



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

किरू जलविद्युत परियोजना
Kiru Hydroelectric Project
Chenab Nagar-II, Kishtwar(J&K)
फोन नं/Phone No:01995-259505
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CVPPPL/Kiru/GM(I/c)/2024/ 185

Dated: 31.05.2024

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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: Six monthly Environment Clearance (EC) Compliance Report for the period from October 2023 to March 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 six monthly Environment Clearance (EC) Compliance Report, for the period from October 2023 to March 2024.

Thanking you,

Yours faithfully,


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.

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

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

1. Status of Clearances:

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

2. Status of construction activities

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

- Civil Works Package (Lot I)** : Awarded to M/s Patel Engineering Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 15.06.2020. Construction activities related to major Civil Components viz. Dam concrete works, Power Intake concrete works, Power House concrete works, Transformer Hall 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 2nd stage embedded parts of Diversion Tunnel Gates completed. Also, erection of construction sluice groove liners has been completed in Dam blocks and erection of Pressure Shaft Steel liners in Pressure shafts has been started. Further, manufacturing and supply of other components is in progress.
- Electro-Mechanical Package (Lot III)** : Awarded to M/s Andritz Hydro Pvt. Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 22.06.2020. Design & Engineering work of Turbine, MIV, Generator & balance components of plant is in advance stage. E&M components required for commencement of erection works reached at site. Manufacturing and Supply of various components at site is in progress.

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. 38.50 Crore has so far been utilised for implementation of approved R&R Plan (i.e. Rs. 34.49 Crs disbursed to PAFs and Rs. 4.01 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 is under progress.
3. Construction of temporary residential infrastructure at project site has been completed.
4. Construction of temporary office building at project site has been completed.
5. Work related to providing Construction Power has been completed through J&K Power Development Department as deposit work.
6. Laying of LT Distribution Network has been completed and Project site Offices and residential buildings have been connected to Grid Power.
7. Construction work of water supply for temporary field hostels and offices has been completed.
8. Construction of two bridges (through BRO as deposit work) has been completed to facilitate the construction of the project .
9. 70R steel truss bridge connecting right bank has been completed.

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

(for the period from October 2023 to March 2024)

1	Name of Project	Kiru Hydro-Electric Project (624 MW)																														
2	Type of Project	Hydro-Electric Project																														
3	Clearance letters OM No. & date (a) Environment Clearance (b) Forest Clearance	(a) Letter No. J-12011/32/2008-IA.1 dated 24.06.2016 & Corrigendum dated 29.07.2016. (b) Order No. 143-FST of 2016 dated 19.05.2016 of Govt. of Jammu and Kashmir (for 82.05 Ha land)																														
4	Locations (a) District (s) (b) State (c) Latitude (d) Longitude	(a) Kishtwar (b) Jammu and Kashmir (c) 33°20'37"N (d) 75°57'34"E																														
5	Address for Correspondence (a) Address of concerned Project Head (with Pin code, Telephone/Fax no.) (b) Address of concerned HOD in Corporate Office (with Pin code, Telephone/Fax no.)	(a) General Manager (I/c) & HoP Kiru HE Project, Chenab Valley Power Projects (P) Ltd., Chenab Nagar-II, District Kishtwar, UT Jammu and Kashmir Pin code- 182 206 Telephone: - 01995-259505 email id:gmkkcvpp@gmail.com, hopkiru@cvppindia.com (b) Managing Director, Chenab Valley Power Projects (P) Ltd., Chenab Jal Shakti Bhavan, Opposite Saraswati Dham, Rail Head Complex, Jammu (UT J&K); Pin code 180 012 Phone/ Fax: 0191 2479826/ 2479835																														
6	Details of Environmental Management Plan	Environmental Management Plans to be implemented at the Project are: <table><tr><th>S.No.</th><th>EMP</th></tr><tr><td>1.</td><td>Biodiversity Conservation & Management Plan</td></tr><tr><td>2.</td><td>Catchment Area Treatment Plan</td></tr><tr><td>3.</td><td>Fisheries Development Plan</td></tr><tr><td>4.</td><td>Solid Waste Management Plan</td></tr><tr><td>5.</td><td>Public Health Delivery System</td></tr><tr><td>6.</td><td>Energy Conservation Measures</td></tr><tr><td>7.</td><td>Muck Disposal Plan</td></tr><tr><td>8.</td><td>Landscaping & restoration Plan</td></tr><tr><td>9.</td><td>Air & Water Management Plan</td></tr><tr><td>10.</td><td>Reservoir Rim treatment Plan</td></tr><tr><td>11.</td><td>Compensatory Afforestation plan</td></tr><tr><td>12.</td><td>Rehabilitation & Resettlement Plan</td></tr><tr><td>13.</td><td>Environmental Monitoring Programme</td></tr><tr><td>14.</td><td>Disaster Management Plan</td></tr></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
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. 1423.08 Crore (till March 2024) Allocations for EMP: Rs. 162.43 Crore (as approved by MoEF&CC) Actual expenditure incurred on EMP (till March 2024): i) Payment released on account of Forest Clearance: : Rs 944.63 Lakh (including Rs. 114.87 Lakh on account of Compensatory Afforestation Plan) Payment released towards extraction of Forest Trees: : Rs. 52.99 Lakh ii) Implementation of R&R Plan : Rs. 5500.00 Lakh (deposited with Commissioner R&R) Skill Mapping and formulation of Skill Development Plan : Rs. 4.06 Lakh iii) Public Health Delivery System* : Rs. 285.30 Lakh iv) Energy Conservation Measures* : Rs. 661.83 Lakh v) Muck Disposal Plan* : Rs. 74.55 Lakh vi) Air & Water Management Plan* : Rs. 10.30 Lakh # vii) Solid Waste Management Plan* : Rs. 207.41 Lakh viii) Disaster Management Plan : Rs. 38.13 Lakh Total : Rs. 7779.20 Lakh * 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. 252.13 lakh incurred by contractor under contract provisions for dust suppression measures on project roads.

10	<p>Forest Land Requirements</p> <p>(a) Status of approval diversion of Forest Land for non-forestry use</p> <p>(b) The status of clear felling of trees in Forest Land</p>	<p>(a) Forest clearance for diversion of 82.05 Ha forest land accorded by Govt. of Jammu and Kashmir vide Order No. 143- FST of 2016 dated 19.05.2016.</p> <p>(b) Clear felling status: - Tree felling at work sites has been completed by J&K Forest Corporation. The diverted forest land has been taken over from Forest Department on 14.03.2018.</p>
11	<p>Status of Construction</p> <p>(a) Date of commencement (actual and/or planned)</p> <p>(b) Date of completion (actual and/or planned)</p>	<p>(a) Date of commencement of major works of the Project : 24.02.2020.</p> <p>(b) Date of completion: 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 Annexure-II .

