



चिनाब वैली पावर प्रोजेक्ट्स [पी] लिमिटेड

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

Chenab Valley Power Projects [P] Ltd.

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

सीआईएन/CIN: U40105JK2011GOI003321

महाप्रबंधक (प्रभारी)
General Manager (I/c)

परियोजना प्रमुख
Head of Project

No. CVPP/PDHEP/GM (I/c)/2024/ 670

Dated: 28.05.2024

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.irojkmefcc@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 October 2023 to March 2024.

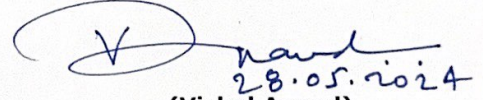
Ref: Environmental Clearance granted to the Project vide letter no. J-12011/51/2007-IA dated 29.02.2008 and transferred in favour of CVPP vide letter no. J-12011/51/2007-IA dated 12.07.2012.

Sir,

The Six Monthly Environment Clearance Compliance Report (ECCR) in respect of Pakal Dul HE Project for the period (October, 2023 to March, 2024) is being enclosed herewith for your kind information.

Thanking you,

Yours sincerely,


28.05.2024

(Vishal Anand)
General Manager (I/c) HOP
Pakal Dul HE Project

CC:

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, CO, Jammu.



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CIN NO. U40105JK2011GOI003321

Ph No.01995-295192
Fax No. 01995-295192

ANNEXURE-I

Six Monthly EC Compliance Report of Pakal Dul HE Project (1000 MW)
(October, 2023 to March, 2024)

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 accorded vide Government order no. 17(JK)FST of 2020 dated 30.01.2020.</p>



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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) General Manger (I/c), Pakal Dul HE Project, CVPPP Ltd., Chenab Nagar-II, Kishtwar, J&K. Pin code- 182206 Telephone: - 01995-260723 Email: hop-pdhep@cvppindia.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><tr><th>S. No.</th><th>EMP</th></tr><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 System</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></table>	S. No.	EMP	1.	Biodiversity Conservation Plan	2.	Catchment Area Treatment	3.	Fisheries Development	4.	Public Health Delivery System	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)	<table><tr><th colspan="2">Forest Land</th></tr><tr><th>Diverted</th><th>Under process</th></tr><tr><td>355.3916 ha</td><td>11.34 ha</td></tr><tr><th colspan="2">Private/ Revenue Land</th></tr><tr><th>Acquired</th><th>Under process</th></tr><tr><td>177.8175 ha</td><td>26.657 ha</td></tr><tr><td>Total Land</td><td>571.2016 ha</td></tr></table>	Forest Land		Diverted	Under process	355.3916 ha	11.34 ha	Private/ Revenue Land		Acquired	Under process	177.8175 ha	26.657 ha	Total Land	571.2016 ha												
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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.4077.83 Crs (till 31 st Mar. 2024) (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"> <thead> <tr> <th>S.No</th><th>Component</th><th>Exp. (Rs. in Cr)</th></tr> </thead> <tbody> <tr> <td align="center">1.</td><td>Forest and wild life Land Diversion</td><td align="right">207.649</td></tr> <tr> <td align="center">2</td><td>Fund for Wildlife Management including corpus fund</td><td align="right">236.0</td></tr> <tr> <td align="center">3.</td><td>Fisheries Development Plan</td><td align="right">3.89</td></tr> <tr> <td align="center">4.</td><td>Biodiversity Management Plan</td><td align="right">6.52</td></tr> <tr> <td align="center">5.</td><td>Implementation of R&R plan</td><td align="right">74.09</td></tr> <tr> <td align="center">6.</td><td>Disaster Management Plan/Early Warning System</td><td align="right">0.635</td></tr> <tr> <td align="center">7.</td><td>CAT Plan</td><td align="right">44.465</td></tr> <tr> <td></td><td>Total</td><td align="right">573.249</td></tr> </tbody> </table>	S.No	Component	Exp. (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	6.52	5.	Implementation of R&R plan	74.09	6.	Disaster Management Plan/Early Warning System	0.635	7.	CAT Plan	44.465		Total	573.249
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10	Forest Land Requirements (a) Status of approval diversion of Forest Land for non-forestry use	(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																											



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(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.

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.

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. 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.

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 amount of Rs. 505310/- deposited with J&K State Forest department.

The diversion of 11.34 ha of Forest land at Reservoir Site of the Project is under process through Parivesh Portal.



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	(b) The status of clear felling of trees in Forest Land	(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.
11	Status of Construction (a) Date of commencement (actual and/or planned) (b) Date of completion (actual and/or planned)	(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. (b) Date of completion (planned): 66 months from the start of major works.
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	Nil Nil
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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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>PLAN UNDER IMPLEMENTATION</p> <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 GoI) to Rs. 36.38 Crs. The plan is to be implemented by Soil & Water Conservation Department, GoJK. Accordingly, Soil & Water Conservation Department, GoJK revised the plan as per prevailing site conditions to Rs. 44.465 crores.</p> <p>The compensatory levies on account of CAT Plan amounting to Rs. 44.465 Crs. have been deposited by the Project, in the Bank Account of J&K National CAMPA, through NEFT on 29.01.2024.</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 Order No's. 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 MOEFCC 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.	<p>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.</p> <p>Monitoring committee is to be constituted by Government under the Chairmanship of Commissioner R&R. The matter was discussed in</p>



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		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. Total Muck Generated: 4,93,846.98 Cum Total Muck Utilised: 1,97,678.33 Cum Total Muck Disposed at Dumping Sites: 2,96,169.65 Cum
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 has utilized an amount of Rs. 196.0 Lakhs till now 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:	



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	(a) Provisions proposed for the habitat improvement in the Mitigation Plan should be discussed with Wildlife Institute(WII), Dehradun and be modified accordingly.	a) 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.	b) Complied 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.	c) Complied 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 and also 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. 18.59 Cr has been utilized for the same till 31.03.2024 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		
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 are being made by the respective contractors for their labour force engaged for Power House Works, HRT-TBM Works and Dam Works, at their own cost. The expenditure incurred by all contractors on account of Free Fuel Arrangements for the period Oct. 2023 to March 2024 is Rs. 33,56,544.03.



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ii	<p>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.</p>	<p>Being complied.</p> <p>Free fuel arrangements for labourers have been made by the contractors.</p> <p>Adequate drinking water and sanitation facilities have been provided by the respective contractors at residential areas of their labour force.</p> <p>Details of medical facilities established by major works contractors for their laborers and locals, at their own cost, are as under:</p> <ol style="list-style-type: none">1. Dam Package (by M/s Jaiprakash Associates Limited): One medical unit with one patient bed, Oxygen cylinder, other accessories for dispensary including IV Stand Sterilization, storage for the medicines, stretchers, wheel chairs etc. One light vehicle and Two Ambulance at Dam site are in operation and managed by one Doctor and four no. of Medical Assistants. The expenditure incurred for the period Oct. 2023 to March 2024 is Rs. 23,63,374.00.2. Power House Package (by M/s Afcons - JAL Joint Venture): First Aid Centre & Hospital at 3 locations and two fully equipped ambulances are functional at Power House Site of the Project. Being managed by 06 No's First Aiders and 4 Ambulance Drivers. The necessary medicines and oxygen cylinders are available at First Aid Centre. Medical facility also made available to nearby local villagers. The expenditure incurred for the period Oct. 2023 to March 2024 is Rs. 14,58,448.00.3. HRT-TBM Package (by M/s L&T Limited) One first aid centre at Site is managed by 05 No's of male nurses and a doctor is also available at site. Regular health checkups and test are conducted fortnightly. The cumulative expenditure incurred up to March 2024 is Rs. 2,839,055.00.
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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

