

Chenab Valley Power Projects [P] Ltd.

[A Joint Venture of NHPC (A Govt. of India Enterprise)

& JKSPDC (A Govt. of J&K Enterprise)]

CIN: U40105JK2011PTC003321

Kiru HE Project

Chenab Nagar II,

Distt. Kishtwar -182206 (J&K)

Ph: 01995-259505

Email: gmkkcvpp@gmail.com

No. : CVPPPL/Kiru/Env/2021/ 12

Date: 29.11.2021

Deputy Inspector General of Forests (Central)
Integrated Regional Office,
MoEF&CC (Govt. of India),
Jammu- 180006

Fax : 0172 2638061

E-mail : iro.jammu-mefcc@gov.in, chdmoeenv@gmail.com, ronz.chd-mef@nic.in.

Sub: Kiru HE Project (624 MW) in District Kishtwar, UT J&K: 06 monthly Environment Clearance (EC) Compliance Report for the period from April 2021 to September 2021.

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

Sir,

In reference to Environment Clearance accorded to 624 MW Kiru Hydro-Electric Project vide MoEF&CC's communication No. J-12011/32/2008-IA.I dated 24.06.2016 read with Corrigendum dated 29.07.2016, kindly find enclosed herewith the 06 monthly Environment Clearance (EC) Compliance Report, for the period from April 2021 to September 2021.

Thanking you,

Yours faithfully,

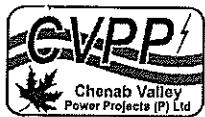
General Manager (I/c)

Kiru HE Project

email id: gmkkcvpp@gmail.com

Copy for kind information to:-

- 1. Director, Impact Assessment Division-1,**
Ministry of Environment, Forests & Climate Change,
Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj,
New Delhi- 110003
email id: diriapolicy-moefcc@gov.in, sudheer.ch@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 H E Project (624 MW)

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

1. Status of Clearances:

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.

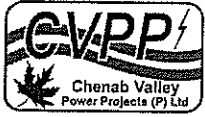
2. Status of construction activities

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. Diversion Tunnel, Power House and Dam Stripping 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. Inspection & Supply of 1st stage and IInd Stage embedded parts & Diversion Tunnel gates completed. Erection of 1st stage embedded parts of Diversion Tunnel completed and manufacturing of other components is under progress.
- Electro-Mechanical Package (Lot III)** : Awarded to M/s Andritz Hydro Pvt. Ltd. vide letter dated 24.02.2020 and Contract Agreement signed on 22.06.2020. Design review is under progress.

3. Status of Land Acquisition

Final Award for acquisition of land measuring 1750 Kanal 17 Marla (87.54Ha) for construction of the Project has been issued by Collector, Land Acquisition, Kishtwar on 01.07.2017 and the Supplementary Award for Trees and Structures involved therein has been issued on 11.06.2019. An amount of Rs 32.47Crore (Rs. 26.94 Crore for land + Rs. 5.53 Crore for trees and structures)



has been deposited with Collector, Land acquisition, Kishtwar for disbursement to land owners out of which an amount of Rs. 30.70 Crore has been disbursed so far.

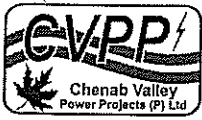
4. Status of R&R Plan Implementation

R&R Plan has been approved by GoJK vide Government Order No. 11-DMRR&R of 2019 dated 07.03.2019 for a total amount of Rs. 9956.22 lacs. An amount of Rs 40.00 Crore has been deposited so far with the Office of Commissioner R&R out of which an amount of Rs.30.88 Crore has been disbursed among the Project Affected Families. Further, disbursement of R&R benefits to PAFs is under progress.

5. Status of Infrastructure works

- i) Roads to major structures like Dam, DT, Power House, TRT have been completed.
- ii) Construction of temporary office building near Dam site - 04 blocks of site Office are completed and are under use.
- iii) Construction Power- The work is being carried out through J&K Power Development Department as deposit work. Construction of control room building and gantry erection & foundation work for 33/11 KV receiving station has been completed while as the Pole Erection work completed for 33 KV line and conductor stringing is near completion.
- iv) For conducting Hydraulic Model Studies of the Project, LOA has been issued to CWPRS on 08.12.2016. 2D Hydraulic Model Studies of the Project have been completed while as 3D Model studies are in progress.
- v) Construction of temporary residential infrastructure (field hostel) near Dam site is in progress and one block of field hostel is near completion.
- vi) Power supply for site Offices - Laying of LT Distribution Network has been completed and existing site Office has been connected to Grid Power however, providing of local connectivity to remaining buildings also completed.
- vii) Construction of Security Barracks- Structural work completed including internal and external lining and final finishing is near completion.
- viii) Quality Control Laboratory at Project site has been established by M/s PEL to check the results for major works and is under use.
- ix) Barbed wire fencing of acquired land from Patherdaki to Singhad Nallah (along Kishtwar-Paddar road)- work completed except some stretches.
- x) Construction work of water supply for temporary field hostels and offices is completed.
- xi) Road for permanent colony is awarded and excavation work is in progress.

