

## चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड

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

### Chenab Valley Power Projects Ltd.

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

सीआईएन/CIN: U40105JK2011GOI003321

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

CVPPPL/Kiru/GM(I/c)/2024/648

Dated: 29.11.2024

Dyputy Director General of Forests (C),  
MOEF&CC,  
Integrated Regional Office (IRO), Jammu  
Plot No. 379-A, Gandhi Nagar,  
Jammu- 180004  
E-mail : iro.jammu-mefcc@gov.in

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

**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 2024.

Thanking you,

Yours faithfully,

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

#### Copy for kind information to:

1. Director, Impact Assessment Division-I,  
Ministry of Environment, Forests & Climate Change,  
Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj,  
New Delhi- 110003,  
email id: munna.shah@gov.in
2. Member Secretary, J&K Pollution Control Committee,  
Parivesh Bhawan, Forest Complex, Gladini, Narwal,  
Transport Nagar, Jammu (J&K)  
email id: membersecretaryjkspcb@gmail.com
3. General Manager (Planning), CVPPPL Corporate Office, Jammu.



### 3. Status of Land Acquisition

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

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

R&R Plan was approved by GoJK vide Government Order No. 11-DMRR&R of 2019 dated 07.03.2019 for a total amount of Rs. 99.56 Crore. An amount of Rs. 55.00 Crore has been deposited so far with the Office of Commissioner R&R out of which an amount of Rs. 40.12 Crore has so far been utilised for implementation of approved R&R Plan (i.e. Rs. 34.49 Crs disbursed to PAFs and Rs. 5.62 Crs utilized for infrastructure development works). Further, implementation of approved R&R Plan is under progress.

### 5. Status of Infrastructure works

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

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*[Signature]*

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

(for the period from April to September 2024)

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) 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	Breakup for Project area (Land details)	Forest Land: 82.05 ha Private Land: 36.93 ha State Land: 50.61 ha River Bed land (State land): 61.00 ha Total Land: 230.59 ha																																								
8	Breakup of Project affected population with enumerations of those losing house/dwelling units only, agriculture land only, both house and agriculture land and landless labours / artisans. (a) SC/ST/Adivasis (b) Others	No of affected villages : 03 Displaced PAFs : 93 Non Displaced PAFs : 66  Total PAFs : 159  (a) Scheduled Tribe : 140 families  PAF details as per title verification by Revenue Department for final disbursement:  Displaced PAFs : 92 Non Displaced PAFs : 59 Total PAFs : 151 Scheduled Tribe : 69 families																																								
9	Financial Details (a) Project cost as originally planned and subsequent revised estimates and the year of price reference (b) Actual expenditure incurred on the Project so far (c) Allocation made for Environment Management Plan (d) Actual expenditure incurred on EMP so far	TEA approved cost :Rs. 4640.88 Cr (Sept 2014 PL) CCEA approved cost :Rs. 4287.59 Cr (July 2018 PL)  Actual expenditure: Rs. 1843.90 Crore (till September 2024)  Allocations for EMP: Rs. 162.43 Crore (as approved by MoEF&CC)  Actual expenditure incurred on EMP (till Sept. 2024): <table border="1" data-bbox="722 1144 1458 1798"> <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>Public Health Delivery System*</td> <td>326.34</td> </tr> <tr> <td>vi.</td> <td>Energy Conservation Measures*</td> <td>785.50</td> </tr> <tr> <td>vii.</td> <td>Muck Disposal Plan</td> <td>151.67</td> </tr> <tr> <td>viii.</td> <td>Air &amp; Water Management Plan* #</td> <td>15.68</td> </tr> <tr> <td>ix.</td> <td>Solid Waste Management Plan*</td> <td>268.52</td> </tr> <tr> <td>x.</td> <td>Disaster Management Plan</td> <td>40.86</td> </tr> <tr> <td colspan="2" style="text-align: center;"><b>Total</b></td> <td><b>9028.64</b></td> </tr> </tbody> </table> * Includes the expenditure incurred by Contractor as per the Contract Agreement.  # Reflects only the expenditure on air, water and noise quality monitoring and does not include the expenditure of Rs. 315.29 Lac incurred by contractor under contract provisions for dust suppression measures in project area.	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.	Public Health Delivery System*	326.34	vi.	Energy Conservation Measures*	785.50	vii.	Muck Disposal Plan	151.67	viii.	Air & Water Management Plan* #	15.68	ix.	Solid Waste Management Plan*	268.52	x.	Disaster Management Plan	40.86	<b>Total</b>		<b>9028.64</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	<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: 24.09.2026.</p>
12	<p>Reasons for the delay (If the Project is yet to be started)</p>	<p>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.</p>
13	<p>Details of Site visits</p> <p>(a) By Monitoring Committee</p> <p>(b) By Regional Office</p>	<p>Nil</p> <p>Site visit conducted by Deputy Director, Sub Regional Office, Jammu on 11.05.2024. Monitoring Report dated 06.09.2024 was forwarded by Sub Regional Office to MoEF&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 stands submitted to MoEF&amp;CC vide letter dated 22.11.2024.</p>
14.	<p>Brief note on the status of compliance of the conditions stipulated by MOEF&amp;CC</p>	<p>Details are enclosed as <b>Annexure-II.</b></p>

