

CHENAB VALLEY POWER PROJECTS [P] LIMITED

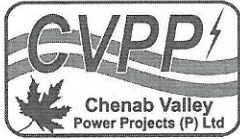
(A Joint Venture among NHPC Limited, JKSPDC and PTC India Ltd)
KWAR H.E. PROJECT, Chenab Nagar-II, Distt. Kishtwar (J&K)-182206.
 CIN: U40105JK2011PTC003321 Fax no. 01995-259230
 e-mail: hopkwar@cvppindia.com website: www.cvppindia.com

ANNEXURE-I

Six Monthly Environment Clearance Compliance Report (ECCR) for Kwar HE Project (540MW), in District Kishtwar of J&K State (September, 2023)

1	Name of Project	Kwar HE Project (540 MW)(CVPPPL)						
2	Type of Project	Hydro Electric Project						
3	Clearance letters OM No. and date (a) Environment Clearance (b) Forest Clearance	(a) Letter No. J-12011/4/2010-IA.I Dated: 10.04.2017 (b) i) Letter No. 268- FST of 2014 dated 08.08.2014 of GoJK (for 29.75 ha forest land). ii) Letter No.9-JKB-052/2021-Jammu dated: 25/01/2022. (for 2.4 ha forest land)						
4	Locations (a) District (s) (b) State (c) Latitude (d) Longitude	a) Kishtwar b) Jammu and Kashmir c) 33°21'01"N d) 75°53'39"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 Manger (HOP), Kwar HE Project Chenab Valley Power Projects (Pvt.) Ltd. Chenab Nagar-II, Kishtwar J&K. Pin code- 182206 Telephone:- 01995259230 Email: hopkwar@cvppindia.com (b) Managing Director, Chenab Valley Power Projects (Pvt.) Ltd. Chenab Jal Shakti Bhawan, Opp. Saraswati Dham, Rail Head Complex Jammu- 180012, J&K Phone/ Fax: 0191 2479826/ 2479835						
6	Detail of Environmental Management Plan	Environmental Management Plans to be implemented at the project are: <table border="1"> <thead> <tr> <th>S. No.</th> <th>EMP</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Biodiversity Conservation & Management Plan</td> </tr> <tr> <td>2.</td> <td>Catchment Area Treatment Plan (CAT)</td> </tr> </tbody> </table>	S. No.	EMP	1.	Biodiversity Conservation & Management Plan	2.	Catchment Area Treatment Plan (CAT)
S. No.	EMP							
1.	Biodiversity Conservation & Management Plan							
2.	Catchment Area Treatment Plan (CAT)							

Janpreet Singh
SM (Env)



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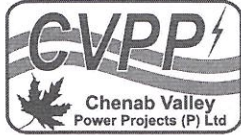
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		3. Fisheries Development Plan 4. Solid Waste Management Plan 5. Public Health Delivery System 6. Energy Conservation Measures 7. Muck Disposal Plan 8. Landscaping & restoration Plan 9. Air & Water Management Plan 10. Reservoir Rim treatment Plan 11. Compensatory Afforestation plan 12. Rehabilitation & Resettlement Plan 13. Environmental Monitoring Programme 14. Disaster Management Plan
7	Breakup for Project area (Land details)	Forest Land: 32.15 ha Private Land: 17.03 ha State Land: 20.72 ha River bed land: 65.85 ha Total Land: 135.75 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 : 5 Total PAFs : 63 Displaced PAFs : 29 Non-Displaced PAFs : 34 (a) Scheduled Tribe : 19 families. (b) Others : NIL <i>Note:-The above figures are likely to change after reverification of records by the District Administration.</i>
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	Sanctioned cost as per CCEA Clearance 4526.12 Cr. (Sept 2020 PL) Actual expenditure: 511.88 Cr. (till September 2023) Allocations for EMP: 137.35 Crs (approved by MoEF&CC) Actual expenditure incurred on EMP: Payment released on account of Forest clearance: Rs 3.8324 Cr. Payment released towards extraction of Forest trees: Rs 4.83 Lakh Payment on account of implementation of R&R Plan: Rs.5.00 Crore released on 14.12.2022.

Jan 18/23



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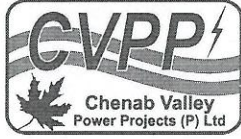
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10	<p>Forest Land Requirements</p> <p>(a) Status of approval diversion of Forest Land for non-forestry use</p> <p>(b) The status of clear felling of trees in Forest Land</p>	<p>(a) Forest clearance for diversion of 29.75 Ha forest land from GoJK obtained vide Order no. 268- FST of 2014 dated 08.08.2014.</p> <p>(b) Forest clearance for diversion of 2.4 Ha forest land from Integrated Regional Office, Jammu (MOEF&CC) obtained vide Letter No.9-JKB-052/2021-Jammu dated: 25/01/2022</p> <p>(c) Tree felling is in process by State Forest Department</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: Work Awarded vide LOA dated 11.05.2022</p> <p>(b) Date of completion (planned): 54 months</p>
12	<p>Reasons for the delay (If the Project is yet to be started)</p>	<p>Work Awarded vide LOA dated 11.05.2022</p>
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.	<p>Brief note on the status of compliance of the conditions stipulated by MOEF&CC</p>	<p>Details are enclosed as Annexure-II.</p>

Jayant Singh
SM (E&C)



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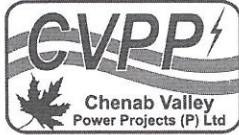
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ANNEXURE-II

Status of Compliance to the conditions stipulated by MoEF&CC, Govt. of India vide Environmental Clearance letter no. J-12011/4/2010-IA-I dated 10.04.2017

S. No.	Conditions	Compliance Status
Specific Conditions		
i	As and when the Cumulative Impact Assessment & Carrying Capacity Studies (CIA & CCS) of the Chenab River Basin of J&K is carried out, the recommendation therein for Kwar HEP shall be followed by PP.	Shall be complied.
ii	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 time and the maintenance work shall be undertaken for next 5 years. Financial allocation of Rs. 2930.56 lakhs for CAT plan implementation shall be fully utilized and not be diverted for any other purpose. As per CAT plan, the area to be treated is 2211 ha.	Matter has been taken up with the J&K State Forest Department for implementation of CAT Plan.
iii	Land acquired for the project shall be suitably compensated with the prevailing guidelines and all commitments made during the public hearing shall be fulfilled. The R&R benefits for the Project Affected Person (PAPs) should be adequately compensated for loss of assets and assisted to re-establish their livelihoods. The assessment has been made as per the norms of the National Rehabilitation & Resettlement Policy (NRRP), 2007 and guidelines of J&K State Government. The project affected population should be resettled and rehabilitated as per the Jammu & Kashmir state R&R policy. All R&R issues shall be completed before commissioning of the project.	Being Complied. GoJK has approved the R&R plan of the project vide Govt. Order No.-44-DMRR&R of 2018 dated 03.08.2018. DC Kishtwar has been appointed as Commissioner R&R vide GoJK Order dated 03.03.2020. An amount of Rs.5.00 Crore has been released in favour of DC Kishtwar on 14.12.2022 for implementation of R&R Plan.
iv	Implementation of R&R plan is to be closely monitored by the state Authority and is to be ensured that all Project Affected Families (PAF's) shall get adequate & timely compensation.	GoJK constituted the Empowered Committee under the Chairmanship of Chief Secretary, GoJK to finalize and monitor the