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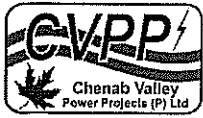
ANNEXURE-I

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

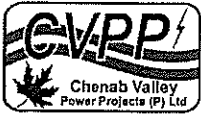
SIX MONTHLY ENVIRONMENT CLEARANCE COMPLIANCE REPORT

(for the period from April 2021 to September 2021)

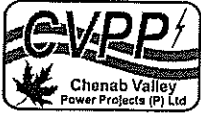
1	Name of Project	Kiru Hydro-Electric Project (624 MW)
2	Type of Project	Hydro-Electric Project
3	Clearance letters OM No. and date (a) Environment Clearance (b) Forest Clearance	(a) Letter No. J-12011/32/2008-IA.I dated 24.06.2016 & Corrigendum dated 29.07.2016. (b) Order No. 143-FST of 2016 dated 19.05.2016 of Govt. of Jammu and Kashmir (for 82.05 Ha land)
4	Locations (a) District (s) (b) State (c) Latitude (d) Longitude	(a) Kishtwar (b) Jammu and Kashmir (c) 33 ⁰ 20'37"N (d) 75 ⁰ 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) Kiru HE Project, Chenab Valley Power Projects (P) Ltd., Chenab Nagar-II, District Kishtwar, UT Jammu and Kashmir Pin code- 182 206 Telephone:- 01995-259505 email id: gmkkcvpp@gmail.com (b) Managing Director, Chenab Valley Power Projects (P) Ltd., Chenab Jal Shakti Bhavan, Opposite Saraswati Dham, Rail Head Complex, Jammu (UT J&K); Pin code 180 012 Phone/ Fax: 0191 2479826/ 2479835



6	<p>Details of Environmental Management Plan</p>	<p>Environmental Management Plans to be implemented at the Project are:</p> <table border="1" data-bbox="751 349 1485 981"> <thead> <tr> <th>S.No.</th> <th>EMP</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Biodiversity Conservation & Management Plan</td></tr> <tr><td>2.</td><td>Catchment Area Treatment Plan</td></tr> <tr><td>3.</td><td>Fisheries Development Plan</td></tr> <tr><td>4.</td><td>Solid Waste Management Plan</td></tr> <tr><td>5.</td><td>Public Health Delivery System</td></tr> <tr><td>6.</td><td>Energy Conservation Measures</td></tr> <tr><td>7.</td><td>Muck Disposal Plan</td></tr> <tr><td>8.</td><td>Landscaping & restoration Plan</td></tr> <tr><td>9.</td><td>Air & Water Management Plan</td></tr> <tr><td>10.</td><td>Reservoir Rim treatment Plan</td></tr> <tr><td>11.</td><td>Compensatory Afforestation plan</td></tr> <tr><td>12.</td><td>Rehabilitation & Resettlement Plan</td></tr> <tr><td>13.</td><td>Environmental Monitoring Programme</td></tr> <tr><td>14.</td><td>Disaster Management Plan</td></tr> <tr><td>15.</td><td>Skill Mapping and Development Plan</td></tr> </tbody> </table>	S.No.	EMP	1.	Biodiversity Conservation & Management Plan	2.	Catchment Area Treatment Plan	3.	Fisheries Development Plan	4.	Solid Waste Management Plan	5.	Public Health Delivery System	6.	Energy Conservation Measures	7.	Muck Disposal Plan	8.	Landscaping & restoration Plan	9.	Air & Water Management Plan	10.	Reservoir Rim treatment Plan	11.	Compensatory Afforestation plan	12.	Rehabilitation & Resettlement Plan	13.	Environmental Monitoring Programme	14.	Disaster Management Plan	15.	Skill Mapping and Development Plan
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7	<p>Breakup for Project area (Land details)</p>	<p>Forest Land: 82.05 ha Private Land: 36.27 ha State Land: 51.27 ha River Bed land (State land): 61.00 ha Total Land: 230.59 ha</p>																																
8	<p>Breakup of Project affected population with enumerations of those losing house/dwelling units only, agriculture land only, both house and agriculture land and landless labours / artisans. (a) SC/ST/Adivasis (b) Others</p>	<p>No of affected villages : 03 Displaced PAFs : 93 Non Displaced PAFs : 66 Total PAFs : 159 (a) Scheduled Tribe : 140 families</p>																																
9	<p>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</p>	<p>TEA approved cost : Rs. 4640.88 Cr (Sept 2014 PL) CCEA approved cost : Rs. 4287.59 Cr (July 2018 PL) Actual expenditure: Rs. 583.35 Crore (till Sept. 2021)</p>																																



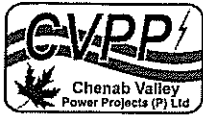
	<p>(c) Allocation made for Environment Management Plan</p> <p>(d) Actual expenditure incurred on EMP so far</p>	<p>Allocations for EMP: Rs. 162.43 Crore (as approved by MoEF&CC)</p> <p>Actual expenditure incurred on EMP (till September 2021):</p> <p>i) Payment released on account of Forest Clearance: : Rs 9.44 Crore (including Rs. 1.15 Crore on account of Compensatory Afforestation Plan)</p> <p>Payment released towards extraction of Forest Trees: : Rs. 52.99 Lakh</p> <p>ii) Implementation of R&R Plan : Rs.40.00 Crore (deposited with Commissioner R&R)</p> <p>iii) Public Health Delivery System* : Rs. 14.77 Lakh</p> <p>iv) Energy Conservation Measures* : Rs. 10.82 Lakh</p> <p>v) Muck Disposal Plan* : Rs. 6.77 Lakh</p> <p>vi) Air & Water Management Plan* : Rs. 0.83 Lakh</p> <p>vii) Skill Mapping and Development : Rs. 4.06 Lakh</p> <p>*also includes the expenditure incurred by Contractor as per the Contract Agreement</p>
10	<p>Forest Land Requirements</p> <p>(a) Status of approval diversion of Forest Land for non-forestry use</p> <p>(b) The status of clear felling of trees in Forest Land</p>	<p>(a) Forest clearance for diversion of 82.05 Ha forest land accorded by Govt. of Jammu and Kashmir vide Order No. 143- FST of 2016 dated 19.05.2016.</p> <p>(b) Clear felling status:- Tree felling at site has been completed by J&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 (planned): 54 months from the start of major works i.e. 23.08.2024</p>



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12	Reasons for the delay (If the Project is yet to be started)	After Investment approval from GOI in March 2019, the major Project works have been awarded in February 2020 and the construction activities are in progress.
13	Details of Site visits (a) By Monitoring Committee (b) By Regional Office	Nil Nil
14.	Brief note on the status of compliance of the conditions stipulated by MOEF&CC	Details are enclosed as Annexure-II.