Page No. 1/2

Lab No.	211223N-E-013		
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	16/07/2023
Date of Receipt of Sample	21/12/2023		
Period of Analysis	21/12/2023 To 26/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kumresh Tikadar
Sampling Location#	Stack Attach DG caterpillar 2000 KVA (Land-II)		
Visual Observation	N/A		
Date of Sampling	19/12/2023		
Date of Reporting	26/12/2023		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	12	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	8	-	-
4	Stack Temperature	°C	138	-	-
5	Velocity	m/s	10	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	30	-	-

Reviewed by
Dr. Jai
Asst. Tech. Manager
26/12/23

Authorised signatory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-013				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
8	Sampling Time	Minutes	25	-	-	
9	Volumetric Flow rate	Nm ³ /hr	493.2	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	49.7	Max 75	USEPA Method 5	
11	CO	mg /Nm ³	48.9	Max 150	USEPA Method 10,10A	
12	NOx	ppmv	124.6	Max 710	USEPA Method 7E	
13	SO2	mg /Nm ³	37.5	-	USEPA Method 6C	
14	Non Methan Hydro Carbons	mg/Nm ³	24.8	Max 100	USEPA Method 25A	

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-020		Page No. 1/3
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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	16/07/2023
Date of Receipt of Sample	21/12/2023		
Period of Analysis	21/12/2023 To 26/12/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kumresh Tikadar
Sampling Location#	Haliped		
Visual Observation	N/A		
Date of Sampling	19/12/2023		
Date of Reporting	26/12/2023		
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 Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	2	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.22	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity	mg/L	146	Max. 200	Max. 600	APHA 2320B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	29.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	16.2	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023



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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-020				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	21.9	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.03	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	162	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	254	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	11.2	Max. 200	Max. 400	APHA 4500-SO ₄ -E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	2.3	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	10.6	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.082	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.011	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023



Reviewed by

Authorised signatory



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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-020				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit In absence of alternate Source	
29			0.0005)			
	Biological Testing (Water)	-	-	-	-	-
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	-	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	-	FSSAI Lab Manual

Opinion :

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-001		Page No. 1/2
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir		
Type of Sample#	Ambient Air		
Customer's Description of Sample#	Ambient Air		
Quantity#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	16/07/2023
Date of Receipt of Sample	21/12/2023		
Period of Analysis	21/12/2023 To 26/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kumresh Tikadar
Sampling Location#	Crusher Plant (C-Yard 3m)		
Visual Observation	N/A		
Date of Sampling	18/12/2023		
Date of Reporting	26/12/2023		
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/m³	81.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	18.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	21.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	24.3	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	41.5	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.62	Max. 2	NAAQMS/36/2012-13



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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-001				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	23.4	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	$\mu\text{g}/\text{m}^3$	2.21	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	$\mu\text{g}/\text{m}^3$	0.15	Max. 1	NAAQMS/36/2012-13	

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-002		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2023	
Date of Receipt of Sample	21/12/2023			
Period of Analysis	21/12/2023 To 26/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Kumresh Tikadar	
Sampling Location#	Batching Plant (C-Yard 3m)			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	26/12/2023			
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/m³	83.1	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	19.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	22.8	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	25.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	42.1	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.68	Max. 2	NAAQMS/36/2012-13



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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-002				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	21.4	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	$\mu\text{g}/\text{m}^3$	2.21	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



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-003		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2023	
Date of Receipt of Sample	21/12/2023			
Period of Analysis	21/12/2023 To 21/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Kumresh Tikadar	
Sampling Location#	Batching Plant, 3m			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	21/12/2023			
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/m³	81.7	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	17.8	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	20.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	22.5	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	37.8	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.56	Max. 2	NAAQMS/36/2012-13

Reviewed by
Dipti Jain
Asst. Tech. Manager
21/12/23

Authorised signatory

Kartar Singh
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.		211223N-E-003				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	22.4	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	$\mu\text{g}/\text{m}^3$	2.31	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
[Signature] 21/12/23

Authorised signatory

[Signature] 21/12/23

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-004	Page No. 1/2
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir	
Type of Sample#	Ambient Air	
Customer's Description of Sample#	Ambient Air	
Quantity#	01 No.	
Packing, Markings#	Filter Paper Packed in Polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	EL176WOD1000061	Dated 16/07/2023
Date of Receipt of Sample	21/12/2023	
Period of Analysis	21/12/2023 To 26/12/2023	
Sampling Team	Idma Representative Team	Client Mr. Kumresh Tikadar
Sampling Location#	Portal Area, 3m	
Visual Observation	N/A	
Date of Sampling	18/12/2023	
Date of Reporting	26/12/2023	
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	82.9	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	17.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	19.8	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	22.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	39.2	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.46	Max. 2	NAAQMS/36/2012-13



Authorised signatory



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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-004				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	22.8	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	$\mu\text{g}/\text{m}^3$	2.12	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	<8	Max. 6	NAAQMS/36/2012-13	
11	Nickel	ng/m^3	<1	Max. 20	NAAQMS/36/2012-13	
12	Lead	$\mu\text{g}/\text{m}^3$	0.10	Max. 1	NAAQMS/36/2012-13	

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-005		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2023	
Date of Receipt of Sample	21/12/2023			
Period of Analysis	21/12/2023 To 26/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Kumresh Tikadar	
Sampling Location#	Land-II, 3m			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	26/12/2023			
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/m³	79.8	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	16.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	18.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	20.8	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	39.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.66	Max. 2	NAAQMS/36/2012-13

26/12/23
Reviewed by
Dipti Jain
Asst. Tech. Manager

26/12/23
Authorised signatory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-005				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	22.4	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	$\mu\text{g}/\text{m}^3$	2.31	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
Dipti Jain
Asst. Tech. Manager
Panchkula

Authorised signatory
Kartar Singh
Tech. Mgr.
Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-006		Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir			
Type of Sample#	NOISE LEVEL (AMBIENT)			
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2023	
Date of Receipt of Sample	21/12/2023			
Period of Analysis	21/12/2023 To 26/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Kumresh	
Sampling Location#	Crusher Plant (C-Yard)			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	26/12/2023			
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)	75.3	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	67.8	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

****End of Report****

26/12/23
Reviewed by
Dipti Jain
Asst. Tech. Manager

26/12/23
Authorised signatory
Kartar Singh
Tech. Mgr.
Idma Laboratories Ltd.
Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-007	Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	16/07/2023
Date of Receipt of Sample	21/12/2023		
Period of Analysis	21/12/2023 To 26/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kumresh
Sampling Location#	Batching Plant (C-Yard)		
Visual Observation	N/A		
Date of Sampling	18/12/2023		
Date of Reporting	26/12/2023		
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)	74.9	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	66.7	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report

Reviewed by



Authorised signatory



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-008		Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir			
Type of Sample#	NOISE LEVEL (AMBIENT)			
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2023	
Date of Receipt of Sample	21/12/2023			
Period of Analysis	21/12/2023 To 26/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Kumresh	
Sampling Location#	Batching Plant			
Visual Observation	N/A			
Date of Sampling	18/12/2023			
Date of Reporting	26/12/2023			
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)	73.7	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	66.9	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report

Reviewed by
26/12/23


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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-009		Page No. 1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	16/07/2023
Date of Receipt of Sample	21/12/2023		
Period of Analysis	21/12/2023 To 26/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kumresh
Sampling Location#	Portal Area		
Visual Observation	N/A		
Date of Sampling	19/12/2023		
Date of Reporting	26/12/2023		
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)	72.9	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	67.6	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-010		Page No. 1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir		
Type of Sample#	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	16/07/2023
Date of Receipt of Sample	21/12/2023		
Period of Analysis	21/12/2023 To 26/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kumresh
Sampling Location#	Land-II		
Visual Observation	N/A		
Date of Sampling	19/12/2023		
Date of Reporting	26/12/2023		
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)	72.9	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	67.6	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

