

Chenab Valley Power Projects (P) Ltd
A Joint Venture of NHPC Limited (A Govt of India Enterprise),
JKSPDC (A Govt of J&K Enterprise)

Group General Manager (I/C)
Pakal Dul HE Project,
CVPPPL, Chenab Nagar-II,
Kishtwar, J&K-182206
Ph- 01995-295192
Email-gmpdhep@gmail.com

CIN NO. U40105JK2011PTC003321

CVPP/PDHEP/GGM (I/c)/2023/

Date: 30.11.2023

Regional Officer,
Ministry of Environment, Forests and Climate Change,
Integrated Regional Office (IRO), Jammu
Plot no.379-A, Gandhi Nagar
Jammu (J&K)-180004
E-mail: env.irojk-mefcc@gov.in; paranjay.s@nic.in; iro.jammu-mefcc@gov.in

Sub: Pakal Dul HE Project (1000 MW) in District Kishtwar, J&K – Submission of Environment Clearance Compliance Report (ECCR) for the period from April 2023 to September 2023.

Ref: Environmental Clearance granted to the Project vide letter no. J-12011/51/2007-IA dated 29.02.2008 and transferred in favour of CVPP vide letter no. J-12011/51/2007-IA dated 12.07.2012.

Sir,

We are enclosing herewith Six Monthly Environment Clearance Compliance Report (ECCR) in respect of Pakal Dul HE Project for the period from **April 2023 to September 2023** for your kind information.

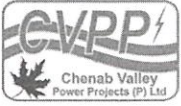
Thanking you and Warm Regards.

Yours Sincerely,

General Manager
Pakal Dul HE Project

Copy 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: yogendra78@nic.in
2. General Manager, Planning Division, CVPPPL, C.O. , Jammu.



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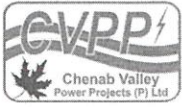
Pakal Dul Hydro Electric Project
Chenab Nagar – II, Kishtwar, (J&K) –182206
CIN NO. U40105JK2011PTC003321

Ph No.01995-260723
Fax No. 01995-260661

ANNEXURE-I

Six Monthly EC Compliance Report of Pakal Dul HE Project (1000 MW)
(April 2023 to September 2023)

1	Name of Project	Pakal Dul HE Project
2	Type of Project	Hydro Electric Project
3	Clearance letters OM No. and date (a) Environment Clearance (b) Forest Clearance	<p>(a) Letter no. J-12011/51/2007-IA dated 29.02.2008 and transferred in favour of CVPPPL vide letter no. J-12011/51/2007-IA-I dated 12.07.2012.</p> <p>(b) Government order no. 334- FST of 2015 dated 15.12.2015 of GoJK for 146.6613 Ha land on Right Bank of river Marsudar.</p> <p>Government order no. 289-FST 2016 dated 29.11.2016 of GoJK with Corrigendum dated 26.12.2016 for 195.9619 Ha of Forest land (188.7619 ha of former KHANP land and 7.2 ha of Forest land) on Left Bank of river Marsudar.</p> <p>Government sanction for diversion of 12.125 ha of Forest land on left bank of river Marsudar stands accorded vide Govt. order no 207-FST of 2018 dated 26.06.2018.</p> <p>Government sanction for felling of trees coming under already diverted forest land at left bank of river Marsudar stands accorded vide Govt. order no 225-FST of 2018 dated 17.07.2018.</p> <p>Government sanction for felling of trees coming under already diverted forest land at right bank of river Marsudar stands accorded vide Order No. 531-(JK) FST of 2019 dated 12.12.2019.</p> <p>Government sanction for diversion of 0.6434 ha of Forest land at left bank of river Marsudar stands</p>

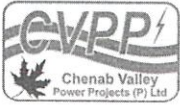


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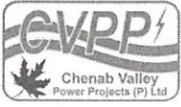
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		accorded vide Government order no. 17(JK)FST of 2020 dated 30.01.2020.																										
4	Locations (a) District (s) (b) State/UT (c) Latitude (d) Longitude	(a) Kishtwar (b) Jammu and Kashmir (c) 33°27'30"N (d) 75°48'50"E																										
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) Group General Manger (I/c), Pakal Dul HE Project, CVPPP Ltd., Chenab Nagar-II, Kishtwar, J&K. Pin code- 182206 Telephone: - 01995-260723 Email:gmpdhep@gmail.com (b) Managing Director, Chenab Valley Power Projects (P) Ltd, Chenab Jal Shakti Bhawan, Opposite Saraswati Dham, Rail Head Complex, Panama Chowk, Jammu- 180012, J&K Phone/Fax: 0191 2475516/ 2479835																										
6	Detail of Environmental Management Plan	Environmental Management Plans to be implemented at the Project are: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S. No.</th> <th>EMP</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Biodiversity Conservation Plan</td></tr> <tr><td>2.</td><td>Catchment Area Treatment</td></tr> <tr><td>3.</td><td>Fisheries Development</td></tr> <tr><td>4.</td><td>Public Health Delivery System1</td></tr> <tr><td>5.</td><td>Solid Waste Management</td></tr> <tr><td>6</td><td>Provision for fuelwood/ LPG depot & Energy Conservation Measures</td></tr> <tr><td>7.</td><td>Relocation & Rehabilitation of Dumping sites</td></tr> <tr><td>8.</td><td>Landscaping & restoration of construction areas</td></tr> <tr><td>9.</td><td>Creation of Green Belt around reservoir</td></tr> <tr><td>10.</td><td>Disaster Management Plan</td></tr> <tr><td>11.</td><td>Resettlement & Rehabilitation Plan</td></tr> <tr><td>12</td><td>Environmental Monitoring Programme</td></tr> </tbody> </table>	S. No.	EMP	1.	Biodiversity Conservation Plan	2.	Catchment Area Treatment	3.	Fisheries Development	4.	Public Health Delivery System1	5.	Solid Waste Management	6	Provision for fuelwood/ LPG depot & Energy Conservation Measures	7.	Relocation & Rehabilitation of Dumping sites	8.	Landscaping & restoration of construction areas	9.	Creation of Green Belt around reservoir	10.	Disaster Management Plan	11.	Resettlement & Rehabilitation Plan	12	Environmental Monitoring Programme
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7.	Breakup for Project area (Land details)	Forest Land: 355.3916 ha Private/ Revenue Land: 177.8175 ha Total Land: 533.2091 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: - 6 Displaced PAFs: - 110 Non displaced PAFs: - 656 Total PAFs: - 766 (a) Scheduled Tribe:- 2																								
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	(a) Project cost: 5088.88 Cr (July 2005 PL) CCEA approved: 8112.12 Cr (March 2013 PL) (b) Actual expenditure: Rs.3360.77 Crs (till Sep- 2023) (c) Allocations for EMP (at 2013 PL): 330.32 Crs. (d) Actual expenditure incurred on EMP: Expenditure incurred by CVPPPL on EMP and other related activities as on date: <table border="1" data-bbox="790 1317 1412 1870"> <thead> <tr> <th>S.No</th> <th>Component</th> <th>Expenditure (Rs. in Cr)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Forest and wild life Land Diversion</td> <td>207.649</td> </tr> <tr> <td>2</td> <td>Fund for Wildlife Management including corpus fund</td> <td>236.0</td> </tr> <tr> <td>3.</td> <td>Fisheries Development Plan</td> <td>3.89</td> </tr> <tr> <td>4.</td> <td>Biodiversity Management Plan</td> <td>2.30</td> </tr> <tr> <td>5.</td> <td>Implementation of R&R plan</td> <td>74.09</td> </tr> <tr> <td>6.</td> <td>Disaster Management Plan/Early Warning System</td> <td>0.38</td> </tr> <tr> <td></td> <td>Total</td> <td>524.309</td> </tr> </tbody> </table>	S.No	Component	Expenditure (Rs. in Cr)	1.	Forest and wild life Land Diversion	207.649	2	Fund for Wildlife Management including corpus fund	236.0	3.	Fisheries Development Plan	3.89	4.	Biodiversity Management Plan	2.30	5.	Implementation of R&R plan	74.09	6.	Disaster Management Plan/Early Warning System	0.38		Total	524.309
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10	Forest Land Requirements																									

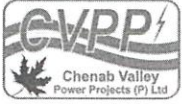


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<p>(a) Status of approval diversion of Forest Land for non-forestry use</p>	<p>(a) Forest clearance for diversion of 146.66 Ha forest land on right bank of dam/reservoir has been accorded by GoJK on 15.12.2015. Requisite amount of Rs 17.81 Cr deposited with J&K State Forest department on 15.09.2015. Forest Clearance for diversion of 188.76 Ha forest land (earlier KHANP land) on left bank of dam/ reservoir along with 7.2 Ha of Forest Land for underground works in Dul area has been accorded by GoJK on dated 29.11.2016. Requisite amount of Rs 178.2055 Cr deposited with J&K State Forest department on 18.06.2016 and the amount of Rs. 236 Crs towards wildlife management was deposited on 19.09.2016.</p> <p>Government sanction order for additional 12.125 ha of Forest land at left bank of river Marsudar stands accorded vide Govt. order no 207-FST of 2018 dated 26.06.2018. Requisite amount of Rs 6.3083663 Cr deposited with J&K State Forest department on 15.05.2018.</p> <p>Government sanction order for felling of trees coming under already diverted forest land at left bank of river Marsudar stands accorded vide Govt. order no 225-FST of 2018 dated 17.07.2018. Requisite amount of Rs 7613899/- deposited with J&K State Forest department on 15.05.2018.</p> <p>Government sanction order for felling of trees coming under already diverted forest land at right bank of river Marsudar stands accorded vide Govt. Order No. 531-(JK)FST of 2019 dated 12.12.2019. Requisite amount of Rs. 1490391/- deposited with J&K State Forest department.</p> <p>Government sanction order for diversion of 0.6434 ha of Forest land at left bank of river Marsudar stands accorded vide Government order no. 17(JK)FST of 2020 dated 30.01.2020. requisite</p>
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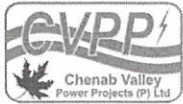


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	(b) The status of clear felling of trees in Forest Land	<p>amount of Rs. 505310/- deposited with J&K State Forest department.</p> <p>(b) Clear felling status: The requisite amount of Rs 4.31413 Cr towards cost for extraction of trees has been deposited with J&K State Forest Corporation. The work of tree felling and extraction is in progress.</p>
11	Status of Construction (a) Date of commencement (actual and/or planned) (b) Date of completion (actual and/or planned)	<p>(a) Date of commencement (actual): Out of the Major project works, the Power House package was the first to be awarded on 21.02.2018.</p> <p>(b) Date of completion (planned): 66 months from the start of major works.</p>
12.	Reasons for the delay (If the Project is yet to be started)	N.A.
13	Details of Site visits (a) By Monitoring Committee (b) By Regional Office	<p>Nil</p> <p>Nil</p>
14.	Brief note on the status of compliance of the conditions stipulated by MOEF&CC	Details are enclosed as Annexure-II.