**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.	<p>J&amp;K Forest Department was requested for implementation of the CAT Plan as outlined in the EMP report. The matter remained under continuous follow up since commencement of project execution. J&amp;K Forest Department suggested for revision of the CAT Plan.</p> <p>Series of meetings were held at various levels in Forest Department on the course of revision of CAT Plan. Finally, during a meeting chaired by PCCF(HoFF), GoJK on 07.07.2023, the decision was taken to revise the CAT Plan through consultant. In compliance to the decision taken in the said meeting, necessary directions were issued, vide letter dated 17.07.2023 of Nodal Officer (FCA), to the concerned Divisional Forest Officer (DFO) and Divisional Soil &amp; Water Conservation Officer (DSCO) to facilitate Project Authority in revision of CAT Plan.</p> <p>In consultation with Forest Department and Soil &amp; Water Conservation Department the plan was got revised through a NABET accredited consultant and the same was submitted to J&amp;K Forest Department through Divisional Forest Officer, Kishtwar and Divisional Soil &amp; Water Conservation Officer, Doda for approval of the competent authority on 04.09.2024.</p> <p>Review meetings in this regard were held with Conservator of Forests, Chenab Circle, Doda on 07.09.2024, 28.09.2024 and 07.11.2024, subsequent to which the CAT Plan report was got updated through consultant and has been submitted to Forest Department vide letter dated 23.11.2024.</p> <p>The CAT Plan has been forwarded by Conservator of Forests, Chenab Circle to CCF Jammu vide letter dated 26.11.2024 for approval of competent authority.</p> <p>The revised CAT Plan is under review by J&amp;K Forest Department and after its approval, the requisite funds shall be deposited into CAMPA Account upon receipt of demand from Forest Department.</p>
ii	R&R benefits for the land losing households will be as per NRRP-2007 & J&K state Govt. Adequate publicity of the compensation package should be circulated in the affected villages. However, this is to be compared with the state Rehabilitation and Resettlement	<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</p>