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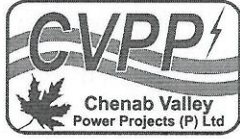
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		implementation of R&R plan of Kwar HEP vide G.O. No. 1281-GAD of 2017 dated 09.10.2017.
v	A Monitoring Committee for R&R should be constituted which shall include representatives of project affected persons including representative from SC/ST category and a woman beneficiary.	GoJK approved the R&R plan of the project vide Govt. Order No.-44-DMRR&R of 2018 dated 03.08.2018 wherein approval has also been granted for constitution of Project level committee under the Chairmanship of Deputy Commissioner. Committee is yet to be constituted.
vi	All the commitments made during the public hearing should be fulfilled completely by project proponent and record maintained.	Being Complied. The R&R Plan has been prepared by District Administration duly considering the aspirations and demands of local people. The R&R Plan approved by the GoJK is being implemented. An amount of Rs.5.00 Crore has been released in favour of DC Kishtwar on 14.12.2022 for implementation of R&R Plan.
vii	A minimum environmental flow of 16.49 cumec during lean season (December to March), 74.09 cumec during monsoon season (June to September) and 16.79 cumec during remaining four months (October-November & April-May) shall have to be maintained. On line monitoring system for the e-flow releases 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
viii	Dumping and consolidation/compaction of the muck shall be carried out only in the designated muck dumping sites as submitted in the EIA/EMP report. As per the proposed muck	Being Complied. The disposal of muck is done at the designated

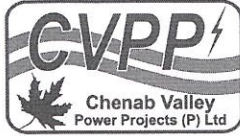


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	disposal plan given in EMP, out of the 38.73 lakh m ³ of muck to be generated, 8.13 lakh m ³ will be reused in various project components and remaining 30.60 lakh m ³ will be dumped at 3 designated disposal sites in an allocated area of 34.35 ha. The dumping sites shall be more than 30 m away from the HFL of the river and the toe walls for muck disposal sites shall be constructed at least 30 m away from HFL of River. Allocated grant of Rs. 3,419.30 lakhs shall be fully utilized and not to be diverted for any other purpose.	dumping sites only.
ix	Proposed Compensatory Afforestation Programme in 59.50 ha of degraded forest area shall be undertaken in consultation with State Forest Department. Allocated grant of Rs. 385.03 lakh shall be fully utilized and not to be diverted for any other purpose.	<p>A) Requisite amount of Rs 3.44 Cr was deposited with Forest deptt. for diversion of 29.75 Ha of Forest land including Rs 41.65 lakhs towards compensatory afforestation.</p> <p>B) Requisite amount of Rs 37.977 Lac was deposited with J&K CAMPA for diversion of 2.4 Ha of Forest land including Rs 9.10958 lakhs towards compensatory afforestation</p> <p>The compensatory afforestation shall be carried out by Forest Department for which the matter has been taken up with the appropriate Authorities.</p>
x	Landscaping & Restoration Plan as proposed in EMP Report, shall be developed. The proposed plan includes Treatment of Borrow Pits and Quarry Sites, Landscaping & Restoration and Greenbelt development. Local indigenous varieties of plants to be planted and maintained till their full growth including gap filling. The implementation shall be undertaken in consultation with State Forest Department. The allocated budget of Rs. 224.04 lakhs shall be fully utilized for this purpose and not to be diverted to any other purpose.	Shall be complied.

Handwritten signature in blue ink.



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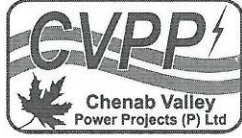
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xi	Solid waste Management Plan as proposed in the EMP report shall be implemented, the plastic waste generated should be disposed of by recycling and not by land filling. Allocated grant of Rs 221.60 lakh shall be fully utilized and not to be diverted for any other purposed.	Being Complied. The Major Contractor executing the works has hired Kishtwar Municipal Corporation as a certified vendor for waste management.
xii	Proposed Biodiversity Conservation & Management plan as outlined in the EMP shall be implemented with State Forest Department. The allocated budget of Rs. 140.48 lakhs for this purpose shall be fully utilized and shall not be diverted for any other purpose. Proposed Reservoir Rim Treatment Plan with both biological and engineering measures shall be implemented strictly. Allocated amount of Rs. 1043.69 lakhs should be fully utilized and shall not be diverted for any other purpose.	Shall be complied.
xiii	The Fisheries Development Plan as proposed in the EMP shall be implemented completely 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.	The matter has been taken up with the State Fisheries Department for implementation of Fisheries development Plan.
xiv	Skill mapping of the area to be got conducted, mentioning the skills inherent of the local people, and based on the skill mapping, the training to the youths be incorporated for their appropriate engagement in the Project.	Being Complied. Skill Mapping plan has been prepared by University of Jammu and report has been submitted to the District Administration.
xv	Equipments likely to generate high noise levels during construction period or otherwise shall have to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA) 1986. This shall be strictly compiled	Being Complied. The ambient Noise Levels at the construction site are being monitored periodically.
xvi	The case for diversion of 29.75 ha of forest land for the project has been approved by the J&K State Forest Advisory Committee in its 81 st meeting held on 9 th December 2013 and requisite payment in this regard has also been deposited with the Forest Department. Necessary forest clearance required	a) Forest Clearance for diversion of 29.75 Ha Forest land was accorded vide Govt. order no: 268-FST of 2014 dated

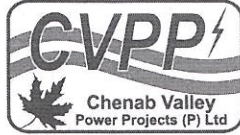


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	for the project shall be obtain and informed this Ministry accordingly.	08.08.2014. b) Forest clearance for diversion of 2.4 Ha forest land from Integrated Regional Office, Jammu (MOEF&CC) obtained vide No 9-JKB-052/2021-Jammu dt 25.01.2022.
xvii	Any other clearances required from any other organization/department should be obtained before commencement of works and commissioning of the project, as applicable.	Shall be complied as and when required.
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.	The same has been included in the contract agreement and is being complied by the contractor.
ii	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 and medical facilities shall also be provided to the labourers during construction period.	The same has been included in the contract agreement and is being complied by the Contractor.
iii	Recreational facilities shall be provided to the labourers.	The same has been included in the contract agreement and is being complied by the Contractor.
iv	Water sprinkling arrangements shall be made to suppress fugitive emissions/ dust.	The same is complied by the contractor.
v	Potable drinking water and proper sanitary facilities shall be provided for the labour force. Proper disposal facilities for solid waste are to be ensured.	The same has been included in the contract agreement and is being complied by the Contractor.
vi	Restoration of construction area including muck dumping sites shall be ensured by leveling, filling up of borrow pits,	Shall be complied.