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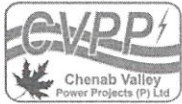
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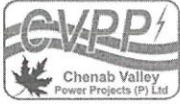
ANNEXURE-II

Status of Compliance to conditions stipulated by MOEF&CC, Govt. of India vide Environmental Clearance letter dated 29.02.2008

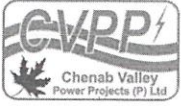
S.No.	Specific Conditions	Compliance Status
i	Catchment area treatment Plan as proposed should be completed in Five years	<p>The cost provision for CAT Plan as approved by MoEF&CC was Rs. 21.33 Crs which was revised in CCEA approval (Investment Approval by Gol) to Rs. 36.38 Crs.</p> <p>The plan is to be implemented by Soil & Water Conservation Department, GoJK. Soil & Water Conservation Department, GoJK was requested by Project to take up the implementation of Catchment Area Treatment works. Accordingly, the CAT Plan was revised by Soil & Water Conservation Department as per prevailing site conditions and was technically sanctioned by J&K Forest Department with a revised cost of Rs. 46.86 Crs. The Project has also conveyed confirmation to Soil and Water Conservation Department, GoJK regarding availability of Rs. 46.86 Cr for implementation of the CAT Plan.</p> <p>However, Administrative Approval of CAT plan is yet to be accorded by GoJK to start CAT works. CVPPL, vide CVPPL/MD/2023/646 dated 15.09.2023 has again requested Forest Department, GoJK and Soil and Water conservation Department, GoJK to expedite the process of accord of Administrative Approval for early implementation of the CAT plan.</p>
ii	During the construction of the project, if any person/family whose acquired land is more than 70% of the total land holding is identified, such family/person shall be treated as fully affected families. R&R package proposed for the displaced families shall be extended to such families. NRRP-2007 package will be followed for R&R of PAFs.	<p>The RR Plan of Pakal Dul HEP has been approved by GoJK vide Government Orders no. 12-DMRR&R of 2017 dated 22.02.2017 and 11-DMRR&R of 2019 dated 07.03.2019. The approved R&R Plan is under implementation.</p> <p>The formulation, approval and implementation of R&R plan comes under the purview of State/UT Government which has adopted a uniform approach in providing the R&R benefits for the PAFs of different HE projects in J&K. The recommendations of MOEF&CC for considering non-displaced PAFs with more than 70% of total land holdings as displaced PAFs has not been approved by the State Government for any of the HE Project so far. Hence this provision has not been considered by Government of J&K in formulation and approval of R&R plan for Pakal Dul HE project.</p>



iii	A Monitoring Committee for R&R should be constituted which must include representatives of project affected persons from SC/ST category and a woman beneficiary.	DC Kishtwar has been appointed as Commissioner, Rehabilitation and Resettlement for Pakal Dul HE Project vide Govt. Order No. 19-DMRR&R of 2017 dated 16.03.2017. Constitution of R&R committee is awaited. Monitoring committee is to be constituted by Government under the Chairmanship of Commissioner R&R. the matter was discussed in the meeting of Empowered Committee held on 06.04.2018 under the Chairmanship of Chief Secretary, GoJK wherein the Committee has recommended the constitution of R&R committee. The formal Government order in this regard is awaited. Moreover, Commissioner R&R (D.C. Kishtwar) has again been requested by the Project for constituting the said committee vide no CVPP/PDHEP/GM(I/C)/2022/2036 dated 03.12.2022.
iv	The commitment made during the public hearing should be fulfilled.	Being complied.
v	All the equipment which are likely to generate high noise levels are to be fully equipped (noise reduction measures) to meet the ambient noise control standards	Being complied. All such Machinery are well equipped to control noise pollution and regular maintenance is carried out in order to reduce noise pollution. Moreover, regular ambient noise level monitoring is carried out at construction sites. Monitoring reports are enclosed for reference as ANNEXURE-III .
vi	Consolidation and compilation of the muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan for 70.85 lakh cum of muck disposal i.e. about 34 lakh cum is proposed to be utilized during construction and the remaining 36.86 lakh cum of muck disposal at two designated areas (DS1-powerhouse site- 14.37 lakh cum; DS2- dam site-22.48 lakh cum) should be strictly implemented.	Being complied. Out of the excavated muck, useable muck is utilised to a maximum extent at Project and the rest of muck is disposed at designated muck disposal sites only.
vii	The fisheries management plan as proposed in the letter dated 15.01.2008 should be implemented in totality. The total budget of Rs.339.24 lakhs for the fishery development and conservation in the Marsudar river basin should not be diverted for any other purpose.	Being complied. The revised Fisheries Development Plan amounting to Rs. 389.10 lakh has been approved by Fisheries Department GoJK and the same amount has been deposited by Project with Fisheries Department GoJK for implementation of Plan. The Fisheries Department till now have utilized an



		amount of Rs. 196.0 Lakhs for implementation of the works under this plan.
viii	The following conditions imposed by the Standing Committee of National Board for Wildlife (NBWL) while recommending the proposal for de-notification of KHANP area, shall be strictly complied:	
	(a) Provisions proposed for the habitat improvement in the Mitigation Plan should be discussed with Wildlife Institute(WII), Dehradun and be modified accordingly.	Complied Mitigation Plan has been prepared/ modified by J&K Wildlife Department in consultation with Wildlife Institute of India, Dehradun.
	(b) State Wildlife Department may redefine the core area of the National Park considering the human population pressure etc.	The core area of the KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK.
	(c) NHPC would provide a total of Rs.236 Crs including Rs.100 Crs. for the corpus fund for the protected area for the conservation of the wildlife.	Final forest clearance for 195.9619 Ha land (i.e. 188.7619 ha of KHANP land and 7.2 ha of forest land) has been obtained vide Govt. Order no. 289-FST 2016 dated 29.11.2016 of GoJK for which Project has deposited Rs 414.20 Crs to Forest Dept. which includes Rs.236 Crs which further includes Rs.100 Crs for the corpus fund for the protected area for conservation of wildlife. The wildlife Mitigation plan is under implementation and is being implemented by Wildlife Department, GoJK. and Rs. 5.86 Cr has been utilized for the same till 31.03.2023 by the J&K Wildlife Department.
ix	No construction work/activity should be initiated till Supreme Court grants de-reservation of National Park area.	Complied vide SRO no. 212 dated 06.07.2015 of GoJK issued after grant of approval by Honorable Supreme Court.
x	Clear felling of trees should be restricted to 4 m below the FRL and a 50 m greenbelt should be created around the reservoir periphery.	Being complied. The tree cutting along the FRL is being done only in the area required for the project construction works. The process for creation of greenbelt shall be initiated at the appropriate time.
General Conditions		

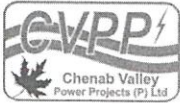


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i	Adequate free fuel arrangement should be made for the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.	Being complied. Free fuel arrangements have been made by the respective contractors for their labour force engaged for Power House Works, HRT-TBM Works and Dam Works, at their own cost.
ii	Fuel depot's maybe opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as drinking water & recreational facilities should also be provided to the laborers.	Being complied. Free fuel arrangements for labourers have been made by the contractors. Adequate drinking water and sanitation facilities have been provided by the respective contractors at residential areas of their labour force. Details of medical facilities established by major works contractors for their laborers and locals, at their own cost, are as under: 1. Dam Package (by M/s Jaiprakash Associates Limited): One medical unit with one bed, one Oxygen cylinder, accessories of dispensary, storage for the medicines, stretchers, wheel chairs, one light vehicle and one Ambulance at Dam site is in operation and managed by one Doctor and four no. of Medical Assistants. 2. Power House Package (by M/s Afcons - JAL Joint Venture): Three no. of first aid centres with two fully equipped Ambulances at Power House Site of the Project are being managed by the 01 doctor and 08 no. of para medics. The necessary medicines are also made available to nearby local villagers. 3.HRT-TBM Package (by M/s L&T Limited) One first aid centre at Site is managed by 02 no. of para medics. The necessary medicines are also made available to nearby local villagers.