S.No.	Conditions	Compliance Status
	policy, and the more beneficial policy is to be adopted for the PAF's. All R&R issues shall be completed before commissioning of the project.	<p>implementation of the approved plan vide the same Govt. Order.</p> <p>The R&amp;R Plan, as approved by GoJK, is being implemented by the Commissioner R&amp;R appointed by GoJK.</p> <p>The approved cost of R&amp;R plan is Rs. 99.5622 Crore including the cost of Rs. 28.87 Crore towards infrastructure development component.</p> <p>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 Rs. 40.12 Crore has been utilized for R&amp;R Plan implementation by the office of Commissioner R&amp;R (i.e. Rs. 34.49 Crore disbursed to eligible PAFs and Rs. 5.62 Crore utilized for infrastructure development). The latest utilization certificate to this effect has also been received from the Additional Deputy Commissioner (office of Commissioner R&amp;R/Deputy Commissioner Kishtwar).</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.	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>The constitution of Monitoring Committee for R&amp;R was approved by the Empowered Committee in its 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.	<p>Being Complied</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) and was subsequently approved by the Committee constituted by the Empowered Committee.</p> <p>The approved local and social &amp; community development activities are under implementation and an amount of Rs. 5.62 Crs has already been utilized. The utilization certificate to this effect has also been issued by the office of Deputy Commissioner Kishtwar.</p>
vi	A minimum environmental flow of 16.33 cumec (20%) during lean season (December to March), 73.37 cumec (10%) during monsoon season (June to September) and 16.62 cumec (10%) during remaining four months (October – November & April – May) shall have to be maintained. Continuous monitoring system for the flow measurement shall be installed and data be displayed at appropriate site for civil society and stake holders. Six monthly results shall be submitted to the Regional office of the Ministry.	<p>Shall be complied</p> <p>The release of e-flows specified in the EC letter for different seasons post project commissioning shall be fully complied.</p> <p>Continuous monitoring system for flow measurement shall be installed and further, six monthly results/ data shall be submitted to Regional Office of the Ministry.</p>
vii	Dumping and consolidation/compaction of the muck shall be carried-out in the designated muck dumping sites as submitted in the EIA/EMP report. As per the proposed muck disposal plan given in EMP, out of the 25.78 lakh cubic meter of muck to be generated, 8.36 lakh cubic meter will be utilized for construction purpose and remaining 17.42 lakh cubic meter will be dumped at four designated disposal sites in an allocated area of 28.22 ha. The dumping sites shall be more than 30m away from the HFL of the river & the toe walls for muck disposal sites shall be constructed at least 30m away from HFL of river. Allocated grant of Rs. 1697.57 lakhs shall be fully utilized and not to be diverted for any other purpose.	<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 and approach roads etc.</p> <p>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.	<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. 1.1487 Crore towards Compensatory Afforestation.</p> <p>The Compensatory Afforestation works stand completed by the Forest Department in the year 2021-22 and utilization certificate to this effect has also been issued by DFO Kishtwar vide letter dated 30.05.2024.</p>

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 complied  Presently the project construction works are in full swing and sites/locations are not available for green belt development.  The green belt development works shall be undertaken in consultation with J&K Forest Department as per site availability.
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.	Being Complied  The matter remained under continuous follow up with J&K Forest Department since commencement of project execution.  The demand of funds for implementation of Biodiversity Conservation and Management Plan was received from DFO Kishtwar vide letter dated 15.10.2024. The full amount of Rs. 139.80 lacs has been deposited into CAMPA Account on 25.11.2024.  Shall be complied
xi	The Fisheries Development Plan as proposed in the EMP shall be implemented completely in consultation with the State Fisheries Department. As proposed, a fish hatchery shall be developed in 2 ha of area for development of fingerlings for stocking of reservoir and river. The budget of Rs. 798.59 lakhs provided for fisheries development plan should be fully utilized for this purpose and shall not be diverted for any other purpose.	Being Complied  The matter remained under continuous follow up with J&K Fisheries Department since 12.10.2019. Fisheries Department has planned to set up a joint fish farm for Kiru, Kwar and Kirthai-II HE Projects at village Kijai near Gulabgarh.  Demand of funds for implementation of Fisheries Development Plan was received from J&K Fisheries Department vide letter dated 31.05.2024, in pursuance to which the full amount of Rs. 798.59 lacs stands released in favour of J&K Fisheries Department on 22.07.2024.
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.

