

चिनाब वैली पावर प्रोजेक्ट्स 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 Limited

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

सीआईएन / CIN: U40105JK2011GOI003321

Pakal Dul HE Project

महाप्रबंधक (प्रभारी)
General Manager (I/c)

परियोजना प्रमुख
Head of Project

No. CVPP/PDHEP/GM (I/c)/2025/758

Dated: 26.05.2025

**Dy. Inspector General of Forests,
Ministry of Environment, Forests and Climate Change,
Sub-Regional Office, Jammu,
Plot no.379-A, Gandhi Nagar
Jammu (J&K)-180004.**

E-mail: env.irojk-mefcc@gov.in; paranjay.s@nic.in; iro.jammu-mefcc@gov.in

Sub: Pakal Dul HE Project (1000 MW) in District Kishtwar, J&K – Submission of Environment Clearance Compliance Report (ECCR) for the period from October, 2024 to March, 2025.

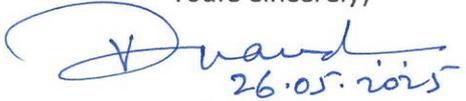
Ref: Environmental Clearance granted to the Project vide letter no. J-12011/51/2007-IA dated 29.02.2008 and transferred in favor of CVPPL vide no. J-12011/51/2007-IA dated 12.07.2012.

Sir,

The Six Monthly Environment Clearance Compliance Report (ECCR) in respect of Pakal Dul HE Project for the period October, 2024 to March, 2025 is being enclosed herewith for your kind information.

Thanking you,

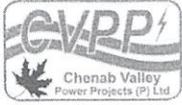
Yours sincerely,


26.05.2025
(Vishal Anand)
General Manager (I/c) HOP
Pakal Dul HE Project

Encls. As above (188 pages)

CC:

1. Director, Impact Assessment Division-1, MoEF&CC, Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi- 110003.
Email: yogendra78@nic.in
2. Dy. Director General of Forests, MoEF&CC, Bays No. 24-25, Sector-31, Dakshin Marg, Chandigarh-160030.
Email: ronz.chd-mef@nic.in
3. Group General Manager, Planning Division: CVPPPL, CO, Jammu.
4. General Manager (HR/Env.), Pakal Dul HE Project, Kishtwar.



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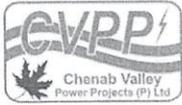
Ph No.01995-295192
Fax No. 01995-295192

ANNEXURE-I

Six Monthly EC Compliance Report of Pakal Dul HE Project (1000 MW)
(October, 2024 to March, 2025)

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>

7/11/2025
M/S (End)



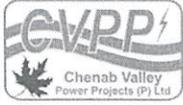
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4	Locations (a) District (s) (b) State/UT (c) Latitude (d) Longitude	(a) Kishtwar (b) Jammu and Kashmir (c) 33°27'30"N (d) 75°48'50"E																										
5	Address for Correspondence (a) Address of concerned Project Head (with Pin code, Telephone/Fax no.) (b) Address of concerned HOD in Corporate Office (with Pin code, Telephone/Fax no.)	(a) General Manger (I/c), Pakal Dul HE Project, CVPP 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 Ltd, Chenab Jal Shakti Bhawan, Opposite Saraswati Dham, Rail Head Complex, Panama Chowk, Jammu- 180012, J&K Phone/Fax: 0191 2475516/ 2479835																										
6	Detail of Environmental Management Plan	Environmental Management Plans to be implemented at the Project are: <table border="1" data-bbox="762 1099 1433 1626"> <thead> <tr> <th>S. No.</th> <th>EMP</th> </tr> </thead> <tbody> <tr><td>1.</td><td>Biodiversity Conservation Plan</td></tr> <tr><td>2.</td><td>Catchment Area Treatment</td></tr> <tr><td>3.</td><td>Fisheries Development</td></tr> <tr><td>4.</td><td>Public Health Delivery 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> </tbody> </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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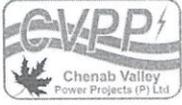
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8	Breakup of Project affected population with enumerations of those losing house/dwelling units only, agriculture land only, both house and agriculture land and landless labours/artisans. (a) SC/ST/Adivasis (b) Others	No of affected villages: - 6 Displaced 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: 12727.76 Cr (2024 PL) (b) Actual expenditure: Rs.6156.73 Crs (till 31st March 2025) (c) Allocations for EMP: 330.32 Crs. (d) Actual expenditure incurred on EMP: Expenditure incurred by CVPPPL on EMP and other related activities as on date: <table border="1" data-bbox="762 1115 1423 1581"> <thead> <tr> <th>S.No</th> <th>Component</th> <th>Exp. (Rs. In Cr)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Forest and wild life Land Diversion</td> <td>207.649</td> </tr> <tr> <td>2</td> <td>Fund for Wildlife Management including corpus fund</td> <td>236.0</td> </tr> <tr> <td>3.</td> <td>Fisheries Development Plan</td> <td>3.89</td> </tr> <tr> <td>4.</td> <td>Biodiversity Management Plan</td> <td>17.96</td> </tr> <tr> <td>5.</td> <td>Implementation of R&R plan</td> <td>74.09</td> </tr> <tr> <td>6.</td> <td>Disaster Management Plan/Early Warning System</td> <td>0.87</td> </tr> <tr> <td>7.</td> <td>CAT Plan</td> <td>44.465</td> </tr> <tr> <td>8</td> <td>Public Health Delivery System</td> <td>0.31</td> </tr> <tr> <td colspan="2" style="text-align: right;">Total</td> <td>585.234</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	17.96	5.	Implementation of R&R plan	74.09	6.	Disaster Management Plan/Early Warning System	0.87	7.	CAT Plan	44.465	8	Public Health Delivery System	0.31	Total		585.234
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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.

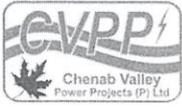
Requisite amount of Rs 7613899/- deposited with J&K State Forest department on 15.05.2018.

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 of diversion through Parivesh Portal.

7/11/20



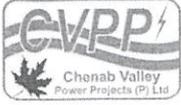
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	(b) The status of clear felling of trees in Forest Land	(b) Clear felling status: The requisite amount of Rs 4.31413 Cr towards cost for extraction of trees has been deposited with J&K State Forest Corporation. The work of tree felling and extraction 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): July 2026
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 01
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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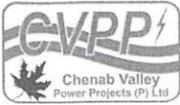


ANNEXURE-II

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>The cost provision for CAT Plan as approved by MoEF&CC was Rs. 21.33 Crs which was revised in CCEA approval (Investment Approval by Gol to Rs. 36.38 Crs.) 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>MoEF&CC, vide letter dated 10.01.2024, conveyed the permission of the competent authority to deposit the amount in National CAMPA through Draft/NEFT/RTGS (ANNEXURE-I). Accordingly, the compensatory levies on account of CAT Plan amounting to Rs. 44.465 Crs. was deposited by the Project, in the Bank Account of J&K National CAMPA, through NEFT on 29.01.2024. (ANNEXURE-II).</p> <p>The plan is under process of implementation through Soil & Water Conservation Department, GoJK. The implementation aspects of CAT Plan are being monitored at highest level in J&K Forest Department. In this regard, PCCF & HoFF, GoJK chaired a meeting on 11.12.2024, wherein CAT Plan of PDHEP was discussed threadbare and various decisions for implementation of the said plan were taken. The MoM of the said meeting are enclosed as (ANNEXURE- III).</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</p>

Jal Singh
Mgr. Env.