****End of Report****



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Page No. 1/2

Lab No.	211223N-E-011	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir	
Type of Sample#	Stack Emission (Boiler)	
Customer's Description of Sample#	Stack Emission (Boiler)	
Quantity#	01 No.	
Packing, Markings#	Thimble Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	EL176WOD1000061	Dated 16/07/2023
Date of Receipt of Sample	21/12/2023	
Period of Analysis	21/12/2023 To 26/12/2023	
Sampling Team	Idma Representative Team	Client Mr. Kumresh Tikadar
Sampling Location#	Stack Attach Boiler Revomax 600 Kg/hr	
Visual Observation	N/A	
Date of Sampling	19/12/2023	
Date of Reporting	26/12/2023	
Sampling Protocol	LATS/80/2013-14 USEPA:2013	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	30	-	-
2	Stack Diameter	Meters	0.5	-	-
3	Ambient Temperature	°C	8	-	-
4	Stack Temperature	°C	128	-	-
5	Velocity	m/s	10.2	-	-
6	Type of Fuel	-	Electricity	-	-
7	Sampling Flow rate	LPM	30	-	-

Reviewed by
Dipti Jain
Asst. Tech. Manager
26/12/23

Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-011				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
8	Sampling Time	Minutes	25	-	-	
9	Volumetric Flow rate	Nm ³ /hr	5441.7	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	101.8	Max 500	USEPA Method 5	
11	CO	mg /Nm ³	48.6	-	USEPA Method 10,10A	
12	NOx	mg /Nm ³	94.7	Max 300	USEPA Method 7E	
13	SO2	mg /Nm ³	71.4	Max 600	USEPA Method 6C	
14	Total Hydro Carbons	mg/Nm ³	25.7	-	USEPA Method 25A	

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Page No. 1/2

Lab No.	211223N-E-012	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir	
Type of Sample#	Stack Emission (DG)	
Customer's Description of Sample#	Stack Emission (DG)	
Quantity#	01 No.	
Packing, Markings#	Thimble Packed in polythene Pouch.	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	EL176WOD1000061	Dated 16/07/2023
Date of Receipt of Sample	21/12/2023	
Period of Analysis	21/12/2023 To 26/12/2023	
Sampling Team	Idma Representative Team	Client Mr. Kumresh Tikadar
Sampling Location#	Stack Attach DG caterpillar 2000 KVA (Land-II)	
Visual Observation	N/A	
Date of Sampling	19/12/2023	
Date of Reporting	26/12/2023	
Sampling Protocol	LATS/80/2013-14 USEPA:2013	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	12	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	8	-	-
4	Stack Temperature	°C	130	-	-
5	Velocity	m/s	9.9	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	29	-	-



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TEST REPORT

Lab No.		211223N-E-012				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
8	Sampling Time	Minutes	25	-	-	
9	Volumetric Flow rate	Nm ³ /hr	488.2	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	42.3	Max 75	USEPA Method 5	
11	CO	mg /Nm ³	55.4	Max 150	USEPA Method 10,10A	
12	NOx	ppmv	112.8	Max 710	USEPA Method 7E	
13	SO2	mg /Nm ³	43.7	-	USEPA Method 6C	
14	Non Methane Hydro Carbons	mg/Nm ³	25.9	100	USEPA Method 25A	

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End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-013		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2023	
Date of Receipt of Sample	21/12/2023			
Period of Analysis	21/12/2023 To 26/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Kumresh Tikadar	
Sampling Location#	Stack Attach DG caterpillar 2000 KVA (Land-II)			
Visual Observation	N/A			
Date of Sampling	19/12/2023			
Date of Reporting	26/12/2023			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	12	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	8	-	-
4	Stack Temperature	°C	138	-	-
5	Velocity	m/s	10	-	-
6	Type of Fuel	-	HSD	-	-
7	Sampling Flow rate	LPM	30	-	-

Reviewed by
26/12/23
Capt. Jain
Asst. Tech. Manager

Authorised signatory
26/12/23



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TEST REPORT

Lab No.	211223N-E-014		Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2023	
Date of Receipt of Sample	21/12/2023			
Period of Analysis	21/12/2023 To 26/12/2023			
Sampling Team	Idma Representative Team	Client	Mr. Kumresh	
Sampling Location#	DG Noise caterpillar 2000 KVA			
Visual Observation	N/A			
Date of Sampling	19/12/2023			
Date of Reporting	26/12/2023			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.8	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.5	-	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.8	-	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guideline Manual July 2008

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End of Report



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TEST REPORT

Lab No.	211223N-E-015	Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	16/07/2023
Date of Receipt of Sample	21/12/2023		
Period of Analysis	21/12/2023 To 26/12/2023		
Sampling Team	Idma Representative Team	Client	Mr. Kumresh
Sampling Location#	DG Noise caterpillar 2000 KVA		
Visual Observation	N/A		
Date of Sampling	19/12/2023		
Date of Reporting	26/12/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.8	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	100.6	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.2	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.4	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	211223N-E-016	Page No. 1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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 16/07/2023
Date of Receipt of Sample	21/12/2023	
Period of Analysis	21/12/2023 To 26/12/2023	
Sampling Team	Idma Representative Team	Client Mr. Kumresh
Sampling Location#	W.TP	
Visual Observation	N/A	
Date of Sampling	19/12/2023	
Date of Reporting	26/12/2023	
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	-	6.98	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	166	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	20	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	5.1	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	432	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	21	Max 100	APHA2540 D24th Edition, 2023

Represents details provided by the customer.

End of Report

Reviewed by
[Signature]
26/12/23
Dipti Jain
Asst. Tech. Manager

Authorised signatory

[Signature]
Kartar Singh
Tech. Mgr.
Idma Laboratories Ltd.

Idma Laboratories Limited

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TEST REPORT

Lab No.	211223N-E-017	Page No. 1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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.#	EL176WOD1000061	Dated 16/07/2023
Date of Receipt of Sample	21/12/2023	
Period of Analysis	21/12/2023 To 26/12/2023	
Sampling Team	Idma Representative Team	Client Mr. Kumresh
Sampling Location#	Batching Plant.	
Visual Observation	N/A	
Date of Sampling	19/12/2023	
Date of Reporting	26/12/2023	
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	-	7.23	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	98	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	14	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.6	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	452	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	26	Max 100	APHA2540 D24th Edition, 2023

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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-018			Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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.#	EL176WOD1000061		Dated	16/07/2023	
Date of Receipt of Sample	21/12/2023				
Period of Analysis	21/12/2023 To 26/12/2023				
Sampling Team	Idma Representative Team		Client	Mr. Kumresh	
Sampling Location#	Sedimatisation Tank (Crusher)				
Visual Observation	N/A				
Date of Sampling	19/12/2023				
Date of Reporting	26/12/2023				
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	-	7.59	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	68	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	10	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	<2.5	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	395	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	19	Max 100	APHA2540 D24th Edition, 2023

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Reviewed by

Authorised signatory

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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-019			Page No. 1/3	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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	16/07/2023
Date of Receipt of Sample	21/12/2023				
Period of Analysis	21/12/2023 To 26/12/2023				
Sampling Team Idma	Idma Representative Team			Client	Mr. Kumresh Tikadar
Sampling Location#	W.T.P-I				
Visual Observation	N/A				
Date of Sampling	19/12/2023				
Date of Reporting	26/12/2023				
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 Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	2	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.53	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity	mg/L	159	Max 200	Max 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	30.3	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	9.4	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023

Reviewed by

Authorised Signatory

Idma Laboratories Limited

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Haryana (India)
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TEST REPORT

Lab No.		211223N-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	25.9	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.021	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	181	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	243	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	10.3	Max. 200	Max. 400	APHA 4500-SO ₄ -4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	1.5	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	9.6	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.035	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.022	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Chromium	mg/L	BLQ (LOQ -	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023

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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-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			0.0005)			
	Biological Testing (Water)	-	-	-	-	-
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-020				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	21.9	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.03	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	162	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	254	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	11.2	Max. 200	Max. 400	APHA 4500-SO ₄ E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	2.3	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	10.6	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.082	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.011	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Chromium	mg/L	BLQ (LOQ -	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023