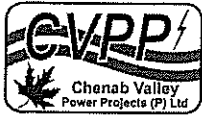


ANNEXURE-II

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

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

S.No.	Specific Conditions	Compliance Status
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 is also submitted vide no. CVPPPL/Kiru/HoP/2021/1079 dt. 25.09.2021 and the matter is being regularly pursued with J&K Forest Department for timely implementation of CAT measures.



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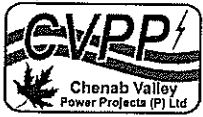
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S.No.	Specific Conditions	Compliance Status
ii	<p>R&R benefits for the land losing households will be as per NRRP-2007 & J&K state Govt. Adequate publicity of the compensation package should be circulated in the affected villages. However, this is to be compared with the state Rehabilitation and Resettlement policy, and the more beneficial policy is to be adopted for the PAF's. All R&R issues shall be completed before commissioning of the project.</p>	<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 / Secretary Revenue Deptt. on 30.01.2018 for approval of GoJK.- 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 has been approved by the State Administrative Council (SAC) as per Govt. Order No. 11-DMRR&R of 2019 dated 07.03.2019 as recommended by Empowered Committee.- The R&R Plan is under implementation and will be completed before commissioning of the Project. Till date, an amount of Rs. 30.88 Crore has been disbursed to the PAFs by the Commissioner R&R out of Rs.40.00 Crore deposited by the Project.
iii	<p>Implementation of R&R plan shall have to be closely monitored by the state authority and is to be ensured that all PAF's shall get adequate & timely compensation.</p>	<p>As per the approved R&R Plan, Deputy Commissioner, Kishtwar has been appointed as the Commissioner for implementation of R&R Plan.</p>



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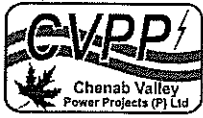
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S.No.	Specific Conditions	Compliance Status
iv	A Monitoring Committee for R&R should be constituted which shall include representatives of project affected persons from SC/ST category and a woman beneficiary.	Monitoring Committee for R&R was constituted in the Empowered Committee Meeting held under the Chairmanship of Chief Secretary, J&K on 06.04.2018. The Committee shall include apart from the Officers of the State Govt. as one of its members:- <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, and8. A representative of the requiring body. Formal Govt. Order for constitution of the Committee is awaited.
v	All the commitments made during the public hearing should be fulfilled completely by project proponent and record maintained.	- 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.	Shall be complied Continuous monitoring system for flow measurement shall be installed and further, six monthly results/ data shall be submitted to Regional Office of the Ministry.



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S.No.	Specific Conditions	Compliance Status
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.	Being complied The suitable portion of excavated muck is being utilized by the Contractor in the construction activities as proposed in the EMP. Part of excavated muck is also being utilized in the construction of retaining structures and approach road etc. Usable portion of muck is also being stacked for its use in future construction works. The disposal of unusable muck at designated muck dumping sites is being carried out as per the Muck Disposal Plan.
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.- The Compensatory Afforestation Plan is being implemented by Forest Department under CAMPA and it was intimated by Forest Department that upto March 2021, the Compensatory Afforestation works viz. fencing, plantation (PB/NR), silvi-pasture work (sowing/ dibbling patches) and DRSM works have been carried out with total expenditure of Rs. 67.81 Lakh upto March 2021.- Further, vide letter no. CVPPPL/Kiru/HoP Sectt/2021/1229 dated 11.11.2021, the Forest Department was requested to provide the updated physical and financial progress of Compensatory Afforestation upto September 2021, but the requisite information has not been received yet.
ix	To enhance the quality of environment of project site, green belt, as proposed in EMP report, shall be developed. The proposed green belt along the project appurtenances shall be undertaken in consultation with State Forest Department. The allocated budget of Rs 28.78 lakhs shall be fully utilized for this purpose and not to be diverted for any other purpose.	Shall be undertaken in consultation with J&K Forest Department.

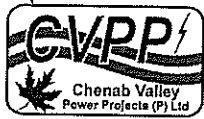


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Email: gmkkcvpp@gmail.com

S.No.	Specific Conditions	Compliance Status
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 and CVPP/Kiru/Env/2021/517 dated 01.03.2021 for an early accord of approval of Biodiversity Conservation and Management Plan for ensuring its timely implementation.</p> <p>- The matter is under regular pursuance with J&K Forest Department however, the approval of Plan is yet awaited.</p> <p>Shall be complied</p>
xi	<p>The Fisheries Development Plan as proposed in the EMP shall be implemented completely in consultation with the State Fisheries Department. As proposed, a fish hatchery shall be developed in 2 ha of area for development of fingerlings for stocking of reservoir and river. The budget of Rs. 798.59 lakhs provided for fisheries development plan should be fully utilized for this purpose and shall not be diverted for any other purpose.</p>	<p>- Vide letters No. CVPPPL/Kiru/SM(C)/2019/906 dated 12.10.2019 and CVPPPL/Kiru/HoPSectt/2021/266 dated 17.03.2021, & CVPPPL/ Kiru/HoPSectt./2021/771 Dated 19.07.2021 the matter regarding implementation of Fisheries Development Plan for Kiru HE Project has been 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>- The matter is being constantly followed up with J&K Fisheries Department for implementation of the Plan.</p>
xi(a)	<p>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>	<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>

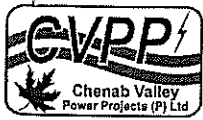


Chenab Valley Power Projects [P] Ltd.