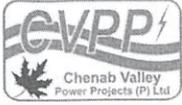
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		<p>PAFs of different HE projects in J&K. The recommendations of MOEFCC for considering non-displaced PAFs with more than 70% of total land holdings as displaced PAFs has not been approved by the State Government for any of the HE Project so far. 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. The Project had deposited an amount of Rs. 74.09 Cr. with Commissioner R&R (Deputy Commissioner, Kishtwar) out of which 64.69 Cr. has been utilized by Commissioner R&R for implementation of approved R&R Plan of the Project (ANNEXURE- IV).</p>
iii	<p>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>	<p>Complied</p> <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.</p> <p>A Monitoring Committee for R&R has been constituted by Commissioner, Rehabilitation and Resettlement and includes representatives of project affected persons from SC/ST category and a woman beneficiary.</p>
iv	<p>The commitment made during the public hearing should be fulfilled.</p>	<p>Being complied.</p> <p>The commitments made during the public hearing are being fulfilled through various plans which mainly include Rehabilitation and Resettlement Plan, Local area Development plan of R&R for development and strengthen of local area infrastructure. Moreover, as committed during Public Hearing, various Environmental Management Plans are also under implementation which include Wildlife Mitigation Plan, Biodiversity Management Plan, Catchment Area Treatment Plan, Fisheries Development Plan.</p>
v	<p>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</p>	<p>Being complied.</p> <p>All such machinery is 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 (ANNEXURE- V).</p>

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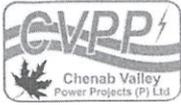
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vi	Consolidation and compilation of the muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan for 70.85 lakh cum of muck disposal i.e. about 34 lakh cum is proposed to be utilized 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. For the said period, out of excavated muck, useable muck was utilised to a maximum extent at Project and the rest of muck was disposed at designated muck disposal sites only. The details are as under: Total Muck Generated: 543020.26 Cum Total Muck Utilised: 347114.57 Cum Total Muck Disposed at Dumping Sites: 204637.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 (ANNEXURE- VI).
viii	The following conditions imposed by the Standing Committee of National Board for Wildlife (NBWL) while recommending the proposal for de-notification of KHANP area, shall be strictly complied:	
	(a) Provisions proposed for the habitat improvement in the Mitigation Plan should be discussed with Wildlife Institute(WII), Dehradun and be modified accordingly.	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.

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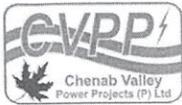
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	(c)NHPC would provide a total of Rs.236 Crs including Rs.100 Crs. for the corpus fund for the protected area for the conservation of the wildlife.	<p>c) Complied</p> <p>Final forest clearance for 195.9619 Ha land (i.e. 188.7619 ha of KHANP land and 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.</p> <p>The wildlife Mitigation plan is under implementation and is being implemented by Wildlife Department, GoJK and Rs. 20.82 Cr has been utilized for the same till 31.03.2025 by the J&K Wildlife Department. (ANNEXURE- VII).</p>
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.	<p>Being complied.</p> <p>The tree cutting along the FRL is being done only in the area required for the project construction works.</p> <p>The process for creation of greenbelt shall be initiated at the appropriate time.</p>
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.	<p>Being complied.</p> <p>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.</p> <p>The expenditure incurred by all contractors on account of Free Fuel Arrangements for the period October 2024 to March 2025 is Rs. 36,84,832.50/-</p>
ii	Fuel depot's maybe opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as drinking water & recreational facilities should also be provided to the laborers.	<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>



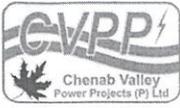
A Joint Venture of NHPC (A Govt of India Enterprise) & JKSPDC (A Govt of J&K Enterprise)

Chenab Valley Power Projects Ltd.

Pakal Dul Hydro Electric Project
Chenab Nagar – II, Kishtwar, (J&K) –182206
CIN NO. U40105JK2011GOI003321

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

		<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">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 for the period October 2024 to March 2025 Rs. 36,20,716.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 October 2024 to March 2025 is Rs. 15,01,317.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 expenditure incurred for the period October 2024 to March 2025 is Rs.2,99,013.Two no. of Ambulances have been purchased by Pakal Dul HEP and shall shortly be handed over to District Administration, Kishtwar under Public Health Delivery System Plan of EMP (ANNEXURE- VIII.)
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	Shall be complied. After completion of dumping and quarrying



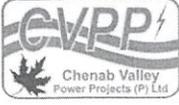
Chenab Valley Power Projects Ltd.
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Chenab Nagar – II, Kishtwar, (J&K) –182206
CIN NO. U40105JK2011GOI003321

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Fax No. 01995-295192

	be ensured by leveling, filling up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.	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- V) .
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.
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.

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

Pakal Dul Hydro Electric Project
Chenab Nagar – II, Kishtwar, (J&K) –182206
CIN NO. U40105JK2011GOI003321

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

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.

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ANNEXURE-I

F.No. NA-1/2/2022-NA
Government of India
Ministry of Environment, Forest and Climate change
National Compensatory Afforestation Fund Management and Planning Authority
E-mail: adhoc-campa-mef@nic.in

Hall No. 1, 4th Floor,
Block No. 3, CGO Complex
Lodhi Road, New Delhi-110003
Dated the 10th January, 2024

To,
Group Senior Manager (Inv.),
Chenab Valley Power Projects Limited
Chenab Bhawan, Rail Head Complex
Jammu-180012

Sub: Deposition of compensatory levies on account of Catchment Area Treatment Plan of Pakal Dul Hydro Electric Project of Chenab Valley Power Projects Limited in J&K.

Sir,

With reference to your letter no. CVPPL/Camp-MoEF&CC dated 10th January, 2024 regarding deposition of compensatory levies on account of Catchment Area Treatment Plan of Pakal Dul Hydro Electric Project of Chenab Valley Power Projects Limited in Jammu and Kashmir. Since, no record of proposal of Forest Clearance for the project is available on Parivesh portal, therefore payment cannot be made via Parivesh. Further, forest clearance to Pakal Dul Hydro Electric Project was granted by J&K Forest Department in 2015-2016 under J&K Forest (Conservation) Act, 1997, wherein there was no requirement to upload the Forest Clearance proposal on Parivesh Portal.

2. In view of the above, permission of the Competent Authority is hereby granted to deposit compensatory levies on account of Catchment Area Treatment Plan of Pakal Dul Hydro Electric Project in J&K to the tune of Rs. 44.465 Crore in the National CAMPA through Draft/NEFT/RTGS. The details of bank account of Jammu and Kashmir are given below:

Beneficiary Name	
Account No.	CAF Jammu & Kashmir
IFSC code	520101263743541
Branch/ Address	UBIN0903710 Block 11, Ground Floor, CGO Complex, phase I Lodhi Road, New Delhi 110003

Yours faithfully,



(V.L. Roui Kullai,
Dy. Chief Executive Officer
National Authority

Copy to :

1. The IGF, Forest Conservation Division, MoEF&CC
2. The Principal Chief Conservator of Forests & HoFF, Govt of Jammu & Kashmir
3. The PCCF & CEO CAMPA, Jammu & Kashmir Forest Department,
4. The Nodal Officer, Forest Conservation, J&K Forest Department

ANNEXURE-II

File No. NA- 1/2/2022--NA
 Government of India
 Ministry of Environment Forest and Climate Change
 National Compensatory Afforestation Fund Management & Planning Authority
 Email:-adhoc-campa-mcf@nic.in

Hall No. 1, 4th Floor
 Block No.3, CGO Complex
 Lodhi Road, New Delhi-110003
 Dated: 23rd February, 2024

To,
 The Nodal Officer-cum-APCCF (FCA)
 O/o Pr. CCF, Government of Jammu & Kashmir
 Forest Department

Sub: Deposition of compensatory levies on account of Catchment Area Treatment (CAT) Plan of Pakal Dul HEP of Chenab Valley Power Projects Limited-reg.

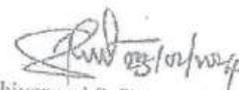
Sir,

The undersigned is directed to refer to the GSM (Env.), Chenab Valley Power Projects (CVPP), MD Secretariat's letter no. CVPP/Plg/2024/213 dated 14th February, 2024 on the subject mentioned above and to confirm the receipt of compensatory levies of remittance of Rs. 44,46,50,000/- crore in saving account number 520101263743541 maintained in the name of "Compensatory Afforestation Fund - Jammu & Kashmir" in Corporation Bank (Now Union Bank of India), Lodhi Complex, New Delhi-110003.

2. The details with Amount, UTR no. and date of remittance is mentioned below:-

Details furnished in the letter		Date	Details as per Bank		Date	Stat us
Amount	UTR		Amount	UTR		
9,00,00,000	SBIN524029752936	29.01.2024	9,00,00,000	SBIN524029752936	29.01.2024	confi rm
9,00,00,000	SBIN524029714118	29.01.2024	9,00,00,000	SBIN524029714118	29.01.2024	confi rm
9,00,00,000	SBIN524029739518	29.01.2024	9,00,00,000	SBIN524029739518	29.01.2024	confi rm
9,00,00,000	SBIN524029725817	29.01.2024	9,00,00,000	SBIN524029725817	29.01.2024	confi rm
8,46,50,000	SBIN524029697809	29.01.2024	8,46,50,000	SBIN524029697809	29.01.2024	confi rm

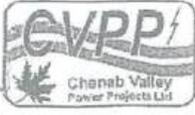
3. This issues with the approval of the competent authority.