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TEST REPORT

Lab No.		211223N-E-020				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29			0.0005)			
	Biological Testing (Water)	-	-	-	-	-
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-021				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	19.7	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.024	Max. 1	Max. 1.5	CPCB Guide Manual: Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	136	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	233	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	10.0	Max. 200	Max. 400	APHA 4500-SO ₄ -E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	2.2	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	8.9	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.037	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.028	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Chromium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-021	Page No. 1/3
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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 16/07/2023
Date of Receipt of Sample	21/12/2023	
Period of Analysis	21/12/2023 To 26/12/2023	
Sampling Team Idma	Idma Representative Team	Client Mr. Kumresh Tikadar
Sampling Location#	11-C Mess	
Visual Observation	N/A	
Date of Sampling	19/12/2023	
Date of Reporting	26/12/2023	
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 Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.19	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity	mg/L	143	Max 200	Max 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	22.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	18.5	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023



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TEST REPORT

Lab No.		211223N-E-021				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29			0.0005)			
	Biological Testing (Water)					
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	—	FSSAI Lab Manual
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	—	FSSAI Lab Manual

Opinion :

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End of Report



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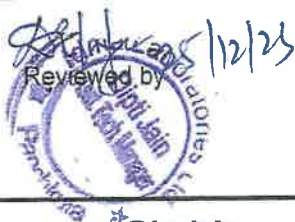
Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-022		Page No. 1/3
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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	16/07/2023
Date of Receipt of Sample	21/12/2023		
Period of Analysis	21/12/2023 To 25/12/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Kumresh Tikadar
Sampling Location#	C-yard Office		
Visual Observation	N/A		
Date of Sampling	19/12/2023		
Date of Reporting	25/12/2023		
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 Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.20	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity	mg/L	143	Max 200	Max 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	19.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	12.3	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023



Idma Laboratories Limited

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TEST REPORT

Lab No.		211223N-E-022				Page No. 2/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	12.51	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.071	Max. 1	Max. 1.5	CPCB Guide Manual: Water & waste water Analysis
11	Hardness Total (as CaCO ₃)	mg/L	100	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	156	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO ₄	mg/L	8.5	Max. 200	Max. 400	APHA 4500-SO ₄ -4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	2.8	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	12.4	-	-	APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	mg/L	0.002	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	<0.0005	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	<0.0005	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.011	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	<0.0005	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
26	Selenium as Se	mg/L	<0.0005	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Mercury as Hg	mg/L	<0.0005	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Arsenic	mg/L	<0.0005	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Chromium	mg/L	<0.0005	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023
	Biological Testing (Water)	-	-	-	-	-
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml	-	FSSAI Lab Manual



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TEST REPORT

Lab No.		211223N-E-022				Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
30				sample		
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Lab Manual

Opinion :

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-023	Page No. 1/2
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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.#	EL176WOD1000061	Dated 16/07/2023
Date of Receipt of Sample	21/12/2023	
Period of Analysis	21/12/2023 To 25/12/2023	
Sampling Team Idma	Idma Representative Team	Client Mr. Kumresh Tikadar
Sampling Location#	Up-Stream	
Visual Observation	N/A	
Date of Sampling	19/12/2023	
Date of Reporting	25/12/2023	
Sampling Protocol	IS:17614 (PART-1):2021	
Testing Protocol	-	

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	<1	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.35	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	120	APHA 2320 B 24th Edition, 2023
5	Chloride as Cl	mg/L	15	APHA 4500Cl- B 24th Edition, 2023
6	Conductivity	uS/cm	264	USEPA Method 120.1
7	Dissolved Oxygen (DO)	mg/L	8.3	CPCB Guide Manual:Water & waste water Analysis
8	Hardness Total (as CaCO ₃)	mg/L	104	APHA 2340C 24th Edition, 2023
9	Oil & Grease	mg/L	<2.5	APHA 5500 B 24th Edition, 2023

Reviewed by

Authorised signatory

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Idma Laboratories Limited

TEST REPORT

Lab No.		211223N-E-023			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method	
10	Total Dissolved Solids	mg/L	162	APHA 2540 C 24th Edition, 2023	
11	Total suspended Solids	mg/L	10	APHA 2540 D 24th Edition, 2023	
12	Sulphate as SO ₄	mg/L	4.4	APHA 4500-SO ₄ -4 E 24th Edition, 2023	
	Biological Testing (Water)	-	-	-	
13	E. Coli	MPN/100ml	Absent	APHA 9221 A 24th Edition	
14	Total Coliform Bacteria	MPN/100ml	Absent	APHA 9221 E 24th Edition	
15	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis	
16	Chemical Oxygen Demand	mg/L	4	CPCB Guide Manual:Water & waste water Analysis	

Opinion :

Represents details provided by the customer.

****End of Report****



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	211223N-E-024	Page No. 1/2
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) 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.#	EL176WOD1000061	Dated 16/07/2023
Date of Receipt of Sample	21/12/2023	
Period of Analysis	21/12/2023 To 25/12/2023	
Sampling Team Idma	Idma Representative Team	Client Mr. Kumresh Tikadar
Sampling Location#	Down Stream	
Visual Observation	N/A	
Date of Sampling	19/12/2023	
Date of Reporting	25/12/2023	
Sampling Protocol	IS:17614 (PART-1):2021	
Testing Protocol	-	

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	<1	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.40	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	124	APHA 2320 B 24th Edition, 2023
5	Chloride as Cl	mg/L	15	APHA 4500Cl- B 24th Edition, 2023
6	Conductivity	uS/cm	245	USEPA Method 120.1
7	Dissolved Oxygen (DO)	mg/L	8.0	CPCB Guide Manual:Water & waste water Analysis
8	Hardness Total (as CaCO ₃)	mg/L	110	APHA 2340C 24th Edition, 2023
9	Oil & Grease	mg/L	<2.5	APHA 5500 B 24th Edition, 2023



Authorised signatory



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TEST REPORT

Lab No.		211223N-E-024			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method	
10	Total Dissolved Solids	mg/L	171	APHA 2540 C 24th Edition, 2023	
11	Total suspended Solids	mg/L	20	APHA 2540 D 24th Edition, 2023	
12	Sulphate as SO ₄	mg/L	4.8	APHA 4500-SO ₄ E 24th Edition, 2023	
	Biological Testing (Water)	-	-	-	
13	E. Coli	MPN/100ml	Absent	APHA 9221 A 24th Edition	
14	Total Coliform Bacteria	MPN/100ml	Absent	APHA 9221 E 24th Edition	
15	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis	
16	Chemical Oxygen Demand	mg/L	4	CPCB Guide Manual:Water & waste water Analysis	

Opinion :

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Idma Laboratories Limited

TEST REPORT

Lab No.	300923N-E-001	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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	PIGS	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
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/m³	81.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	16.6	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	14.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	24.8	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	39.4	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.52	Max. 2	NAAQMS/36/2012-13

Reviewed by
[Signature]
Panchkula

Authorised signatory

[Signature]
Kartar Singh
Tech. Manager
Panchkula

Idma Laboratories Limited

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TEST REPORT

Lab No.		300923N-E-001				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	21	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	$\mu\text{g}/\text{m}^3$	2.3	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	

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Idma Laboratories Limited

Page - 25 of 68

TEST REPORT

Lab No.	300923N-E-002	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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	Crusher Plant	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
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/m³	79.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	16.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	18.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	23.7	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	37.9	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.49	Max. 2	NAAQMS/36/2012-13

Reviewed by
Dipak Jain
Asst. Tech. Manager
30/09/2023

Authorised signatory
Kartar Singh
Tech. Manager
30/09/2023

Idma Laboratories Limited

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TEST REPORT

Lab No.		300923N-E-002				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	$\mu\text{g}/\text{m}^3$	2.4	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	

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End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	300923N-E-003	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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	Adit To HRT	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013	
Testing Protocol	NAAQS	

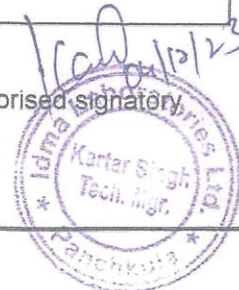
RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m³	81.1	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	15.8	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	19.7	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	24.6	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	40.1	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.42	Max. 2	NAAQMS/36/2012-13

Reviewed by



Authorised signatory



Idma Laboratories Limited

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

Lab No.		300923N-E-003				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	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

Reviewed by
[Signature]
04/10/23

[Signature]
04/10/23
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TEST REPORT

Lab No.	300923N-E-004	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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	Cut of Wall	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
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/m³	82.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	17.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	19.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	25.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	38.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.53	Max. 2	NAAQMS/36/2012-13



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Idma Laboratories Limited

TEST REPORT

Lab No.		300923N-E-004				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	$\mu\text{g}/\text{m}^3$	24	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	$\mu\text{g}/\text{m}^3$	2.3	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	$\mu\text{g}/\text{m}^3$	0.14	Max. 1	NAAQMS/36/2012-13	

Represents details provided by the customer.