S.No.	Conditions	Compliance Status
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>Being complied</p> <p>Skill mapping of the Project Affected Families was carried out and accordingly, the Skill Development Plan was got formulated through consultant. The report on Skill Mapping and Development Plan was submitted to Commissioner R&amp;R, Kiru HEP (Deputy Commissioner, Kishtwar) on 28.09.2019 for further action in the matter.</p> <p>The said Report was forwarded by Deputy Commissioner, Kishtwar to Divisional Commissioner, Jammu vide letter No. DCK/LA/2019/355-59 dated 10.02.2020 for further approval from Government.</p> <p>The Skill Development Plan is to be approved by the Committee constituted by Empowered Committee. Further, a committee has been constituted by DC Kishtwar to revisit the Skill Development Plan for its approval by the Committee constituted by GoJK.</p> <p>Skill development is a part of the R&amp;R Plan as approved by GoJK and the same is to be implemented by Commissioner R&amp;R (Deputy Commissioner Kishtwar).</p>
xv	Use of 82.05 ha of forest land for construction of Kiru HEP by CVPP has been granted by Govt. of J&K vide no. 143-FST of 2016 dated 19.05.2016. The project proponent shall adhere to terms and conditions of this Government order strictly.	Conditions stipulated in Forest Clearance letter are being complied.
xvi	Any other clearances required from any other concerned authorities should be obtained before commencement of works and commissioning of the project, as applicable.	Being complied
<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> <p>Common mess facilities have been established by the Contractor for the labourers wherein LPG is being used as fuel.</p> <p>Further, the major Contractor is providing free fuel (LPG) in the common mess facilities to prevent any use of fire wood. The energy conservation measures as provided in the EMP are being implemented.</p>

S.No.	Conditions	Compliance Status
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 is 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 already 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 Thorough checkup of the labourers is being done by the Contractor before engaging them in the project construction work. Periodic health checkup of the labourers engaged for the major construction work is also being done by the Contractor at project site.
iv	Water sprinkling arrangements shall be made to suppress fugitive emissions/ dust.	Being complied The arrangements for sprinkling of water to control dust emission are in place. Adequate number of water tankers have been deployed by Contractor for regular water sprinkling in project area and on project roads.
v	Potable drinking water and proper sanitary facilities shall be provided for the labour force. Also, proper disposal facilities for solid waste are to be ensured.	Being complied 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.
vi	Restoration of construction area including muck dumping sites shall be ensured by leveling, filling up of borrow pits, landscaping, etc. The area should be properly planted to develop good greenery in the area.	Shall be complied
vii	Environmental parameters shall be monitored and "Six monthly monitoring reports" shall be submitted to the Ministry of Environment, Forest & Climate change, New Delhi including its Regional office for their review.	Being complied The sampling & monitoring of environmental quality parameters at Project sites for Ambient Air quality, Water quality and Noise levels is being carried out through laboratory accredited by J&K Pollution Control Committee for SMR. The latest monitoring reports of environmental quality parameters are enclosed herewith as <b>Annexure-III</b> .
viii	Solid waste management & sanitation facility will have to be provided for the labour force.	Being complied Adequate arrangements for sanitation and solid waste management are in place.
ix	Disaster management plan as provided in EMP shall be implemented in consultation with the District Authorities and early warning system shall be installed.	Being Complied As an advance measure, one Early Flood Warning System has been installed at Village Layee in Gulabgarh (upstream of Kiru HE Project).  Two more Early Flood Warning Systems are in process of installation upstream of Kiru HE Project.  Rest of the measures shall be finalised and implemented as per latest NDMA guidelines and in consultation with DDMA, coinciding with

S.No.	Conditions	Compliance Status
		advancement in project construction/ commissioning.
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.	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
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.



S.No.	Conditions	Compliance Status
16.	After five years of commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and over the downstream ecology of the project. The study shall be undertaken by independent agency to be decided in consultation with the Ministry.	Shall be complied
17.	A Multi Disciplinary Committee for monitoring the implementation of environmental safeguards during construction shall be constituted by the project proponent in consultation with the MoEF&CC, New Delhi within six weeks of the issue of the EC letter. The committee shall meet every six month to review the status of implementation of EC conditions in general and monitoring of E-flow and stability and effectiveness of muck dumping sites in particular.	Being Complied  Constitution of MDMC was approved by MoEF&CC vide letter dated 09.07.2018 with amendment dated 02.05.2019.  MDMC members were requested vide letters dated 07.03.2020 and 11.05.2021 for scheduling the meeting of the Committee. However, the meeting is yet to be convened.