 (Shivanand S. Talawar)
 Assistant Inspector General of Forests
 National Authority

Copy to:-

- (i) The IGF, Forest Conservation Division, MoEF&CC.
- (ii) The PCCF&CEO CAMPA, Jammu and Kashmir Forest Department.
- (iii) Deputy Director General of Forests (C), Jammu and Kashmir Forest Department.
- (iv) Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jammu (WDP) Complex, Gladin Narwal, Near J&K Pollution Control Board, Jammu-180006.
- (v) The Nodal Officer, Forest Conservation, J&K Forest Department.
- (vi) The GSM (Env.), Chenab Valley Power Projects (CVPP), MD Secretariat for information.
- (vii) The Branch Manager, Corporation Bank (Now Union Bank of India), Lodhi Complex, New Delhi-3 for information.

ANNEXURE-III



चिनाब वैली पावर प्रोजेक्ट्स 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 Limited
A Joint Venture of NHPC Ltd. (A Govt. of India Enterprise) & JKSPDC (A Govt. of J&K Enterprise)
सीआईएन / CIN: U40105JK2011GOI003321

Pakal Dul HE Project

महाप्रबंधक (प्रभारी)
General Manager (I/c)

परियोजना प्रमुख
Head of Project

No. CVPP/PDHEP/GM (I/C)/2025/02

Dated: 02.01.2025

Conservator of Forests,
Chenab Circle, Doda, J&K.

Sub.: Nomination of committee member from user agency - regarding monitoring of implementation of CAT Plan of Pakal Dul HEP.

Ref: Minutes of Meeting (MoM) No: PCCF/FCA/265-II/5132-38 dated 11.12.2024. (Copy enclosed)

Sir,

Vide the above referred MoM, the user agency i.e. Pakal Dul HE project (CVPPL) was to nominate a suitable officer in the monitoring team to oversee the progress of the implementation of CAT Plan of Pakal Dul HE Project. Accordingly, the Project has nominated a suitable officer, whose details are provided as under:

Name: Sh. Naseer Ahmad Ganai
Designation: Manager (Environment), Pakal Dul HEP
e-mail: naseer08@rediffmail.com
Mobile: 7006539542

This is for your reference and records please.

Thanking You,

Yours Sincerely,

(Vishal Anand)

General Manager (I/c) HoP
Pakal Dul HE Project

CC:

1. Group General Manager (Planning), CO, CVPPL, Jammu: for information please.
2. General Manager (HR/Env), PDHEP, Kishtwar: for information please.

STG (PR)
Manager (Env.) / ac
3/1/25

mail sent on 02.01.2025

deposited by the user agency and Administrative Approval to the CAT Plan by user agency has been conveyed. A monitoring team as per CAT Plan should comprise of DFO Kishtwar, DSCO Doda, one expert member, one officials from User agency and headed by CF Chenab.

After thorough discussion in the said meeting, the following decisions were taken to implement the CAT Plan for Pakul Dal Hydro Electric Project.

- i. The proposed Catchment Area Treatment (CAT) plan of Pakul Dal Hydro Electric Project is approved by the committee.
- ii. No new Daily Rated Workers should be engaged for execution of this project. Those who were already working in the divisions shall be engaged / redeployed in this project.
- iii. Soil and moisture conservation structures needs to be constructed as per CAT plan but as per the requirement of the site it should be done on both banks of the river/nalla instead of all structures on the nalla/river itself.
- iv. The structures should be distributed as per slope angle in such a way that they are able to conserve the soil and arrest erosion to a large extent however the main stream flow shall not be affected by these structures. The native species and grasses should be used in afforestation of the catchment area in between structures.
- v. No overlapping of works by the Soil & Water Conservation Department and Forest Department in that catchment should be allowed and it should be continuously monitored by the CF, Chenab.
- vi. The user agency (Chenab Valley Power Projects Limited) shall nominate a suitable officer in the monitoring team to oversee the progress of the project.
- vii. Adequate care should be taken to include more of fodder species in the afforestation programmes.
- viii. Adequate provisions for transport/conveyance of the execution team and monitoring team shall be made.
- ix. Savings in the works may be used against meeting cost escalation of the project in addition to the provisions already kept for.

ANNEXURE-IV



Government of Jammu and Kashmir,
Department of Disaster Management, Relief,
Rehabilitation and Reconstruction -
Civil Secretariat Jammu

**Subject: - Rehabilitation and Resettlement Plan for 1000 MW Pakal Dul
Hydro Electric Project Kishtwar, J&K.**

Ref: - Cabinet decision No: 17/02/2017 dated: 13.02.2017

Government Order No: 12 -DMRR&R of 2017
D a t e d: 12.02.2017

"Sanction is hereby accorded to the

- i. The lump sum cost for land and house construction as provided in the KGHEP as Rs.7 lacs as cost of house construction and Rs.5 lacs as cost of ten marlas of land per Project affected Family (PAF) plus 50% enhancement over Rs.12 lacs totaling to Rs.18 lacs per displaced family and the total provision under this head shall be Rs. 1872 lacs.
- ii. The payment of stamp duty to PAFs losing land, on purchase of land by the PAF to the extent of actual land loss, with total cost provision of Rs. 190 lakh.
- iii. Subject to eligibility of all the displaced PAF having cattle, each family that is displaced and has cattle, shall get financial assistance of Rs. 25,000/- for construction of cattle Shed.
- iv. Each displaced PAF shall get financial assistance of Rs.35, 000/- towards transportation cost for shifting of building materials, belongings, cattle, etc from the affected zone to the resettlement area.
- v. a) Subject to eligibility each PAF losing shop (and water mill) shall be given financial Assistance of Rs. 40,000/- per PAF for construction of shops.
b) Subject to eligibility each PAF comprising of rural artisans/small traders and self-employed persons shall be provided assistance of Rs. 40,000/- per PAF for construction of work sheds/shops.
- vi. Scholarship of Rs 1000 per month for a period of 24 months would be extended to a maximum of two children per PAF (Rs 1000/- per month x 2 x PAFs for 24 months). An additional 10 percent amount of the above scholarship provision as

top up shall be provided to physically challenged and female students with the cap of two children per PAF.

- vii. a) Cost for skill development training facilities @ Rs. 2000/- per month per PAF for 12 months for all 760 PAFs with total cost of Rs. 182.40 lakh under this component with the conditions that efforts be made to cover all the families.
b) The organization of these training programmes by CVPP in consultation with DC Kishtwar through ITI or other institutions with the condition that efforts be made to cover all the families.
- viii. Cost of Rs. 1140 lakh for all PAFs @ 750 days Minimum Agriculture Wages per PAF (Rs. 200 per MAW).
- ix. Each displaced PAF shall get a monthly subsistence allowance equivalent to 25 days of MAW per month for a period of one year.
- x. Enhancement in the provision for purchase of annuity policy from Rs 35.00 lakh to Rs 2330.16 lakh for annuity policy paying monthly pension for life to vulnerable affected persons @ Rs. 2000/- per month.
- xi. Each scheduled tribe affected family shall get additional one-time financial assistance equivalent to 500 days of Minimum Agricultural Wages (Rs 200 per day) for loss of customary rights and forest usage.
- xii. a) Rs. (2500.00+1500.00) total 4000.00 lakh has been approved to be provided for development of local infrastructure in the affected area. The composite plan shall be finalized by the Deputy Commissioner and get approved by the concerned Relief and Rehabilitation Department.
b) The Committee felt that it would be reasonable to confine the local area limit up to Tehsil headquarter only i.e. within 25 kilometers of the affected area.
- xiii. The provision of monitoring and evaluation with a total cost of Rs. 395.83 lakh.
- xiv. The Transit accommodation allowance of Rs. 2500.00 per displaced PAF per month for a period of 12 months approved subject to scrutiny of the requirement of shifting of displaced families if any, and subject to further verification of entitlement.

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xv. As per Clause 7.5(a) of NRRP 2007 Fishing Rights in the reservoir shall be given to the affected families, if such rights were enjoyed by them in the affected area. In other cases also, unless there are special reasons, fishing rights shall be given preferentially to the affected families.

xvi. As one time assistance for seeds and fertilizer per Kanal at the costs of Rs. 2811, Rs 5640, Rs 2215, and Rs 6084 in all the four circles i.e. Lopara-A, Sander-C Dool and Kwar Tangi respectively against the acquired agricultural land only which shall be strictly as per the final awards of the acquired land.