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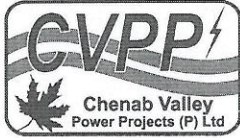
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	landscaping, etc. The area should be properly treated with plantation.	
vii	Environmental parameters shall be monitored and "Six monthly monitoring reports" shall be submitted to the Ministry of Environment, Forest & Climate change, New Delhi including its Regional office for their review.	Being Complied. The environmental parameters are being monitored periodically. (Reports enclosed)
viii	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
ix	An Environmental Management Cell (EMC) shall be established 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 22.06.2018.
Other Conditions stipulated in EC Letter requiring compliance by CVPPPL		
7.	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
8.	The responsibility of implementation of environmental safeguards rests fully with the M/s. Chenab Valley Power Projects Pvt. Ltd. and Government of Jammu & Kashmir. Therefore, these may be critically reviewed jointly & periodically.	Shall be complied
9.	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. The Government of Jammu & Kashmir may also like to monitor implementation of EMP at regular intervals.	Shall be complied
10.	The Environmental Management Plan (EMP) shall be strictly adhered to and a sum of Rs. 137.35 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
11.	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.	There is no change in scope of the Project. Shall be complied if required.

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12.	Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986 to ensure effective implementation of the suggested measures in a time bound and satisfactory manner.	Noted
13.	This clearance letter is valid for a period of 10 years from the date of issue of this letter for completion of the project.	Noted
14.	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. The clearance letter shall also be put on website by the project proponent.	Complied.
16.	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 MoEF&CC. http://www.moef.nic.in	Complied. Advertisement was published in two news papers viz: 1. Daily Excelsior (English) dated 13.04.2017 and 2. Daily Udaan (Urdu) dated 13.04.2017.
17.	The project proponent shall also submit six monthly reports on the status of compliance of stipulated EC conditions including the results of monitored data (both in hard copies as well as by e-mail) to respective Regional Office of MoEF&CC.	Being Complied. Six monthly EC Compliance Reports are being timely submitted.
18.	After 5 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.
19.	A Multi-Disciplinary Committee (MDC) for monitoring the implementation of environmental safeguards during construction shall be constituted by the project proponent (PP) in consultation with the Ministry as early as possible. A panel may be proposed by the PP and submitted to Ministry and the Government of Jammu & Kashmir. The project proponent shall organize six monthly meetings of the Committee and submit the monitoring report to the ministry. The MDC will monitor specifically the stability and effectiveness of muck dumping sites during all visits and monitor it & suggest remedial measures, if so required.	Approval for constitution of MDC was accorded by MoEF&CC vide letter No. J-12011/4/2010-IA-1 dated 09.07.2018 with amendment issued vide No. J-12011/04/2010-IA-1(R) dated 02.05.2019.

*As per letter
SM/10/1*



Idma Laboratories Limited

TEST REPORT

Lab No.	070823N-E-001	Page No.	1/2
Customer#	Patel Engineering Limited Kwar Hydroelectric Project VIII.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-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.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	CVT		
Visual Observation	N/A		
Date of Sampling	04/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM10	µg/m ³	81.9	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	15.1	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	18.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	20.9	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	38.8	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.59	Max. 2	NAAQMS/36/2012-13

Reviewed by
[Signature]
Dipti Jain
Asst. Tech. Manager
Idma Laboratories Limited
Panchkula

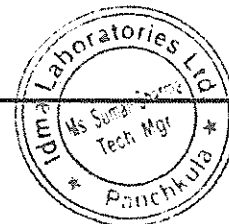
Authorised signatory
[Signature]

Idma Laboratories Limited

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Haryana (India)
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Website : www.idmagroup.co.in
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TEST REPORT

Lab No.		070823N-E-001			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	20	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	<2	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m^3	<0.09	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m^3	<1	Max. 6	NAAQMS/36/2012-13
11	Nickel	ng/m^3	<8	Max. 20	NAAQMS/36/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	0.11	Max. 1	NAAQMS/36/2012-13

Represents details provided by the customer.

End of Report



12/08/23
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

TEST REPORT

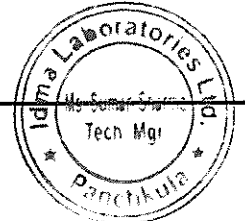
Lab No.	070823N-E-002		Page No. 1/2	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	141	Dated	23/02/2023	
Date of Receipt of Sample	07/08/2023			
Period of Analysis	07/08/2023 To 12/08/2023			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram	
Sampling Location#	MAT			
Visual Observation	N/A			
Date of Sampling	04/08/2023			
Date of Reporting	12/08/2023			
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013			
Testing Protocol	NAAQS			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m ³	80.9	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	14.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	19.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	23.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	37.6	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.39	Max. 2	NAAQMS/36/2012-13

Reviewed by
Dipti Jain
Asst. Tech. Manager
12/08/23

Authorised signatory
12/08/23



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

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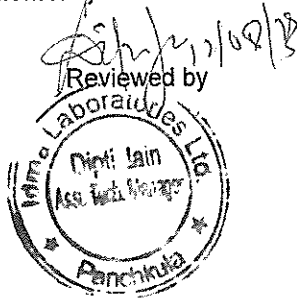
Idma Laboratories Limited

TEST REPORT

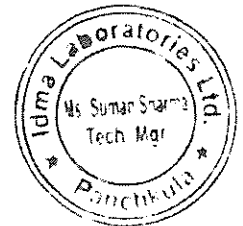
Lab No.		070823N-E-002			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	19	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	2.1	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m^3	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m^3	<1	Max. 6	NAAQMS/36/2012-13
11	Nickel	ng/m^3	<8	Max. 20	NAAQMS/36/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1	NAAQMS/36/2012-13

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End of Report



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TEST REPORT

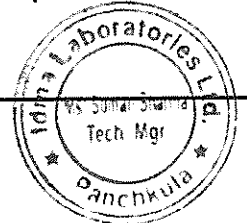
Lab No.	070823N-E-003	Page No.	1/2
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	01 No.		
Packing, Markings#	Filter Paper Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	Surge Gallery		
Visual Observation	N/A		
Date of Sampling	04/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM10	µg/m ³	82.4	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	16.3	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	21.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	23.7	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	39.4	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.41	Max. 2	NAAQMS/36/2012-13

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

Authorised signatory
[Signature]
23/08/23



Idma Laboratories Limited

Idma Corporate Park,
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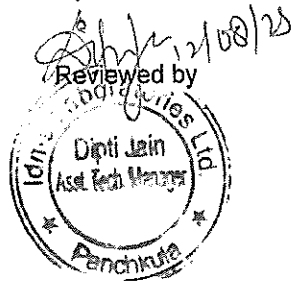
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TEST REPORT

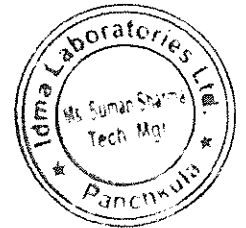
Lab No.		070823N-E-003			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	20	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	2.1	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m^3	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m^3	<1	Max. 6	NAAQMS/36/2012-13
11	Nickel	ng/m^3	<8	Max. 20	NAAQMS/36/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1	NAAQMS/36/2012-13

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End of Report



12/08/23
Authorised signatory



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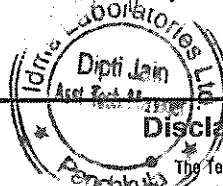
TEST REPORT