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	051024L-ED-063		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.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 11/10/2024			
Sampling Team Idma	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Chenab River Up-Stream			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	11/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	-			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.45	IS 3025 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	120	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	23.2	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	16.8	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	110	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	153	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	19.4	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)



Authorised signatory



### Idma Laboratories Limited

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-063			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods
10	Residual Free chlorine	mg/L	<0.1	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	12.6	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.0041	IS 3025 (Part 53)
13	Lead as Pb	mg/L	0.0013	IS 3025 (Part 47)
14	Manganese as Mn	mg/L	0.0035	IS 3025 (Part 47)
15	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	4	IS 3025 (Part 58)
17	Feacal Coliform	MPN/100ml	148	IS 1622:1981

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*

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

Authorised signatory  
  
Karan Singh  
Tech. Mgr.  
Idma Laboratories Ltd.  
Panchkula

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	051024L-ED-064		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.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 11/10/2024			
Sampling Team Idma	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Chenav River Down Stream			
Visual Observation	N/A			
Date of Sampling	30/09/2024			
Date of Reporting	11/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	-			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.46	IS 3025 (Part 11)
2	Alkalinity as CaCO3	mg/L	113	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	28.8	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	15.2	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	7.0	IS 3025 (Part 38)
6	Hardness Total (as CaCO3)	mg/L	140	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	154	IS 3025 (Part 16)
8	Sulphate as SO4	mg/L	19.0	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)

Reviewed by   
Dipti Jain  
Asst. Tech. Manager

Authorised signatory   
Kartar Singh  
Tech. Mgr.

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## TEST REPORT

Lab No.	051024L-ED-064			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods
10	Residual Free chlorine	mg/L	<0.1	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	16.5	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.0041	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ (LOQ-0.0005)	IS 3025 (Part 47)
14	Manganese as Mn	mg/L	0.0034	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	5	IS 3025 (Part 58)
17	Faecal Coliform	MPN/100ml	177	IS 1622:1981

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.	051024L-ED-049/B		Page No. 1/1
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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant CP-240, Base Camp.		
Visual Observation	N/A		
Date of Sampling	30/09/2024		
Date of Reporting	10/10/2024		
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>	0.38	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<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)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



## TEST REPORT

Page No. 1/2

Lab No.	051024L-ED-049/A		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#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-240, Base Camp.			
Visual Observation	N/A			
Date of Sampling	30/09/2024			
Date of Reporting	10/10/2024			
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>	79.5	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	32.1	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	14.7	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	16.3	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	21.4	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	22	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  
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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	051024L-ED-049/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\*\*



Authorised signatory

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# Idma Laboratories Limited



## TEST REPORT

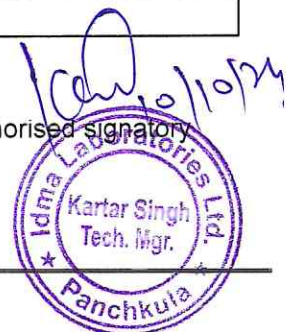
Lab No.	051024L-ED-050/A		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Crusher Plant 600 TPH, Base Camp.			
Visual Observation	N/A			
Date of Sampling	30/09/2024			
Date of Reporting	10/10/2024			
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>	80.2	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	35.7	Max. 60	IDL/SP/03, Issue No-1
3	SO <sub>2</sub>	µg/m <sup>3</sup>	15.0	Max. 80	IS 5182 (Part 2)
4	NO <sub>2</sub>	µg/m <sup>3</sup>	18.4	Max. 80	IS 5182 (Part 6)
5	NH <sub>3</sub>	µg/m <sup>3</sup>	22.6	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	20	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.		051024L-ED-050/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\*\*



*Kartar Singh*  
10/10/24

Authorised signatory



### Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

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Haryana (India)