By order of the Government Jammu and Kashmir

Sd/
(B.B. Vyas) IAS
Financial Commissioner
Department of Disaster Management,
Relief, Rehabilitation and Reconstruction

No: R&R/Rehab/21/2016

Dated: 22.02.2017

Copy to the:-

1. Financial Commissioner, Planning Development and Monitoring Department.
2. Financial Commissioner, Revenue, J&K Jammu.
3. Principal Secretary to Hon'ble Chief Minister, J&K.
4. Commissioner/Secretary to Government, Power Development Department.
5. Divisional Commissioner, Jammu.
6. Commissioner/Secretary to Government, Public Works (R&B) Department.
7. Commissioner/Secretary to Government, Housing and Urban Development Department.
8. Commissioner Secretary to Government, Forest Department.
9. Commissioner/Secretary to Government, Revenue Department.
10. Commissioner/Secretary to Government, General Administration Department.
11. Secretary to Government PHE, I&FC Department.
12. Managing Director, J&K State Power Development Corporation.
13. Deputy Commissioner, Kishtwar.
14. Chief Engineer, M&RE Wing, Jammu.
15. Director Archives, Archaeology and Museums, J&K Jammu.
16. OSD to Hon'ble Minister for Department of Disaster Management, Relief, Rehabilitation and Reconstruction for information.
17. Private Secretary to Hon'ble Minister of State of Department of Disaster Management, Relief, Rehabilitation and Reconstruction for information.
18. Private Secretary to the Chief Secretary, J&K.
19. Private Secretary to Financial Commissioner, Department of Disaster Management, Relief, Rehabilitation and Reconstruction.
20. Government order file/Stock file.

Bansi Lal Sharma
(Bansi Lal Sharma)
Under Secretary to Government,
Department of Disaster Management,
Relief, Rehabilitation and Reconstruction



56

GOVERNMENT OF JAMMU AND KASHMIR
DEPARTMENT OF DISASTER MANAGEMENT, RELIEF, REHABILITATION & RECONSTRUCTION
J&K Civil Secretariat, Jammu.

Subj:

- (a) Rehabilitation and Resettlement Plan for 624 MW Keeru Hydro Electric Project, District Kishtwar, J&K.
- (b) Revision of Resettlement & Rehabilitation Plan of 1000 MW Pakal Dul Hydro Electric Project, District Kishtwar, J&K.

Ref: State Administrative Council Decision No. 72/7/2019 dated:- 28.02.2019

Government Order No:- 11 -DMRR&R of 2019
D a t e d :- 07 -03.2019

"Sanction is hereby accorded for:-

a. Rehabilitation and Resettlement Plan for 624 MW Keeru Hydro Electric Project (HEP), District Kishtwar, J&K to the:-

- i. "The lump sum cost for land and construction of house in line with the approved R&R Plan for Kishanganga HEP and as per the recommendation of the Empowered Committee", Rs. 12.00 lakh as cost of house construction & Rs. 10.00 lakh as cost of 1 Kanai land per Project Affected family (PAF) plus 50% enhancement over Rs.22.00 lakh loss totaling to Rs.33.00 lakh per displaced family. The total provision under this head shall be Rs.3069.00 lakhs for 93 displaced families.
- ii. The provision of the fishing rights in the reservoir shall be given to the PAF's however, shall be extended only outside the restricted area.
- iii. The reimbursement of Stamp Duty on purchase of land by the PAFs losing land, to the extent of actual land loss, to the total provision of Rs.715.15 lakhs. Final payment to be made as per applicable rates at the time of purchase of land.

o/c

Subject to eligibility of all the PAFs having cattle each family that is displaced & has cattle shall get financial assistance of Rs.25000.00 for construction of cattle shed. In addition to this, non-displaced PAFs who are losing their seasonal cattle sheds/Kothas are also entitled to this benefit {Total PAFs =159}, tune to the total provision of Rs.39.75 lakhs.

Each displaced PAF shall get financial assistance of Rs.35,000/- towards transportation cost for shifting of building materials, belongings, cattle, etc. from the affected zone to the resettlement area, tune to the total provision of Rs. 32.55 lakhs.

vi. Subject to eligibility each PAF comprising of rural artisans/small traders and self-employed PAFs shall be provided one time assistance of Rs. 40,000 per PAF for construction of work shed/shop, tune to the total provision of Rs. 63.60 lakh.

vii. Scholarship of Rs.1000 per month for a period of Rs. 24 months would be extended to a maximum of two children per PAF (Rs.1000/month x 2 x 159 PAFs x 24 months). An additional 10 per cent amount of the above scholarship provision as top up shall be provided to differently abled and female students with cap of two children per PAF.

viii. a) Cost for Skill Development training facilities@ Rs. 2000/- per month per PAF for 12 months for 159 PAFs with total cost of Rs.38.16 lakhs. However, Committee approved by the Empowered Committee shall formulate plan in the matter.

b) In the R&R Plan, as approved by Ministry of Environment, Forest & Climate Change, GoI for Keeru HEP an additional provision of Rs.2,00,00,000/- has been provided for Skill Development Programmes.

c) The Ministry of Environment, Forest & Climate Change, while granting environmental clearance to Keeru HEP also recommended as an additional provision that "Skill Mapping and Development Plan" be prepared and implemented with total additional cost of Rs. 15,10,73,000.

Total provisions under a, b & c constitute Rs 1748.89/- Lakh.

x. PAFs, who have not been provided agricultural land or employment, shall be entitled to a rehabilitation grant equivalent to 750 days Minimum Agriculture Wages (MAW) @ Rs. 225 per day with a provision of Rs.268.71 lakh and the payment shall be made as per the Minimum Agriculture wages in vogue at the time of disbursement.

x. Subject to verification of entitlement each displaced PAFs will get Monthly Subsistence Allowance @ Rs 225/day equivalent to 25 days of MAW per month for a period of one year with a provision of Rs.62.78 lakh, the payment shall be made as per the Minimum Agriculture Wages in vogue at the time of disbursement.

xi. Pension for vulnerable Affected Persons:- Annuity policies that will pay a pension for life to the vulnerable affected persons @ Rs. 2000 per month per person subject to verification of eligibility as per definition of Vulnerable persons in NRRP 2007.

The Premium is calculated based on LIC Jeewan Akshay VI Policy assuming the average age of vulnerable persons as 50 years and considering annuity.

CVPP in consultation with the District Administration shall have the option to organize the annuity pension through FD schemes of Banks or Post office or any other available plans so that a pension of Rs. 2000 per month to vulnerable persons is provided.

As per preliminary survey by CVPP 27 vulnerable affected persons have been identified. However, for defining upper ceiling of cost, total number of PAFs (i.e 159) amounting to unit cost @ Rs.3.066 lakh and total Cost @ Rs. 487.50 lakhs has been considered subject to verification of entitlement.

xii. "In case of urgency in taking possession, such as under section 17 of J&K Land Acquisition Act 1990 or similar provision of other Act in force, each Displaced family shall be provided with transit and temporary accommodation allowance (immediate possession allowance), pending resettlement and rehabilitation Plan". This provision shall be subject to scrutiny of the requirement of shifting of displaced families, if any, and subject to further verification of entitlement. Rs.2500 per month for a maximum period of 12 months or resettlement

whichever is earlier. A provision of Rs.27.90 lakh has been kept for the purpose.

xiii. Subject to verification of entitlement, each Scheduled Tribe affected family shall get additional one-time financial assistance equivalent to 500 days of Minimum Agricultural Wages (Rs.225 per day) for loss of customary rights and forest usage, with a provision of Rs.179.67 lacs.

xiv a) For Infrastructure facilities in Resettlement Area lump sum cash compensation shall be provided to the displaced PAFs for purchase of land at place of their choice and construction of house.

b) Under Local Area Development activities, provision of Rs. 2887.00 lakhs has been approved for local area development activities/social and community development package.

However, Committee approved by the Empowered Committee shall formulate plan in the matter.

xv. Under Monitoring and evaluation setup a provision of Rs 250.00 Lakh has been kept. However, Committee approved by the Empowered Committee shall formulate plan in the matter.

xvi. One time financial assistance for seeds and fertilizers as per average areas wise rates against the acquired agricultural land only which shall be strictly as per the final awards of the acquired land. The average cost of seeds and fertilizers per kanal in respect of rural area of District Kishtwar is Rs. 5482/-
Total land = 725 kanal, 09 marla & Total cost provision = Rs. 39.77 lakh.

xvii. An additional 1% free power from the project shall be provided towards Local Area Development Fund, which shall be a separate account aimed at providing regular stream of revenue for Financing Income generation and Welfare Schemes, creation of Additional infrastructural and common facilities etc., on a sustained and continued basis over the life of the project.

xviii. The cost of project developer's 10% contribution towards RGGVY (now DDUGJY) project in the affected area as per the project report sanctioned by Ministry of Power shall be provided by CPEP after commissioning of the project.