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

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

S.No.	Conditions	Compliance Status
	Specific conditions	
i	The Catchment Area Treatment Plan (CAT) as has been proposed in the EMP shall be strictly implemented in consultation with the J&K State Forest Department. Major works of CAT shall be completed before impounding of reservoir. The CAT plan will be implemented in 5 years. Financial allocation of Rs. 1883.82 lakhs for CAT plan implementation shall be fully utilized and the same shall not be diverted for any other purpose. As per CAT plan, the area of CAT is 1849.28 ha.	<ul style="list-style-type: none"> - The matter was taken up with J&K Soil & 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. - For expediting the implementation of CAT Plan, the matter was further taken up with PCCF (HoFF), J&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&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&K for reviewing the progress of implementation of CAT Plan. - The first meeting of said Committee was held on 09.11.2020 under the Chairmanship of PCCF(HoFF), J&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. - J&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. - CAT Plan of Project was updated and submitted to J&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&K Forest Department vide no. PCCF/FCA/1226-III/1980 dt. 28.08.2021. The reply of observations was submitted vide no. CVPPPL/Kiru/HoP/2021/1079 dt. 25.09.2021. - 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. - Additional PCCF (Nodal Officer) vide letter no. PCCF/FCA/1226-II/2109-14 dated 14.07.2022 forwarded the comments/observations received from Soil & Water Conservation Department with the request to submit the plan in accordance with the recent schedule rates. - Further a meeting was held with Director (Soil

S.No.	Conditions	Compliance Status
		<p>& 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.</p> <ul style="list-style-type: none"> - Further, a review meeting under the Chairmanship of PCCF & 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. - Further, CVPP vide letter no. CVPP/CO/MD Sectt./2023/374 dated 23.06.2023 requested PCCF & HoFF to convene a meeting to finalise the mechanism of revision of CAT plan. - Review meeting under the Chairmanship of PCCF & HoFF was held on 07.07.2023 regarding progress of CAT Plan and the need to revise the CAT plan. - As advised by Forest Department, the process for engagement of NABET accredited consultant for revision of CAT Plan was initiated whereby NIT was issued through GeM on 12.01.2024. The bids received remained under evaluation, clarification and approval stage upto 31.03.2024 (i.e. the reporting period). <p>{The contract has been awarded on 04.04.2024 and work for revision of CAT Plan is in progress}</p>
ii	R&R benefits for the land losing households will be as per NRRP-2007 & J&K state Govt. Adequate publicity of the compensation package should be circulated in the affected villages. However, this is to be compared with the state Rehabilitation and Resettlement policy, and the more beneficial policy is to be adopted for the PAF's. All R&R issues shall be completed before commissioning of the project.	<ul style="list-style-type: none"> - R&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&R Plan of Kiru HE Project was constituted by GoJK vide G.O. No. 1088-GAD of 2017 dated 24.08.2017. - 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 /

S.No.	Conditions	Compliance Status
		<p>Secretary Revenue Deptt. on 30.01.2018 for approval of GoJK.</p> <ul style="list-style-type: none"> - 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 through Minutes of Meeting issued on 21.05.2018. - The R&R Plan of Project was approved by the State Administrative Council (SAC) and formal approval order was issued vide Govt. Order No. 11-DMRR&R of 2019 dated 07.03.2019. - The R&R Plan, as approved by GoJK, is being implemented by the Commissioner R&R appointed by GoJK. - Till date, an amount of Rs. 55.00 crore has been deposited by Project with Commissioner R&R, out of which an amount of Rs. 38.50 Crore has been utilized (i.e. Rs. 34.49 Cr disbursed to PAFs and Rs. 4.01 Cr utilized for infrastructure development works).
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&R was constituted in the Empowered Committee Meeting held under the Chairmanship of Chief Secretary, J&K on 06.04.2018.</p> <p>The Committee shall include apart from the Officers of the State Govt. as one of its members:</p> <ol style="list-style-type: none"> 1. A representative of a woman residing in the area, 2. A representative each of SC & ST residing in the area, 3. A representative of a voluntary organization, 4. A representative of the lead bank, 5. Chairperson(s) of the Panchayats and municipalities located in the affected area, or their nominee(s), 6. Members of Parliament and members of Legislative Assembly of the area included in the affected area, 7. The land acquisition officer of the Project, and 8. A representative of the requiring body. <p>Formal Govt. Order for constitution of the Committee is awaited.</p>

S.No.	Conditions	Compliance Status
v	All the commitments made during the public hearing should be fulfilled completely by project proponent and record maintained.	<ul style="list-style-type: none"> - District Administration prepared the R&R plan for Govt. approval after consultations with all stake holders and duly considering the aspirations and demands of local people. - The R&R Plan as approved by GoJK is under the process of implementation.
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>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>Usable portion of muck is also being stacked for its use in future construction works.</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.	<ul style="list-style-type: none"> - An amount of Rs 9.446 Crore was deposited with J&K Forest Department for diversion of 82.05 Ha of Forest land including Rs. 1.1487 Crore towards Compensatory Afforestation. - As intimated by Forest Department, the Compensatory Afforestation works stand completed under CAMPA. - However, DFO Kishtwar has been requested to provide the physical and financial details of the completed works with utilization certificate. The same are awaited.
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 J&K Forest Department.

S.No.	Conditions	Compliance Status
	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.	
x	<p>Proposed Biodiversity Conservation & Management plan as outlined in the EMP shall be implemented with State Forest Department. The allocated budget of Rs. 139.80 lakhs for this purpose shall be fully utilized and shall not be diverted for any other purpose.</p> <p>Proposed Reservoir Rim Treatment Plan with both biological and engineering measures shall be implemented strictly. Allocated amount of Rs. 620.17 lakhs should be fully utilized and shall not be diverted for any other purpose.</p>	<p>- J&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.</p> <p>- Further, vide letter no. CVPPPL/Kiru/GGM/2022-23/3188 dated 29.03.2023, J&K Forest Deptt was again requested to convey the approval of the Plan along with demand for financial expenditure.</p> <p>- A review meeting under the Chairmanship of PCCF & HoFF was held on 07.07.2023.</p> <p>- Vide letter No. CVPP/CO/Plg/2024/230 dated 07.03.2024, the matter was again taken up with PCCF (HoFF).</p> <p>- Approval of Biodiversity Conservation and Management Plan by J&K Forest Department is yet awaited.</p> <p>{Subsequent to 31.03.2024, directions were issued by PCCF (HoFF) to DFO Kishtwar for submission of APO regarding Biodiversity Plan}</p> <p>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.	<p>- 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 was taken up with J&K Fisheries Department.</p> <p>- In this regard, the site inspection of identified land at Kiru HE Project has already been carried out by the Officials of J&K Fisheries Department for development of Composite fish farm and other allied structures as per Fisheries Development Plan provided under EMP.</p> <p>- A meeting of the committee constituted vide</p>

S.No.	Conditions	Compliance Status
		<p>Fisheries Order No. 276-Fisheries of 2022 dated 14.04.2022 was held under the chairmanship of Joint Director, Fisheries Central, Jammu, regarding implementation of Fisheries Development Plan.</p> <ul style="list-style-type: none"> - A committee for implementation of fisheries Development plan visited the proposed site to ascertain the feasibility of land at Kijai village, in Padder Block. 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. - 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. - Joint Director Fisheries vide letter No. JDF/C/J/2023/3801-07 dated 30.11.2023 submitted report of the committee with abstract of cost to Director Fisheries. - Project vide letter Nos. CVPPPL/Kiru/GM(I/c)/2024/1252 dated 22.01.2024 and No. CVPPPL/Kiru/GM(I/c)/2024/1389 dated 06.03.2024 requested Director Fisheries to expedite the process and raise demand of funds. - Fisheries Department took up the matter for formulation of DPR with Administrative Department which advised to proceed in the matter within ambit of GFR-17 of Finance Department. Deputy Director Fisheries vide letter no. DF/Plan/2024/337 dated 14.03.2024 intimated Assistant Director Fisheries to approach Chief Engineer (R&B) PWD for formulation of DPR. - The matter is being constantly followed up with J&K Fisheries Department for implementation of the Plan.
xi(a)	The total project cost is Rs. 4640.88 crores and EMP budget is Rs 147.32 crores is about 3.2%. The overall EMP budget should be raised to 3.5% (i.e 162.43 crores) of the project cost.	<p>Complied</p> <p>MoEF&CC itself increased the EMP budget from Rs. 147.32 Crores to Rs. 162.43 Crores by provisioning additional amount of Rs. 15.1073 Crores for Skill Mapping and Development Plan (as per the minutes of 91st meeting of EAC).</p>