[A Joint Venture of NHPC (A Govt. of India Enterprise)
& JKSPDC (A Govt. of J&K Enterprise)]
CIN: U40105JK2011PTC003321

Kiru HE Project
Chenab Nagar II,
Distt. Kishtwar -182206 (J&K)
Ph: 01995-259505
Email: gmkkcvpp@gmail.com

S.No.	Specific 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 has been forwarded by Deputy Commissioner, Kishtwar to Divisional Commissioner, Jammu vide letter No. DCK/LA/2019/355-59 dated 10.02.2020 for further approval from Government. - Vide letter No. CVPP/Kiru/Env/2021 /576 dated 30.03.2021, 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. - The matter is being constantly followed up with Commissioner R&R, however, the approval of J&K Government in this regard 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 vides 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



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CIN: U40105JK2011PTC003321

Kiru HE Project

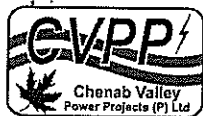
Chenab Nagar II,

Distt. Kishtwar -182206 (J&K)

Ph: 01995-259505

Email: gmkkcvpp@gmail.com

S.No.	Specific 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 shall be implemented.
ii	Medical facilities as well as recreational facilities shall also be provided to the labourers.	Being complied - Two dispensaries have been established at Project site (i.e. one by the major Contractor and the other by the Project) to cater to the health requirements of the work force. These dispensaries are being manned by the paramedical staff. - Two ambulances have also been provided at Project site (i.e. one by the major Contractor and the other by the Project). - With the development of infrastructure, the required recreational facilities shall also be provided to the labourers.
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 check up during construction period may also be taken up.	Being complied At present, the health check of the work force is being carried out mainly for the risk of COVID-19 infection. The periodic health check up of the labourers shall be ensured through the Health Department as provided in the EMP.
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



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CIN: U40105JK2011PTC003321

Kiru HE Project

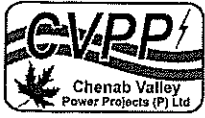
Chenab Nagar II,

Distt. Kishtwar -182206 (J&K)

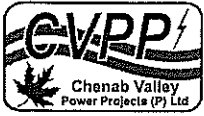
Ph: 01995-259505

Email: gmkkcvpp@gmail.com

S.No.	Specific Conditions	Compliance Status
vi	Restoration of construction area including muck dumping sites shall be ensured by leveling, filling up of borrow pits, landscaping, etc. The area should be properly planted to develop good greenery in the area.	Shall be complied
vii	Environmental parameters shall be monitored and "Six monthly monitoring reports" shall be submitted to the Ministry of Environment, Forest & Climate change, New Delhi including its Regional office for their review.	Being complied - The sampling & monitoring of environmental quality parameters at Project sites for Ambient Air quality, Water quality and Noise levels has been carried out through laboratory accredited by J&K Pollution Control Committee for SMR. The test reports of environmental quality parameters are enclosed herewith as 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.	Shall be complied in consultation with District Disaster Management Authority. As an advance measure, the Early Warning System is in process of installation.
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



S.No.	Specific Conditions	Compliance Status
8.	The EMP shall be strictly adhered to and a sum of Rs. 162.43 Crores, the budgetary provisions for the implementation of EMP, shall be fully utilized and shall not be diverted for any other purpose.	Shall be complied
9.	In case of change in the scope of the Project, the same may be intimated to the Ministry and a fresh approval, if required, shall be taken from the Ministry.	Shall be complied (in case of requirement)
12.	A copy of clearance letter shall be marked to concerned Panchayat/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 news papers 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	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.



S.No.	Specific Conditions	Compliance Status
	general and monitoring of E-flow and stability and effectiveness of muck dumping sites in particular.	<ul style="list-style-type: none">- 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 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/HoP Sectt./2021/429 dated 11.05.2021. However, the site visit / meeting of Committee is yet to be held.

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TEST REPORT

Ref. No. IL/D-	13487	Date	30/09/21	Lab No.	250921L-ED-009/B	Page No. 1/1	
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir						
Type of Sample	Drinking Water						
Customer's Description of Sample	Drinking Water						
Quantity	5 Ltr. + 250 ml						
Packing, Markings, Seal & Quantity	Plastic Can. & Glass Bottle						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	NIL					Dated	22/09/2021
Date of Receipt of Sample	25/09/2021						
Period of Analysis	25/09/2021 To 28/09/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Rishi Sharma
Sampling Location	R.O Plant (Near Admin Office)						
Visual Observation	N/A						
Date of Sampling	24/09/2021						
Date of Reporting	28/09/2021						
Sampling Protocol	IS: 3025-1987 & ILL/SOP/MB/034						
Testing Protocol	IS: 10500:2012 Amdt 1 & 2						

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Biological Testing (Water)	--	-	--	--	--
1	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
2	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

End of Report

Rishi Sharma
28/09/2021

For Idma Laboratories Limited

Rishi Sharma
28/09/2021

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ANNEXURE - III



NABL (TC-8207) MOEF/BIS/FSSAI/State Pollution Boards/Drug & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D-	13488	Date	30/09/21	Lab No.	250921L-ED-010	Page No.	1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishwar Jammu & Kashmir						
Type of Sample	Ambient Air						
Customer's Description of Sample	Ambient Air						
Quantity	1 Nos.						
Packing, Markings	Filter Paper Packed in Polythene Pouch						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	NIL					Dated	22/09/2021
Date of Receipt of Sample	25/09/2021						
Period of Analysis	25/09/2021 To 27/09/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Rishi Sharma
Sampling Location	Near APST Portal Area						
Visual Observation	N/A						
Date of Sampling	23/09/2021						
Date of Reporting	27/09/2021						
Sampling Protocol	IS: 5182						
Testing Protocol	NAAQS						