Commissioner/Secretary to the Government, Power
Development Department shall prepare the plan.

xix. 100 units of electricity be provided free of cost every month to every PAF for a period of 10 years from the date of commissioning.

Xx. Resettlement & Rehabilitation Plan of Pakal Dul Hydro Electric Project approved on 22.2.2017 needed revision, regarding land and house construction assistance to PAFs in line with the enhancement in provision as approved for Kishanganga HEP.

b) The revision of R&R Plan of Pakal Dul Hydro Electric Project pursuant to Government Order No. 231-PDD of 2016 dated 22.12.2016),
Subject of Item No 1 as:-

One time financial assistance to each displaced PAF shall be provided for purchase of 01 kanal of land for house construction and assistance for construction of house including cost of stamp duty payable for registration of the land and house.

The displaced PAFs shall be provided cash compensation in lieu of land for house and constructed houses:-

1. Assistance for purchase of 01 Kanal of land Rs 10.00 lakh.
2. Assistance for house construction = Rs 12.00 lakh.
Total = Rs 22.00 lakh.
3. Additional 50% of the above amount for providing option of cash compensation only Rs 11.00 lakh.

Grand total=33.00 lakh.

xxi. Mode of Disbursement:-

- a) All the disbursements shall be necessarily Adhaar linked and delivered through DBT mode after proper scrutiny.
- b) All approvals are got in advance from the competent authority.

GOVERNMENT OF JAMMU AND KASHMIR
DEPARTMENT OF DISASTER MANAGEMENT, RELIEF, REHABILITATION RECONSTRUCTION,
Civil Secretariat, J&K Jammu.

Commissioner R&R, PDHEP,
Deputy Commissioner,
Kishtwar.

No. R&R/Rehab/21/2016

Dated: 11-12-2019

Subject: Finalization of the composite plan for development of local infrastructure in the affected area as per the approved Rehabilitation Plan of 1000 MW Pakal Dul HE Power Project Kishtwar, J&K-approval thereof.

Sir,

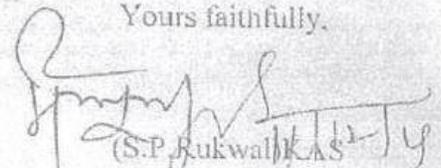
I am directed to refer your letter No. DCK/LA/2019/261-64 dated 01.07.2019 regarding the subject cited above and to convey the administrative approval of the composite plan amounting to Rs. 3252.2568 lacs for development of the following local infrastructure in respect of departments' areas & works proposed thereof in the affected areas of Pakal Dul Hydro Electric Project (HEP) Kishtwar:

Deptt.	Area proposed	Work proposed	Estimated cost	Total cost In lacs	
Health	South Dachhan	Construction of Hospital building (including land, staff quarters, equipments & ambulance)	353.25 lacs	353.25 lacs	
PWD (R&R) Kishtwar	Kwartanji	A. Construction of 2 nos. of passenger sheds with toilets	₹ 20.00 lacs	₹ 100.00 lacs	
	Kishtwar	B. Construction of community Hall	₹ 80.00 lacs		
		C. Construction of Dachhan House at Kishtwar	₹ 200.00 lacs		
PWD (R&R) Spl. Sub Division Mirwah	Paajdhara Dachhan	Construction of Community Hall	₹ 309.14 lacs	₹ 555.64 lacs	
	Southear Dachhan	Construction of Community Hall	₹ 246.50 lacs		
Hydraulic Division Kishtwar	Dachhan	Providing drinking water supply facilities to PAFs of Pakal Dul HEP at Dangdoran Yajungle and other affected areas of Dachhan.	100.00 lacs	1061.2268 lacs	
	Dachhan	Remodeling of Sounder Khul	247.48996 lacs		
	Dachhan	Remodeling of Nagar Khul	107.62684 lacs		
	Chittha	Construction/Renovation of Chittha Khul (1000mts)	80.11 lacs		
	Kwartanji	Providing drinking water supply facilities to PAFs of Pakal Dul HEP at Arzi	26.00 lacs		
	Kishtwar		Additional water lifting facility (6 inch dia) from HRT to water supply to Kishtwar Town		500.00 lacs

Animal Husbandry Department	Kwartanji & Dachhan	Land 02 kanals for each area (Total 04 Kanal) for veterinary dispensary.	Rs. 20.00 laes	
		Veterinary Dispensary 1000 Sq ft (equipped with cross breeding programme for up gradation of the native livestock) for each area (Rs. 30.00 laes per dispensary).	Rs. 60.00 laes.	Rs. 90.00 laes
		One Ambulatory Van for door to door veterinary services in the affected areas	Rs. 10.00 laes	
Sheep Husbandry Department	Kwartanji & Dachhan	Construction of Dipping Vats (at Rs. 1.60 laes in each area).	Rs. 2.00 laes	
		First Aid Kit for all 760 PAFs @ Rs. 300/- per kit	Rs. 2.28 laes	Rs. 4.28 laes
Agriculture Department	Soundar Dachhan	Construction/Establishment of Common Demonstration/Training Centre (including cost of 01 kanal land) for organizing Awareness camps/training for mushroom cultivation & Honey bee rearing and other programmes by Agriculture, Horticulture, Fisheries, Animals Husbandry, Sheep Husbandry & other Depts.	Rs. 72.00 laes	Rs. 72.00 laes.
Tourism Department Infrastructure development for recreation in affected area	Soundar & Pajdhara	a. common facilitation Centre (at 125.00 laes in each area)	Rs. 250.00 laes	
		b. Recreational Parks in both areas (10 Kanal land in each area)	100.00 laes	Rs. 350.00 laes

Further, the executing agencies shall be responsible for making the expenditure in accordance with the codal formalities/ regulations.

Yours faithfully,


(S.P. Rukwal) KAS

Additional Secretary to Government.

9



OFFICE OF THE DEPUTY COMMISSIONER.
New DC Office Complex Mini Secretariat, Kishtwar
Phone/Fax: 01995-261466/259555, E-mail: errdcktr@gmail.com, dckishtwar-jk@nic.in

ANNEXURE -

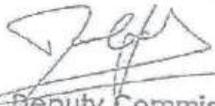


No: DCK/24/F.No 01/27

Dt: 13/05/2024

Utilization certificate of Pakal Dul R&R plan upto 10.05.2024

S.No	Amount received for RR plan implementation	Amount disbursed	Balance	Remarks
1.	74.90 cr.	64.69 Cr	9.40 cr.	


Deputy Commissioner
Kishtwar



2007/3755
31/3/17

Government of Jammu and Kashmir,
Department of Disaster Management, Relief, Rehabilitation & Reconstruction
Civil Secretariat, Jammu

Subject:- Appointment of Commissioner for Rehabilitation and Resettlement
Plan for 1000 MW Pakal Dul, Hydro Electric Project, Kishtwar, J&K.

Ref. No. Letter No. CVPP/PDEP/GM/2017/10 dated 14.02.2017, from General
Manager, Chenab Valley Power Projects (P) Ltd.

Government Order No: 19 -DMRR&R of 2017
D a t e d: 16 / 03 / 2017

Sanction is hereby accorded to the appointment of Deputy
Commissioner, Kishtwar as Commissioner, Rehabilitation and Resettlement,
Pakal Dul Hydro Electric Project (HEP) for the Rehabilitation and Resettlement
of Project Affected Families (PAFs) of 1000 MW Pakal Dul Hydro Electric
Project, Kishtwar, J&K.

By order of the Government of Jammu and Kashmir.

Sd/-
B.B.Vyas, IAS
Financial Commissioner,
Department of Disaster Management,
Relief, Rehabilitation and Reconstruction
Dated: 16/03/2017

M. Gai ANGU

No: R&R/Rehab/21/2016
31/3/2017

Copy to the:

1. Financial Commissioner, Planning Development and Monitoring Department.
2. Financial Commissioner, Revenue, J&K, Jammu.
3. Principal Secretary to Hon'ble Governor, J&K, Jammu.
4. Commissioner/Secretary to Government, Power Development Department.
5. Commissioner/Secretary to Government, Finance Department.
6. Divisional Commissioner, Jammu.
7. Commissioner/Secretary to Government, PW(R&B) Department.
8. Commissioner/Secretary to Government, Housing and Urban Dev. Department.