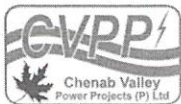


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iii	All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.	Being complied.
iv	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Shall be complied. After completion of dumping and quarrying operations, the remediation, rejuvenation and landscaping of these sites shall be carried out by applying proper Engineering and Biological measures.
v	The total amount of Rs. 9979.29 lakhs kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose.	Being complied.
vi	A Multidisciplinary committee in consultation with the Ministry should be constituted with Ecologists, Environmental Scientists, Conservationists and experienced administrators etc. to oversee the effective implementation of the suggested safeguard measures.	Approval for Constitution of Multidisciplinary committee (MDC) for Pakal Dul HEP was accorded by MoEF&CC vide no: J-12011/51/2007-IA-I(Part) dated 10.07.2018 with amendments issued vide No. J-12011/51/2007-IA-I(R) dated 02.05. 2019. & F. No.J-12011/51/2007-IA (R) Dated 11.03.2020
vii	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.	Being complied. Six monthly Environment Clearance Compliance Reports are being timely submitted to the Ministry and its Regional Office, Chandigarh/Jammu. The Air, Water and Noise quality monitoring reports are also enclosed as annexure-III .
Other Conditions mentioned in the EC Letter:		
4.	Officials from Regional Office MoEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.	Shall be complied
5.	The responsibility of implementation of environmental safeguards rests fully with the NHPC Ltd. and Government of J&K.	Noted
6.	In case of change in the scope of the project, project would require a fresh appraisal.	There is no change in the scope of the project. Shall be complied, if required.



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7.	The project involves 386.186 ha of forest land falling under KHANP. This clearance is subject to Hon'ble Supreme Court's permission with respect to de-reservation of part of KHANP.	Complied. The core area of KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK in pursuance to the approval of Hon'ble Supreme Court.
8.	The 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 safeguard measures in a time-bound and satisfactory Manner.	Noted.
9.	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	Complied.
10.	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	Complied.
12.	The project proponent should advertise within 7 days at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envfor.nic.in .	Complied. The requisite advertisement was published in Dainik Jagran (Hindi) and Daily Uzma (Urdu) newspapers dated 07.03.2008.

**ENVIRONMENT
MONITORING/TEST
REPORTS**

ANNEXURE-III



Idma Laboratories Limited



TEST REPORT

Lab No.	150623L-ED-005/A	Page No. 1/2
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir	
Type of Sample#	Ambient Air	
Customer's Description of Sample#	Ambient Air	
Quantity#	1 No	
Packing, Markings#	Filter Paper Packed in Polythene Pouch	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated 01/04/2023
Date of Receipt of Sample	15/06/2023	
Period of Analysis	15/06/2023 To 20/06/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer Ji
Sampling Location#	Batching Plant	
Visual Observation	N/A	
Date of Sampling	12/06/2023	
Date of Reporting	20/06/2023	
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	PM 10	µg/m ³	84.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	41.7	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	13.2	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	16.9	Max. 80	IS 5182 (Part 6)
5	NH ₃	µg/m ³	18.4	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m ³	21	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a

Reviewed by
20/6/23
Idma Laboratories Limited
Panchkula
Authorized Signatory

Authorized signatory
20/06/2023
Idma Laboratories Limited
Panchkula
Authorized 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.		150623L-ED-005/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

End of Report

AD
20/6/23

Reviewed by



Kant
20/06/23
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

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Idma Laboratories Limited

TEST REPORT

Lab No.	150623L-ED-005/B	Page No.	1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	1 No		
Packing, Markings#	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	Batching Plant		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m ³	0.31	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	<2	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)

Represents details provided by the customer.

End of Report

Red
20/6/23



Reviewed by



Authorised signatory

Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)
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Idma Laboratories Limited



TEST REPORT

Lab No.	150623L-ED-008/A		Page No.	1/2
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023	
Date of Receipt of Sample	15/06/2023			
Period of Analysis	15/06/2023 To 20/06/2023			
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji	
Sampling Location#	Cut off Well Area			
Visual Observation	N/A			
Date of Sampling	12/06/2023			
Date of Reporting	20/06/2023			
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	PM 10	µg/m ³	72.8	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	33.3	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	12.7	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	15.8	Max. 80	IS 5182 (Part 6)
5	NH ₃	µg/m ³	17	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m ³	20	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a

Reviewed by
20/06/23
Idma Laboratories Limited
Panchkula
Authorised Signatory

Authorised signatory
20/06/23
Idma Laboratories Limited
Panchkula

Idma Laboratories Limited

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



TEST REPORT

Lab No.		150623L-ED-006/A			Page No. 2/2	
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

End of Report

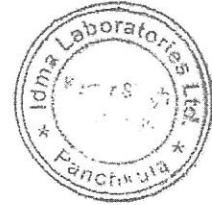
AA
20/6/23

Reviewed by



1/20/23
20/6/23

Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

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Idma Laboratories Limited

TEST REPORT

Lab No.	150623L-ED-006/B	Page No.	1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	1 No		
Packing, Markings#	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	Cut off Well Area		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m ³	0.28	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	<2	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)

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

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	150623L-ED-007/A		Page No. 1/2	
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023	
Date of Receipt of Sample	15/06/2023			
Period of Analysis	15/06/2023 To 20/06/2023			
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji	
Sampling Location#	Adit HRT			
Visual Observation	N/A			
Date of Sampling	12/06/2023			
Date of Reporting	20/06/2023			
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	PM 10	µg/m ³	75.2	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	36.7	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	12.9	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	16.0	Max. 80	IS 5182 (Part 6)
5	NH ₃	µg/m ³	18.2	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m ³	20	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a

Reviewed by
20/6/23

Authorised signatory
Kata
20/06/23

Idma Laboratories Limited

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



TEST REPORT

Lab No.		150623L-ED-007/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

End of Report

Revd
20/06/20
Reviewed by

Karla
20/06/20
Authorised signatory

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

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Idma Laboratories Limited

TEST REPORT

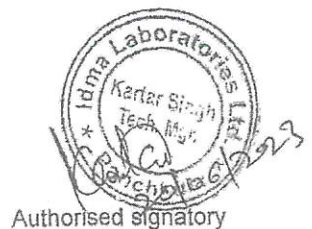
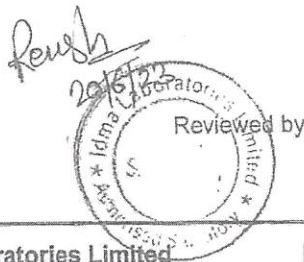
Lab No.	150623L-ED-007/B	Page No.	1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	1 No		
Packing, Markings#	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	Adit HRT		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m ³	0.29	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	<2	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)

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.	150623L-ED-008	Page No.	1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K - 182204 Jammu & Kashmir		
Type of Sample#	Noise Level (Ambient)		
Customer's Description of Sample#	Noise Level (Ambient)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	Batching Plant		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

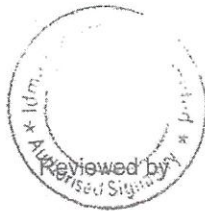
RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	69.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	53.7	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Recd
20/6/23



Kartar
20/06/2023
Authorised signatory
Idma Laboratories Ltd
Kartar Singh
Tech. M.

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

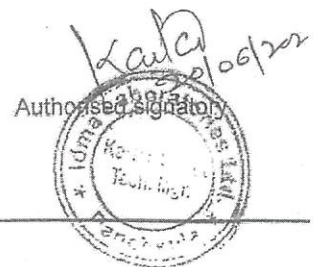
Lab No.	150623L-ED-009	Page No.	1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K - 182204 Jammu & Kashmir		
Type of Sample#	Noise Level (Ambient)		
Customer's Description of Sample#	Noise Level (Ambient)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	Cut off Wall Area		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	62.4	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	45.9	Max 70	CPCB PROTOCOL July 2015.

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End of Report



Idma Laboratories Limited

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TEST REPORT

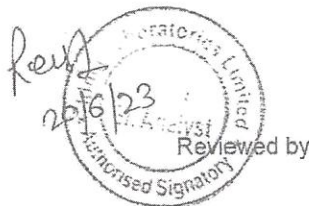
Lab No.	150623L-ED-010	Page No. 1/1	
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir		
Type of Sample#	Noise Level (Ambient)		
Customer's Description of Sample#	Noise Level (Ambient)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	Adit HRT		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

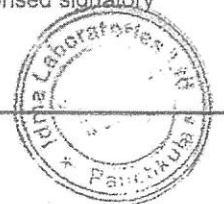
S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	68.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	49.7	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report



Authorised signatory [Signature] 20/06/2023



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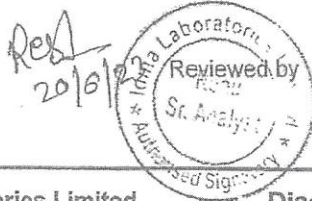


TEST REPORT

Lab No.	150623L-ED-011	Page No.	1/2
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -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.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	Batching Plant		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.43	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	62.7	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand	mg/L	14	Max. 30	IS 3025 (Part 44) BOD 3-days at 27 °C
4	Oil & Grease	mg/L	3.1	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	268	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	54	Max. 100	IS 3025 (Part 17)
	Biological Testing (Environmental & Pollution)	-	-	-	-



Handwritten signature 'Kalyan' and date '20/6/23' above the text 'Authorised signatory'.



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.		150623L-ED-011				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Faecal Coliforms	MPN/100ml	70	-	IS 1622:1981	

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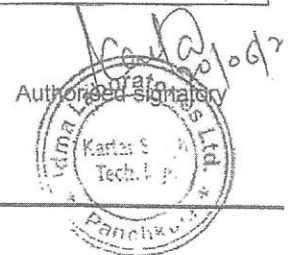
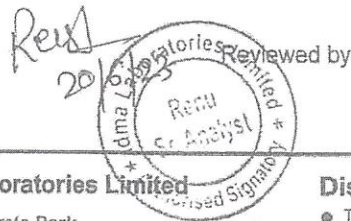


TEST REPORT

Lab No.	150623L-ED-012	Page No.	1/2
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -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.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	Crusher Plant		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.28	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	70.6	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand	mg/L	14	Max. 30	IS 3025 (Part 44) BOD 3-days at 27 °C
4	Oil & Grease	mg/L	3.4	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	279	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	31	Max. 100	IS 3025 (Part 17)
	Biological Testing (Environmental & Pollution)	-	-	-	-



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TEST REPORT

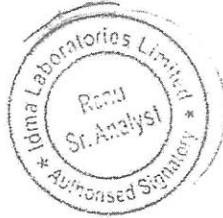
Lab No.		150623L-ED-012				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	F.coliform	MPN/100ml	50	-	IS 1622:1981	

Represents details provided by the customer.