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM 10	µg/m ³	81.6	Max. 100	IS 5182 (Part 23) : 2006
2	PM2.5	µg/m ³	40.3	Max. 60	IDL/SP/03, Issue No-1, Issue Date.16.04.16
3	SO ₂	µg/m ³	16.7	Max. 80	IS 5182 (Part 2) : 2001
4	NO ₂	µg/m ³	20.1	Max. 80	IS 5182 (Part 6) : 2006
5	NH ₃	µg/m ³	27.4	Max. 400	IS 11255 (Part 6) :1999
6	CO	mg/m ³	0.41	Max. 02	IS 5182 (Part 10) :1999
7	Ozone	µg/m ³	21	Max. 100	IS 5182 (Part 9) :1974
8	Benzene	µg/m ³	<0.5	Max. 05	IS 5182 (Part 11) : 2006
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	Not Detected	Max. 01	IS 5182 (Part 12) : 2004
10	Arsenic	ng/m ³	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m ³	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

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27/09/21
Analyst

End of Report

For Idma Laboratories Limited

Authorized Signatory
TM/III/III



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NABL (TC-8207) MOEF/BIS/FSSAI/State Pollution Boards/Drug & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D-	13489	Date	30/09/21	Lab No.	250921L-ED-011	Page No.	1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir						
Type of Sample	Ambient Air						
Customer's Description of Sample	Ambient Air						
Quantity	1 Nos.						
Packing, Markings	Filter Paper Packed in Polythene Pouch						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	NIL					Dated	22/09/2021
Date of Receipt of Sample	25/09/2021						
Period of Analysis	25/09/2021 To 27/09/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Rishi Sharma
Sampling Location	Near CVT Portal Area						
Visual Observation	N/A						
Date of Sampling	23/09/2021						
Date of Reporting	27/09/2021						
Sampling Protocol	IS: 5182						
Testing Protocol	NAAQS						

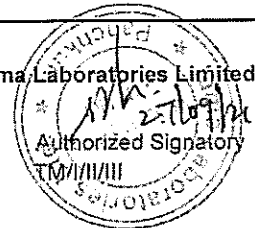
RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM 10	µg/m ³	79.5	Max. 100	IS 5182 (Part 23) : 2006
2	PM2.5	µg/m ³	38.2	Max. 60	IDL/SP/03, Issue No-1, Issue Date.16.04.16
3	SO ₂	µg/m ³	16.1	Max. 80	IS 5182 (Part 2) : 2001
4	NO ₂	µg/m ³	19.7	Max. 80	IS 5182 (Part 6) : 2006
5	NH ₃	µg/m ³	25.3	Max. 400	IS 11255 (Part 6) :1999
6	CO	mg/m ³	0.43	Max. 02	IS 5182 (Part 10) :1999
7	Ozone	µg/m ³	21	Max. 100	IS 5182 (Part 9) :1974
8	Benzene	µg/m ³	<0.5	Max. 05	IS 5182 (Part 11) : 2006
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	Not Detected	Max. 01	IS 5182 (Part 12) : 2004
10	Arsenic	ng/m ³	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m ³	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

End of Report

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27/09/21
Analyst

For Idma Laboratories Limited



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NABL (TC-8207) MOEF/BIS/FSSAI/State Pollution Boards/Drug & Cosmetic Act/ISO 9001; 14001; 18001 Certified

TEST REPORT

Ref. No. IL/D-	13490	Date	30/09/21	Lab No.	250921L-ED-012	Page No.	1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir						
Type of Sample	Ambient Air						
Customer's Description of Sample	Ambient Air						
Quantity	1 Nos.						
Packing, Markings	Filter Paper Packed in Polythene Pouch						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	NIL					Dated	22/09/2021
Date of Receipt of Sample	25/09/2021						
Period of Analysis	25/09/2021 To 27/09/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Rishi Sharma
Sampling Location	Near Batching Plant						
Visual Observation	N/A						
Date of Sampling	23/09/2021						
Date of Reporting	27/09/2021						
Sampling Protocol	IS: 5182						
Testing Protocol	NAAQS						

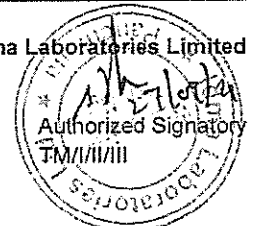
RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM 10	µg/m ³	79.7	Max. 100	IS 5182 (Part 23) : 2006
2	PM2.5	µg/m ³	40.5	Max. 60	IDL/SP/03, Issue No-1, Issue Date.16.04.16
3	SO ₂	µg/m ³	15.8	Max. 80	IS 5182 (Part 2) : 2001
4	NO ₂	µg/m ³	19.2	Max. 80	IS 5182 (Part 6) : 2006
5	NH ₃	µg/m ³	26.4	Max. 400	IS 11255 (Part 6) :1999
6	CO	mg/m ³	0.42	Max. 02	IS 5182 (Part 10) :1999
7	Ozone	µg/m ³	21	Max. 100	IS 5182 (Part 9) :1974
8	Benzene	µg/m ³	<0.5	Max. 05	IS 5182 (Part 11) : 2006
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	Not Detected	Max. 01	IS 5182 (Part 12) : 2004
10	Arsenic	ng/m ³	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m ³	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

End of Report

For Idma Laboratories Limited

Renu
09/09/21
Analyst



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TEST REPORT

Ref. No. IL/D-	13492	Date	30/09/21	Lab No.	250921L-ED-014	Page No.	1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir						
Type of Sample	Ambient Air						
Customer's Description of Sample	Ambient Air						
Quantity	1 Nos.						
Packing, Markings	Filter Paper Packed in Polythene Pouch						
Mode of Collection of Sample	Sampling by Laboratories						
Work Order No.	NIL					Dated	22/09/2021
Date of Receipt of Sample	25/09/2021						
Period of Analysis	25/09/2021 To 27/09/2021						
Sampling Team Idma	Idma Representative Team					Client	Mr. Rishi Sharma
Sampling Location	Dam Site						
Visual Observation	N/A						
Date of Sampling	24/09/2021						
Date of Reporting	27/09/2021						
Sampling Protocol	IS: 5182						
Testing Protocol	NAAQS						