R/GM/PD/87
31/3/17

Sharma
Rudra Singh
Sri Pakal Dul
Sri Pakal Dul

9. Commissioner/Secretary to Government, Forest Department.
10. Commissioner/Secretary to Government, General Administration Department
11. Commissioner/Secretary to Government, Revenue Department.
12. Secretary to Government, P.H.E, I&F.C Department.
13. Secretary to Government, Rural Development Department.
14. Managing Director, JKSPDC.
15. Deputy Commissioner, Kishtwar.
16. Director Archives, Archaeology and Museums, J&K, Jammu.
- ✓ 17. General Manager, Chenab Valley Power Projects (P) Ltd.
18. Pvt. Secretary to the Chief Secretary, J&K, Jammu.
19. Pvt. Secretary to Financial Commissioner, Department of DMRR&R.
20. Govt. Order File.

Bansi Lal Sharma
16.3.17
(Bansi Lal Sharma)

Under Secretary to Government,
Department of Disaster Management,
Relief, Rehabilitation and Reconstruction



GOVT OF JAMMU & KASHMIR

OFFICE OF THE DEPUTY COMMISSIONER KISHTWAR

Phone/Fax:- 01995-261466/259555, Email:- dckishtwar-ik@nic.in

Subject:- Constitution Of R&R Monitoring Committee For Pakal Dul HEPP -Reg.

ORDER

In compliance to Environment Clearance of Pakal Dul HEPP, a R&R monitoring committee comprising of following officers/members is constituted:-

1. Deputy Commissioner, Kishtwar-----Chairman.
2. Chief Planning Officer, Kishtwar ----- Member
3. District Social Welfare Officer, Kishtwar-----Member
4. Sr. Manager/Manager (Environment) Pakal Dul HEPP, Kishtwar----- Member
5. Sh. Sri Chand (Rep. of PAF)----- Member
6. Smt. Ruksana Kousar (Rep. of PAF- women beneficiary) ----- Member
7. Sh. Mohd Aslam (Rep. of PAF- ST category)----- Member

No: - DCK/LA/25/F.no. 01/96
Dated: - 26-04-2025


Rajesh Kumar Shavan (JKAS)
Deputy Commissioner
Kishtwar
25/4/2025

Copy to the:-

1. Concerned committee members for information and n/a.

ANNEXURE-V



Idma Laboratories Limited



TEST REPORT

ULR : TC820724700005394F

Lab No.	111224L-FD-005		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)-180012 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, Location-Helipad Camp, DOS-06.12.24		
Mode of Collection of Sample	Sample Collected By Idma Lab Person		
Work Order No.#	EL176WOD1000061	Dated	16/07/2024
Date of Receipt of Sample	11/12/2024		
Period of Analysis	11/12/2024 To 16/12/2024		
Visual Observation	N/A		
Date of Reporting	16/12/2024		
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	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.48	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO3)	mg/L	55.9	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.024	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	19.8	Max. 75	Max. 200	IS 3025 (Part 40) :1991
7	Chloride (as Cl)	mg/L	16.9	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 CaCO3)	mg/L	76.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009



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

ULR : TC820724700005394F

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	108.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	4.9	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	Min 1	IS 3025 (Part 26) : 2021
METALS:						
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Copper (as Cu)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	0.001	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	0.002	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.004	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
24	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
25	Magnesium (as Mg)	mg/L	6.5	Max. 30	Max. 100	IS 3025 (Part 46) :2023
26	Sodium as Na	mg/L	1.6	-	-	IS 3025 (Part-45): 1993
27	Potassium as K	mg/L	1.0	-	-	IS 3025 (Part-45): 1993
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022

Reviewed by



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

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Idma Laboratories Limited



TC-8207

TEST REPORT

ULR : TC820724700005394F

Lab No.		111224L-FD-005				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28)			
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

Opinion :

Remarks: 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****



Idma Laboratories Limited

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Panchkula - 134113,

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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700005395F

Lab No.	111224L-FD-006	Page No. 1/3
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir	
Type of Sample#	Drinking Water (RO)	
Customer's Description of Sample#	Drinking Water (RO)	
Quantity#	5 Ltr.	
Packing, Markings, Seal & Quantity#	Plastic Can, Location-Casting Yard, DOS-06.12.24	
Mode of Collection of Sample	Sample Collected By Idma Lab Person	
Work Order No.#	EL176WOD1000061	Dated 16/07/2024
Date of Receipt of Sample	11/12/2024	
Period of Analysis	11/12/2024 To 16/12/2024	
Visual Observation	N/A	
Date of Reporting	16/12/2024	
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	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.52	6.5-8.5	No Relaxation	IS 3025 (Part 11) : 2022
4	Total Alkalinity (as CaCO ₃)	mg/L	74.5	Max. 200	Max. 600	IS 3025 (Part 23) : 2023
5	Boron	mg/L	0.042	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	28.8	Max. 75	Max. 200	IS 3025 (Part 40) : 1991
7	Chloride (as Cl)	mg/L	15.7	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1988
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	94.8	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by



Idma Laboratories Limited

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TEST REPORT

ULR : TC820724700005395F

Lab No.		111224L-FD-006				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	144.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	6.3	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	Min. 1	IS 3025 (Part 26) : 2021
METALS:						
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Copper (as Cu)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	0.002	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	0.001	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.002	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
24	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
25	Magnesium (as Mg)	mg/L	5.5	Max. 30	Max. 100	IS 3025 (Part 46) :2023
26	Sodium as Na	mg/L	2.6	-	-	IS 3025 (Part-45): 1993
27	Potassium as K	mg/L	1.2	-	-	IS 3025 (Part-45): 1993
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022

Reviewed by



Authorised Signatory



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700005395F

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28)			
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

Opinion :

Remarks: 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



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

ULR : TC820724700005396F

Lab No.	111224L-FD-007		Page No. 1/3
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Drinking Water (RO)		
Customer's Description of Sample#	Drinking Water (RO)		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can, Location-Portal Area, DOS-06.12.24		
Mode of Collection of Sample	Sample Collected By Idma Lab Person		
Work Order No.#	EL176WOD1000061	Dated	16/07/2024
Date of Receipt of Sample	11/12/2024		
Period of Analysis	11/12/2024 To 16/12/2024		
Visual Observation	N/A		
Date of Reporting	16/12/2024		
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	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.38	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO3)	mg/L	62.1	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.017	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	24.7	Max. 75	Max. 200	IS 3025 (Part 40) :1991
7	Chloride (as Cl)	mg/L	14.7	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO3)	mg/L	86.5	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

Reviewed by



Authorised Signatory



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Idma Laboratories Limited



TEST REPORT

ULR : TC820724700005396F

Lab No.		111224L-FD-007				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Total Dissolved Solids	mg/L	126.0	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
12	Sulphate (as SO ₄)	mg/L	5.6	Max. 200	Max. 400	IS 3025 (Part 24) :1986
13	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
14	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
15	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	Min 1	IS 3025 (Part 26) : 2021
METALS:						
16	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
17	Copper (as Cu)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
18	Iron (as Fe)	mg/L	0.001	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
19	Manganese (as Mn)	mg/L	0.002	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	BLQ (LOQ-0.0005)	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.002	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	BLQ (LOQ-0.0005)	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
24	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
25	Magnesium (as Mg)	mg/L	6.0	Max. 30	Max. 100	IS 3025 (Part 46) :2023
26	Sodium as Na	mg/L	2.1	-	-	IS 3025 (Part-45): 1993
27	Potassium as K	mg/L	1.3	-	-	IS 3025 (Part-45): 1993
28	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022

Reviewed by

[Signature]
Ranjana
Tech Mgr

Authorised Signatory

[Signature]
Dr. Indra Raj
V.P. Tech Mgr

Idma Laboratories Limited

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TEST REPORT

ULR : TC820724700005396F

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28)			
29	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	--	-	--	--	--
30	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016
31	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	--	IS 15185: 2016

Opinion :

Remarks: 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.

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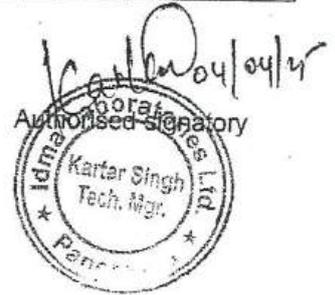
TC-8207

TEST REPORT

Lab No.		310325L-ED-088/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	26	-	-	
8	Sampling Time	Minutes	28	-	-	
9	Volumetric Flow rate	Nm ³ /hr	1099.9	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	50.6	Max. 75	IS:11255(Part -1)	
11	CO	mg /Nm ³	39.4	Max. 150	IS:13270	
12	NOx	ppmv	128.3	Max. 710	IS: 11255(Part -7)	
13	SO2	mg /Nm ³	44.2	-	IS: 11255(Part -2)	

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End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	310325L-ED-088/B		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	Stack Attach to DG Caterpillar 2000 KVA, Land-2		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	LAT 80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NMHC	mg/Nm ³	22.0	Max. 100	IS 5182 (Part-17)

Represents details provided by the customer.