End of Report

RS
29/6/23

Reviewed by



Kaitha
29/06/23
Authorised signatory



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Idma Laboratories Limited



TEST REPORT

Lab No.	150623L-ED-013	Page No.	1/2
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -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.#	JAL/PAKAL/2022/WO/04	Dated	01/04/2023
Date of Receipt of Sample	15/06/2023		
Period of Analysis	15/06/2023 To 20/06/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr Tanveer Ji
Sampling Location#	UP Stream (Madhusudar River)		
Visual Observation	N/A		
Date of Sampling	12/06/2023		
Date of Reporting	20/06/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	2	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.46	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO ₃	mg/L	114	APHA 2320 B 23rd Edition, 2017
5	Chloride as Cl	mg/L	21.5	APHA 4500Cl- B 23rd Edition, 2017
6	Conductivity	uS/cm	279	USEPA Method 120.1
7	Dissolved Oxygen (DO)	mg/L	7.1	CPCB Guide Manual:Water & waste water Analysis
8	Hardness Total (as CaCO ₃)	mg/L	82	APHA 2340C 23rd Edition, 2017
9	Oil & Grease	mg/L	<2.5	APHA 5500 B 23rd Edition, 2017

Reviewed by

Authorised Signatory

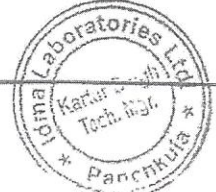
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TC-8207

TEST REPORT

Lab No.		150623L-ED-013			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method	
10	Total Dissolved Solids	mg/L	176	APHA 2540 C 23rd Edition, 2017	
11	Total suspended Solids	mg/L	<10	APHA 2540 D 23rd Edition, 2017	
12	Sulphate as SO4	mg/L	8.8	APHA 4500-SO ₄ -4 E 23rd Edition, 2017	
13	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<1	CPCB Guide Manual:Water & waste water Analysis	
14	Chemical Oxygen Demand	mg/L	<4	CPCB Guide Manual:Water & waste water Analysis	
Biological Testing(Environmental & Pollution)		-	-	-	
15	F.coliform	MPN/100ml	90	IS 1622:1981	

Opinion :

Represents details provided by the customer.

End of Report

Reviewed by
Ref 20/06/20

Authorised signatory
Pankaj 20/06/20

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	150623L-ED-014			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method
10	Total Dissolved Solids	mg/L	183	APHA 2540 C 23rd Edition, 2017
11	Total Suspended Solids	mg/L	<10	APHA 2540 D 23rd Edition, 2017
12	Sulphate as SO ₄	mg/L	9.8	APHA 4500-SO ₄ -4 E 23rd Edition, 2017
	Biological Testing(Environmental & Pollution)	-	-	-
13	Faecal Coliforms	MPN/100ml	80	IS 1622:1981
14	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<1	CPCB Guide Manual:Water & waste water Analysis
15	Chemical Oxygen Demand	mg/L	<4	CPCB Guide Manual:Water & waste water Analysis

Opinion :

Represents details provided by the customer.

End of Report

Reed
20/6/23

Reviewed by



Katka
20/06/2023

Authorised signatory



Qsm. Gajr.

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TEST REPORT

Lab No.	120623N-E-009	Page No. 1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Ambient Air	
Customer's Description of Sample#	Ambient Air	
Quantity#	1 No	
Packing, Markings#	Filter Paper Packed in Polythene Pouch	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	EL176WOD10000	Dated 16/07/2021
Date of Receipt of Sample	12/06/2023	
Period of Analysis	12/06/2023 To 16/06/2023	
Sampling Team	Idma Representative Team	Client Mr. Kaustubh Ji
Sampling Location#	Crusher Plant Forest Land	
Visual Observation	N/A	
Date of Sampling	10/06/2023	
Date of Reporting	16/06/2023	
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	81.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	18.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	22.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	29.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	37.3	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.61	Max. 2	NAAQMS/36/2012-13

Recd
16/6/23



16/07/2021
Authorised signatory
Kaustubh Ji

Idma Laboratories Limited

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TEST REPORT

Lab No.	120623N-E-009				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	23	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	$\mu\text{g}/\text{m}^3$	0.12	Max. 1	NAAQMS/36/2012-13

Represents details provided by the customer.

End of Report

RA
16/6/23



Kaatar
16/6/23
Authorised signatory
Kaatar Singh

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.	120623N-E-010	Page No.	1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	1 No		
Packing, Markings#	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Batching Plant CP60 Forest Land		
Visual Observation	N/A		
Date of Sampling	10/06/2023		
Date of Reporting	16/06/2023		
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	78.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO ₂	µg/m ³	19.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO ₂	µg/m ³	24.7	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH ₃	µg/m ³	28.1	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM _{2.5}	µg/m ³	36.9	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.59	Max. 2	NAAQMS/36/2012-13

16/6/23



Reviewed by

16/06/2023
Authorised signatory
Kaustubh Singh

Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase - 1,
Panchkula - 134113,
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Idma Laboratories Limited

TEST REPORT

Lab No.	120623N-E-010				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	22	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	$\mu\text{g}/\text{m}^3$	0.11	Max. 1	NAAQMS/36/2012-13

Represents details provided by the customer.

End of Report

Reviewed by

Authorised signatory

Idma Laboratories Limited

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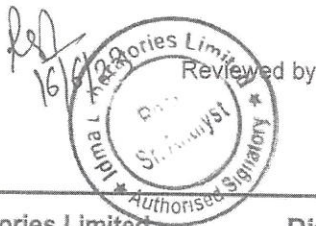
Idma Laboratories Limited

TEST REPORT

Lab No.	120623N-E-011	Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	1 No		
Packing, Markings#	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	CP30 Land No.3		
Visual Observation	N/A		
Date of Sampling	10/06/2023		
Date of Reporting	16/06/2023		
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	83.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO ₂	µg/m ³	19.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO ₂	µg/m ³	22.1	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH ₃	µg/m ³	29.6	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM _{2.5}	µg/m ³	38.4	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.63	Max. 2	NAAQMS/36/2012-13



Kartan Singh
Authorised signatory
Kartan Singh

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	120623N-E-011				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	23	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	2.2	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

Represents details provided by the customer.

End of Report

Reviewed by
16/06/23

16/06/23
Authorised signatory
Kastor Singh

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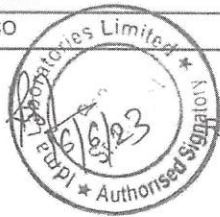
Idma Laboratories Limited

TEST REPORT

Lab No.	120623N-E-012	Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakai Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	1 No		
Packing, Markings#	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Portal		
Visual Observation	N/A		
Date of Sampling	10/06/2023		
Date of Reporting	16/06/2023		
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	82.3	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	20.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	25.1	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	28.8	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	37.1	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.63	Max. 2	NAAQMS/36/2012-13



Reviewed by

Authorised signatory
Kaustubh Ji
16/06/2023

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	120623N-E-012				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	23	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	2.2	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	$\mu\text{g}/\text{m}^3$	0.13	Max. 1	NAAQMS/36/2012-13

Represents details provided by the customer.

End of Report

RM
16/6/23

Reviewed by



Kaestay
16/06/23
Authorised signatory
Kaestay

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Idma Laboratories Limited

TEST REPORT

Lab No.	050423N-E-007		Page No.	1/2
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir			
Type of Sample	Ambient Air			
Customer's Description of Sample	Ambient Air			
Quantity	1 No.			
Packing, Markings	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	EL176WOD1000061	Dated	16/04/2021	
Date of Receipt of Sample	05/04/2023			
Period of Analysis	05/04/2023 To 11/04/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh	
Sampling Location	Crusher Plant Forest Land			
Visual Observation	N/A			
Date of Sampling	02/04/2023			
Date of Reporting	11/04/2023			
Sampling Protocol	NAAQMS/36/2012 13 USEPA.2013			
Testing Protocol	NAAQS			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)				
1	PM10	µg/m ³	78.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	21.3	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	24.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	27.5	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	36.1	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.55	Max. 2	NAAQMS/36/2012-13

Test found ok.
[Signature]
Kaushtubh M.