S.No.	Conditions	Compliance Status
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 shall be maintained during Project operation.
xiii	To maintain flourishing fish population/communities in the river, the river must witness all seasonal changes including low flow levels during lean season to maximum during monsoon/floods/high rains.	Shall be complied with release of the stipulated e-flows during Project operation.
xiv	Skill mapping of the area to be conducted, mentioning the skills inherent of the local people, skill requirement of the project and the best ways to develop the skills in the local people so that the locals can be employed in the project.	Being complied - Skill mapping of the Project Affected Families was carried out and accordingly, the Skill Development Plan was formulated in Sept. 2019. The report on Skill Mapping and Development Plan was submitted to Commissioner R&R, Kiru HEP (Deputy Commissioner, Kishtwar) on 28.09.2019 for further action in the matter. - The said Report was forwarded by Deputy Commissioner, Kishtwar to Divisional Commissioner, Jammu vide letter No. DCK/LA/2019/355-59 dated 10.02.2020 for further approval from Government. - 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&R has been requested by Kiru Project Authorities for expediting the approval of the Plan by the Committee constituted in the matter by J&K Govt. - A meeting regarding Skill Development Plan was held on 04.07.2022 under the chairmanship of Additional District Development Commissioner, Kishtwar. - A review meeting regarding Skill Development Plan was held on 12.09.2022 under the chairmanship of Deputy Commissioner, Kishtwar. - The matter is being followed up and approval of J&K Government is awaited.
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.

S.No.	Conditions	Compliance Status
xvi	Any other clearances required from any other concerned authorities should be obtained before commencement of works and commissioning of the project, as applicable.	Being complied
General Conditions		
i	Adequate arrangements for ensuring availability of fuel like kerosene/LPG shall be provided at the project cost for the labourers to be engaged during construction work so that Indiscriminate felling of trees is prevented. The energy conservation measures as provided in EMP shall be fully implemented.	Being complied - Common mess facilities are being provided by the Contractor to the labourers wherein LPG is being used as fuel. - 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 are being implemented.
ii	Medical facilities as well as recreational facilities shall also be provided to the labourers.	Being complied - Four dispensaries have been established at Project site (i.e. three by major Contractor and one by the Project) to cater to the health requirements of the work force. Dispensaries of Contractor are being manned by one doctor and six paramedical staff and dispensary of Project is being manned by one paramedic. - Three ambulances have also been provided at Project site (i.e., Two by the major Contractor and one by the Project). - With the development of infrastructure at project site, the required recreational facilities are 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	Shall be complied

S.No.	Conditions	Compliance Status
	leveling, filling up of borrow pits, landscaping, etc. The area should be properly planted to develop good greenery in the area.	
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 Annexure-III .
viii	Solid waste management & sanitation facility will have to be provided for the labour force.	Being complied
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, the Early Flood Warning System has been installed. Rest of the measures shall be finalised and implemented as per latest NDMA guidelines and in consultation with DDMA, coinciding with advancement in project construction/ commissioning.
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.
Other Conditions mentioned in the EC Letter		
5.	The project proponent shall provide full cooperation and provide all requisite documents/data to the officials from concerned Regional Office of the Ministry who would be monitoring the implementation of environmental safeguards and to undertake inspection.	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

S.No.	Conditions	Compliance Status
9.	In case of change in the scope of the Project, the same may be intimated to the Ministry and a fresh approval, if required, shall be taken from the Ministry.	Shall be complied (in case of requirement)
12.	A copy of clearance letter shall be marked to concerned anchayat/Zila Parishad/Municipal Corporation, Urban Local Body and local NGO, if any, from whom any suggestion/representations were received while processing the proposal.	Complied
14.	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of the clearance letters are available with State Pollution Control Board/Committee and may also be seen at website of Ministry of Environment, Forest & Climate Change at http://www.moef.nic.in .	Complied. Advertisement was published in two newspapers viz: 1. Daily Excelsior (English) dated 30.06.2016 and 2. Daily Udaan (Urdu) dated 30.06.2016.
15.	The project proponent shall also submit six monthly reports on the status of compliance of stipulated EC conditions including the results of monitored data (both in hard copies as well as by e-mail) to respective Regional Office of MoEF&CC.	Being Complied. 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 - The proposal for constitution of Multi Disciplinary Committee was submitted to MoEF&CC on 12.07.2016. Revised proposal along with nomination letters of proposed committee members was submitted to MoEF&CC on 24.05.2017. - Approval for constitution of committee was granted by MoEF&CC vide letter no. J-12011/32/2008-IA.1 dated 09.07.2018. - However, vide letter dated 25.03.2019, MoEF&CC was requested for minor amendment in the approval letter for clarity which was granted by MoEF&CC vide letter no. J-12011/32/2008-IA-I dated 02.05.2019. - All the members of Multi-Disciplinary Committee were intimated regarding

S.No.	Conditions	Compliance Status
		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 & CVPP/HoPSectt./2021/429 dated 11.05.2021. However, meeting of Committee is yet to be held.

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TEST REPORT

Lab No.	260324L-ED-017			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	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	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Primary crusher plant, Patherdaki.				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	CPCB PROTOCOL:2015				
Testing Protocol	CPCB PROTOCOL July 2015				

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	67.8	Max 70	CPCB PROTOCOL July 2015.



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TEST REPORT

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TC-8207

TEST REPORT

Lab No.	260324L-ED-018			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	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	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	200TPH Crusher Plant, Near Main Office.				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	CPCB PROTOCOL:2015				
Testing Protocol	CPCB PROTOCOL July 2015				

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	70.8	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	66.4	Max 70	CPCB PROTOCOL July 2015.



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TEST REPORT

Lab No.	260324L-ED-019			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	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	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	CP-240, Batching Plant, Base Camp.				
Visual Observation	N/A				
Date of Sampling	23/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	CPCB PROTOCOL:2015				
Testing Protocol	CPCB PROTOCOL July 2015				

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	73.1	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	62.7	Max 70	CPCB PROTOCOL July 2015.



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TEST REPORT

Lab No.	260324L-ED-020			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	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	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	CP-240, Batching Plant, Base Camp.				
Visual Observation	N/A				
Date of Sampling	23/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	CPCB PROTOCOL:2015				
Testing Protocol	CPCB PROTOCOL July 2015				

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	70.5	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	65.3	Max 70	CPCB PROTOCOL July 2015.



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TEST REPORT

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TEST REPORT

Lab No.	260324L-ED-021			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	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	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	600 TPH, crusher plant, Base Camp.				
Visual Observation	N/A				
Date of Sampling	23/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	CPCB PROTOCOL:2015				
Testing Protocol	CPCB PROTOCOL July 2015				

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	69.4	Max 70	CPCB PROTOCOL July 2015.



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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-021	Page No. 2/2
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Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

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Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-022/A			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Stack Emission (DG)				
Customer's Description of Sample#	Stack Emission (DG)				
Quantity#	01 No.				
Packing, Markings#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Stack attach DG Cummins 1010 KVA				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	LATS/80/2013-14 USEPA:2013				
Testing Protocol	CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	8.0	-	-
2	Stack Diameter	Meters	0.254	-	-
3	Ambient Temperature	°C	22	-	-
4	Stack Temperature	°C	147	-	-
5	Velocity	m/s	10.2	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-022/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	13	-	-	
8	Sampling Time	Minutes	58	-	-	
9	Volumetric Flow rate	Nm ³ /hr	1273.7	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	38.6	Max 75	IS:11255(Part -1)	
11	CO	mg /Nm ³	42.6	Max 150	IS:13270	
12	NOx	ppmv	124.0	Max 710	IS: 11255(Part -7)	
13	SO2	mg /Nm ³	43.2	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-022/B			Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 02/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack attach DG Cummins 1010 KVA			
Visual Observation	N/A			
Date of Sampling	22/03/2024			
Date of Reporting	02/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NMHC	mg/Nm ³	23.5	Max 100	IS 5182 (Part-17)