Lab No.	070823N-E-004	Page No. 1/2
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-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.#	141	Dated 23/02/2023
Date of Receipt of Sample	07/08/2023	
Period of Analysis	07/08/2023 To 12/08/2023	
Sampling Team	Idma Representative Team	Client Mr. Wasim Akram
Sampling Location#	inlet -Outlet Indoor	
Visual Observation	N/A	
Date of Sampling	05/08/2023	
Date of Reporting	12/08/2023	
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013	
Testing Protocol	NAAQS	

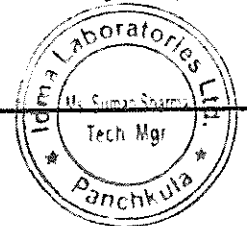
RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m ³	82.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	15.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	17.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	21.6	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	39.8	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.34	Max. 2	NAAQMS/36/2012-13

Reviewed by



Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase - 1,
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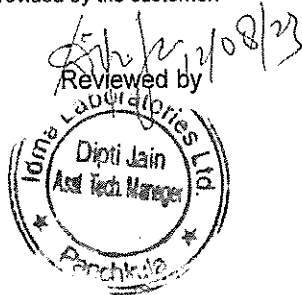
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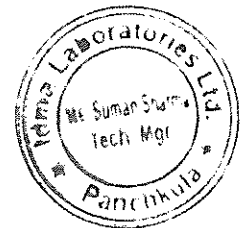
Lab No.	070823N-E-004				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	19	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	<2	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m^3	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m^3	<1	Max. 6	NAAQMS/36/2012-13
11	Nickel	ng/m^3	<8	Max. 20	NAAQMS/36/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1	NAAQMS/36/2012-13

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[Signature] 2/08/23
Authorised signatory



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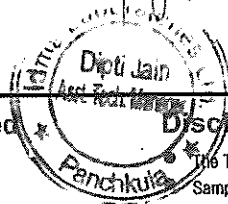
TEST REPORT

Lab No.	070823N-E-005		Page No. 1/2	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-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 Laboratoires			
Work Order No.#	141	Dated	23/02/2023	
Date of Receipt of Sample	07/08/2023			
Period of Analysis	07/08/2023 To 12/08/2023			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram	
Sampling Location#	Main Office Infra			
Visual Observation	N/A			
Date of Sampling	05/08/2023			
Date of Reporting	12/08/2023			
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013			
Testing Protocol	NAAQS			

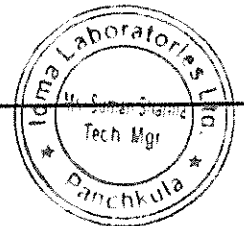
RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m ³	81.9	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	19.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	20.3	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	24.6	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	38.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.40	Max. 2	NAAQMS/36/2012-13

Reviewed by



Authorised signatory



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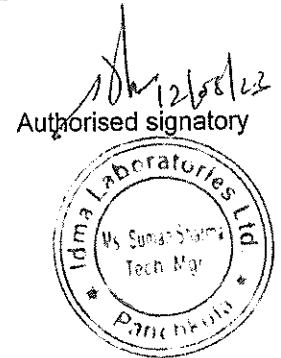
Idma Laboratories Limited

TEST REPORT

Lab No.		070823N-E-005			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	20	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	<2	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m^3	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m^3	<1	Max. 6	NAAQMS/36/2012-13
11	Nickel	ng/m^3	<8	Max. 20	NAAQMS/36/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1	NAAQMS/36/2012-13

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TEST REPORT

Page No. 1/1

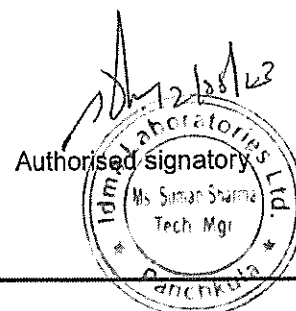
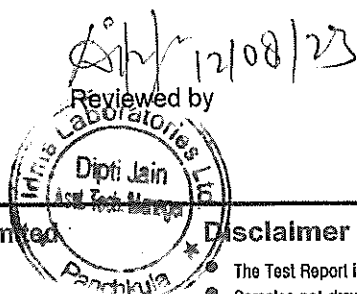
Lab No.	070823N-E-006	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir	
Type of Sample#	NOISE LEVEL (AMBIENT)	
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)	
Quantity#	01 No.	
Packing, Markings#	Instrument at Site.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	141	Dated 23/02/2023
Date of Receipt of Sample	07/08/2023	
Period of Analysis	07/08/2023 To 12/08/2023	
Sampling Team	Idma Representative Team	Client Mr. Wasim Akram
Sampling Location#	CVT	
Visual Observation	N/A	
Date of Sampling	05/08/2023	
Date of Reporting	12/08/2023	
Sampling Protocol	CPCB Protocol:2015	
Testing Protocol	EPA/CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	61.3	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	52.6	Max 70	EPA Guideline Manual July 2008

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

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Idma Laboratories Limited

TEST REPORT

Lab No.	070823N-E-007	Page No. 1/1	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill. Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-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.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	MAT		
Visual Observation	N/A		
Date of Sampling	05/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	CPCB Protocol:2015		
Testing Protocol	EPA/CPCB		

RESULTS

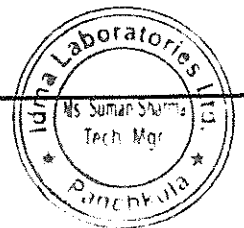
S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	60.1	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	52.8	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report

12/08/23
Reviewed by
Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd.
Panchkula

12/08/23
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

Lab No.	070823N-E-008	Page No.	1/1
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-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.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	Surge Gallery		
Visual Observation	N/A		
Date of Sampling	05/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	CPCB Protocol:2015		
Testing Protocol	EPA/CPCB		

RESULTS

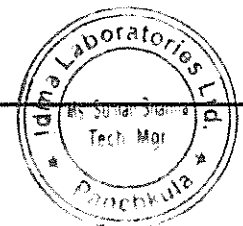
S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	62.9	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	54.7	Max 70	EPA Guideline Manual July 2008

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[Signature]
Reviewed by
Dipti Jain
Tech Mgr
Idma Laboratories Ltd.
Panchkula

[Signature]
Authorised signatory



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TEST REPORT

Lab No.	070823N-E-009	Page No. 1/1	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill. Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	DG Noise Cummins 500 KVA, EM No. 5761		
Visual Observation	N/A		
Date of Sampling	05/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	CPCB Protocol:2015		
Testing Protocol	CPCB		

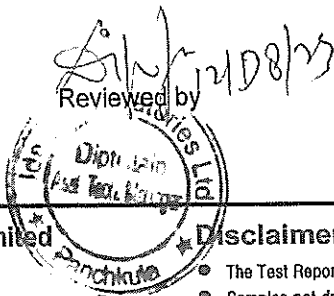
RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.5	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.8	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guideline Manual July 2008

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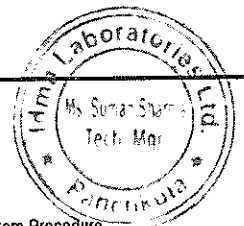
End of Report