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Idma Laboratories Limited

TEST REPORT

Lab No.		050423N-E-007				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	22	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	$\mu\text{g}/\text{m}^3$	0.11	Max. 1	NAAQMS/36/2012-13	

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	050423N-E-008		Page No. 1/2
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No.		
Packing, Markings	Filter Paper Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	EL176WOD1000061	Dated	16/07/2021
Date of Receipt of Sample	05/04/2023		
Period of Analysis	05/04/2023 To 11/04/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh
Sampling Location	Batching Plant CP60 Forest Land		
Visual Observation	N/A		
Date of Sampling	02/04/2023		
Date of Reporting	11/04/2023		
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)				
1	PM10	µg/m ³	79.4	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	20.6	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	24.5	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	27.3	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	37.4	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.52	Max. 2	NAAQMS/36/2012-13



Idma Laboratories Limited

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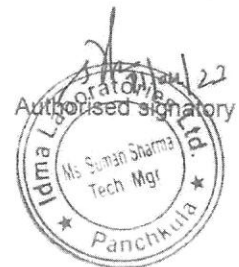
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TEST REPORT

Lab No.		050423N-E-008			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	23	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	$\mu\text{g}/\text{m}^3$	0.13	Max. 1	NAAQMS/36/2012-13

Test found ok.
[Signature]

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	050423N-E-009		Page No.	1/2	
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir				
Type of Sample	Ambient Air				
Customer's Description of Sample	Ambient Air				
Quantity	1 No.				
Packing, Markings	Filter Paper Packed in polythene Pouch.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	EL176WOD1000061	Dated	16/04/2021		
Date of Receipt of Sample	05/04/2023				
Period of Analysis	05/04/2023 To 11/04/2023				
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh		
Sampling Location	CP 30 Land No. 3				
Visual Observation	N/A				
Date of Sampling	02/04/2023				
Date of Reporting	11/04/2023				
Sampling Protocol	NAAQMS/36/2012 13 USEPA.2013				
Testing Protocol	NAAQS				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m ³	76.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	19.6	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	22.1	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	28.6	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	36.2	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.54	Max. 2	NAAQMS/36/2012-13



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TEST REPORT

Lab No.		050423N-E-009			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	23	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	2.2	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

Test found ok.
[Signature]

End of Report



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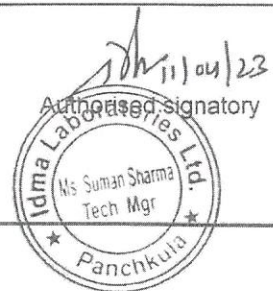
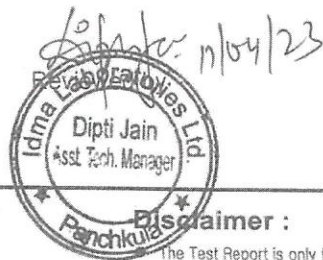
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TEST REPORT

Lab No.	050423N-E-010		Page No. 1/2	
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir			
Type of Sample	Ambient Air			
Customer's Description of Sample	Ambient Air			
Quantity	1 No.			
Packing, Markings	Filter Paper Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	EL176WOD1000061	Dated	16/04/2021	
Date of Receipt of Sample	05/04/2023			
Period of Analysis	05/04/2023 To 11/04/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh	
Sampling Location	Portal			
Visual Observation	N/A			
Date of Sampling	02/04/2023			
Date of Reporting	11/04/2023			
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013			
Testing Protocol	NAAQS			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)				
1	PM10	µg/m ³	79.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO ₂	µg/m ³	20.3	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO ₂	µg/m ³	18.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH ₃	µg/m ³	28.8	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM _{2.5}	µg/m ³	37.9	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.61	Max. 2	NAAQMS/36/2012-13



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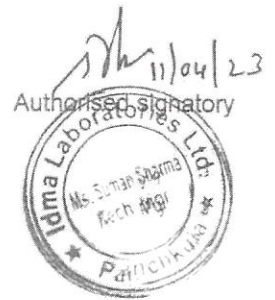
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TEST REPORT

Lab No.		050423N-E-010				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	23	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	$\mu\text{g}/\text{m}^3$	0.12	Max. 1	NAAQMS/36/2012-13	

Test found ok.
[Signature]

End of Report



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TEST REPORT

Lab No.	120623N-E-006	Page No. 1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir	
Type of Sample#	Drinking Water	
Customer's Description of Sample#	Drinking Water	
Quantity#	5 Ltr	
Packing, Markings, Seal & Quantity#	Plastic Can	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	EL176WOD10000	Dated 16/07/2021
Date of Receipt of Sample	12/06/2023	
Period of Analysis	12/06/2023 To 16/06/2023	
Sampling Team Idma	Idma Representative Team	Client Mr. Kaustubh Ji
Sampling Location#	Land No. 11 Mess	
Visual Observation	N/A	
Date of Sampling	11/06/2023	
Date of Reporting	16/06/2023	
Sampling Protocol	IS:17614 (PART-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	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<5	Max 5	Max 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.29	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO3	mg/L	139	Max. 200	Max. 600	APHA 2320 B 23rd Edition, 2017
5	Boron	mg/L	0.041	Max. 0.5	Max. 2.4	APHA 3125 B 23rd Edition, 2017
6	Calcium as Ca	mg/L	29.5	Max. 75	Max. 200	APHA 3500-Ca B 23rd Edition, 2017
7	Chloride as Cl	mg/L	24.9	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017
8	Magnesium as Mg	mg/L	12.2	Max. 30	Max. 100	APHA 3500 Mg B 23rd Edition 2017

Reviewed by

Sr. Analyst

16/06/2023
Authorised signatory
Kastar Singh

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TEST REPORT

Lab No.		120623N-E-006				Page No. 2/2
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate	
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 23rd Edition, 2017
10	Fluoride as F	mg/L	0.08	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	124	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
12	Total Dissolved Solids	mg/L	206	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
13	Sulphate as SO ₄	mg/L	19.3	Max. 200	Max. 400	APHA 4500-SO ₄ -E 23rd Edition, 2017
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
17	Cadmium	mg/L	<0.0005	Max. 0.003	No Relaxation	APHA 3125 B 23rd Edition 2017
18	Potassium	mg/L	2.3	-	-	APHA 3125 B 23rd Edition 2017
19	Sodium	mg/L	7.4	-	-	APHA 3125 B 23rd Edition 2017
20	Copper as Cu	mg/L	<0.0005	Max. 0.05	Max. 1.5	APHA 3125 B 23rd Edition 2017
21	Iron as Fe	mg/L	0.006	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
22	Manganese as Mn	mg/L	<0.0005	Max. 0.1	Max. 0.3	APHA 3125 B 23rd Edition 2017
23	Nickel as Ni	mg/L	<0.0005	Max. 0.02	No Relaxation	APHA 3125 B 23rd Edition 2017
24	Zinc as Zn	mg/L	0.12	Max. 5	Max. 15	APHA 3125 B 23rd Edition 2017
25	Aluminum as Al	mg/L	<0.0005	Max. 0.03	Max. 0.2	APHA 3125 B 23rd Edition 2017
26	Mercury as Hg	mg/L	<0.0005	Max. 0.001	No Relaxation	APHA 3125 B 23rd Edition 2017
27	Total Arsenic	mg/L	<0.0005	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017
28	Total Chromium	mg/L	<0.0005	Max. 0.05	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-	-	-
29	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185:2016

Represents details provided by the customer.

End of Report

Reviewed by

Authorised signatory

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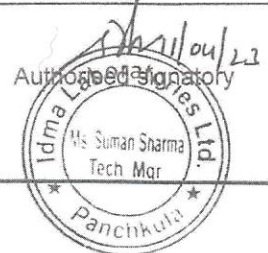
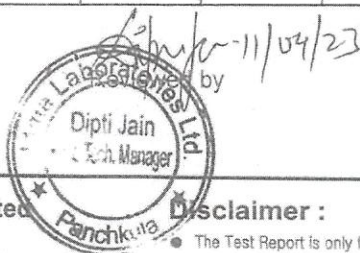
TEST REPORT

Lab No.	050423N-E-019		Page No.	1/3
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 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.	EL176WOD1000061	Dated	16/04/2021	
Date of Receipt of Sample	05/04/2023			
Period of Analysis	05/04/2023 To 11/04/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh	
Sampling Location	Helipad Camp			
Visual Observation	N/A			
Date of Sampling	03/04/2023			
Date of Reporting	11/04/2023			
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	2	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.43	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO ₃	mg/L	155.2	Max. 200	Max. 600	APHA 2320 B 23rd Edition, 2017
5	Boron	mg/L	BLQ(LOQ-0.0005)	Max. 0.5	Max. 2.4	APHA 3125 B 23rd Edition, 2017
6	Calcium as Ca	mg/L	28.3	Max. 75	Max. 200	APHA 3500-Ca B 23rd Edition, 2017
7	Chloride as Cl	mg/L	10.2	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017

Test found ok.
G.H.W.



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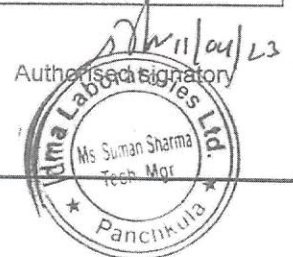
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TEST REPORT

Lab No.		050423N-E-019				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	14.4	Max. 30	Max. 100	APHA 3500 Mg B 23rd Edition 2017
9	Cyanide as CN	mg/L	BLQ(LOQ-0.01)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 23rd Edition, 2017
10	Fluoride as F	mg/L	0.02	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	130	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
12	Total Dissolved Solids	mg/L	215	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
13	Sulphate as SO ₄	mg/L	96	Max. 200	Max. 400	APHA 4500-SO ² -4 E 23rd Edition, 2017
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
17	Cadmium	mg/L	BLQ(LOQ-0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 23rd Edition 2017
18	Potassium	mg/L	2.3	-	-	APHA 3125 B 23rd Edition 2017
19	Sodium	mg/L	9.7	-	-	APHA 3125 B 23rd Edition 2017
20	Copper as Cu	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 23rd Edition 2017
21	Iron as Fe	mg/L	0.041	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
22	Manganese as Mn	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	Max. 0.3	APHA 3125 B 23rd Edition 2017
23	Nickel as Ni	mg/L	BLQ(LOQ-0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 23rd Edition 2017
24	Zinc as Zn	mg/L	0.075	Max. 5	Max. 15	APHA 3125 B 23rd Edition 2017
25	Aluminum as Al	mg/L	BLQ(LOQ-0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 23rd Edition 2017
26	Selenium as Se	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017
27	Silver as Ag	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	No Relaxation	APHA 3125 B 23rd Edition 2017
28	Mercury as Hg	mg/L	BLQ(LOQ-0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 23rd Edition 2017
29	Total Arsenic	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017



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TEST REPORT

Lab No.		050423N-E-018				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29			0005)			
30	Total Chromium	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-	-	-
31	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

End of Report



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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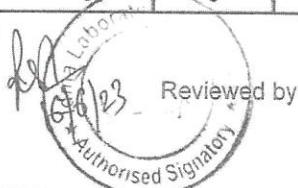
Idma Laboratories Limited

