  
Note: AQ 2 Dam Top

Powered by NoteCam



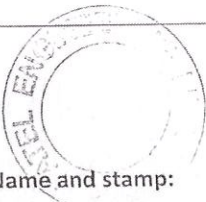
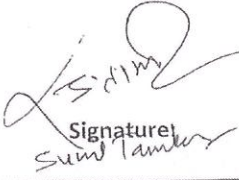
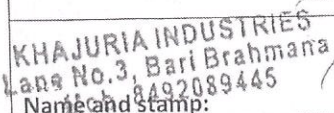
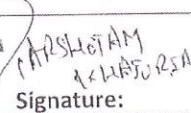




Latitude: 33°19'57"  
Longitude: 75°57'50"  
Elevation: 1589.46±6 m  
Accuracy: 12.9 m  
Time: 03-08-2023 09:10  
Note: NQ 1 Patherneki Camp



Latitude: 33°20'24"  
Longitude: 75°56'44"  
Elevation: 1422.99±11 m  
Accuracy: 376.6 m  
Time: 02-08-2023 14:43  
Note: NQ5 Crusher plant 200

FORM 10  
[See rule 19 (1)]  
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's Name and Mailing Address (including Phone No. and e-mail)	PATEL ENGINEERING LTD. KIRU H.E. PROJECT KISHTWAR.		
2.	Sender's Authorization No.			
3.	Manifest Document No.			
4.	Transporter's Name and Address: (including Phone No. and e-mail)	KHAJURIA INDUSTRIES LANE.NO.3 PHASE 2 <sup>ND</sup> SIDCO INDUSTRIAL COMOLEX BARIBRAHMNA JAMMU.		
5.	Type of Vehicle	(SPECIAL VECHILE)		
6.	Transporter's registration No.			
7.	Vehicle registration No.			
8.	Receiver's name and mailing address (including Phone No. and e-mail)	KHAJURIA INDUSTRIES LANE.NO.3 PHASE 2 <sup>ND</sup> SIDCO INDUSTRIAL COMOLEX BARIBRAHMNA JAMMU. CONTACT NO. 9419195802		
9.	Receiver's Authorization No.	23063509553 OF 2023		
10.	Waste description	CAT. 5.1(WASTE OIL)		
11.	Total quantity No. Of Containers	0.4 m <sup>3</sup> or MT 2 Nos.		
12.	Physical form			
13.	Special handling instructions and additional information	First Aid:- Wash the effected area with plenty of water & call the Doctor.		
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorized, packed, marked, and labeled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.		
	 Name and stamp:	 Signature: Sumit Kumar	07 Month	24 Day 2023 Year
15.	Transporter acknowledgement of receipt of Wastes			
	Name and stamp:	Signature:	07 Month	24 Day 2023 Year
16.	Receiver's certification for receipt of hazardous and other waste			
	 Name and stamp:	 Signature: ANSHU KUMAR	07 Month	24 Day 2023 Year

SITE OFFICE:  
Kiru Hydro Electric Project,  
Village Keroo/Galhar Bhata,  
Tehsil Nagseni, P.O Kishtwar  
District Kishtwar (J & K) – 182204  
Email: kiru.hep@pateleng.com

**Patel**  
SINCE 1930

PATEL ENGINEERING LTD.

Ref: 381/PEL/KIRU/PROJECT/2023-24/HR/861

Date: 02.07.2023

The Chandial Pharmaceutical,  
Wholesale Distributors,  
1<sup>st</sup> floor Mohalla Paharian,  
Jammu – 180004

Subject: Bio Medical Waste for Disposal.

Dear Sir,

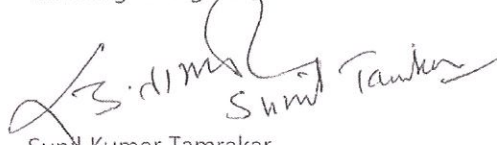
Patel Engineering Ltd. is currently constructing the Kiru Hydroelectric project with a capacity of 624MW. The project office has already been established at Kiru Hydro Electric Project Village Keroo/Galhar Bhata, Tehsil Nagseni, Jammu & Kashmir – 182204.

In accordance with project regulations, Patel Engineering has set up a safety department along with medical treatment facilities/centers to provide primary first aid treatment to workers and staff involved in the project. However, during the treatment of patients, which includes workers and staff, some biomedical waste is generated. This waste must be disposed of in accordance with Environmental rules and standards to maintain Environmental, Health, and Safety (EHS) compliance.

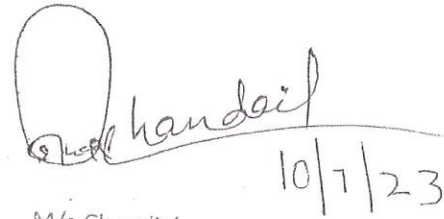
Up to this point, Patel Engineering has not yet installed a Decomposed unit in the project area for the proper disposal of biomedical waste. However, I want to inform you that the establishment of this unit is currently under process.

As per our discussion, please dispose the biomedical waste generated in Patel Engineering's dispensary for the period of April to June 2023.

Thanking & Regards,

  
Sunil Kumar Tamrakar

Manager HSE  
Kiru H.E.P. (624MW)

  
10/7/23

M/s Chandial  
Pharmaceutical  
1st Floor Mohalla Pharian  
Jammu

Encl.: 400 grams of biomedical waste

REGD. OFFICE:

Patel Estate Road, Jogeshwari (W), Mumbai – 400 102. India  
Phone +91 22 26767500, 26782916 Fax +91 22 26782455, 26781505  
Email [headoffice@pateleng.com](mailto:headoffice@pateleng.com)  
[www.pateleng.com](http://www.pateleng.com)  
CIN: L99999MH1949PLCOO7039