Reviewed by



Authorised signatory

12/08/23



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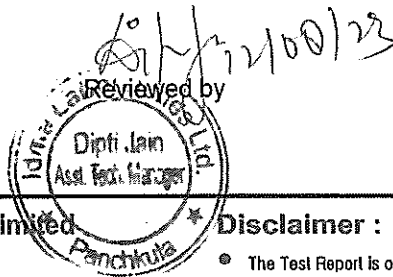
Lab No.	070823N-E-010		Page No.	1/1
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	141	Dated	23/02/2023	
Date of Receipt of Sample	07/08/2023			
Period of Analysis	07/08/2023 To 12/08/2023			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram	
Sampling Location#	DG Noise 125 KVA Wilson, Near Search Gallery)			
Visual Observation	N/A			
Date of Sampling	05/08/2023			
Date of Reporting	12/08/2023			
Sampling Protocol	CPCB Protocol:2015			
Testing Protocol	CPCB			

RESULTS

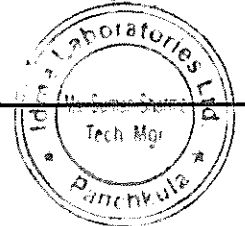
S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	73.1	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.2	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.6	Min. 25	EPA Guideline Manual July 2008

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End of Report



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TEST REPORT

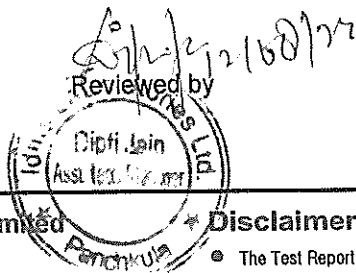
Lab No.	070823N-E-011	Page No. 1/1	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	DG Noise 500 KVA, CAT, (Near MAT Area)		
Visual Observation	N/A		
Date of Sampling	05/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	CPCB Protocol:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.8	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.9	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.5	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.4	Min. 25	EPA Guideline Manual July 2008

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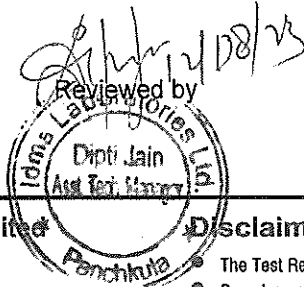
Lab No.	070823N-E-012		Page No. 1/1	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	141	Dated	23/02/2023	
Date of Receipt of Sample	07/08/2023			
Period of Analysis	07/08/2023 To 12/08/2023			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram	
Sampling Location#	DG Noise 500 KVA, CAT (Near Outlet Area)			
Visual Observation	N/A			
Date of Sampling	05/08/2023			
Date of Reporting	12/08/2023			
Sampling Protocol	CPCB Protocol:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.2	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.3	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.9	Min. 25	EPA Guideline Manual July 2008

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End of Report



Handwritten signature and date '12/08/23' over a circular stamp reading 'Authorised signatory' and 'Suman Sharma Tech Mgr.'"/>

Idma Laboratories Limited

Idma Corporate Park,
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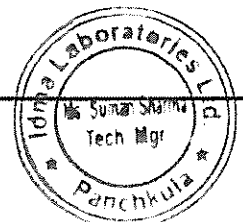
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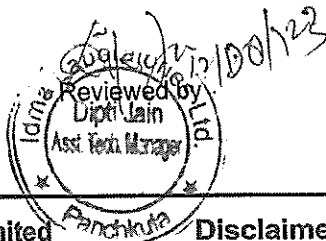
Lab No.	070823N-E-013	Page No. 1/1	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	DG Noise 500 KVA, CAT (Near Inlet Area CAT)		
Visual Observation	N/A		
Date of Sampling	05/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	CPCB Protocol:2015		
Testing Protocol	CPCB		

RESULTS

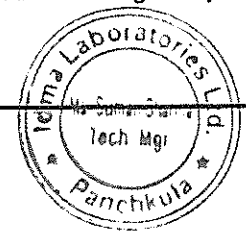
S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.4	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.4	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.4	Min. 25	EPA Guideline Manual July 2008

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End of Report



Authorised signatory
[Signature] 12/08/23



Idma Laboratories Limited

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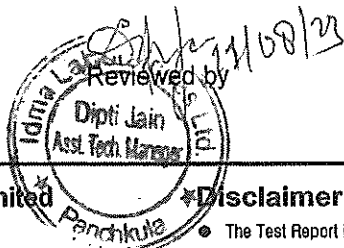
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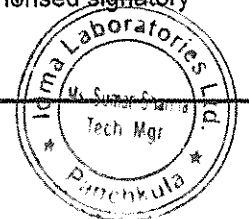
Lab No.	070823N-E-014	Page No. 1/2	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Surface Water		
Customer's Description of Sample#	Surface Water		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 11/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	Surface Water River (Up-Stream)		
Visual Observation	N/A		
Date of Sampling	04/08/2023		
Date of Reporting	11/08/2023		
Sampling Protocol	IS:17614(P-1):2021		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	pH	-	7.66	APHA 4500H+B 24th Edition, 2022
2	Alkalinity as CaCO ₃	mg/L	129	APHA 2320 B 24th Edition, 2022
3	Calcium as Ca	mg/L	22.8	APHA 3500-Ca B 24th Edition, 2022
4	Chloride as Cl	mg/L	18.7	APHA 4500Cl- B 23rd Edition, 2017
5	Magnesium as Mg	mg/L	14.3	APHA 3500 Mg B 24th Edition, 2022
6	Dissolved Oxygen (DO)	mg/L	7.1	CPCB Guide Manual:Water & waste water Analysis
7	Hardness Total (as CaCO ₃)	mg/L	116	APHA 2340C 24th Edition, 2022
8	Total Dissolved Solids	mg/L	207	APHA 2540 C 24th Edition, 2022
9	Sulphate as SO ₄	mg/L	9.7	APHA 4500-SO ₄ -4 E 24th Edition, 2022



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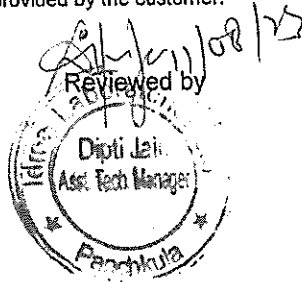
TEST REPORT

Lab No.		070823N-E-014		Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method
10	Turbidity	NTU	<1	APHA 3130 B 24th Edition, 2022
11	Residual Free chlorine	mg/L	<0.1	APHA 4500Cl B 24th Edition, 2022
12	Iron as Fe	mg/L	0.008	APHA 3125 B 24th Edition, 2022
13	Lead as Pb	mg/L	BLQ (LOQ - 0.0005)	APHA 3125 B 24th Edition, 2022
14	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	APHA 3125 B 24th Edition, 2022
	Biological Testing (Water)	-	-	-
15	Faecal Coliforms	MPN/100ml	170	APHA 9221 F 24th Edition, 2022
16	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis
17	Chemical Oxygen Demand	mg/L	<4	CPCB Guide Manual:Water & waste water Analysis