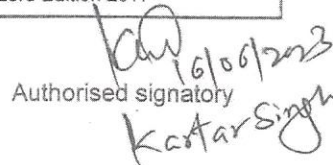
TEST REPORT

Lab No.	120623N-E-007	Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Forest Land		
Visual Observation	N/A		
Date of Sampling	11/06/2023		
Date of Reporting	16/06/2023		
Sampling Protocol	IS:17614 (PART-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	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<5	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.33	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO ₃	mg/L	142	Max. 200	Max. 600	APHA 2320 B 23rd Edition, 2017
5	Boron	mg/L	0.004	Max. 0.5	Max. 2.4	APHA 3125 B 23rd Edition, 2017
6	Calcium as Ca	mg/L	31.8	Max. 75	Max. 200	APHA 3500-Ca B 23rd Edition, 2017
7	Chloride as Cl	mg/L	27.5	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017
8	Magnesium as Mg	mg/L	12.7	Max. 30	Max. 100	APHA 3500 Mg B 23rd Edition 2017

 Reviewed by

 Authorised signatory
Kartar Singh

Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)
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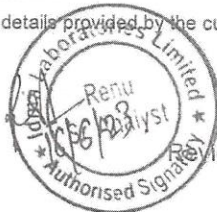
Idma Laboratories Limited

TEST REPORT

Lab No.		120623N-E-007				Page No. 2/2
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate	
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 23rd Edition, 2017
10	Fluoride as F	mg/L	0.012	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	132	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
12	Total Dissolved Solids	mg/L	228	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
13	Sulphate as SO ₄	mg/L	19.4	Max. 200	Max. 400	APHA 4500-SO ² -4 E 23rd Edition, 2017
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
17	Cadmium	mg/L	<0.0005	Max. 0.003	No Relaxation	APHA 3125 B 23rd Edition 2017
18	Potassium	mg/L	1.8	-	-	APHA 3125 B 23rd Edition 2017
19	Sodium	mg/L	5.6	-	-	APHA 3125 B 23rd Edition 2017
20	Copper as Cu	mg/L	<0.0005	Max. 0.05	Max. 1.5	APHA 3125 B 23rd Edition 2017
21	Iron as Fe	mg/L	0.012	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
22	Manganese as Mn	mg/L	<0.0005	Max. 0.1	Max. 0.3	APHA 3125 B 23rd Edition 2017
23	Nickel as Ni	mg/L	<0.0005	Max. 0.02	No Relaxation	APHA 3125 B 23rd Edition 2017
24	Zinc as Zn	mg/L	0.018	Max. 5	Max. 15	APHA 3125 B 23rd Edition 2017
25	Aluminum as Al	mg/L	<0.0005	Max. 0.03	Max. 0.2	APHA 3125 B 23rd Edition 2017
26	Mercury as Hg	mg/L	<0.0005	Max. 0.001	No Relaxation	APHA 3125 B 23rd Edition 2017
27	Total Arsenic	mg/L	<0.0005	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017
28	Total Chromium	mg/L	<0.0005	Max. 0.05	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-	-	-
29	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	-	FSSAI Manual
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	-	FSSAI Manual

Represents details provided by the customer.

End of Report



Reviewed by


 14/06/2023
 Authorised signatory
 Kaftan Singh

Idma Laboratories Limited

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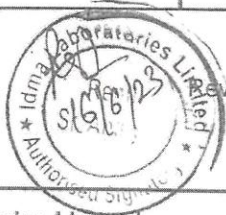
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TEST REPORT

Lab No.	120623N-E-008	Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Helipad Camp		
Visual Observation	N/A		
Date of Sampling	11/06/2023		
Date of Reporting	16/06/2023		
Sampling Protocol	IS:17614 (PART-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	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<5	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.61	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO ₃	mg/L	148	Max. 200	Max. 600	APHA 2320 B 23rd Edition, 2017
5	Boron	mg/L	0.018	Max. 0.5	Max. 2.4	APHA 3125 B 23rd Edition, 2017
6	Calcium as Ca	mg/L	32.7	Max. 75	Max. 200	APHA 3500-Ca B 23rd Edition, 2017
7	Chloride as Cl	mg/L	23.4	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017
8	Magnesium as Mg	mg/L	9.9	Max. 30	Max. 100	APHA 3500 Mg B 23rd Edition 2017



Reviewed by

Authorised signatory
Kaustubh Ji
16/06/2023
Kaustubh Ji

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

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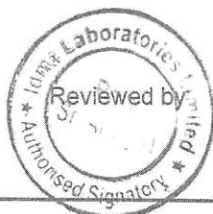
TEST REPORT

Lab No.		120623N-E-008				Page No. 2/2
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate	
9	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 23rd Edition, 2017
10	Fluoride as F	mg/L	0.04	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	122.6	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
12	Total Dissolved Solids	mg/L	249	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
13	Sulphate as SO ₄	mg/L	26.4	Max. 200	Max. 400	APHA 4500-SO ² -4 E 23rd Edition, 2017
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
17	Cadmium	mg/L	<0.0005	Max. 0.003	No Relaxation	APHA 3125 B 23rd Edition 2017
18	Potassium	mg/L	1.9	-	-	APHA 3125 B 23rd Edition 2017
19	Sodium	mg/L	6.8	-	-	APHA 3125 B 23rd Edition 2017
20	Copper as Cu	mg/L	<0.0005	Max. 0.05	Max. 1.5	APHA 3125 B 23rd Edition 2017
21	Iron as Fe	mg/L	0.08	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
22	Manganese as Mn	mg/L	<0.0005	Max. 0.1	Max. 0.3	APHA 3125 B 23rd Edition 2017
23	Nickel as Ni	mg/L	<0.0005	Max. 0.02	No Relaxation	APHA 3125 B 23rd Edition 2017
24	Zinc as Zn	mg/L	0.16	Max. 5	Max. 15	APHA 3125 B 23rd Edition 2017
25	Aluminum as Al	mg/L	<0.0005	Max. 0.03	Max. 0.2	APHA 3125 B 23rd Edition 2017
26	Mercury as Hg	mg/L	<0.0005	Max. 0.001	No Relaxation	APHA 3125 B 23rd Edition 2017
27	Total Arsenic	mg/L	<0.0005	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017
28	Total Chromium	mg/L	<0.0005	Max. 0.05	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-	-	-
29	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Manual
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Manual

Represents details provided by the customer.

End of Report

RS
16/6/23



Kantaw
16/06/2023
Authorised signatory
Kantaw Singh

Idma Laboratories Limited

Idma Corporate Park,
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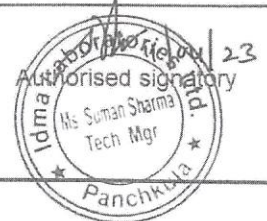
TEST REPORT

Lab No.	050423N-E-017	Page No.	1/3
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 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.	EL178WOD1000061	Dated	16/04/2021
Date of Receipt of Sample	05/04/2023		
Period of Analysis	05/04/2023 To 11/04/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh
Sampling Location	Land No. 11 Mess		
Visual Observation	N/A		
Date of Sampling	03/04/2023		
Date of Reporting	11/04/2023		
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	2	Max. 5	Max. 15	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.62	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO ₃	mg/L	160.3	Max. 200	Max. 600	APHA 2320 B 23rd Edition, 2017
5	Boron	mg/L	BLQ(LOQ-0.0005)	Max. 0.5	Max. 2.4	APHA 3125 B 23rd Edition, 2017
6	Calcium as Ca	mg/L	35.4	Max. 75	Max. 200	APHA 3500-Ca B 23rd Edition, 2017
7	Chloride as Cl	mg/L	10.1	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017

Test found sb.
[Signature]



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TEST REPORT

Lab No.		050423N-E-017				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	21.2	Max. 30	Max. 100	APHA 3500 Mg B 23rd Edition 2017
9	Cyanide as CN	mg/L	BLQ(LOQ-0.01)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 23rd Edition, 2017
10	Fluoride as F	mg/L	0.042	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO3)	mg/L	175.3	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
12	Total Dissolved Solids	mg/L	238	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
13	Sulphate as SO4	mg/L	9.8	Max. 200	Max. 400	APHA 4500-SO ² -4 E 23rd Edition, 2017
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 23rd Edition, 2017
17	Cadmium	mg/L	BLQ(LOQ-0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 23rd Edition 2017
18	Potassium	mg/L	1.3	-	-	APHA 3125 B 23rd Edition 2017
19	Sodium	mg/L	9.5	-	-	APHA 3125 B 23rd Edition 2017
20	Copper as Cu	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 23rd Edition 2017
21	Iron as Fe	mg/L	0.011	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
22	Manganese as Mn	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	Max. 0.3	APHA 3125 B 23rd Edition 2017
23	Nickel as Ni	mg/L	BLQ(LOQ-0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 23rd Edition 2017
24	Zinc as Zn	mg/L	0.095	Max. 5	Max. 15	APHA 3125 B 23rd Edition 2017
25	Aluminum as Al	mg/L	BLQ(LOQ-0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 23rd Edition 2017
26	Selenium as Se	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017
27	Silver as Ag	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	No Relaxation	APHA 3125 B 23rd Edition 2017
28	Mercury as Hg	mg/L	BLQ(LOQ-0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 23rd Edition 2017
29	Total Arsenic	mg/L	BLQ(LOQ-0)	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017



Idma Laboratories Limited

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TEST REPORT

Lab No.		050423N-E-017				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			0005)			
30	Total Chromium	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)					
31	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

End of Report

Dipti Jain 11/04/23
Reviewed by



Idma Laboratories Limited

Idma Corporate Park,
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Idma Laboratories Limited