End of Report



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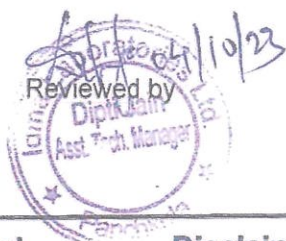
Lab No.	300923N-E-005	Page No. 1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir	
Type of Sample#	NOISE LEVEL (AMBIENT)	
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)	
Quantity#	1 No	
Packing, Markings#	Instrument at Site	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	PIGS	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
Sampling Protocol	CPCB PROTOCOL:2015	
Testing Protocol	EPA/CPCB	

RESULTS

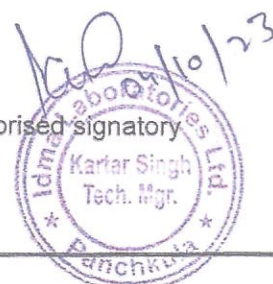
S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	69.8	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	51.6	Max 70	EPA Guideline Manual July 2008

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End of Report



Authorised signatory



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TEST REPORT

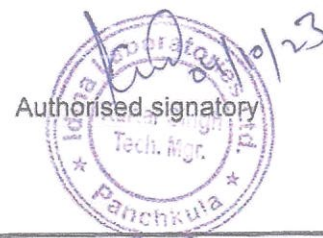
Lab No.	300923N-E-006			Page No. 1/1	
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir				
Type of Sample#	NOISE LEVEL (AMBIENT)				
Customer's Description of Sample#	NOISE LEVEL (AMBIENT)				
Quantity#	1 No				
Packing, Markings#	Instrument at Site				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample	30/09/2023				
Period of Analysis	30/09/2023 To 04/10/2023				
Sampling Team	Idma Representative Team	Client	Mr Tanveer		
Sampling Location#	Crusher Plant				
Visual Observation	N/A				
Date of Sampling	27/09/2023				
Date of Reporting	04/10/2023				
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)	70.6	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	55.1	Max 70	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	300923N-E-007	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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	Adit To HRT	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
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)	72.8	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	52.7	Max 70	EPA Guideline Manual July 2008

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Idma Laboratories Limited

TEST REPORT

Lab No.	300923N-E-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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	Cutt Of Wall	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
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)	70.5	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	53.6	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

****End of Report****

Reviewed by
Dipti Jain
Dipti Jain
Asst. Tech. Manager

Authorised signatory

Kartar Singh
Kartar Singh
Tech. Mgr.

Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	300923N-E-009			Page No. 1/3	
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#	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.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample	30/09/2023				
Period of Analysis	30/09/2023 To 04/10/2023				
Sampling Team Idma	Idma Representative Team	Client	Mr Tanveer		
Sampling Location#	Steel Yard				
Visual Observation	N/A				
Date of Sampling	27/09/2023				
Date of Reporting	04/10/2023				
Sampling Protocol	IS:17614 (PART-1):2021 & ILL/SOP/MB/034				
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 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.26	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	124	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ -0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	23.5	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	21.4	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023



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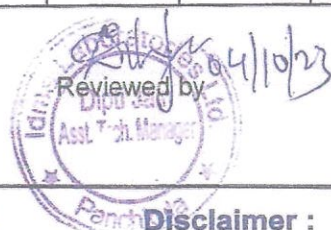
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Idma Laboratories Limited

TEST REPORT

Lab No.		300923N-E-009				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	Cyanide as CN	mg/L	BLQ (LOQ -0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
9	Fluoride as F	mg/L	0.22	Max. 1	Max. 1.5	CPCB Guide Manual: Water & waste water Analysis
10	Hardness Total (as CaCO ₃)	mg/L	106	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022
11	Sulphate as SO ₄	mg/L	10.1	Max. 200	Max. 400	APHA 4500-SO ₄ -4 E 24th Edition, 2023
12	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
13	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
14	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
15	Cadmium	mg/L	BLQ (LOQ -0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
16	Potassium	mg/L	2.1	-	-	APHA 3120 B 24th Edition, 2023
17	Sodium	mg/L	9.8	-	-	APHA 3120 B 24th Edition, 2023
18	Copper as Cu	mg/L	BLQ (LOQ -0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
19	Iron as Fe	mg/L	0.002	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
20	Manganese as Mn	mg/L	BLQ (LOQ -0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
21	Nickel as Ni	mg/L	BLQ (LOQ -0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Zinc as Zn	mg/L	0.021	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
23	Aluminum as Al	mg/L	BLQ (LOQ -0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
24	Selenium as Se	mg/L	BLQ (LOQ -0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
25	Silver as Ag	mg/L	BLQ (LOQ -0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
26	Mercury as Hg	mg/L	BLQ (LOQ -0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Total Arsenic	mg/L	BLQ (LOQ -0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Chromium	mg/L	BLQ (LOQ -0.0005)	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023



Authorised signatory



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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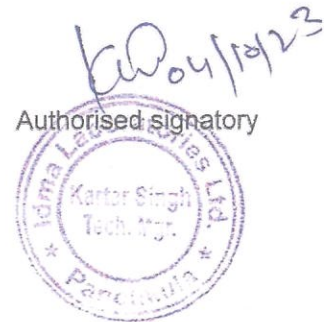
TEST REPORT

Lab No.		300923N-E-009				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	
28			-0.0005)			
	Biological Testing (Water)	-	-	-	-	-
29	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Food Manual
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Food Manual

Opinion :

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	300923N-E-010			Page No. 1/3	
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#	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.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample	30/09/2023				
Period of Analysis	30/09/2023 To 04/10/2023				
Sampling Team Idma	Idma Representative Team	Client	Mr Tanveer		
Sampling Location#	Sewer Batti Mess				
Visual Observation	N/A				
Date of Sampling	27/09/2023				
Date of Reporting	04/10/2023				
Sampling Protocol	IS:17614 (PART-1):2021 & ILL/SOP/MB/034				
Testing Protocol	IS: 10500:2012				

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.23	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO ₃	mg/L	118	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ -0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	21.5	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	17.6	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023

Reviewed by



Authorised signatory



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Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

Lab No.		300923N-E-010				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	Cyanide as CN	mg/L	BLQ (LOQ -0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
9	Fluoride as F	mg/L	0.19	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
10	Hardness Total (as CaCO ₃)	mg/L	102	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
11	Sulphate as SO ₄	mg/L	9.5	Max. 200	Max. 400	APHA 4500-SO ₄ -4 E 24th Edition, 2023
12	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
13	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
14	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
15	Cadmium	mg/L	BLQ (LOQ -0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
16	Potassium	mg/L	2.3	-	-	APHA 3120 B 24th Edition, 2023
17	Sodium	mg/L	8.9	-	-	APHA 3120 B 24th Edition, 2023
18	Copper as Cu	mg/L	BLQ (LOQ -0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
19	Iron as Fe	mg/L	0.004	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
20	Manganese as Mn	mg/L	BLQ (LOQ -0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
21	Nickel as Ni	mg/L	BLQ (LOQ -0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Zinc as Zn	mg/L	0.085	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
23	Aluminum as Al	mg/L	BLQ (LOQ -0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
24	Selenium as Se	mg/L	BLQ (LOQ -0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
25	Silver as Ag	mg/L	BLQ (LOQ -0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
26	Mercury as Hg	mg/L	BLQ (LOQ -0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Total Arsenic	mg/L	BLQ (LOQ -0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Chromium	mg/L	BLQ (LOQ	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023

Reviewed by:
Dipti Jha
Asst. Tech. Manager
Panchkula

Authorised signatory

Idma Laboratories
Panchkula
Tech. Mgr.
Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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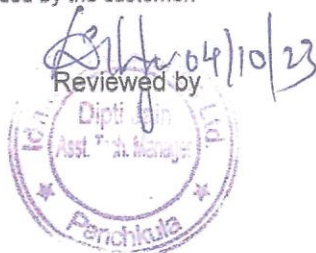
TEST REPORT

Lab No.		300923N-E-010				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	
28			-0.0005)			
	Biological Testing (Water)	-	-	-	-	-
29	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Food Manual
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	FSSAI Food Manual

Opinion :

Represents details provided by the customer.