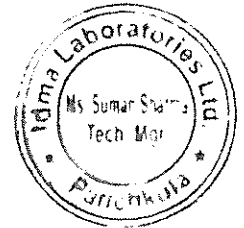
Opinion :

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End of Report



Handwritten signature above the text '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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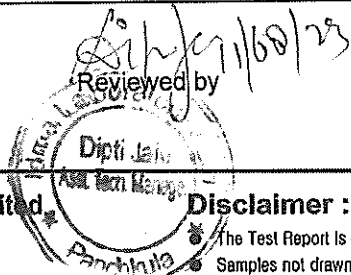
TEST REPORT

Lab No.	070823N-E-015	Page No. 1/2	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Surface Water		
Customer's Description of Sample#	Surface Water		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 11/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	Surface Water River (Down-Stream)		
Visual Observation	N/A		
Date of Sampling	04/08/2023		
Date of Reporting	11/08/2023		
Sampling Protocol	IS:17614(P-1):2021		
Testing Protocol	-		

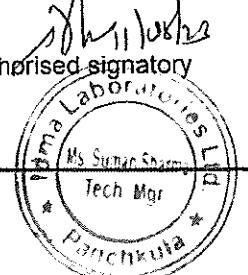
RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	pH	-	7.44	APHA 4500H+B 24th Edition, 2022
2	Alkalinity as CaCO ₃	mg/L	132	APHA 2320 B 24th Edition, 2022
3	Calcium as Ca	mg/L	27.3	APHA 3500-Ca B 24th Edition, 2022
4	Chloride as Cl	mg/L	20.8	APHA 4500Cl- B 24th Edition, 2022
5	Magnesium as Mg	mg/L	13.5	APHA 3500 Mg B 24th Edition, 2022
6	Dissolved Oxygen (DO)	mg/L	6.9	CPCB Guide Manual:Water & waste water Analysis
7	Hardness Total (as CaCO ₃)	mg/L	124	APHA 2340C 24th Edition, 2022
8	Total Dissolved Solids	mg/L	219	APHA 2540 C 24th Edition, 2022
9	Sulphate as SO ₄	mg/L	11.7	APHA 4500-SO ₄ E 24th Edition, 2022

Reviewed by



Authorised signatory



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TEST REPORT

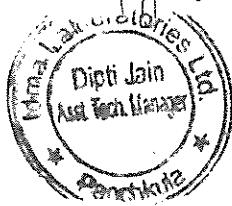
Lab No.	070823N-E-015			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method
10	Turbidity	NTU	<1	APHA 3130 B24th Edition, 2022
11	Residual Free chlorine	mg/L	<0.1	APHA 4500Cl B24th Edition, 2022
12	Iron as Fe	mg/L	0.002	APHA 3125 B 24th Edition, 2022
13	Lead as Pb	mg/L	BLQ (LOQ - 0.0005)	APHA 3125 B 24th Edition, 2022
14	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	APHA 3125 B 24th Edition, 2022
	Biological Testing (Water)	-	-	-
15	Faecal Coliforms	MPN/100ml	180	APHA 9221 F 24th Edition, 2022
16	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	2	CPCB Guide Manual:Water & waste water Analysis
17	Chemical Oxygen Demand	mg/L	4	CPCB Guide Manual:Water & waste water Analysis

Opinion :

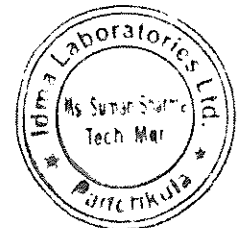
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****End of Report****

Dipti Jain
Reviewed by



Ms. Sunita Sharma
Authorised signatory



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Idma Corporate Park,

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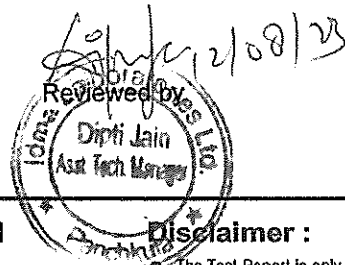
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TEST REPORT

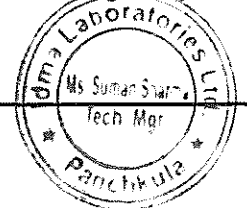
Lab No.	070823N-E-016		Page No. 1/2	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Waste Water			
Customer's Description of Sample#	Waste Water			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	141	Dated	23/02/2023	
Date of Receipt of Sample	07/08/2023			
Period of Analysis	07/08/2023 To 12/08/2023			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram	
Sampling Location#	MAT			
Visual Observation	N/A			
Date of Sampling	05/08/2023			
Date of Reporting	12/08/2023			
Sampling Protocol	IS:17614(P-1):2021			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.29	5.5 -9.0	APHA4500-H+ B 24th Edition 2022
2	Chemical Oxygen Demand (COD)	mg/L	45.3	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	08	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	<2.5	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	289	-	APHA2540 C 24th Edition 2022
6	Total Suspended Solids (TSS)	mg/L	22	Max 100	APHA2540 D 24th Edition 2022



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TEST REPORT

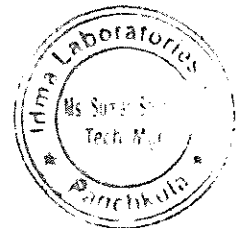
Lab No.		070823N-E-016			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	Biological Testing (Water)	-	-	-	-
7	Faecal Coliform	MPN/100ml	110	-	APHA 9221 F 24th Edition, 2022

Represents details provided by the customer.

End of Report



[Signature]
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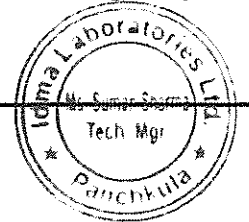
Lab No.	070823N-E-017		Page No.	1/2
Customer#	Patel Engineering Limited Kwar Hydroelectric Project VIII.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Waste Water			
Customer's Description of Sample#	Waste Water			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	141	Dated	23/02/2023	
Date of Receipt of Sample	07/08/2023			
Period of Analysis	07/08/2023 To 12/08/2023			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram	
Sampling Location#	MESS			
Visual Observation	N/A			
Date of Sampling	05/08/2023			
Date of Reporting	12/08/2023			
Sampling Protocol	IS:17614(P-1):2021			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.32	5.5-9.0	APHA4500-H+ B 24th Edition 2022
2	Chemical Oxygen Demand (COD)	mg/L	51.6	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	10	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.62	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	303	-	APHA2540 C 24th Edition 2022
6	Total Suspended Solids (TSS)	mg/L	29	Max 100	APHA2540 D 24th Edition 2022

Reviewed by
Dipti Jain
Asst. Tech. Manager
12/08/23

Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

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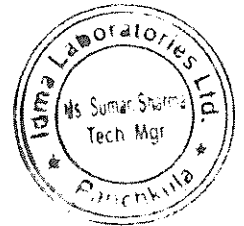
Lab No.	070823N-E-017				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	Biological Testing (Water)	-	-	-	-
7	Faecal Coliform	MPN/100ml	130	-	APHA 9221 F 24th Edition,2022

Represents details provided by the customer.