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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-023/A	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Stack Emission (DG)	
Customer's Description of Sample#	Stack Emission (DG)	
Quantity#	01 No.	
Packing, Markings#	Thimble Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	Stack attach DG Cummins 1010 KVA	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	02/04/2024	
Sampling Protocol	LATS/80/2013-14 USEPA:2013	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	8.0	-	-
2	Stack Diameter	Meters	0.254	-	-
3	Ambient Temperature	°C	22	-	-
4	Stack Temperature	°C	137	-	-
5	Velocity	m/s	10.4	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-023/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	14	-	-	
8	Sampling Time	Minutes	54	-	-	
9	Volumetric Flow rate	Nm ³ /hr	1330.4	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	48.7	Max 75	IS:11255(Part -1)	
11	CO	mg /Nm ³	39.4	Max 150	IS:13270	
12	NOx	ppmv	136.5	Max 710	IS: 11255(Part -7)	
13	SO2	mg /Nm ³	43.6	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-023/B			Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Stack Emission (DG)				
Customer's Description of Sample#	Stack Emission (DG)				
Quantity#	01 No.				
Packing, Markings#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Stack attach DG Cummins 1010 KVA				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	LATS/80/2013-14 USEPA:2013				
Testing Protocol	CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NMHC	mg/Nm ³	25.7	Max 100	IS 5182 (Part-17)

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	260324L-ED-024/A	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Stack Emission (DG)	
Customer's Description of Sample#	Stack Emission (DG)	
Quantity#	01 No.	
Packing, Markings#	Thimble Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	Stack attach DG Cummins 500 KVA	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	02/04/2024	
Sampling Protocol	LATS/80/2013-14 USEPA:2013	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	7.0	-	-
2	Stack Diameter	Meters	0.2032	-	-
3	Ambient Temperature	°C	22	-	-
4	Stack Temperature	°C	141	-	-
5	Velocity	m/s	10.3	-	-
6	Type of Fuel	-	HSD	-	-



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Tech. Mgr.



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TEST REPORT

Lab No.		260324L-ED-024/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	14	-	-	
8	Sampling Time	Minutes	54	-	-	
9	Volumetric Flow rate	Nm ³ /hr	835.1	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.07	Max 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.98	Max 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.03	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-024/B			Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Stack Emission (DG)				
Customer's Description of Sample#	Stack Emission (DG)				
Quantity#	01 No.				
Packing, Markings#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Stack attach DG Cummins 500 KVA				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	LATS/80/2013-14 USEPA:2013				
Testing Protocol	CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	1.17	Max 4.0	IS: 11255(Part -7)

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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-025/A	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Stack Emission (DG)	
Customer's Description of Sample#	Stack Emission (DG)	
Quantity#	01 No.	
Packing, Markings#	Thimble Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	Stack attach DG Caterpillar 1010 KVA (EM007688), DG Room Base Camp.	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	02/04/2024	
Sampling Protocol	LATS/80/2013-14 USEPA:2013	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	8.0	-	-
2	Stack Diameter	Meters	0.3556	-	-
3	Ambient Temperature	°C	20	-	-
4	Stack Temperature	°C	149	-	-
5	Velocity	m/s	10.4	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-025/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	14	-	-	
8	Sampling Time	Minutes	54	-	-	
9	Volumetric Flow rate	Nm ³ /hr	2536.8	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	52.1	Max 75	IS:11255(Part -1)	
11	CO	mg /Nm ³	41.7	Max 150	IS:13270	
12	NOx	ppmv	101.6	Max 710	IS: 11255(Part -7)	
13	SO2	mg /Nm ³	36.7	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report



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TEST REPORT

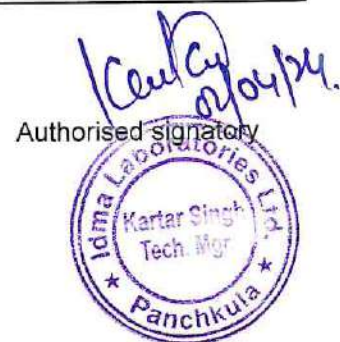
Lab No.	260324L-ED-025/B			Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 02/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack attach DG Caterpillar 1010 KVA (EM007688), DG Room Base Camp.			
Visual Observation	N/A			
Date of Sampling	22/03/2024			
Date of Reporting	02/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NMHC	mg/Nm ³	21.9	Max 100	IS 5182 (Part-17)

Represents details provided by the customer.

End of Report



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Tel No. 0172 - 5064827, - 5064830
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Email : commercial@idmalab.co.in

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	260324L-ED-026/A		Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	26/03/2024		
Period of Analysis	26/03/2024 To 02/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack attach DG Caterpillar 600 KVA (EM007466) DG Room Base Camp.		
Visual Observation	N/A		
Date of Sampling	22/03/2024		
Date of Reporting	02/04/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	6.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	20	-	-
4	Stack Temperature	°C	127	-	-
5	Velocity	m/s	10.2	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-026/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	13	-	-	
8	Sampling Time	Minutes	58	-	-	
	PARAMETERS:	-	-	-	-	
9	PM	g/kW-hr	0.06	Max 0.2	IS:11255(Part -1)	
10	CO	g/kW-hr	0.88	Max 3.5	IS:13270	
11	SO2	g/kW-hr	1.33	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-026/B		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	26/03/2024		
Period of Analysis	26/03/2024 To 02/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack attach DG Caterpillar 600 KVA (EM007466) DG Room Base Camp.		
Visual Observation	N/A		
Date of Sampling	22/03/2024		
Date of Reporting	02/04/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx +HC	g/kW-hr	1.65	Max 4.0	IS: 11255(Part -7)

Represents details provided by the customer.

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	260324L-ED-027/A			Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 02/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack attach DG Cummins 500 KVA (EM003271), Primary crusher Plant Pathernaki			
Visual Observation	N/A			
Date of Sampling	22/03/2024			
Date of Reporting	02/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	4.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	20	-	-
4	Stack Temperature	°C	125	-	-
5	Velocity	m/s	10.5	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-027/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	15	-	-	
8	Sampling Time	Minutes	50	-	-	
9	Volumetric Flow rate	Nm ³ /hr	498.8	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.11	Max 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.76	Max 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.22	-	IS: 11255(Part -2)	

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TEST REPORT

Lab No.	260324L-ED-027/B			Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 02/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack attach DG Cummins 500 KVA (EM003271), Primary crusher Plant Pathernaki			
Visual Observation	N/A			
Date of Sampling	22/03/2024			
Date of Reporting	02/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	1.97	Max 4.0	IS: 11255(Part -7)

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TEST REPORT

Lab No.	260324L-ED-028/A	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Stack Emission (DG)	
Customer's Description of Sample#	Stack Emission (DG)	
Quantity#	01 No.	
Packing, Markings#	Thimble Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	Stack attach DG Cummins 500 KVA (EM005763) Fabrication Patherdaki	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	02/04/2024	
Sampling Protocol	LATS/80/2013-14 USEPA:2013	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1016	-	-
3	Ambient Temperature	°C	21	-	-
4	Stack Temperature	°C	123	-	-
5	Velocity	m/s	10.2	-	-
6	Type of Fuel	-	HSD	-	-



Reviewed by

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TEST REPORT

Lab No.		260324L-ED-028/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	14	-	-	
8	Sampling Time	Minutes	54	-	-	
9	Volumetric Flow rate	Nm ³ /hr	215.7	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.12	Max 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.81	Max 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.11	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-028/B			Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Stack Emission (DG)				
Customer's Description of Sample#	Stack Emission (DG)				
Quantity#	01 No.				
Packing, Markings#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Stack attach DG Cummins 500 KVA (EM005763)Fabrication Pathernaki				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	LATS/80/2013-14 USEPA:2013				
Testing Protocol	CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	2.06	Max 4.0	IS: 11255(Part -7)

Represents details provided by the customer.