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	051024L-ED-050/B		Page No. 1/1
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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Crusher Plant 600 TPH, Base Camp.		
Visual Observation	N/A		
Date of Sampling	30/09/2024		
Date of Reporting	10/10/2024		
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>	0.39	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<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)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	051024L-ED-051/A		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#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
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	30/09/2024			
Date of Reporting	10/10/2024			
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>	81.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	36.0	Max. 60	IDL/SP/03, Issue No-1
3	SO <sub>2</sub>	µg/m <sup>3</sup>	15.4	Max. 80	IS 5182 (Part 2)
4	NO <sub>2</sub>	µg/m <sup>3</sup>	17.9	Max. 80	IS 5182 (Part 6)
5	NH <sub>3</sub>	µg/m <sup>3</sup>	22.1	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	21.	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  
  
Dipit Jain  
Asst. Tech. Manager  
Idma Laboratories Limited  
Panchkula

Authorised signatory  
  
Kartar Singh  
Tech. Mgr.  
Idma Laboratories Limited  
Panchkula

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# Idma Laboratories Limited



## TEST REPORT

Lab No.		051024L-ED-051/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m <sup>3</sup>	<01	Max. 1.0	EPA/625/R-96/010a	

# Represents details provided by the customer.

\*\*End of Report\*\*

*Dipti Jain*  
Reviewed by



*Kartar Singh*  
Authorised signatory



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	051024L-ED-051/B		Page No.	1/21
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#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
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	30/09/2024			
Date of Reporting	10/10/2024			
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>	0.38	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<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)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	051024L-ED-052/A	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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant CP-30, Near Main Office.		
Visual Observation	N/A		
Date of Sampling	01/10/2024		
Date of Reporting	10/10/2024		
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>	77.2	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	31.8	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>	17.3	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	20.9	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	20	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.		051024L-ED-052/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\*\*

Reviewed by  
*[Signature]*  
10/10/24

Authorised signatory  
*[Signature]*  
10/10/24

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	051024L-ED-052/B		Page No. 1/1
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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant CP-30, Near Main Office.		
Visual Observation	N/A		
Date of Sampling	01/10/2024		
Date of Reporting	10/10/2024		
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>	0.34	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<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)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-053/A		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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Primary Crusher Pathernaki		
Visual Observation	N/A		
Date of Sampling	01/10/2024		
Date of Reporting	10/10/2024		
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>	81.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	35.6	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	16.0	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	18.2	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	22.1	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	23	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



TC-8207

## TEST REPORT

Lab No.	051024L-ED-053/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.	051024L-ED-053/B		Page No. 1/1	
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#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Primary Crusher Pathernaki			
Visual Observation	N/A			
Date of Sampling	01/10/2024			
Date of Reporting	10/10/2024			
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>	0.40	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<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)

# 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@idmlab.co.in](mailto:commercial@idmlab.co.in)

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# Idma Laboratories Limited

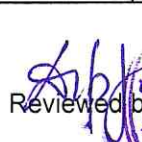


## TEST REPORT

Lab No.	051024L-ED-054/A		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#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stone Quarry Pathernaki			
Visual Observation	N/A			
Date of Sampling	30/09/2024			
Date of Reporting	10/10/2024			
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>	80.4	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	38.9	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	15.0	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	17.2	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	21.6	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	20	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   
Dipal Jain  
Tech. Manager  
Panchkula

Authorised signatory   
Kartar Singh  
Tech. Mgr.  
Panchkula

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# Idma Laboratories Limited



## TEST REPORT

Lab No.		051024L-ED-054/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\*\*

*Dipti Jain*  
10/10/24  
Reviewed by

*Kartar Singh*  
10/10/24  
Authorised signatory

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	051024L-ED-054/B		Page No.	1/1
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#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stone Quarry Pathernaki			
Visual Observation	N/A			
Date of Sampling	30/09/2024			
Date of Reporting	10/10/2024			
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>	0.38	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<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)