TEST REPORT

Lab No.	050423N-E-018	Page No.	1/3
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 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.	EL176WOD1000061	Dated	16/04/2021
Date of Receipt of Sample	05/04/2023		
Period of Analysis	05/04/2023 To 11/04/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh
Sampling Location	Forest Land		
Visual Observation	N/A		
Date of Sampling	03/04/2023		
Date of Reporting	11/04/2023		
Sampling Protocol	IS: 17614 (P-1) 2021		
Testing Protocol	IS: 10500:2012		

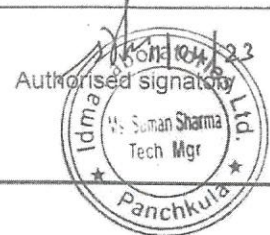
RESULTS

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 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.23	6.5-8.5	No Relaxation	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO ₃	mg/L	141.2	Max. 200	Max. 600	APHA 2320 B 23rd Edition, 2017
5	Boron	mg/L	BLQ(LOQ-0.0005)	Max. 0.5	Max. 2.4	APHA 3125 B 23rd Edition, 2017
6	Calcium as Ca	mg/L	21.4	Max. 75	Max. 200	APHA 3500-Ca B 23rd Edition, 2017
7	Chloride as Cl	mg/L	8.1	Max. 250	Max. 1000	APHA 4500Cl- B 23rd Edition, 2017

Test found ok
[Signature]



11/04/23



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TEST REPORT

Lab No.		050423N-E-018				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	18.4	Max. 30	Max. 100	APHA 3500 Mg B 23rd Edition 2017
9	Cyanide as CN	mg/L	BLQ(LOQ-0.01)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 23rd Edition, 2017
10	Fluoride as F	mg/L	0.03	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO3)	mg/L	129.2	Max. 200	Max. 600	APHA 2340C 23rd Edition, 2017
12	Total Dissolved Solids	mg/L	211	Max. 500	Max. 2000	APHA 2540 C 23rd Edition, 2017
13	Sulphate as SO4	mg/L	10.3	Max. 200	Max. 400	APHA 4500-SO ² -4 E 23rd Edition, 2017
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 23rd Edition, 2017
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 23rd Edition, 2017
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500CI B 23rd Edition, 2017
17	Cadmium	mg/L	BLQ(LOQ-0.0005)	Max. 0.003	No Relaxation	APHA 3125 B 23rd Edition 2017
18	Potassium	mg/L	1.7	-	-	APHA 3125 B 23rd Edition 2017
19	Sodium	mg/L	8.9	-	-	APHA 3125 B 23rd Edition 2017
20	Copper as Cu	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	Max. 1.5	APHA 3125 B 23rd Edition 2017
21	Iron as Fe	mg/L	0.034	Max. 1.0	No Relaxation	APHA 3125 B 23rd Edition 2017
22	Manganese as Mn	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	Max. 0.3	APHA 3125 B 23rd Edition 2017
23	Nickel as Ni	mg/L	BLQ(LOQ-0.0005)	Max. 0.02	No Relaxation	APHA 3125 B 23rd Edition 2017
24	Zinc as Zn	mg/L	0.21	Max. 5	Max. 15	APHA 3125 B 23rd Edition 2017
25	Aluminum as Al	mg/L	BLQ(LOQ-0.0005)	Max. 0.03	Max. 0.2	APHA 3125 B 23rd Edition 2017
26	Selenium as Se	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017
27	Silver as Ag	mg/L	BLQ(LOQ-0.0005)	Max. 0.1	No Relaxation	APHA 3125 B 23rd Edition 2017
28	Mercury as Hg	mg/L	BLQ(LOQ-0.0005)	Max. 0.001	No Relaxation	APHA 3125 B 23rd Edition 2017
29	Total Arsenic	mg/L	BLQ(LOQ-0.0005)	Max. 0.01	No Relaxation	APHA 3125 B 23rd Edition 2017



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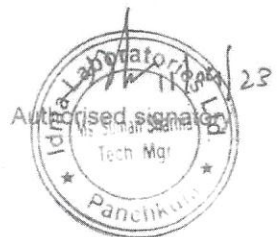
Idma Laboratories Limited

TEST REPORT

Lab No.		050423N-E-019				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29			0005)			
30	Total Chromium	mg/L	BLQ(LOQ-0.0005)	Max. 0.05	No Relaxation	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)					
31	E.coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

End of Report



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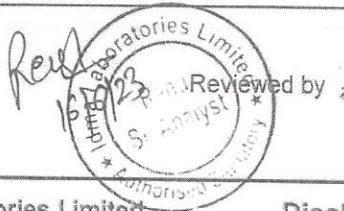
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TEST REPORT

Lab No.	120623N-E-004	Page No.	1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-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.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Chenab River		
Visual Observation	N/A		
Date of Sampling	11/06/2023		
Date of Reporting	16/06/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	<5	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.43	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO ₃	mg/L	118	APHA 2320 B 23rd Edition, 2017
5	Calcium as Ca	mg/L	26.1	APHA 3500-Ca B 23rd Edition, 2017
6	Conductivity	uS/cm	402	USEPA Method 120.1
7	Dissolved Oxygen (DO)	mg/L	7.1	CPCB Guide Manual:Water & waste water Analysis
8	Hardness Total (as CaCO ₃)	mg/L	98	APHA 2340C 23rd Edition, 2017
9	Oil & Grease	mg/L	<2.5	APHA 5500 B 23rd Edition, 2017



Authorised signatory
[Signature] 16/07/23
Kaustubh Ji

Idma Laboratories Limited

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TEST REPORT

Lab No.		120623N-E-004		Page No. 2/2	
S.No.	Test Parameter	Units	Results	Test Method	
10	Total Dissolved Solids	mg/L	189	APHA 2540 C 23rd Edition, 2017	
11	Total suspended Solids	mg/L	12	APHA 2540 D 23rd Edition, 2017	
12	Sulphate as SO ₄	mg/L	16.5	APHA 4500-SO ₄ -4 E 23rd Edition, 2017	
13	Faecal Coliforms	MPN/100ml	90	APHAS 9221 B & C 23rd Edition 2017	
14	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis	
15	Chemical Oxygen Demand	mg/L	<4	CPCB Guide Manual:Water & waste water Analysis	

Opinion :

Represents details provided by the customer.

End of Report



Kautilya
16/06/2023
Authorised signatory
Kautilya Singh

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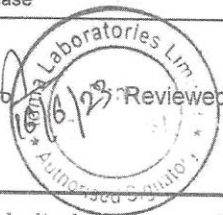
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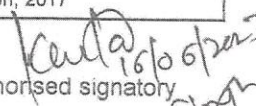
TEST REPORT

Lab No.	120623N-E-005	Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-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.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Chenab River		
Visual Observation	N/A		
Date of Sampling	11/06/2023		
Date of Reporting	16/06/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	--		

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	<5	APHA 2120 B&C 23rd Edition, 2017
2	Odour	Qualitative	Agreeable	APHA 2150 B 23rd Edition, 2017
3	pH	-	7.43	APHA 4500H+B 23rd Edition, 2017
4	Alkalinity as CaCO ₃	mg/L	121	APHA 2320 B 23rd Edition, 2017
5	Calcium as Ca	mg/L	27.7	APHA 3500-Ca B 23rd Edition, 2017
6	Conductivity	uS/cm	399	USEPA Method 120.1
7	Dissolved Oxygen (DO)	mg/L	6.9	CPCB Guide Manual:Water & waste water Analysis
8	Hardness Total (as CaCO ₃)	mg/L	104	APHA 2340C 23rd Edition, 2017
9	Oil & Grease	mg/L	1.1	APHA 5500 B 23rd Edition, 2017


Reviewed by



Authorised signatory
Kaustubh Ji

Idma Laboratories Limited

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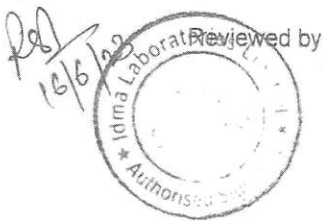
TEST REPORT

Lab No.		120623N-E-005		Page No. 2/2	
S.No.	Test Parameter	Units	Results	Test Method	
10	Total Dissolved Solids	mg/L	181	APHA 2540 C 23rd Edition, 2017	
11	Total suspended Solids	mg/L	11	APHA 2540 D 23rd Edition, 2017	
12	Sulphate as SO ₄	mg/L	15.9	APHA 4500-SO ₄ -4 E 23rd Edition, 2017	
13	Faecal Coliforms	MPN/100ml	110	APHA 9221 B & C 23rd Edition	
14	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis	
15	Chemical Oxygen Demand	mg/L	3.97	CPCB Guide Manual:Water & waste water Analysis	

Opinion :

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End of Report



Kartar Singh
16/06/23
Authorised signatory
Kartar Singh

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TEST REPORT

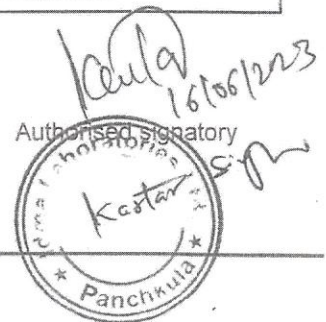
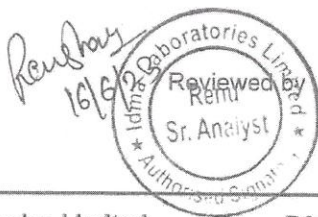
Lab No.	120623N-E-001	Page No.	1/1
Customer#	Larsen & Toubro Limited Pakai Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Waste Water (Outlet)		
Customer's Description of Sample#	Waste Water (Outlet)		
Quantity#	5 Ltr		
Packing, Markings#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Batching Plant		
Visual Observation	N/A		
Date of Sampling	11/06/2023		
Date of Reporting	16/06/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.25	5.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	117.6	Max. 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD) 3-days at 27 °C	mg/L	23	Max. 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	3.1	Max. 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	366	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	25	Max. 100	APHA2540 D23rd Edition 2017

Represents details provided by the customer.