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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-029/A		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 02/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack attach DG Cummins 250 KVA (EM007158) Main Office			
Visual Observation	N/A			
Date of Sampling	22/03/2024			
Date of Reporting	02/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1016	-	-
3	Ambient Temperature	°C	21	-	-
4	Stack Temperature	°C	117	-	-
5	Velocity	m/s	10.1	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-029/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	14	-	-	
8	Sampling Time	Minutes	54	-	-	
9	Volumetric Flow rate	Nm ³ /hr	216.9	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.13	Max 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.06	Max 3.5	IS:13270	
12	SO2	g/kW-hr	1.27	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-029/B		Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	26/03/2024		
Period of Analysis	26/03/2024 To 02/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack attach DG Cummins 250 KVA (EM007158) Main Office		
Visual Observation	N/A		
Date of Sampling	22/03/2024		
Date of Reporting	02/04/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	1.44	Max 4.0	IS: 11255(Part -7)

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.	260324L-ED-030/A			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Stack Emission (DG)				
Customer's Description of Sample#	Stack Emission (DG)				
Quantity#	01 No.				
Packing, Markings#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Stack attach DG Cummins 125 KVA (EM007107) Camp, Padyarna				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	LATS/80/2013-14 USEPA:2013				
Testing Protocol	CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.0762	-	-
3	Ambient Temperature	°C	20	-	-
4	Stack Temperature	°C	111	-	-
5	Velocity	m/s	10.3	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-030/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	15	-	-	
8	Sampling Time	Minutes	50	-	-	
9	Volumetric Flow rate	Nm ³ /hr	125.9	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.05	Max 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.76	Max 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.07	-	IS: 11255(Part -2)	

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End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-030/B			Page No. 1/1
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 02/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack attach DG Cummins 125 KVA (EM007107) Camp, Padyarna			
Visual Observation	N/A			
Date of Sampling	22/03/2024			
Date of Reporting	02/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	1.18	Max 4.0	IS: 11255(Part -7)

Represents details provided by the customer.

End of Report



Reviewed by

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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-031/A		Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	26/03/2024		
Period of Analysis	26/03/2024 To 02/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar
Sampling Location#	Stack attach DG Cummins 500 KVA (EM007194), Dool Yard		
Visual Observation	N/A		
Date of Sampling	22/03/2024		
Date of Reporting	02/04/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1016	-	-
3	Ambient Temperature	°C	22	-	-
4	Stack Temperature	°C	137	-	-
5	Velocity	m/s	10.4	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-031/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	14	-	-	
8	Sampling Time	Minutes	54	-	-	
9	Volumetric Flow rate	Nm ³ /hr	211.0	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.091	Max 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	1.16	Max 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.34	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

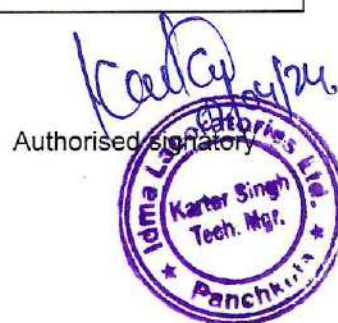
Lab No.	260324L-ED-031/B			Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Stack Emission (DG)				
Customer's Description of Sample#	Stack Emission (DG)				
Quantity#	01 No.				
Packing, Markings#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Stack attach DG Cummins 500 KVA (EM007194), Dool Yard				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	LATS/80/2013-14 USEPA:2013				
Testing Protocol	CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx + HC	g/kW-hr	1.62	Max 4.0	IS: 11255(Part -7)

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End of Report



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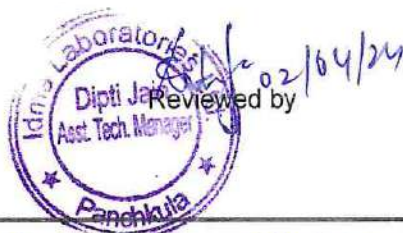
TC-8207

TEST REPORT

Lab No.	260324L-ED-032/A		Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 02/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	Stack attach DG Ashok Leyland 62.5 KVA (EM007335) Camp, Padyarna			
Visual Observation	N/A			
Date of Sampling	22/03/2024			
Date of Reporting	02/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	4.0	-	-
2	Stack Diameter	Meters	0.076	-	-
3	Ambient Temperature	°C	22	-	-
4	Stack Temperature	°C	107	-	-
5	Velocity	m/s	10.3	-	-
6	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		260324L-ED-032/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	15	-	-	
8	Sampling Time	Minutes	50	-	-	
9	Volumetric Flow rate	Nm ³ /hr	126.8	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.11	Max 0.3	IS:11255(Part -1)	
11	CO	g/kW-hr	1.14	Max 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.27	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-032/B			Page No. 1/1	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Stack Emission (DG)				
Customer's Description of Sample#	Stack Emission (DG)				
Quantity#	01 No.				
Packing, Markings#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	Stack attach DG Ashok Leyland 62.5 KVA (EM007335) Camp, Padyarna				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	LATS/80/2013-14 USEPA:2013				
Testing Protocol	CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	1.68	Max 4.7	IS: 11255(Part -7)

Represents details provided by the customer.

End of Report



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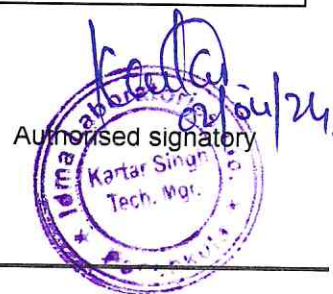
Idma Laboratories Limited

TEST REPORT

Lab No.	260324N-E-039	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Work Zone	
Customer's Description of Sample#	Work Zone	
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	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	Inside -APST	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	02/04/2024	
Sampling Protocol	ILL/SOP/ENV/WZ/01:2020	
Testing Protocol	OSHA	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	CO	ppm	0.39	Max. 50	NIOSH Manual
2	H2S	mg/m ³	0.95	Max 10	NIOSH Manual
3	CO2	ppm	1102	Max 5000	NIOSH Manual
4	O2	%	20.8	Min 20	NIOSH Manual
5	Methane as CH4	ppm	141	Max 1000	NIOSH Manual
6	Silica	mg/m ³	0.62	Max 10	NIOSH Manual
7	Nitrogen Fumes	ppm	<0.001	Max 0.01	NIOSH Manual



Idma Laboratories Limited

Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)
Tel No. 0172 - 5064827, - 5064830
Website : www.idmagroup.co.in
Email : commercial@idmalab.co.in

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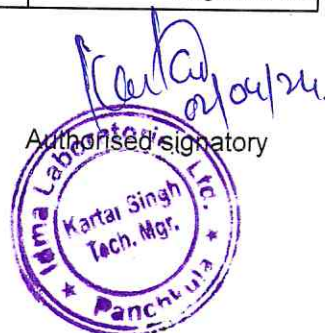
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TEST REPORT

Lab No.	260324N-E-039	Page No. 2/2
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TEST REPORT

Lab No.	260324N-E-040	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Work Zone	
Customer's Description of Sample#	Work Zone	
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	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	Inside -CVT	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	02/04/2024	
Sampling Protocol	ILL/SOP/ENV/WZ/01:2020	
Testing Protocol	OSHA	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	CO	ppm	0.51	Max. 50	NIOSH Manual
2	H2S	mg/m ³	1.07	Max 10	NIOSH Manual
3	CO2	ppm	1082	Max 5000	NIOSH Manual
4	O2	%	20.4	Min 20	NIOSH Manual
5	Methane as CH4	ppm	162	Max 1000	NIOSH Manual
6	Silica	mg/m ³	0.49	Max 10	NIOSH Manual
7	Nitrogen Fumes	ppm	<0.001	Max 0.01	NIOSH Manual