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by



Authorised signatory



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# Idma Laboratories Limited



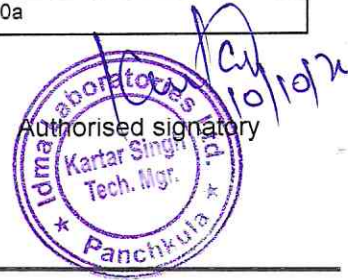
TC-8207

## TEST REPORT

Lab No.	051024L-ED-055/A		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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant, CP-240, Base Camp.		
Visual Observation	N/A		
Date of Sampling	01/10/2024		
Date of Reporting	10/10/2024		
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>	76.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	32.8	Max. 60	IDL/SP/03, Issue No-1
3	SO <sub>2</sub>	µg/m <sup>3</sup>	14.5	Max. 80	IS 5182 (Part 2)
4	NO <sub>2</sub>	µg/m <sup>3</sup>	16.7	Max. 80	IS 5182 (Part 6)
5	NH <sub>3</sub>	µg/m <sup>3</sup>	22.1	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	20.4	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



TC-8207

## TEST REPORT

Lab No.		051024L-ED-055/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\*\*

Reviewed by  
  


Authorised signatory  
  


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# Idma Laboratories Limited

## TEST REPORT

Lab No.	051024L-ED-055/B		Page No. 1/1
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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant, CP-240, Base Camp.		
Visual Observation	N/A		
Date of Sampling	01/10/2024		
Date of Reporting	10/10/2024		
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>	0.39	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<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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\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	051024L-ED-056	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#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant CP-240, Base Camp.		
Visual Observation	N/A		
Date of Sampling	30/09/2024		
Date of Reporting	10/10/2024		
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)	62.7	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	55.3	Max 70	CPCB PROTOCOL July 2015.

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-057	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#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Crusher Plant 600 TPH, Base Camp.		
Visual Observation	N/A		
Date of Sampling	30/09/2024		
Date of Reporting	10/10/2024		
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)	60.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	54.2	Max 70	CPCB PROTOCOL July 2015.

# Represents details provided by the customer.

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-058	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#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
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	30/09/2024		
Date of Reporting	10/10/2024		
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)	61.4	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	52.7	Max 70	CPCB PROTOCOL July 2015.

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



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-059		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#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
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	30/09/2024		
Date of Reporting	10/10/2024		
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)	64.0	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	55.1	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.	051024L-ED-060		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#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Primary crusher, Pathernaki.			
Visual Observation	N/A			
Date of Sampling	30/09/2024			
Date of Reporting	10/10/2024			
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)	70.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	62.8	Max 70	CPCB PROTOCOL July 2015.

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by   


  
Authorised signatory  


### Idma Laboratories Limited

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-061		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#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stone Quarry, Pathernaki			
Visual Observation	N/A			
Date of Sampling	30/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.5	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	65.7	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.	051024L-ED-062	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#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Batching Plant CP-240, Base Camp.		
Visual Observation	N/A		
Date of Sampling	30/09/2024		
Date of Reporting	10/10/2024		
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)	70.4	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	62.5	Max 70	CPCB PROTOCOL July 2015.

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-065		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample#	Waste Water (Mess)		
Customer's Description of Sample#	Waste Water (Mess)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	05/10/2024		
Period of Analysis	05/10/2024 To 10/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Worker Camp Pathernaki		
Visual Observation	N/A		
Date of Sampling	29/09/2024		
Date of Reporting	10/10/2024		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.32	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	182.3	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	16.4	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	602	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	26	Max 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-066		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Staff Camp Pathernaki			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.41	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	156	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	<2.5	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	458	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	24	Max 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

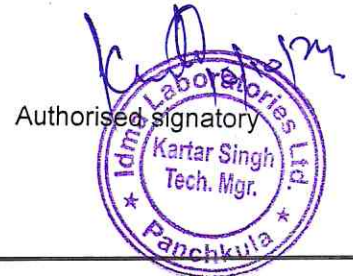
Lab No.	051024L-ED-067		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Camp Near Main Office			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.26	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	144	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	518	-	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



TC-8207

## TEST REPORT

Lab No.	051024L-ED-068		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Officer Colony Padyarna.			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.32	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	158	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	459	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	24	Max 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-069		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Mess)			
Customer's Description of Sample#	Waste Water (Mess)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Right Bank Dam Site Worker Camp.			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.52	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	148	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	24	Max 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	2.9	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	412	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	39	Max 100	IS 3025 (Part 17)