End of Report

Dipti Jain
Reviewed by


Suman Sharma
12/08/23
Authorised signatory



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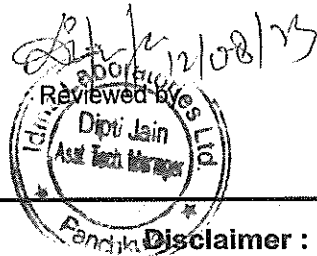
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TEST REPORT

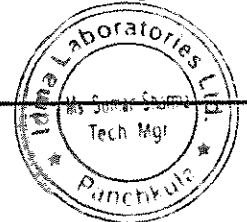
Lab No.	070823N-E-018		Page No.	1/2
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Waste Water			
Customer's Description of Sample#	Waste Water			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	141	Dated	23/02/2023	
Date of Receipt of Sample	07/08/2023			
Period of Analysis	07/08/2023 To 12/08/2023			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Akram	
Sampling Location#	Sure Gallery			
Visual Observation	N/A			
Date of Sampling	06/08/2023			
Date of Reporting	12/08/2023			
Sampling Protocol	IS:17614(P-1):2021			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.62	5.5-9.0	APHA4500-H+ B 24th Edition, 2022
2	Chemical Oxygen Demand (COD)	mg/L	44.6	Ma 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	8	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	<2.5	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	324	-	APHA2540 C 24th Edition, 2022
6	Total Suspended Solids (TSS)	mg/L	25	Max 100	APHA2540 D 24th Edition, 2022



12/08/23
Authorised signatory



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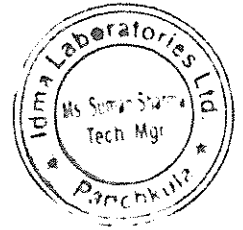
Lab No.	070823N-E-018				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	Biological Teating (Water)	-	-	-	-
7	Faecal Coliform	MPN/100ml	220	-	APHA 9221 F 24th Edition, 2022

Represents details provided by the customer.

End of Report



12/08/20
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

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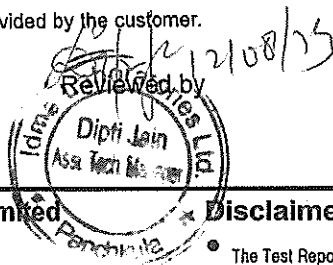
Lab No.	070823N-E-019		Page No. 1/1	
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir			
Type of Sample#	Waste Water			
Customer's Description of Sample#	Waste Water			
Quantity#	5 Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	141	Dated	23/02/2023	
Date of Receipt of Sample	07/08/2023			
Period of Analysis	07/08/2023 To 12/08/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Wasim Akram	
Sampling Location#	Inlet			
Visual Observation	N/A			
Date of Sampling	06/08/2023			
Date of Reporting	12/08/2023			
Sampling Protocol	IS:17614(P-1):2021			
Testing Protocol	-			

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-
1	pH	-	8.09	APHA4500-H+ B 24th Edition, 2022
2	Chemical Oxygen Demand (COD)	mg/L	96.8	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	18	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	4.6	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	345	APHA2540 C 24th Edition, 2022
6	Total Suspended Solids (TSS)	mg/L	59	APHA2540 D 24th Edition, 2022
	Biological Testing (Water)	-	-	-
7	Faecal Coliform	MPN/100ml	140	APHA 9221 F 24th Edition, 2022

Represents details provided by the customer.

End of Report



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

TEST REPORT

Lab No.	070823N-E-020	Page No.	1/3
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill. Padhyarna, Tehsil-Nagseni Dst. Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	Officer Mess		
Visual Observation	N/A		
Date of Sampling	06/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	IS:17614(P-1):2021		
Testing Protocol	IS: 10500:2012		

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2022
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2022
3	pH	-	7.24	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2022
4	Alkalinity as CaCO ₃	mg/L	102	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2022
5	Boron	mg/L	0.001	Max. 0.5	Max. 2.4	APHA 3125 B 24th Edition, 2022
6	Calcium as Ca	mg/L	21.6	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2022
7	Chloride as Cl	mg/L	18.4	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2022
8	Magnesium as Mg	mg/L	10.0	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2022

Reviewed by
Dipti Jain
Asst. Tech. Manager
12/08/23

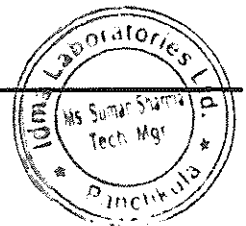
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Idma Laboratories Limited

TEST REPORT

Lab No.		070823N-E-020				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2022
10	Fluoride as F	mg/L	0.13	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	95	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022
12	Total Dissolved Solids	mg/L	139	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2022
13	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2022
14	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2022
15	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2022
16	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 24th Edition, 2022
17	Potassium	mg/L	1.3	-	-	APHA 3125 B 24th Edition, 2022
18	Sodium	mg/L	8.7	-	-	APHA 3125 B 24th Edition, 2022
19	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 24th Edition, 2022
20	Iron as Fe	mg/L	0.005	Max. 1.0	No Relaxation	APHA 3125 B 24th Edition, 2022
21	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3125 B 24th Edition, 2022
22	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 24th Edition, 2022
23	Zinc as Zn	mg/L	0.011	Max. 5	Max. 15	APHA 3125 B 24th Edition, 2022
24	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 24th Edition, 2022
25	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
26	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 24th Edition, 2022
27	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
28	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 24th Edition, 2022
	Biological Testing (Water)	-	-	-	-	-

Reviewed by
Dinti Jain
 Asst. Tech. Manager
 12/08/23

Authorised signatory

Ms. Suman Shrivastava
 Tech Mgr

Idma Laboratories Limited Panchkula Disclaimer :

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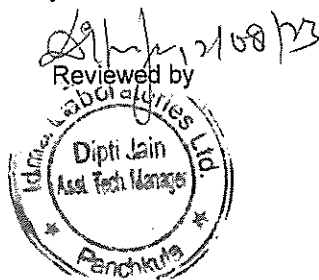
TEST REPORT

Lab No.		070823N-E-020			Page No. 3/3	
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

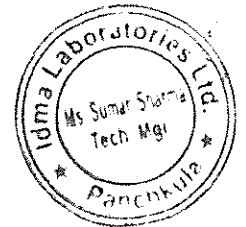
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End of Report



Ms. Sumar Sharma 21/08/23

Authorised signatory



Idma Laboratories Limited

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TEST REPORT

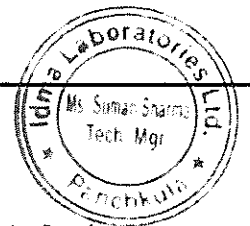
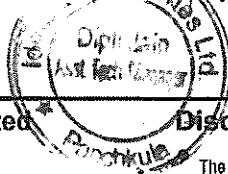
Lab No.	070823N-E-021	Page No.	1/3
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill.Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	141	Dated	23/02/2023
Date of Receipt of Sample	07/08/2023		
Period of Analysis	07/08/2023 To 12/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Wasim Akram
Sampling Location#	Water Tank- Nat		
Visual Observation	N/A		
Date of Sampling	06/08/2023		
Date of Reporting	12/08/2023		
Sampling Protocol	IS:17614(P-1):2021		
Testing Protocol	IS: 10500:2012 Amdt 1 & 2		