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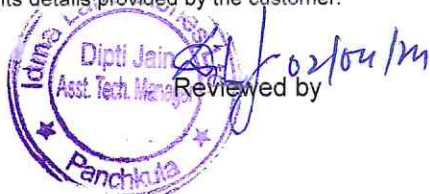
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TEST REPORT

Lab No.	260324N-E-040	Page No. 2/2
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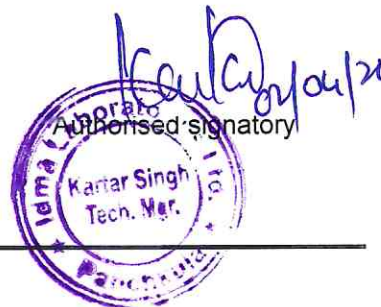
Idma Laboratories Limited

TEST REPORT

Lab No.	260324N-E-041	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Work Zone	
Customer's Description of Sample#	Work Zone	
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	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	TRT (Inside)	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	02/04/2024	
Sampling Protocol	ILL/SOP/ENV/WZ/01:2020	
Testing Protocol	OSHA	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	CO	ppm	0.72	Max. 50	NIOSH Manual
2	H2S	ppm	1.08	Max 10	NIOSH Manual
3	CO2	ppm	1067	Max 5000	NIOSH Manual
4	O2	%	20.3	Min 20	NIOSH Manual
5	Methane as CH4	ppm	172	Max 100	NIOSH Manual
6	Silica	mg/m ³	0.44	Max 10	NIOSH Manual
7	Nitrogen Fumes	ppm	<0.001	Max 0.01	NIOSH Manual



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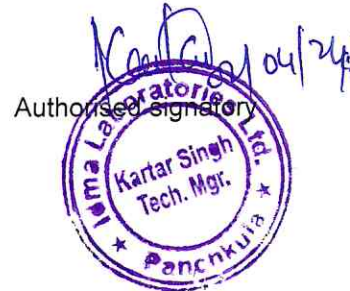
Lab No.	260324N-E-041	Page No. 2/2
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TC-8207

TEST REPORT

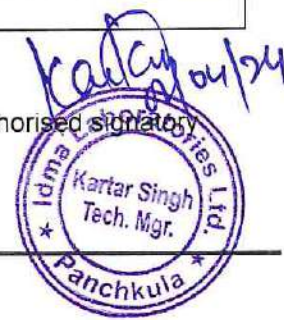
Lab No.	260324L-ED-010/A			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Ambient Air				
Customer's Description of Sample#	Ambient Air				
Quantity#	01 No.				
Packing, Markings#	Filter Paper Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	CP-30, Batching Plant Near Main Office				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
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 ³	79.2	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	36.4	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	15.6	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	18.2	Max. 80	IS 5182 (Part 6)
5	Ozone	µg/m ³	22.4	Max. 100	IS 5182 (Part 9)
6	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
7	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a
8	Lead	µg/m ³	0.13	Max. 1.0	EPA/625/R-96/010a



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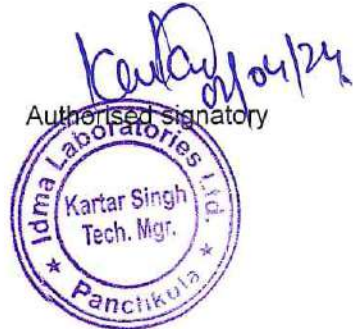
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TEST REPORT

Lab No.	260324L-ED-010/A	Page No. 2/2
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TEST REPORT

Lab No.	260324L-ED-010/B			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Ambient Air				
Customer's Description of Sample#	Ambient Air				
Quantity#	01 No.				
Packing, Markings#	Filter Paper Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	CP-30, Batching Plant Near Main Office				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
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 ³	0.56	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.13	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)



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TEST REPORT

Lab No.	260324L-ED-010/B	Page No. 2/2
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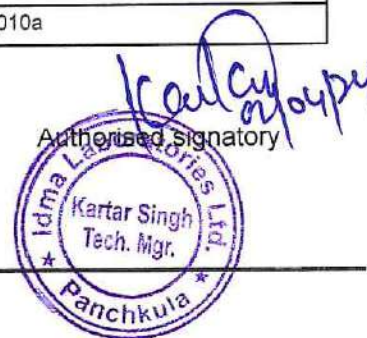


TEST REPORT

Lab No.	260324L-ED-011/A			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Ambient Air				
Customer's Description of Sample#	Ambient Air				
Quantity#	01 No.				
Packing, Markings#	Filter Paper Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	200 TPH Crusher Plant (Near Main Officer)				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
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 ³	80.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	38.4	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	15.7	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	18.2	Max. 80	IS 5182 (Part 6)
5	Ozone	µg/m ³	22.4	Max. 100	IS 5182 (Part 9)
6	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
7	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a
8	Lead	µg/m ³	0.14	Max. 1.0	EPA/625/R-96/010a



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TEST REPORT

Lab No.	260324L-ED-011/A	Page No. 2/2
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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-011/B			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Ambient Air				
Customer's Description of Sample#	Ambient Air				
Quantity#	01 No.				
Packing, Markings#	Filter Paper Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	200 TPH Crusher Plant (Near Main Officer)				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
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 ³	0.53	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.05	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)



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Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

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391, industrial Area, Phase - 1,

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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-013/A			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Ambient Air				
Customer's Description of Sample#	Ambient Air				
Quantity#	01 No.				
Packing, Markings#	Filter Paper Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	CP- 240 Batching Plant Base Camp.				
Visual Observation	N/A				
Date of Sampling	23/03/2024				
Date of Reporting	02/04/2024				
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/m³	79.4	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m³	37.1	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m³	16.2	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m³	18.2	Max. 80	IS 5182 (Part 6)
5	Ozone	µg/m³	21.7	Max. 100	IS 5182 (Part 9)
6	Arsenic	ng/m³	<1	Max. 06	EPA/625/R-96/010a
7	Nickel	ng/m³	<8	Max. 20	EPA/625/R-96/010a
8	Lead	µg/m³	0.14	Max. 1.0	EPA/625/R-96/010a



Idma Laboratories Limited Panchkula

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TEST REPORT

Lab No.	260324L-ED-013/A	Page No. 2/2
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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-013/B	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Ambient Air	
Customer's Description of Sample#	Ambient Air	
Quantity#	01 No.	
Packing, Markings#	Filter Paper Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	CP- 240 Batching Plant Base Camp.	
Visual Observation	N/A	
Date of Sampling	23/03/2024	
Date of Reporting	02/04/2024	
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 ³	0.61	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	<2	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	0.9	Max. 01	IS 5182 (Part 12)



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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-014/A	Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Ambient Air	
Customer's Description of Sample#	Ambient Air	
Quantity#	01 No.	
Packing, Markings#	Filter Paper Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 02/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Alok Kumar
Sampling Location#	CP-2, Batching Plant, Base Camp.	
Visual Observation	N/A	
Date of Sampling	23/03/2024	
Date of Reporting	02/04/2024	
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 ³	77.7	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	34.9	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	14.3	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	18.2	Max. 80	IS 5182 (Part 6)
5	Ozone	µg/m ³	21.4	Max. 100	IS 5182 (Part 9)
6	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
7	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a
8	Lead	µg/m ³	0.12	Max. 1.0	EPA/625/R-96/010a



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	260324L-ED-014/A	Page No. 2/2
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Reviewed by
02/04/24