End of Report



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TEST REPORT

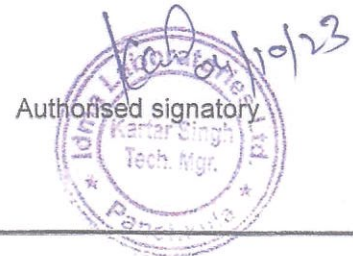
Lab No.	300923N-E-011			Page No. 1/1	
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir				
Type of Sample#	Waste Water				
Customer's Description of Sample#	Waste Water				
Quantity#	5 Ltr				
Packing, Markings#	Plastic Can				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample	30/09/2023				
Period of Analysis	30/09/2023 To 04/10/2023				
Sampling Team	Idma Representative Team	Client	Mr Tanveer		
Sampling Location#	Batching Plant				
Visual Observation	N/A				
Date of Sampling	27/09/2023				
Date of Reporting	04/10/2023				
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	-	7.42	5.5-9.0	APHA4500-H+ B24th Edition, 2022
2	Chemical Oxygen Demand (COD)	mg/L	48.4	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	10	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	3.2	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	321	-	APHA2540 C24th Edition, 2022
6	Total Suspended Solids (TSS)	mg/L	29	Max 100	APHA2540 D24th Edition, 2022

Represents details provided by the customer.

End of Report



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TEST REPORT

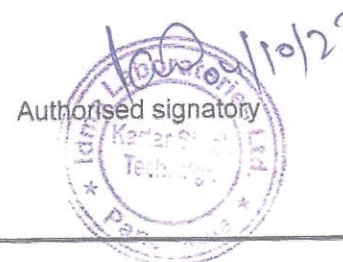
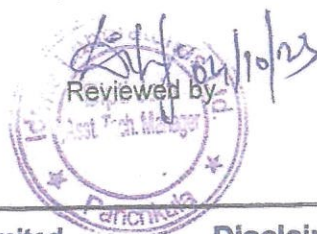
Lab No.	300923N-E-012	Page No. 1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir	
Type of Sample#	Waste Water	
Customer's Description of Sample#	Waste Water	
Quantity#	5 Ltr	
Packing, Markings#	Plastic Can	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	JAI/PAKAL/2023-24/NO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	Adit To HRT	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
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	-	7.62	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	45.8	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	362	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	27	Max 100	APHA2540 D24th Edition, 2023

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End of Report



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TEST REPORT

Lab No.	300923N-E-013	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#	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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	30/09/2023	
Period of Analysis	30/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	Client Mr Tanveer
Sampling Location#	Sewarbatti Mess	
Visual Observation	N/A	
Date of Sampling	27/09/2023	
Date of Reporting	04/10/2023	
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+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	52.4	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	10	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	3.7	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	351	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	23	Max 100	APHA2540 D24th Edition, 2023

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End of Report



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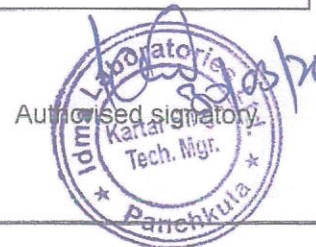
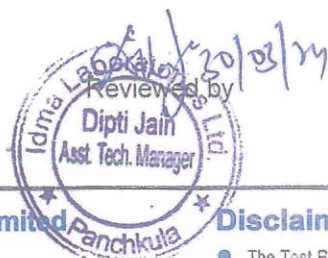


TEST REPORT

Lab No.	260324L-ED-040	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 (SW-2)	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 30/03/2024	
Sampling Team Idma	Idma Representative Team	Client Mr Tanveer Azad
Sampling Location#	Maru Sudan River	
Visual Observation	N/A	
Date of Sampling	21/03/2024	
Date of Reporting	30/03/2024	
Sampling Protocol	IS:17614 (PART-1):2021	
Testing Protocol	-	

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.28	IS 3025 (Part 11)
2	Alkalinity as CaCO ₃	mg/L	115	IS 3025 (Part 23)
3	Chloride as Cl	mg/L	19.4	IS 3025 (Part 32)
4	Hardness Total (as CaCO ₃)	mg/L	90	IS 3025 (Part 21)
5	Oil & Grease	mg/L	<2.5	IS 3025 (Part 39)
6	Total Dissolved Solids	mg/L	165	IS 3025 (Part 16)
7	Sulphate as SO ₄	mg/L	8.0	IS 3025 (Part 24)
8	Iron as Fe	mg/L	0.004	IS 3025 (Part 53)
9	Lead as Pb	mg/L	<0.0005	IS 3025 (Part 47)



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Haryana (India)
Tel No. 0172 - 5064827, - 5064830
Website : www.idmagroup.co.in
Email : commercial@idmalab.co.in

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TEST REPORT

Lab No.		260324L-ED-040			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods	
	Biological Testing (Water)	--	-	--	
10	F. coliform	MPN/100ml	63	IS 1622:1981	
11	E. coli	MPN/100ml	31	IS 1622:1981	
12	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)	
13	Chemical Oxygen Demand	mg/L	<4	IS 3025 (Part 58)	

Opinion :

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,
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Idma Laboratories Limited

TC-8207

TEST REPORT

Lab No.	260324L-ED-041	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#	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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 30/03/2024	
Sampling Team	Idma Representative Team	Client Mr Tanveer Azad
Sampling Location#	Adit to HRT-Tunnel	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	30/03/2024	
Sampling Protocol	IS:17614 (PART-1):2021	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.35	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	60	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand	mg/L	12	Max 30	IS 3025 (Part 44) BOD 3-days at 27 °C
4	Oil & Grease	mg/L	2.8	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	301	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	29	Max 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



Authorised signatory



Idma Laboratories Limited Panchkula

Idma Corporate Park,
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Idma Laboratories Limited

TEST REPORT

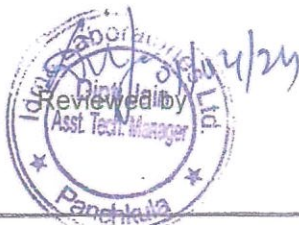
Lab No.	260324L-ED-042	Page No. 1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir	
Type of Sample#	Waste Water	
Customer's Description of Sample#	Waste Water	
Quantity#	5 Ltr	
Packing, Markings#	Plastic can	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 01/04/2024	
Sampling Team	Idma Representative Team	Client Mr Tanveer Azad
Sampling Location#	Batching Plant	
Visual Observation	N/A	
Date of Sampling	22/03/2024	
Date of Reporting	01/04/2024	
Sampling Protocol	IS:17614 (PART-1):2021	
Testing Protocol	CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.22	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	64	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand	mg/L	10	Max 30	IS 3025 (Part 44) BOD 3-days at 27 °C
4	Oil & Grease	mg/L	<2.5	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	325	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	31	Max 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,