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM 10	µg/m ³	81.6	Max. 100	IS 5182 (Part 23) : 2006
2	PM2.5	µg/m ³	39.4	Max. 60	IDL/SP/03, Issue No-1. Issue Date.16.04.16
3	SO ₂	µg/m ³	16.7	Max. 80	IS 5182 (Part 2) : 2001
4	NO ₂	µg/m ³	22.1	Max. 80	IS 5182 (Part 6) : 2006
5	NH ₃	µg/m ³	28.5	Max. 400	IS 11255 (Part 6) :1999
6	CO	mg/m ³	0.44	Max. 02	IS 5182 (Part 10) :1999
7	Ozone	µg/m ³	21	Max. 100	IS 5182 (Part 9) :1974
8	Benzene	µg/m ³	<0.5	Max. 05	IS 5182 (Part 11) : 2006
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	Not Detected	Max. 01	IS 5182 (Part 12) : 2004
10	Arsenic	ng/m ³	<0.1	Max. 06	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
11	Nickel	ng/m ³	<0.1	Max. 20	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999
12	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a:1999 & USEPA IO-3.2:1999

End of Report

Renu
27/09/21
Analyst

For Idma Laboratories Limited

Authorized Signatory
TM/00/000



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NABL (TC-8207) MOEF/BIS/FSSAI/State Pollution Boards/Drug & Cosmetic Act/ISO 9001; 14001; 18001 Certified



Certificate No. :
TC-8207

TEST REPORT

Ref. No. IL/D- 13493	Date 30/09/21	Lab No. 250921L-ED-015	Page No. 1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 Nos.		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 27/09/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Rishi Sharma
Sampling Location	Crusher Plant Area		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	27/09/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	73.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	67.7	Max 70	CPCB PROTOCOL July 2015.

End of Report

Rany
27/09/21
Analyst

For Idma Laboratories Limited

Authorized Signatory



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula, Haryana.

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Certificate No. :
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TEST REPORT

Ref. No. IL/D- 13494	Date 30.09.21	Lab No. 250921L-ED-016	Page No. 1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 Nos.		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 27/09/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Rishi Sharma
Sampling Location	Dam Site Area		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	27/09/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

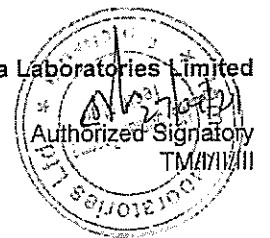
RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	68.0	Max 70	CPCB PROTOCOL July 2015.

End of Report

[Signature]
27/09/21
Analyst

For Idma Laboratories Limited



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TEST REPORT

Ref. No. IL/D- 13495	Date 30.09.21	Lab No. 250921L-ED-017	Page No. 1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 Nos.		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 27/09/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Rishi Sharma
Sampling Location	Near APST Portal Area		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	27/09/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	69.0	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	63.6	Max 70	CPCB PROTOCOL July 2015.

End of Report

Rishi Sharma
Analyst
27/09/21

For Idma Laboratories Limited



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TEST REPORT

Ref. No. IL/D- 13496	Date 30/09/21	Lab No. 250921L-ED-018	Page No. 1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 Nos.		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 27/09/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Rishi Sharma
Sampling Location	Near CVT Area		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	27/09/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	73.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	65.7	Max 70	CPCB PROTOCOL July 2015.

End of Report

Ravi
29/09/21
Analyst

For Idma Laboratories Limited

Authorized Signatory

TM/11/17/21



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TEST REPORT

Ref. No. IL/D- 13497	Date 30.09.21	Lab No. 250921L-ED-019	Page No. 1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 Nos.		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 27/09/2021		
Sampling Team Idma	Idma Representative Team	, Client	Mr. Rishi Sharma
Sampling Location	Batching Plant Area		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	27/09/2021		
Sampling Protocol	CPCB		
Testing Protocol	CPCB PROTOCOL July 2015		

RESULTS

S.No.	Test Parameter	Units	Results	Limits, Day	Test Method
	CHEMICAL DISCIPLINE (Ambient Noise Levels)	-	-	-	-
1	Lday	dB(A)	68.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	63.6	Max 70	CPCB PROTOCOL July 2015.

End of Report

Renu
27/09/21
Analyst

For Idma Laboratories Limited

Authorized Signatory

TM/11/1111



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TEST REPORT

Ref. No. IL/D- 13484	Date 30.09.21	Lab No. 250921L-ED-006	Page No. 1/1
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Waste Water		
Customer's Description of Sample	Waste Water		
Quantity	5 Ltr.		
Packing, Markings	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 29/09/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Rishi Sharma
Sampling Location	Batching Plant		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	29/09/2021		
Sampling Protocol	IS: 3025-1987		
Testing Protocol	CPCB		