Authorised signatory



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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-014/B			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Ambient Air				
Customer's Description of Sample#	Ambient Air				
Quantity#	01 No.				
Packing, Markings#	Filter Paper Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	CP-2, Batching Plant, Base Camp.				
Visual Observation	N/A				
Date of Sampling	23/03/2024				
Date of Reporting	02/04/2024				
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 ³	0.39	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.06	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	260324L-ED-015/A			Page No. 1/2
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 02/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar	
Sampling Location#	600 TPH Crusher Plant Base Camp.			
Visual Observation	N/A			
Date of Sampling	23/03/2024			
Date of Reporting	02/04/2024			
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 ³	80.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	40.2	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	17.6	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	19.5	Max. 80	IS 5182 (Part 6)
5	Ozone	µg/m ³	20.9	Max. 100	IS 5182 (Part 9)
6	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
7	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a
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TEST REPORT

Lab No.	260324L-ED-015/A	Page No. 2/2
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Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	Ambient Air				
Customer's Description of Sample#	Ambient Air				
Quantity#	01 No.				
Packing, Markings#	Filter Paper Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	5100001514	Dated	28/09/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	600 TPH Crusher Plant Base Camp.				
Visual Observation	N/A				
Date of Sampling	23/03/2024				
Date of Reporting	02/04/2024				
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 ³	0.55	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.30	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)



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Idma Laboratories Limited



TEST REPORT

Lab No.	260324L-ED-016			Page No. 1/2	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir				
Type of Sample#	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	26/03/2024				
Period of Analysis	26/03/2024 To 02/04/2024				
Sampling Team	Idma Representative Team	Client	Mr. Alok Kumar		
Sampling Location#	CP-, Batching Plant, Near Main Office.				
Visual Observation	N/A				
Date of Sampling	22/03/2024				
Date of Reporting	02/04/2024				
Sampling Protocol	CPCB PROTOCOL:2015				
Testing Protocol	CPCB PROTOCOL July 2015				

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	67.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	61.8	Max 70	CPCB PROTOCOL July 2015.



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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TEST REPORT

Lab No.	260324L-ED-016	Page No. 2/2
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Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700001477F

Page No. 1/3

Lab No.	010424L-FD-022		
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhatā Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water (RO)		
Customer's Description of Sample#	Drinking Water (RO)		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Camp Near Main Office		
Mode of Collection of Sample	Sample Collected By Idma Lab Person		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	01/04/2024		
Period of Analysis	01/04/2024 To 11/04/2024		
Visual Observation	N/A		
Date of Reporting	11/04/2024		
Testing Protocol	IS 10500:2012 Amdt 1 to 4		

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	--	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.31	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	65.3	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.0009	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	30.6	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	10.7	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ(LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	98	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by



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Idma Laboratories Limited

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TEST REPORT

ULR : TC820724700001477F

Page No. 2/3

Lab No.		010424L-FD-022				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	155	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO4)	mg/L	7.2	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ(LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ(LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Selenium (as Se)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
18	Silver (as Ag)	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
19	Mercury (as Hg)	mg/L	BLQ(LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
20	Magnesium (as Mg)	mg/L	5.2	Max. 30	Max. 100	IS 3025 (Part 46) :2023
21	Total Arsenic (as As)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
22	Total Chromium (as Cr)	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
23	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
24	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016



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TC-8207

TEST REPORT

ULR : TC820724700001477F

Page No. 3/3

Lab No. 010424L-FD-022

Opinion :

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

Represents details provided by the customer.

****End of Report****

Reviewed by



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TEST REPORT

ULR : TC820724700001479F

Page No. 1/3

Lab No.	010424L-FD-023		
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Natural Source Near Main Office		
Mode of Collection of Sample	Sample Collected By Idma Lab Person		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	01/04/2024		
Period of Analysis	01/04/2024 To 11/04/2024		
Visual Observation	N/A		
Date of Reporting	11/04/2024		
Testing Protocol	IS 10500:2012 Amdt 1 to 4		

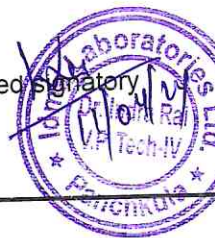
RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	--	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.36	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	153	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.0008	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	64.3	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	15.1	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ(LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	198	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

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TEST REPORT

ULR : TC820724700001479F

Page No. 2/3

Lab No.		010424L-FD-023				Page No.
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	279	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO4)	mg/L	12.3	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ(LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ(LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Selenium (as Se)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
18	Silver (as Ag)	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
19	Mercury (as Hg)	mg/L	BLQ(LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
20	Magnesium (as Mg)	mg/L	9.0	Max. 30	Max. 100	IS 3025 (Part 46) :2023
21	Total Arsenic (as As)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
22	Total Chromium (as Cr)	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
23	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
24	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016



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TC-8207

TEST REPORT

ULR : TC820724700001479F

Page No. 3/3

Lab No. 010424L-FD-023

Opinion :

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

Represents details provided by the customer.

****End of Report****

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TEST REPORT

ULR : TC820724700001480F

Page No. 1/3

Lab No.	010424L-FD-024		
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Matural Source Near TRT		
Mode of Collection of Sample	Sample Collected By Idma Lab Person		Dated 28/09/2023
Work Order No.#	5100001514		
Date of Receipt of Sample	01/04/2024		
Period of Analysis	01/04/2024 To 11/04/2024		
Visual Observation	N/A		
Date of Reporting	11/04/2024		
Testing Protocol	IS 10500:2012 Amdt 1 to 4		

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	---	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.39	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO ₃)	mg/L	157.1	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.0008	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	64.3	Max. 75	Max. 200	IS 3025 (Part 40) :1991
7	Chloride (as Cl)	mg/L	15.8	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ(LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	201.9	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

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TEST REPORT

ULR : TC820724700001480F

Page No. 2/3

Lab No.		010424L-FD-024				Test Methods
S.No.	Test Parameter	Units	Results	Requirements		
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	281	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO4)	mg/L	12.6	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ(LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
18	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
19	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
20	Magnesium (as Mg)	mg/L	10.0	Max. 30	Max. 100	IS 3025 (Part 46) :2023
21	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
22	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
23	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
24	Total Coliform Bacteria	/100ml	Absent	Shall not be	--	IS 15185: 2016

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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700001480F

Page No. 3/3

Lab No.		010424L-FD-024				Test Methods
S.No.	Test Parameter	Units	Results	Requirements		
				Acceptable Limit (Max)	Permissible Limit (Max)	
24				detectable in any 100ml sample		

Opinion :

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

Represents details provided by the customer.

****End of Report****

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited



TC-8207

TEST REPORT

ULR : TC820724700001481F

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Lab No.	010424L-FD-025
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir
Type of Sample#	Drinking Water
Customer's Description of Sample#	Drinking Water
Quantity#	5 Ltr.
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Natural Source Tanker Filling Point
Mode of Collection of Sample	Sample Collected By Idma Lab Person
Work Order No.#	5100001514
Date of Receipt of Sample	01/04/2024
Period of Analysis	01/04/2024 To 11/04/2024
Visual Observation	N/A
Date of Reporting	11/04/2024
Testing Protocol	IS 10500:2012 Amdt 1 to 4

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	--	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.41	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	161.2	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.0007	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	70.6	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	17.5	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ(LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	215.6	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

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TEST REPORT

ULR : TC820724700001481F

Page No. 2/3

ULR : TC820724700001481F

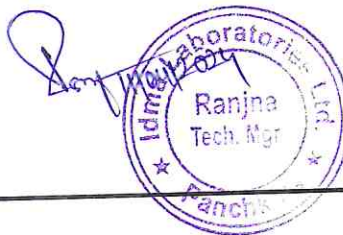
TEST REPORT

Page No. 2/3

Lab No.		010424L-FD-025				Test Methods
S.No.	Test Parameter	Units	Results	Requirements		
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	292	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO4)	mg/L	13.3	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ(LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
18	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
19	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
20	Magnesium (as Mg)	mg/L	9.5	Max. 30	Max. 100	IS 3025 (Part 46) :2023
21	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
22	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
23	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
24	Total Coliform Bacteria	/100ml	Absent	Shall not be	--	IS 15185: 2016

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TEST REPORT

ULR : TC820724700001481F

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ULR : TC820724700001481F							Page No. 3/3
Lab No.		010424L-FD-025					Test Methods
S.No.	Test Parameter	Units	Results	Requirements			
				Acceptable Limit (Max)	Permissible Limit (Max)		
24				detectable in any 100ml sample			

Opinion :

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

Represents details provided by the customer.