End of Report



S/

Idma Laboratories Limited

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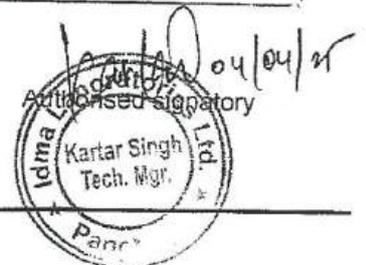


TEST REPORT

Lab No.	310325L-ED-089/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attach to DG Caterpillar 2000 KVA, Land 2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.203	-	-
3	Ambient Temperature	°C	25	-	-
4	Stack Temperature	°C	155	-	-
5	Velocity	m/s	14	-	-
6	Type of Fuel	-	HSD	-	-



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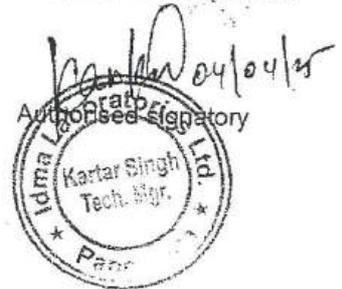


TEST REPORT

Lab No.		310325L-ED-089/A			Page No. 2/2	
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	27	-	-	
8	Sampling Time	Minutes	26	-	-	
9	Volumetric Flow rate	Nm ³ /hr	1132.6	-	-	
PARAMETERS:						
10	PM	mg /Nm ³	45.9	Max. 75	IS:11255(Part -1)	
11	CO	mg /Nm ³	57.2	Max. 150	IS:13270	
12	NOx	ppmv	126.4	Max. 710	IS: 11255(Part -7)	
13	SO2	mg /Nm ³	33.6	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report



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TEST REPORT

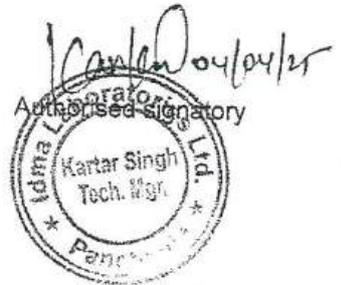
Lab No.	310325L-ED-089/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team		Client	Mr. Ganpat More
Sampling Location#	Stack Attach to DG Caterpillar 2000 KVA, Land 2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NMHC	mg /Nm ³	22.1	Max. 100	IS 5182 (Part-17)

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	310325L-ED-090/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attach to DG Caterpillar 1000 KVA, 65 Banch.			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.203	-	-
3	Ambient Temperature	°C	25	-	-
4	Stack Temperature	°C	122	-	-
5	Velocity	m/s	11.1	-	-
6	Types of Fuel	-	HSD	-	-

Revised by
Dipti Jain
Asst. Tech. Manager
Panchkula

Authorised signatory
Kartar Singh
Tech. Mgr.
Panchkula

Idma Laboratories Limited

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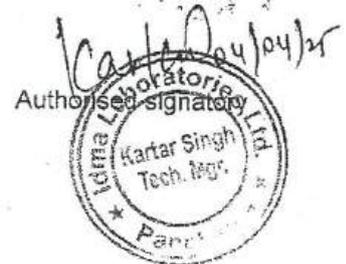


TEST REPORT

Lab No.		310325L-ED-090/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	21	-	-	
8	Sampling Time	Minutes	35	-	-	
9	Volumetric Flow rate	Nm ³ /hr	973.0	-	-	
PARAMETERS:						
10	PM	mg /Nm ³	51.7	Max. 75	IS:11255(Part -1)	
11	CO	mg /Nm ³	40.5	Max. 150	IS:13270	
12	NOx	ppmv	135.8	Max. 710	IS: 11255(Part -7)	
13	SO ₂	mg /Nm ³	46.6	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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TEST REPORT

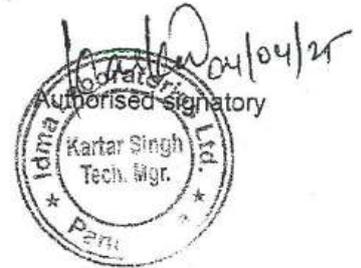
Lab No.	310325L-ED-090/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attach to DG Caterpillar 1000 KVA, 65 Banch.			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

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

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-091/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attach to DG catpiller 1000 KVA, 65 Banch.			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.203	-	-
3	Ambient Temperature	°C	25	-	-
4	Stack Temperature	°C	125	-	-
5	Velocity	m/s	11.6	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by

 Dipti Jain
 Asst. Tech. Manager
 Idma Laboratories Limited
 Panchkula

Authorized signatory

 Kartar Singh
 Tech. Mgr.
 Idma Laboratories Limited
 Panchkula

Idma Laboratories Limited

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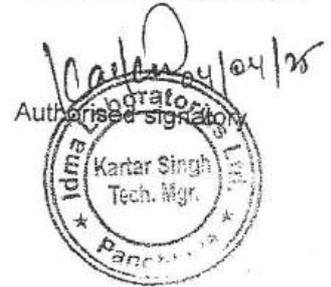


TEST REPORT

Lab No.		310325L-ED-091/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	22	-	-	
8	Sampling Time	Minutes	34	-	-	
9	Volumetric Flow rate	Nm ³ /hr	1009.2	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	46.8	Max. 75	IS:11255(Part -1)	
11	CO	mg /Nm ³	38.2	Max. 150	IS:13270	
12	NO _x	ppmv	101.8	Max. 710	IS: 11255(Part -7)	
13	SO ₂	mg /Nm ³	50.3	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

Lab No.	310325L-ED-091/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attach to DG catpiller 1000 KVA, 65 Banch.			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NMHC	mg/Nm ³	21.5	Max. 100	IS 5182 (Part-17)

Represents details provided by the customer.

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	310325L-ED-092/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attach to DG caterpillar 1000 KVA, 65 Banch.			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.203	-	-
3	Ambient Temperature	°C	25	-	-
4	Stack Temperature	°C	129	-	-
5	Velocity	m/s	11.7	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by
Dipti Jain
Test Tech Manager
Idma Laboratories Limited
Panchkula

Authorised signatory
Kartar Singh
Tech. Mgr.
Idma Laboratories Limited
Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	310325L-ED-092/A					Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	32	-	-	
9	Volumetric Flow rate	Nm ³ /hr	1007.8	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	44.8	Max. 75	IS:11255(Part -1)	
11	CO	mg /Nm ³	32.5	Max. 150	IS:13270	
12	NOx	ppmv	138.4	Max. 710	IS: 11255(Part -7)	
13	SO2	mg /Nm ³	43.8	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	310325L-ED-092/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attach to DG caterpillar 1000 KVA, 65 Banch.			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NMHC	mg/Nm ³	24.6	Max 100	IS 5182 (Part-17)

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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-093/A		Page No.	1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attach to DG Tata125 KVA, Land-2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	25	-	-
4	Stack Temperature	°C	102	-	-
5	Velocity	m/s	10.3	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by
04/04/25



Authorized signatory
04/04/25



Idma Laboratories Limited

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	310325L-ED-093/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	19	-	-
8	Sampling Time	Minutes	39	-	-
9	Volumetric Flow rate	Nm ³ /hr	517.0	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.10	Max. 0.2	IS:11255(Part -1)
11	CO	g/kW-hr	1.05	Max. 3.5	IS:13270
12	SO2	g/kW-hr	1.37	-	IS: 11255(Part -2)

Represents details provided by the customer.

End of Report



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TEST REPORT

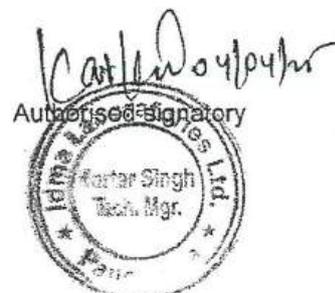
Lab No.	310325L-ED-093/B	Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	Stack Attach to DG Tata125 KVA, Land-2		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx +HC	g/kW-hr	2.26	Max. 4.0	IS: 11255(Part -7)

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	310325L-ED-094/A		Page No. 1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	Stack Attach to DG caterpillar 500 KVA (W.T.P.)		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.203	-	-
3	Ambient Temperature	°C	25	-	-
4	Stack Temperature	°C	115	-	-
5	Velocity	m/s	11.0	-	-
6	Type of Fuel	-	HSD	-	-

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

Authorised Signatory
Ranvir Singh
Ranvir 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



TC-8207

TEST REPORT

Lab No.	310325L-ED-094/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	20	-	-
8	Sampling Time	Minutes	37	-	-
9	Volumetric Flow rate	Nm ³ /hr	981.7	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.08	Max. 0.2	IS:11255(Part -1)
11	CO	g/kW-hr	1.09	Max. 3.5	IS:13270
12	SO ₂	g/kW-hr	1.34	-	IS: 11255(Part -2)

Represents details provided by the customer.