RESULTS

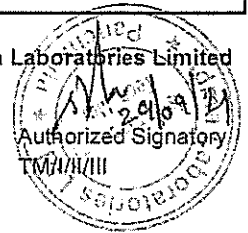
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.82	6.0-9.0	IS 3025 (Part 11) : 1983
2	Chemical Oxygen Demand (COD)	mg/L	129.6	Max. 250	IS 3025 (Part 58) : 2006
3	Biochemical Oxygen Demand	mg/L	23	Max. 30	IS 3025 (Part 44) :1993 BOD 3-days at 27 °C
4	Fluoride as F	mg/L	1.2	Max. 2.0	APHA 4500 D 23rd Edition, 2017
5	Oil & Grease	mg/L	4.5	Max. 10	IS 3025 (Part 39) :1991
6	Phosphate	mg/L	0.87	Max. 5	IS 3025 (Part 31) :1998
7	Total Dissolved Solids (TDS)	mg/L	1363	Max. 2100	IS 3025 (Part 16) :1984
8	Total Suspended Solids (TSS)	mg/L	76	Max. 100	IS 3025 (Part 17) :1984
9	Sulphate as SO4	mg/L	63.9	Max. 1000	IS 3025 (Part 24) :1986
10	Iron as Fe	mg/L	0.55	Max. 3.0	APHA 4500 D 23rd Edition 2017, IS 3025 (P-53) : 2003 Phenanthroline Method
	Biological Testing (Environmental & Pollution)				
11	F.coliform	MPN/100ml	270	-	IS 1622:1981

End of Report

Remy
29/09/21
Analyst

Samplu
29/09/2021

For Idma Laboratories Limited



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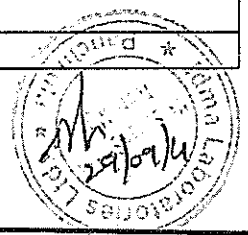
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TEST REPORT

Ref. No. IL/D- 13485	Date 30.09.21	Lab No. 250921L-ED-007	Page No. 1/2
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Surface Water		
Customer's Description of Sample	Surface Water		
Quantity	5 Ltr. + 250 ml		
Packing, Markings, Seal & Quantity	Plastic Can. & Glass Bottle		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 29/09/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Rishi Sharma
Sampling Location	UP-Stream, Chenab River		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	29/09/2021		
Sampling Protocol	IS: 3025-1987 & ILL/SOP/MB/034		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.49	IS 3025 (Part 11) :1983
2	Alkalinity as CaCO ₃	mg/L	110	IS 3025 (Part 23) :1986
3	Calcium as Ca	mg/L	24.8	IS 3025 (Part 40) :1991
4	Chloride as Cl	mg/L	20.6	IS 3025 (Part 32) : 1988
5	Conductivity	uS/cm	254	IS 3025 (Part 14) : 1984
6	Dissolved Oxygen (DO)	mg/L	7.0	IS 3025 (Part 38) :1989
7	Fluoride as F	mg/L	0.07	IS: 3025 (Part 60) : 2008
8	Hardness Total (as CaCO ₃)	mg/L	90	IS 3025 (Part 21) : 2009
9	Nitrogen (Nitrate) NO ₃	mg/L	2.3	IS 3025 (Part 34) :1988
10	Total Dissolved Solids	mg/L	182	IS 3025 (Part 16) : 1984
11	Sulphate as SO ₄	mg/L	9.5	IS 3025 (Part 24) :1986
12	Temperature	°C	15	IS 3025 (Part 9) : 1984
13	Turbidity	NTU	2	IS 3025 (Part 10) : 1984
14	Residual Free chlorine	mg/L	<0.1	IS 3025 (Part 26) : 1986
15	Potassium	mg/L	1.2	IS 3025 (Part 45) : 1993
16	Sodium	mg/L	4.8	IS 3025 (Part 45) : 1993



29/09/21

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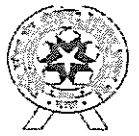




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TEST REPORT

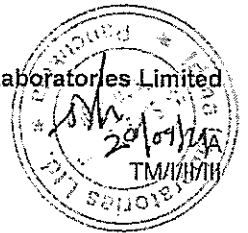
Ref. No. IL/D-	Date	Lab No.	Page No.	
13485	30/09/21	250921L-ED-007	2/2	
S.No.	Test Parameter	Units	Results	Test Methods
17	Iron as Fe	mg/L	0.04	IS 3025 (Part 53) : 2003
18	Manganese as Mn	mg/L	<0.002	IS 3025 (Part 47) : 1992
19	Magnesium as Mg	mg/L	6.7	IS 3025 (Part 46) :1994
	Biological Testing (Environmental & Pollution)	-	-	-
20	Faecal coliform	MPN/100ml	70	IS 1622:1981
21	Total Coliform Bacteria	MPN/100ml	350	IS 1622:1981
22	BOD	mg/L	<2	IS 3025 (Part 44) :1993
23	COD	mg/L	8	IS 3025 (Part 58) : 2006

Peny
29/09/21

Sample
29/09/2021

End of Report

For Idma Laboratories Limited



Idma Corporate Park, 391, Industrial Area, Phase-I, Panchkula, Haryana.

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TEST REPORT

Ref. No. IL/D- 13486	Date 30.09.21	Lab No. 250921L-ED-008	Page No. 1/2
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Surface Water		
Customer's Description of Sample	Surface Water		
Quantity	5 Ltr. + 250 ml		
Packing, Markings, Seal & Quantity	Plastic Can. & Glass Bottle		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 29/09/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Rishi Sharma
Sampling Location	Down-Stream, Chenab River		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	29/09/2021		
Sampling Protocol	IS: 3025-1987 & ILL/SOP/MB/034		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.44	IS 3025 (Part 11) :1983
2	Alkalinity as CaCO ₃	mg/L	110	IS 3025 (Part 23) :1986
3	Calcium as Ca	mg/L	24.8	IS 3025 (Part 40) :1991
4	Chloride as Cl	mg/L	21.0	IS 3025 (Part 32) : 1988
5	Conductivity	uS/cm	259	IS 3025 (Part 14) : 1984
6	Dissolved Oxygen (DO)	mg/L	6.9	IS 3025 (Part 38) :1989
7	Fluoride as F	mg/L	0.05	IS: 3025 (Part 60) : 2008
8	Hardness Total (as CaCO ₃)	mg/L	90	IS 3025 (Part 21) : 2009
9	Nitrogen (Nitrate) NO ₃	mg/L	2.1	IS 3025 (Part 34) :1988
10	Total Dissolved Solids	mg/L	177	IS 3025 (Part 16) : 1984
11	Sulphate as SO ₄	mg/L	9.5	IS 3025 (Part 24) :1986
12	Temperature	°C	16	IS 3025 (Part 9) : 1984
13	Turbidity	NTU	2	IS 3025 (Part 10) : 1984
14	Residual Free chlorine	mg/L	<0.1	IS 3025 (Part 26) : 1986
15	Potassium	mg/L	1.0	IS 3025 (Part 45) : 1993
16	Sodium	mg/L	4.9	IS 3025 (Part 45) : 1993