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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700001483F

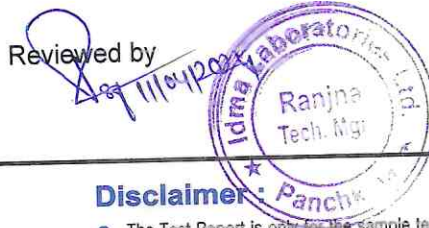
Page No. 1/3

Lab No.	010424L-FD-026		
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Officer Colony Padyarna		
Mode of Collection of Sample	Sample Collected By Idma Lab Person		
Work Order No.#	5100001514	Dated	28/09/2023
Date of Receipt of Sample	01/04/2024		
Period of Analysis	01/04/2024 To 11/04/2024		
Visual Observation	N/A		
Date of Reporting	11/04/2024		
Testing Protocol	IS 10500:2012 Amdt 1 to 4		

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.36	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	157.1	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.0009	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	59.6	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	16.5	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ(LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	184.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by



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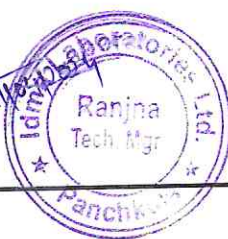


TEST REPORT

ULR : TC820724700001483F

Page No. 2/3

Lab No.		010424L-FD-026				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	257	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO4)	mg/L	12.8	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ(LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
18	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
19	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
20	Magnesium (as Mg)	mg/L	8.6	Max. 30	Max. 100	IS 3025 (Part 46) :2023
21	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
22	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
23	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
24	Total Coliform Bacteria	/100ml	Absent	Shall not be	--	IS 15185: 2016



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TC-8207

TEST REPORT

ULR : TC820724700001483F

Page No. 3/3

Lab No.		010424L-FD-026				Page No. 3/3	
S.No.	Test Parameter	Units	Results	Requirements		Test Methods	
				Acceptable Limit (Max)	Permissible Limit (Max)		
24				detectable in any 100ml sample			

Opinion :

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

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TC-8207

TEST REPORT

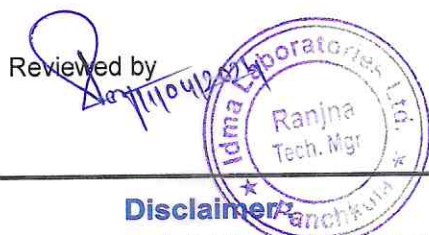
ULR : TC820724700001515F

Lab No.	010424L-FD-019	Page No. 1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Drinking Water (RO)	
Customer's Description of Sample#	Drinking Water (RO)	
Quantity#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Worker Camp-Pathernaki	
Mode of Collection of Sample	Sample Collected By Idma Lab Person	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	01/04/2024	
Period of Analysis	01/04/2024 To 11/04/2024	
Visual Observation	N/A	
Date of Reporting	11/04/2024	
Testing Protocol	IS 10500:2012 Amdt 1 to 4	

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	--	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.24	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	69.4	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.0009	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	35.3	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	9.5	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ(LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	113.7	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

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TEST REPORT

ULR : TC820724700001515F

Lab No.		010424L-FD-019				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	168	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	6.9	Max. 200	Max. 400	IS 3025 (Part 24) : 1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) : 2023
15	Free Residual chlorine	mg/L	BLQ(LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ(LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) : 2023
17	Selenium (as Se)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
18	Silver (as Ag)	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
19	Mercury (as Hg)	mg/L	BLQ(LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) : 1994
20	Magnesium (as Mg)	mg/L	6.2	Max. 30	Max. 100	IS 3025 (Part 46) : 2023
21	Total Arsenic (as As)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) : 2022
22	Total Chromium (as Cr)	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
23	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
24	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016



Authorised signatory



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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700001515F

Lab No.	010424L-FD-019	Page No. 3/3
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Opinion :

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

Represents details provided by the customer.

****End of Report****

Reviewed by



Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)
Tel No. 0172 - 5064827,- 5064830
Website : www.idmagroup.co.in
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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700001537F

Lab No.	010424L-FD-020	Page No. 1/3
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Drinking Water	
Customer's Description of Sample#	Drinking Water	
Quantity#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Worker Camp Dam Site	
Mode of Collection of Sample	Sample Collected By Idma Lab Person	
Work Order No.#	5100001514	Dated 28/09/2023
Date of Receipt of Sample	01/04/2024	
Period of Analysis	01/04/2024 To 12/04/2024	
Visual Observation	N/A	
Date of Reporting	12/04/2024	
Testing Protocol	IS 10500:2012 Amdt 1 to 4	

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	--	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.36	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	165.2	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.0008	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	57.2	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	11.2	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.3	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	178.4	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by



Authorised signatory



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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700001537F

Lab No.		010424L-FD-020				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	225	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	8.8	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ(LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Selenium (as Se)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
18	Silver (as Ag)	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
19	Mercury (as Hg)	mg/L	BLQ(LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
20	Magnesium (as Mg)	mg/L	0.0541	Max. 30	Max. 100	IS 3025 (Part 46) :2023
21	Total Arsenic (as As)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
22	Total Chromium (as Cr)	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
23	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
24	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016



Reviewed by



Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700001537F

Lab No.	010424L-FD-020	Page No. 3/3
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Opinion :

Remark: The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. Remarks: The Test report pertains to the sample, as received from the customer and the result

Representation provided by the customer.

****End of Report****

Reviewed by



Authorized signatory



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Idma Laboratories Limited



TC-8207

TEST REPORT

ULR : TC820724700001475F

ULR : TC820724/00001475F

Lab No.	010424L-FD-021		Page No. 1/3	
Customer#	Patel Engineering Limited Kiru Hydro Electric Project Vill. Keroo/Galhar Bhata Teh. Nagseni, P.O. Kishtwar District : Kishtwar, (J & K)-182204 Jammu & Kashmir			
Type of Sample#	Drinking Water			
Customer's Description of Sample#	Drinking Water			
Quantity#	5 Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Base Camp Near Workshop			
Mode of Collection of Sample	Sample Collected By Idma Lab Person			
Work Order No.#	5100001514	Dated	28/09/2023	
Date of Receipt of Sample	01/04/2024			
Period of Analysis	01/04/2024 To 11/04/2024			
Visual Observation	N/A			
Date of Reporting	11/04/2024			
Testing Protocol	IS 10500:2012 Amdt 1 to 4			

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.24	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	155	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.0008	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	60.4	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	14.1	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ(LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	188.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by



Authorised signatory



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Idma Laboratories Limited



TC-8207

TEST REPORT

ULR : TC820724700001475F

Lab No.		010424L-FD-021				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	268	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	15.1	Max. 200	Max. 400	IS 3025 (Part 24) : 1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) : 2023
15	Free Residual chlorine	mg/L	BLQ(LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
16	Cadmium (as Cd)	mg/L	BLQ(LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) : 2023
17	Selenium (as Se)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
18	Silver (as Ag)	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
19	Mercury (as Hg)	mg/L	BLQ(LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) : 1994
20	Magnesium (as Mg)	mg/L	9.0	Max. 30	Max. 100	IS 3025 (Part 46) : 2023
21	Total Arsenic (as As)	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) : 2022
22	Total Chromium (as Cr)	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
23	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
24	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016



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TEST REPORT

ULR : TC820724700001475F

Lab No. 010424L-FD-021

Page No. 3/3

Opinion :

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