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Reviewed by   
  
 Dipal Jain  
 Asst. Tech. Manager  
 Panchkula

Authorised signatory   
  
 Kartar Singh  
 Tech. Mgr.  
 Panchkula

### Idma Laboratories Limited

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# Idma Laboratories Limited



TC-8207

## TEST REPORT

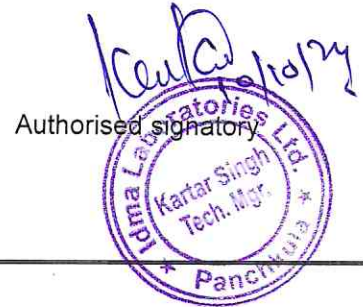
Lab No.	051024L-ED-070		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Batching Plant)			
Customer's Description of Sample#	Waste Water (Batching Plant)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
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	30/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.37	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	192	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	24	Max 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.0	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	486	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	31	Max 100	IS 3025 (Part 17)

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-071		Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Batching Plant)			
Customer's Description of Sample#	Waste Water (Batching Plant)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Batching Plant CP-240 Base Camp.			
Visual Observation	N/A			
Date of Sampling	30/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.44	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	136	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	<2.5	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	427	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	36	Max 100	IS 3025 (Part 17)

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by   
Pipti Jain  
Asst. Tech. Manager  


Authorised signatory   
Kartar Singh  
Tech. Mgr.  


### Idma Laboratories Limited

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# Idma Laboratories Limited



## TEST REPORT

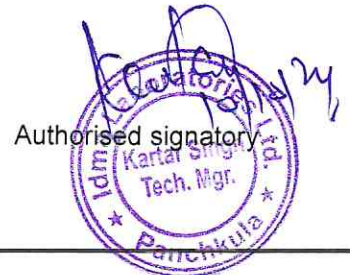
Lab No.	051024L-ED-072			Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir				
Type of Sample#	Waste Water (Batching Plant)				
Customer's Description of Sample#	Waste Water (Batching Plant)				
Quantity#	5 Ltr.				
Packing, Markings#	Plastic Can.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	05/10/2024				
Period of Analysis	05/10/2024 To 10/10/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Batching Plant CP-240, Base Camp.				
Visual Observation	N/A				
Date of Sampling	30/09/2024				
Date of Reporting	10/10/2024				
Sampling Protocol	IS:17614 (PART-1):2021				
Testing Protocol	CPCB				

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.34	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	162	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	24	Max 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.8	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	509	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	27	Max 100	IS 3025 (Part 17)

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-073		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Crusher Plant)			
Customer's Description of Sample#	Waste Water (Crusher Plant)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Crusher Plant 600 TPH, Base Camp.			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			



## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.21	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	92	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	12	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	395	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	28	Max 100	IS 3025 (Part 17)

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by   
 Poo Poo Jain  
 Asst. Tech. Manager  


Authorised signatory   
 Kartar Singh  
 Tech. Mgr.  


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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	051024L-ED-074		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Crusher Plant)			
Customer's Description of Sample#	Waste Water (Crusher Plant)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
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	29/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.20	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	102	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	2.8	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	429	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	32	Max 100	IS 3025 (Part 17)

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by  
  
 Dipti Jain  
 Asst. Tech. Manager  


Authorised signatory  
  
 Alok Kumar  
 Tech. Mgr.  


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# Idma Laboratories Limited



## TEST REPORT

Lab No.	051024L-ED-075		Page No.	1/1
Customer#	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir			
Type of Sample#	Waste Water (Crusher Plant)			
Customer's Description of Sample#	Waste Water (Crusher Plant)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	05/10/2024			
Period of Analysis	05/10/2024 To 10/10/2024			
Sampling Team	Idma Representative Team		Client	Mr. Alok Kumar
Sampling Location#	Primary Crusher Pathernaki			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	10/10/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.19	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	112	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	10	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	382	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	22	Max 100	IS 3025 (Part 17)

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