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2022
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2022
3	pH	-	7.08	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2022
4	Alkalinity as CaCO3	mg/L	99	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2022
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3125 B 24th Edition, 2022
6	Calcium as Ca	mg/L	20.5	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2022
7	Chloride as Cl	mg/L	17.8	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2022

Reviewed by

Authorised signatory

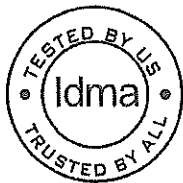


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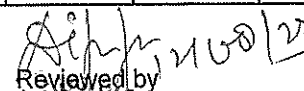

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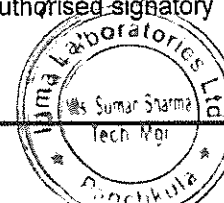


Idma Laboratories Limited

TEST REPORT

Lab No.		070823N-E-021				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit In absence of alternate Source	
8	Magnesium as Mg	mg/L	8.9	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2022
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2022
10	Fluoride as F	mg/L	0.16	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	88	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022
12	Total Dissolved Solids	mg/L	135	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2022
13	Sulphate	mg/L	7.8	Max. 200	Max. 400	APHA 4500 SO ₂ 4E 24th Edition, 2022
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2022
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2022
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2022
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 24th Edition, 2022
18	Potassium	mg/L	1.1	-	-	APHA 3125 B 24th Edition, 2022
19	Sodium	mg/L	7.8	-	-	APHA 3125 B 24th Edition, 2022
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 24th Edition, 2022
21	Iron as Fe	mg/L	0.009	Max. 1.0	No Relaxation	APHA 3125 B 24th Edition, 2022
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3125 B 24th Edition, 2022
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 24th Edition, 2022
24	Zinc as Zn	mg/L	0.013	Max. 5	Max. 15	APHA 3125 B 24th Edition, 2022
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 24th Edition, 2022
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 24th Edition, 2022
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
29	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 24th Edition, 2022

Reviewed by

 Dipti Jain
 Asst. Tech. Officer


Authorised signatory

 Sumar Sharma
 Tech. Mgr.


Idma Laboratories Limited

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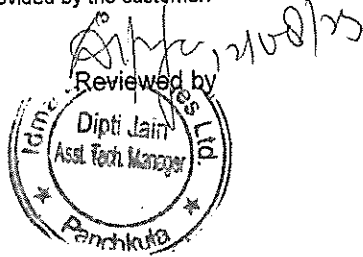
TEST REPORT

Lab No.		070823N-E-021				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Biological Testing (Water)	-	-	-	-	-
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

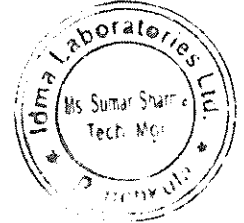
Opinion :

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End of Report



10/12/2023
Authorised signatory

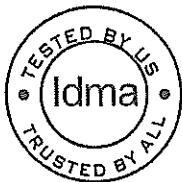


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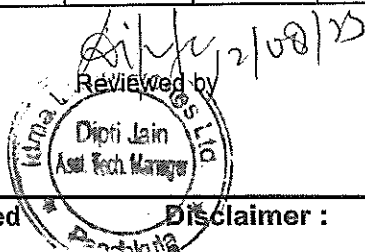
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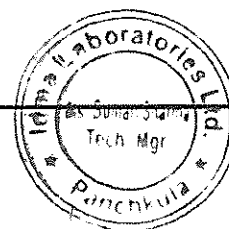
Lab No.	070823N-E-022	Page No. 1/3
Customer#	Patel Engineering Limited Kwar Hydroelectric Project Vill. Padhyarna, Tehsil-Nagseni Dstt. Kishtwar-182204 Jammu & Kashmir	
Type of Sample#	Drinking Water	
Customer's Description of Sample#	Drinking Water	
Quantity#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	141	Dated 23/02/2023
Date of Receipt of Sample	07/08/2023	
Period of Analysis	07/08/2023 To 12/08/2023	
Sampling Team Idma	Idma Representative Team	Client Mr. Wasim Akram
Sampling Location#	Natural Source (Chasma, Labour Mess.	
Visual Observation	N/A	
Date of Sampling	06/08/2023	
Date of Reporting	12/08/2023	
Sampling Protocol	IS:17614(P-1):2021	
Testing Protocol	IS: 10500:2012	

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2022
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2022
3	pH	-	7.61	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2022
4	Alkalinity as CaCO ₃	mg/L	121	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2022
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3125 B 24th Edition, 2022
6	Calcium as Ca	mg/L	23.5	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2022
7	Chloride as Cl	mg/L	18.7	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2022



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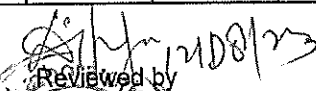
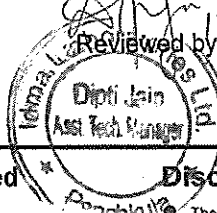
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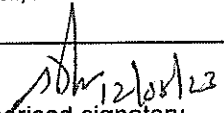


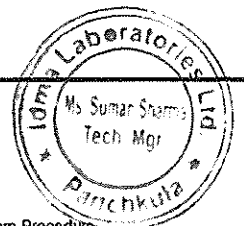
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TEST REPORT

Lab No.		070823N-E-022				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	13.0	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2022
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2022
10	Fluoride as F	mg/L	0.16	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	112	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022
12	Total Dissolved Solids	mg/L	144	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2022
13	Sulphate	mg/L	12.1	Max. 200	Max. 400	APHA 4500 SO ₂ 4E 24th Edition, 2022
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2022
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2022
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2022
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 24th Edition, 2022
18	Potassium	mg/L	1.6	-	-	APHA 3125 B 24th Edition, 2022
19	Sodium	mg/L	9.8	-	-	APHA 3125 B 24th Edition, 2022
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 24th Edition, 2022
21	Iron as Fe	mg/L	0.01	Max. 1.0	No Relaxation	APHA 3125 B 24th Edition, 2022
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3125 B 24th Edition, 2022
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 24th Edition, 2022
24	Zinc as Zn	mg/L	0.009	Max. 5	Max. 15	APHA 3125 B 24th Edition, 2022
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 24th Edition, 2022
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 24th Edition, 2022
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 24th Edition, 2022
29	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 24th Edition, 2022

Reviewed by

Dipti Jain
 Asst. Tech. Manager



 Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
 391, industrial Area, Phase - 1,
 Panchkula - 134113,
 Haryana (India)
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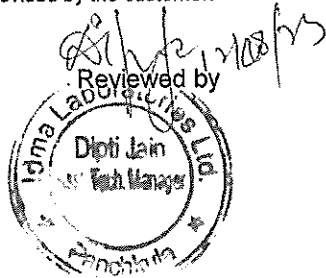
TEST REPORT

Lab No.		070823N-E-022				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Biological Testing (Water)	-	-	-	-	
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

Represents details provided by the customer.

End of Report



Authorised signatory



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