End of Report



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TEST REPORT

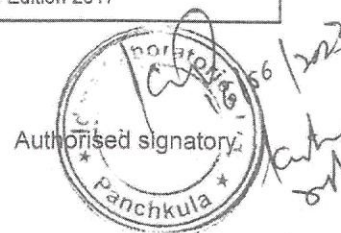
Lab No.	120623N-E-002	Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Waste Water (Outlet)		
Customer's Description of Sample#	Waste Water (Outlet)		
Quantity#	5 Ltr		
Packing, Markings#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL178WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Crusher Plant		
Visual Observation	N/A		
Date of Sampling	11/06/2023		
Date of Reporting	16/06/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.36	5.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	95.4	Max. 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	16	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	402	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	31	Max. 100	APHA2540 D23rd Edition 2017

Represents details provided by the customer.

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TEST REPORT

Lab No.	120623N-E-003	Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	Waste Water (Outlet)		
Customer's Description of Sample#	Waste Water (Outlet)		
Quantity#	5 Ltr		
Packing, Markings#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	CP-30 Land		
Visual Observation	N/A		
Date of Sampling	11/06/2023		
Date of Reporting	16/06/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.81	5.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	103.4	Max.250	CPCB Guide Manual:Water & waste water Analysis
	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	15	Max. 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.1	Max. 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	422	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	29	Max. 100	APHA2540 D23rd Edition 2017

Represents details provided by the customer.

End of Report



Authorised signatory
Kartoo Singh
16/06/2023

Idma Laboratories Limited

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

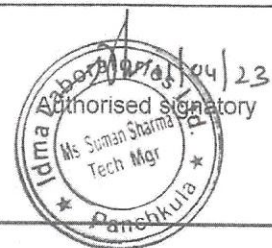
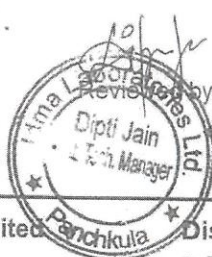
TEST REPORT

Lab No.	050423N-E-014		Page No.	1/2	
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir				
Type of Sample	Waste Water (Outlet)				
Customer's Description of Sample	Waste Water (Outlet)				
Quantity	5 Ltr.				
Packing, Markings	Plastic Can.				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.	EL176WOD1000061	Dated	16/04/2021		
Date of Receipt of Sample	05/04/2023				
Period of Analysis	05/04/2023 To 11/04/2023				
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh		
Sampling Location	Batching Plant CP60 Forest Land				
Visual Observation	N/A				
Date of Sampling	02/04/2023				
Date of Reporting	11/04/2023				
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	-	6.85	5.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	174.6	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	18	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	4.2	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	457	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	38	Max 100	APHA2540 D23rd Edition 2017

Test found ok.
Kaushtubh M.



Idma Laboratories Limited Panchkula

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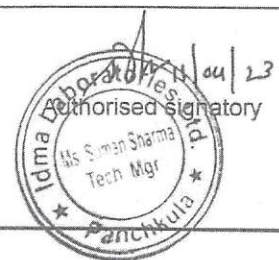
TEST REPORT

Lab No.	050423N-E-015		Page No. 1/2
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample	Waste Water (Outlet)		
Customer's Description of Sample	Waste Water (Outlet)		
Quantity	5 Ltr.		
Packing, Markings	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	EL176WOD1000061	Dated	16/04/2021
Date of Receipt of Sample	05/04/2023		
Period of Analysis	05/04/2023 To 11/04/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh
Sampling Location	Crusher Plant Forest Land		
Visual Observation	N/A		
Date of Sampling	02/04/2023		
Date of Reporting	11/04/2023		
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	-	7.52	5.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	84.8	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	12	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	381	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	29	Max 100	APHA2540 D23rd Edition 2017

Test found ok.
[Signature]



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	050423N-E-016		Page No. 1/2	
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir			
Type of Sample	Waste Water (Outlet)			
Customer's Description of Sample	Waste Water (Outlet)			
Quantity	5 Ltr.			
Packing, Markings	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	EL176WOD1000061	Dated	16/04/2021	
Date of Receipt of Sample	05/04/2023			
Period of Analysis	05/04/2023 To 11/04/2023			
Sampling Team Idma	idma Representative Team	Client	Mr. Kaushtubh	
Sampling Location	CP 30 Land No.3			
Visual Observation	N/A			
Date of Sampling	03/04/2023			
Date of Reporting	11/04/2023			
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	-	7.44	5.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	92.6	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	16	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.7	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	402	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	31	Max 100	APHA2540 D23rd Edition 2017

Test found by
[Signature]

Reviewed by
[Signature] 11/04/23
Dipti Jain
Tech. Manager
Panchkula

Authorised signatory
Ms. Suman Sharma
Tech Mgr
Panchkula

Idma Laboratories Limited

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HRT-TBM Package Works
Pakal Dul Hydro Electric Project

Attachment 03

Noise monitoring Report (1st and 2nd Quarter 2023)



Idma Laboratories Limited

TEST REPORT

Lab No.	120623N-E-013	Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Crusher Plant, Forest Land		
Visual Observation	N/A		
Date of Sampling	10/06/2023		
Date of Reporting	16/06/2023		
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)	71.6	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	64.5	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report



Handwritten signature 'Kaustubh Ji' and date '16/06/2023' above the text 'Authorised signatory' and another handwritten signature 'Kaustubh Ji'.

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	120623N-E-014	Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Batching Plant, CP60 Forest Land		
Visual Observation	N/A		
Date of Sampling	10/06/2023		
Date of Reporting	16/06/2023		
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)	70.3	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	62.9	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report



16/06/2023
Authorised signatory
Kartar Singh

Idma Laboratories Limited

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TEST REPORT

Lab No.	120623N-E-015	Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	CP30 Land No.3		
Visual Observation	N/A		
Date of Sampling	10/06/2023		
Date of Reporting	16/06/2023		
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)	72.6	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	60.8	Max 70	EPA Guideline Manual July 2008

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End of Report

PK
16/6/23

Reviewed by

Kanta
16/06/2023

Authorised signatory
Kanta Singh

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TEST REPORT

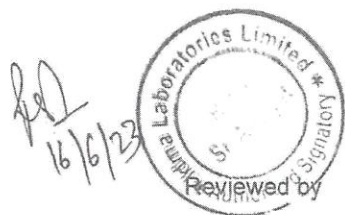
Lab No.	120623N-E-016	Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD10000	Dated	16/07/2021
Date of Receipt of Sample	12/06/2023		
Period of Analysis	12/06/2023 To 16/06/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kaustubh Ji
Sampling Location#	Portal		
Visual Observation	N/A		
Date of Sampling	10/06/2023		
Date of Reporting	16/06/2023		
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)	73.4	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	62.1	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report



Handwritten signature and date '16/06/23' above the text 'Authorised signatory'.

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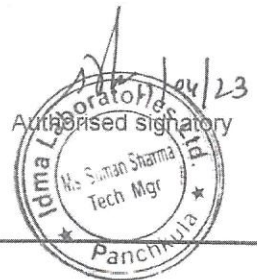
TEST REPORT

Lab No.	050423N-E-011		Page No. 1/2	
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir			
Type of Sample	NOISE LEVEL (AMBIENT)			
Customer's Description of Sample	NOISE LEVEL (AMBIENT)			
Quantity	1 No.			
Packing, Markings	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	EL176WOD1000061	Dated	16/04/2021	
Date of Receipt of Sample	05/04/2023			
Period of Analysis	05/04/2023 To 11/04/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh	
Sampling Location	Crusher Plant Forest Land.			
Visual Observation	N/A			
Date of Sampling	03/04/2023			
Date of Reporting	11/04/2023			
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)	71.3	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	66.3	Max 70	EPA Guideline Manual July 2008

Test found ok.
[Signature]



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Idma Laboratories Limited

TEST REPORT

Lab No.	050423N-E-012	Page No. 1/1	
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample	NOISE LEVEL (AMBIENT)		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	EL176WOD1000061	Dated	16/04/2021
Date of Receipt of Sample	05/04/2023		
Period of Analysis	05/04/2023 To 11/04/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh
Sampling Location	Batching Plant CP 60 Forest Land		
Visual Observation	N/A		
Date of Sampling	03/04/2023		
Date of Reporting	11/04/2023		
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)	70.3	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	65.9	Max 70	EPA Guideline Manual July 2008

End of Report

Test found ok.
[Signature]

[Signature] 11/04/23
by
Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd.
Panchkula

[Signature] 11/04/23
Authorised signatory
Ms. Suman Sharma
Tech Mgr
Idma Laboratories Ltd.
Panchkula

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

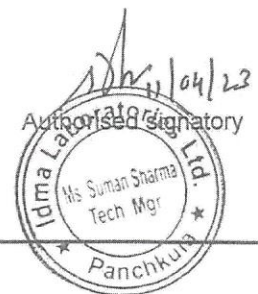
TEST REPORT

Lab No.	050423N-E-013	Page No. 1/2	
Customer	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II. V.P.O Dool Tehsil & Distt. Kishtwar (J & K)-182204 Jammu & Kashmir		
Type of Sample	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample	NOISE LEVEL (AMBIENT)		
Quantity	1 No.		
Packing, Markings	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	EL176WOD1000061	Dated	16/04/2021
Date of Receipt of Sample	05/04/2023		
Period of Analysis	05/04/2023 To 11/04/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kaushtubh
Sampling Location	CP 30 Land No.3		
Visual Observation	N/A		
Date of Sampling	03/04/2023		
Date of Reporting	11/04/2023		
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)	71.7	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	67.3	Max 70	EPA Guideline Manual July 2008

Test found ok.
By
11/4



Idma Laboratories Limited

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