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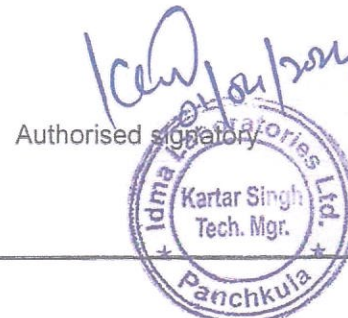
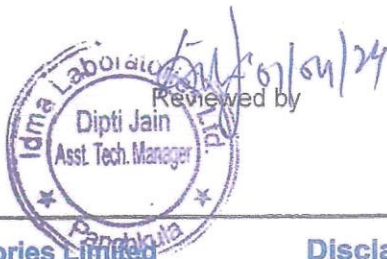
Lab No.	260324L-ED-043			Page No. 1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir			
Type of Sample#	Waste Water			
Customer's Description of Sample#	Waste Water			
Quantity#	5 Ltr			
Packing, Markings#	Plastic can			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 01/04/2024			
Sampling Team	Idma Representative Team	Client	Mr Tanveer Azad	
Sampling Location#	Anpurna Sewerbati			
Visual Observation	N/A			
Date of Sampling	21/03/2024			
Date of Reporting	01/04/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.37	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	72	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand	mg/L	16	Max 30	IS 3025 (Part 44) BOD 3-days at 27 °C
4	Oil & Grease	mg/L	3.8	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	374	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	41	Max 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

ULR : TC820724700001440F

Lab No.	010424L-FD-028	Page No. 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#	Drinking Water (RO)	
Customer's Description of Sample#	Drinking Water (RO)	
Quantity#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Annapurna-Dangduroo	
Mode of Collection of Sample	Sample Collected By Idma Lab Person	
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	01/04/2024	
Period of Analysis	01/04/2024 To 08/04/2024	
Visual Observation	N/A	
Date of Reporting	08/04/2024	
Testing Protocol	IS 10500:2012 Amdt 1 to 4	

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	--	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.05	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	67.3	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.0008	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	24.3	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	13.8	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	78.8	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by

08/04/2024

Authorised signatory

Idma Laboratories Limited
Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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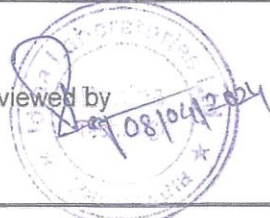


TEST REPORT

ULR : TC820724700001440F

Lab No.		010424L-FD-028				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Nitrate (as NO ₃)	mg/L	BLQ (LOQ-1.0)	Max. 45	No Relaxation	IS 3025 (Part 34) :1988
12	Total Dissolved Solids	mg/L	115	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
13	Sulphate (as SO ₄)	mg/L	5.4	Max. 200	Max. 400	IS 3025 (Part 24) :1986
14	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
16	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
17	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
18	Copper (as Cu)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
19	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
20	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
21	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
22	Zinc (as Zn)	mg/L	BLQ (LOQ-0.0005)	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
23	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
24	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003

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TEST REPORT

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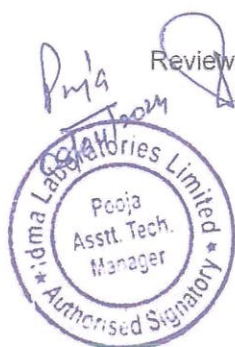
Lab No.		010424L-FD-028				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
26	Magnesium (as Mg)	mg/L	4.4	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
28	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
29	Sodium as Na	mg/L	4.8	-	-	IS 3025 (Part-45): 1993
30	Potassium as K	mg/L	1.6	-	-	IS 3025 (Part-45): 1993
	Biological Testing (Water)	--	-	--	--	--
31	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

Opinion :

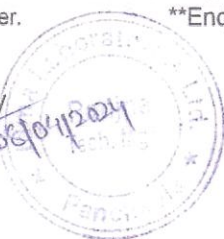
Remark: The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ : Below limit of quantification, LOQ :limit of quantification

Represents details provided by the customer.

End of Report



Reviewed by



Idma Laboratories Limited

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TEST REPORT

ULR : TC820724700001439F

Lab No.	010424L-FD-029			Page No. 1/3	
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#	Drinking Water (RO)				
Customer's Description of Sample#	Drinking Water (RO)				
Quantity#	5 Ltr.				
Packing, Markings, Seal & Quantity#	Plastic Can, Loc-Annapurna-Pinjrari				
Mode of Collection of Sample	Sample Collected By Idma Lab Person				
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample	01/04/2024				
Period of Analysis	01/04/2024 To 08/04/2024				
Visual Observation	N/A				
Date of Reporting	08/04/2024				
Testing Protocol	IS 10500:2012 Amdt 1 to 4				

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	--	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.45	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO ₃)	mg/L	55.1	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.0007	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	25.9	Max. 75	Max. 200	IS 3025 (Part 40) :1991
7	Chloride (as Cl)	mg/L	14.3	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO ₃)	mg/L	88.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by

Authorised Signatory

Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

ULR : TC820724700001439F

Lab No.		010424L-FD-029				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Nitrate (as NO ₃)	mg/L	BLQ (LOQ-1.0)	Max. 45	No Relaxation	IS 3025 (Part 34) :1988
12	Total Dissolved Solids	mg/L	131	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
13	Sulphate (as SO ₄)	mg/L	5.3	Max. 200	Max. 400	IS 3025 (Part 24) :1986
14	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
16	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
	METALS:	-	-	-	-	-
17	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
18	Copper (as Cu)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
19	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
20	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
21	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
22	Zinc (as Zn)	mg/L	BLQ (LOQ-0.0005)	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
23	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
24	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003

Reviewed by

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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TEST REPORT

ULR : TC820724700001439F

Lab No.		010424L-FD-029				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
26	Magnesium (as Mg)	mg/L	5.7	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
28	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
29	Sodium as Na	mg/L	5.0	-	-	IS 3025 (Part-45): 1993
30	Potassium as K	mg/L	1.8	-	-	IS 3025 (Part-45): 1993
	Biological Testing (Water)	--	-	--	--	--
31	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
32	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

Opinion :

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

Represents details provided by the customer:

End of Report



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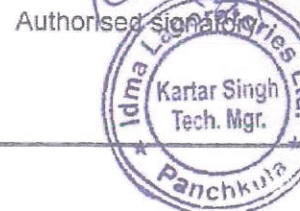
TC-8207

TEST REPORT

Lab No.	260324L-ED-033/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.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 30/03/2024	
Sampling Team	Idma Representative Team	Client Mr Tanveer Azad
Sampling Location#	Power Intake Gate Shaft	
Visual Observation	N/A	
Date of Sampling	21/03/2024	
Date of Reporting	30/03/2024	
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013	
Testing Protocol	NAAQS	

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m³	74.6	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m³	32.7	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m³	16.4	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m³	18.6	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m³	17.2	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m³	20.6	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m³	<8	Max. 20	EPA/625/R-96/010a



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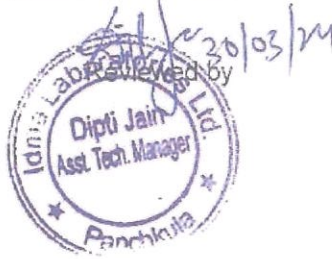
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**TEST REPORT**

Lab No.		260324L-ED-033/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m³	<1	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

End of Report



Authorised signatory

**Idma Laboratories Limited**

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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-033/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.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023
Date of Receipt of Sample	26/03/2024		
Period of Analysis	26/03/2024 To 30/03/2024		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Azad
Sampling Location#	Power Intake Gate Shaft		
Visual Observation	N/A		
Date of Sampling	21/03/2024		
Date of Reporting	30/03/2024		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m ³	0.43	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.08	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