29/09/21



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TEST REPORT

S.No.	Test Parameter	Units	Results	Test Methods			
Ref. No. IL/D-	13486	Date	30/09/21	Lab No.	250921L-ED-008	Page No.	2/2
17	Iron as Fe	mg/L	0.05	IS 3025 (Part 53) : 2003			
18	Manganese as Mn	mg/L	<0.002	IS 3025 (Part 47) : 1992			
19	Magnesium as Mg	mg/L	6.7	IS 3025 (Part 46) :1994			
	Biological Testing (Environmental & Pollution)	--	-	--			
20	Faecal coliform	MPN/100ml	90	IS 1622:1981			
21	Total Coliform Bacteria	MPN/100ml	220	IS 1622:1981			
22	BOD	mg/L	<2	IS 3025 (Part 44) :1993			
23	COD	mg/L	10	IS 3025 (Part 58) : 2006			

Kenu
29/09/21

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29/09/21

End of Report

For Idma Laboratories Limited



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TEST REPORT

Ref. No. IL/D- 13487	Date 30/09/21	Lab No. 250921L-ED-009/A	Page No. 1/2
Customer	Patel Engineering Limited Kiru Hydroelectric Project Kiru, Distt. Kishtwar Jammu & Kashmir		
Type of Sample	Drinking Water		
Customer's Description of Sample	Drinking Water		
Quantity	5 Ltr. + 250 ml		
Packing, Markings, Seal & Quantity	Plastic Can. & Glass Bottle		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/09/2021
Date of Receipt of Sample	25/09/2021		
Period of Analysis	25/09/2021 To 28/09/2021		
Sampling Team Idma	Idma Representative Team	Client	Mr. Rishi Sharma
Sampling Location	R.O Plant (Near Admin Office)		
Visual Observation	N/A		
Date of Sampling	24/09/2021		
Date of Reporting	28/09/2021		
Sampling Protocol	IS: 3025-1987 & ILL/SOP/MB/034		
Testing Protocol	IS: 10500:2012 Amdt 1 & 2		

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) : 1983
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 1983
3	pH	-	7.39	6.5-8.5	No Relaxation	IS 3025 (Part 11) :1983
4	Alkalinity as CaCO ₃	mg/L	96	Max. 200	Max. 600	IS 3025 (Part 23) :1986
5	Boron	mg/L		Max. 0.5	Max. 1.0	IS 3025 (Part 57) : 2005
6	Calcium as Ca	mg/L	24	Max. 75	Max. 200	IS 3025 (Part 40) :1991 EDTA Method
7	Chloride as Cl	mg/L	16.3	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide CN	mg/L	<0.01	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride as F	mg/L	0.02	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Hardness Total (as CaCO ₃)	mg/L	78	Max. 200	Max. 600	IS 3025 (Part 21) : 2009 EDTA Method
11	Total Dissolved Solids	mg/L	137	Max. 500	Max. 2000	IS 3025 (Part 16) : 1984
12	Sulphate as SO ₄	mg/L	5.8	Max. 200	Max. 400	IS 3025 (Part 24) :1986 Turbidity Method
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 1984 Nephelometric Method
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :1983

Ravi
28/09/21





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TEST REPORT

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
15	Residual Free chlorine	mg/L	0.21	0.2 Min.	1	IS 3025 (Part 26) : 1986
16	Total Chromium	mg/L		-	-	IS 3025 (Part 52) : 2003
17	Cadmium	mg/L		Max. 0.003	No Relaxation	IS 3025 (Part 41) : 1992 Direct AAS Method
18	Potassium	mg/L	0.9	-	-	IS 3025 (Part 45) : 1993
19	Sodium	mg/L	4.0	-	-	IS 3025 (Part 45) : 1993
20	Copper as Cu	mg/L		Max. 0.05	1.5	IS 3025 (Part 42) : 1992 Direct/ A-Ac Flame AAS Method
21	Iron as Fe	mg/L		Max.1.0	No Relaxation	IS 3025 (Part 53) : 2003
22	Manganese as Mn	mg/L		Max. 0.1	0.3	IS 3025 (Part 47) : 1992 Direct/Extract A-Ac Flame AAS Method 3111B/C Direct/Extract
23	Nickel as Ni	mg/L		Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
24	Zinc as Zn	mg/L		Max. 5	15	IS 3025 (Part 49) : 1994
25	Aluminum	mg/L		Max. 0.03	0.2	IS 3025 (Part 55) : 2003
26	Selenium	mg/L		Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 by AAS /ICP
27	Silver	mg/L		Max. 0.1	No Relaxation	IS 13428(Ax-J) : 2005 by AAS /ICP
28	Mercury	mg/L		Max. 0.001	No Relaxation	IS 3025 (Part 48) : 1994 by AAS /ICP
29	Magnesium as Mg	mg/L	4.3	Max. 30	Max. 100	IS 3025 (Part 46) : 1994 EDTA Method Calculation Method
30	Total Arsenic	mg/L		Max. 0.01	No Relaxation	IS 3025 (Part 37) : 1988 by AAS /ICP

Recd
28/09/21

End of Report

For Idma Laboratories Limited



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