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Idma Laboratories Limited

TC-8207

TEST REPORT

Lab No.	260324L-ED-034/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.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 30/04/2024				
Sampling Team	Idma Representative Team	Client	Mr Tanveer Azad		
Sampling Location#	Batching Plant Area				
Visual Observation	N/A				
Date of Sampling	21/03/2024				
Date of Reporting	30/04/2024				
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013				
Testing Protocol	NAAQS				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m³	77.9	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m³	35.4	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m³	17.6	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m³	16.2	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m³	19.4	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m³	21.3	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m³	<8	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m³	<1	Max. 20	EPA/625/R-96/010a



Authorised Signature



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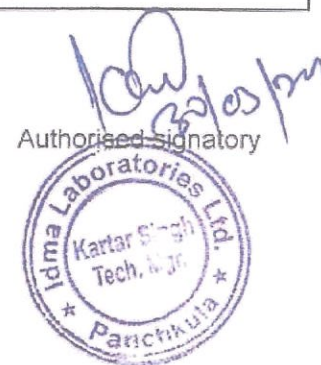
TC-8207

TEST REPORT

Lab No.		260324L-ED-034/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m ³	0.12	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

End of Report



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TEST REPORT

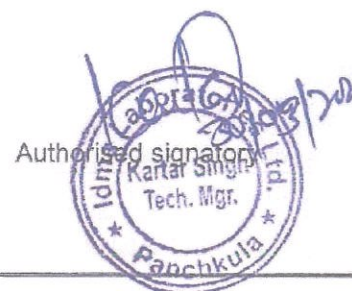
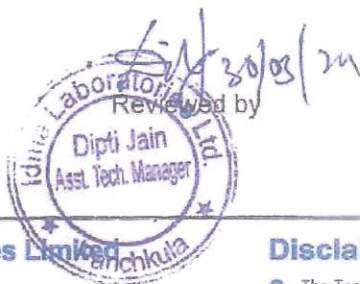
Lab No.	260324L-ED-034/B			Page No. 1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 30/04/2024			
Sampling Team	Idma Representative Team	Client	Mr Tanveer Azad	
Sampling Location#	Batching Plant Area			
Visual Observation	N/A			
Date of Sampling	21/03/2024			
Date of Reporting	30/04/2024			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m ³	0.38	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.14	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



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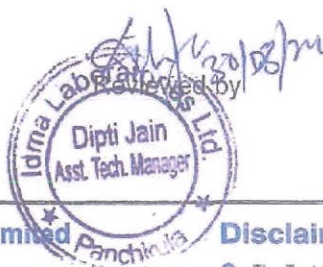
TC-8207

TEST REPORT

Lab No.	260324L-ED-035/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.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 30/03/2024				
Sampling Team	Idma Representative Team	Client	Mr Tanveer Azad		
Sampling Location#	HRT Portal				
Visual Observation	N/A				
Date of Sampling	21/03/2024				
Date of Reporting	30/03/2024				
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013				
Testing Protocol	NAAQS				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m ³	78.1	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	39.5	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	14.6	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	16.3	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	21.6	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



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Idma Laboratories Limited

TC-8207

TEST REPORT

Lab No.		260324L-ED-035/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



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Idma Laboratories Limited

TEST REPORT

Lab No.	260324L-ED-035/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.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023
Date of Receipt of Sample	26/03/2024		
Period of Analysis	26/03/2024 To 30/03/2024		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Azad
Sampling Location#	HRT Portal		
Visual Observation	N/A		
Date of Sampling	21/03/2024		
Date of Reporting	30/03/2024		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m ³	0.46	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

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Tel No. 0172 - 5064827, - 5064830
Website : www.idmagroup.co.in
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TEST REPORT

Lab No.	260324L-ED-036			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.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023	
Date of Receipt of Sample	26/03/2024			
Period of Analysis	26/03/2024 To 30/03/2024			
Sampling Team	Idma Representative Team	Client	Mr Tanveer Azad	
Sampling Location#	Power Intake Gate Shaft			
Visual Observation	N/A			
Date of Sampling	21/03/2024			
Date of Reporting	30/03/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB PROTOCOL July 2015			

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	66.8	Max 70	CPCB PROTOCOL July 2015.

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End of Report



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TEST REPORT

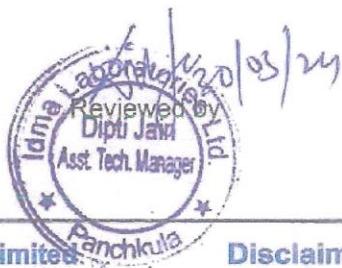
Lab No.	260324L-ED-037	Page No. 1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir	
Type of Sample#	Noise Level (Ambient)	
Customer's Description of Sample#	Noise Level (Ambient)	
Quantity#	1 No	
Packaging, Markings#	Instrument at Site	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated 01/04/2023
Date of Receipt of Sample	26/03/2024	
Period of Analysis	26/03/2024 To 30/03/2024	
Sampling Team	Idma Representative Team	Client Mr Tanveer Azad
Sampling Location#	Batching Plant (Sewerbati)	
Visual Observation	N/A	
Date of Sampling	21/03/2024	
Date of Reporting	30/03/2024	
Sampling Protocol	CPCB PROTOCOL:2015	
Testing Protocol	CPCB PROTOCOL July 2015	

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	68.8	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	62.6	Max 70	CPCB PROTOCOL July 2015.

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TEST REPORT

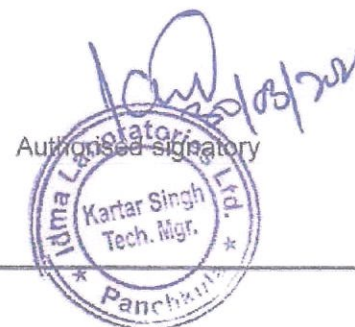
Lab No.	260324L-ED-038	Page No.	1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir		
Type of Sample#	Noise Level (Ambient)		
Customer's Description of Sample#	Noise Level (Ambient)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023
Date of Receipt of Sample	26/03/2024		
Period of Analysis	26/03/2024 To 30/03/2024		
Sampling Team	Idma Representative Team	Client	Mr Tanveer Azad
Sampling Location#	HRT Portal		
Visual Observation	N/A		
Date of Sampling	21/03/2024		
Date of Reporting	30/03/2024		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB PROTOCOL July 2015		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	73.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	69.8	Max 70	CPCB PROTOCOL July 2015.

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TEST REPORT

Lab No.	260324L-ED-039			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 (SW-A)				
Mode of Collection of Sample	Sampling by Laboratories				
Work Order No.#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample	26/03/2024				
Period of Analysis	26/03/2024 To 30/03/2024				
Sampling Team Idma	Idma Representative Team	Client	Mr Tanveer Azad		
Sampling Location#	Maru Mudan River				
Visual Observation	N/A				
Date of Sampling	21/03/2024				
Date of Reporting	30/03/2024				
Sampling Protocol	IS:17614 (PART-1):2021				
Testing Protocol	-				

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.31	IS 3025 (Part 11)
2	Alkalinity as CaCO ₃	mg/L	118	IS 3025 (Part 23)
3	Chloride as Cl	mg/L	20.9	IS 3025 (Part 32)
4	Hardness Total (as CaCO ₃)	mg/L	91	IS 3025 (Part 21)
5	Oil & Grease	mg/L	<2.5	IS 3025 (Part 39)
6	Total Dissolved Solids	mg/L	188	IS 3025 (Part 16)
7	Sulphate as SO ₄	mg/L	7.6	IS 3025 (Part 24)
8	Iron as Fe	mg/L	0.002	IS 3025 (Part 53)
9	Lead as Pb	mg/L	<0.0005	IS 3025 (Part 47)



Authorised signatory



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**TEST REPORT**

Lab No.		260324L-ED-039			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods	
	Biological Testing (Water)	--	-	--	
10	F. coliform	MPN/100ml	84	IS 1622:1981	
11	E. coli	MPN/100ml	58	IS 1622:1981	
12	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)	
13	Chemical Oxygen Demand	mg/L	<4	IS 3025 (Part 58)	

Opinion :

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End of Report

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