End of Report

Reviewed by
Reviewed by
Dipti Jain
Asst. Tech. Manager
Panchkula

Kartar Singh
Kartar Singh
Tech. Mgr.
Panchkula

Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

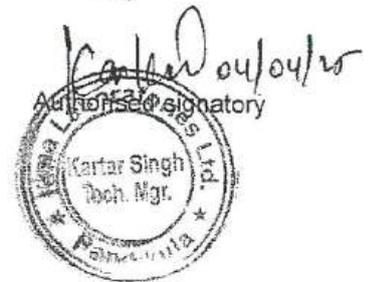
Lab No.	310325L-ED-094/B		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in polythene pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	Stack Attach to DG caterpillar 500 KVA (W.T.P.)		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx +HC	g/kW-hr	1.67	Max. 4.0	IS: 11255(Part -7)

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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-095		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team		
Sampling Location#	DG Noise Cummins 500 KVA, Casting Yard	Client	Mr. Ganpat More
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	70.3	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.4	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.2	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.2	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer.

End of Report

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

Authorised signatory
Karant Singh
Karant Singh
Tech. Mgr.
Idma Laboratories Ltd.
Panchkula

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TEST REPORT

Lab No.	310325L-ED-096	Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	DG Noise caterpillar 1000 KVA		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.6	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.5	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.3	Min. 25	CPCB PROTOCOL JULY 2015

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Signature of Kartar Singh, Authorised signatory, Idma Laboratories Ltd. Panchkula.

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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-097		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise Tata 125 KVA, Land-2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.4	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.2	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.6	Min. 25	CPCB PROTOCOL JULY 2015

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End of Report

Reviewed by
Dipti Jain
Asst. Tech. Manager

Authorized signatory
Karishma Singh

Idma Laboratories Limited

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TEST REPORT

Lab No.	310325L-ED-098		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise Caterpillar 2000 KVA, Land-2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.9	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	100.9	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.4	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.5	Min. 25	CPCB PROTOCOL JULY 2015

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End of Report

[Signature]
Reviewed by

[Signature]
Authorised signatory

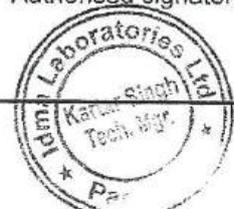
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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-099		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	DG Noise caterpillar 2000 KVA, Land-2		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.6	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.8	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.5	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.3	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer.

End of Report

Review
Dipti Jain
Asst. Tech. Manager
Idma Laboratories Limited
Panchkula

Authorised signatory
Kantar Singh
Tech. Mgr.
Idma Laboratories Limited
Panchkula

Idma Laboratories Limited

Idma Corporate Park,
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Panchkula - 134113,
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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-100		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise Caterpillar 2000 KVA, Land-2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.0	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.7	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.4	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.3	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer.

End of Report



Kanwar Singh
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-101		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	DG Noise 2000 KVA, Land -2		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.6	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.9	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.2	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.7	Min. 25	CPCB PROTOCOL JULY 2015

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End of Report



Idma Laboratories Limited

Idma Corporate Park,
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Panchkula - 134113,
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Tel No. 0172 - 5064827, - 5064830
Website : www.idmagroup.co.in
Email : commercial@idmalab.co.in

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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-102		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise 2000 KVA, Land-2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)				
1	1.0 m from the enclosure surface	dB(A)	70.8	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.5	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.0	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.5	Min. 25	CPCB PROTOCOL JULY 2015

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End of Report



Idma Laboratories Limited

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Idma Laboratories Limited



TC-8207

TEST REPORT

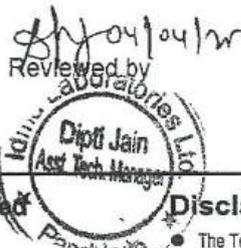
Lab No.	310325L-ED-103		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise 2000 KVA, Land-2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	69.8	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.5	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.3	Min. 25	CPCB PROTOCOL JULY 2015

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End of Report



Handwritten signature and the text 'Authorised signatory'.



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-104		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise 2000 KVA, Land-2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.2	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.0	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.4	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.6	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer.

End of Report

04/04/25
Reviewed by
Dipti Jain
Asst. Tech Manager
Idma Laboratories Ltd.
Panchkula

04/04/25
Authorised signatory
Kartar Singh
Tech. Mgr.
Idma Laboratories Ltd.
Panchkula

Idma Laboratories Limited

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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-105		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakai Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise 2000 KVA, Land-2			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	70.6	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.6	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.2	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer. **End of Report**

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

Kartar Singh
04/04/25
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	310325L-ED-106		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise 1000 KVA, 65 Banch.			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.8	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.7	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.4	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.3	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer.

End of Report

Reviewed by
Dipti Jain
Asst. Tech. Manager



Authorised signatory
Kartar Singh
Tech. Mgr.



Idma Laboratories Limited

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TEST REPORT

Lab No.	310325L-ED-107	Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	DG Noise Caterpillar 1000 KVA, 65 Banch.		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	70.9	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.8	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.6	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	26.2	Min. 25	CPCB PROTOCOL JULY 2015

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Reviewed by
Dipti Jain



Kartar Singh
Authorised signatory



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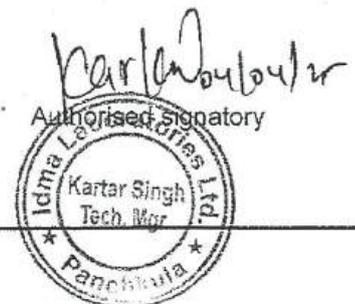
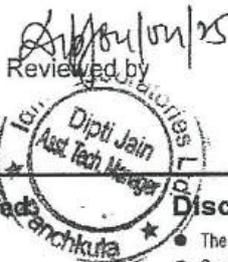
TEST REPORT

Lab No.	310325L-ED-108	Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	DG Noise caterpillar 1000 KVA, 65 Banch.		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.8	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.3	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.6	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.7	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer. **End of Report**



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TEST REPORT

Lab No.	310325L-ED-109		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise Caterpillar WTP 500 KVA			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.2	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.7	-	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.3	-	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.5	Min. 25	CPCB PROTOCOL JULY 2015

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

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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-110		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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.#	EL176WOD100061	Dated	16/07/2021	
Date of Receipt of Sample	31/03/2025			
Period of Analysis	31/03/2025 To 04/04/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise Portal Area 500 KVA			
Visual Observation	N/A			
Date of Sampling	29/03/2025			
Date of Reporting	04/04/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

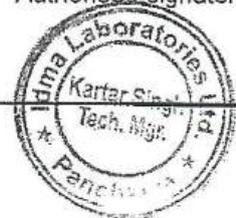
RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.8	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.2	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.6	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer. **End of Report**

Reviewed by
Dipti Jain
Asst. Tech. Manager
Panchkula

Authorised signatory
Kartar Singh
04/04/25



Idma Laboratories Limited

Idma Corporate Park,
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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-111	Page No.	1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Waste Water(Crusher Plant)		
Customer's Description of Sample#	Waste Water(Crusher Plant)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	31/03/2025		
Period of Analysis	31/03/2025 To 04/04/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	Crusher Plant (Sedimentation Tank)		
Visual Observation	N/A		
Date of Sampling	29/03/2025		
Date of Reporting	04/04/2025		
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	-	7.63	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	171.4	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	24.0	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.5	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	602	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	42	Max. 100	IS 3025 (Part 17)

Reviewed by
04/04/25



Kartar Singh
04/04/25
Authorised signatory



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Idma Laboratories Limited



TEST REPORT

Lab No.	310325L-ED-111	Page No. 2/2
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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-035	Page No.	1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar.-II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 07/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	Stack Attach Boiler Thermax 600 Kg/hr, DG Set. RXA 06/3765		
Visual Observation	N/A		
Date of Sampling	28/09/2024		
Date of Reporting	07/10/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATION:	-	-	-	-
1	Stack Height	Meters	30	-	-
2	Stack Diameter	Meters	0.5	-	-
3	Ambient Temperature	°C	27	-	-
4	Stack Temperature	°C	141	-	-
5	Velocity	m/s	12.4	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by

Dipti Jain
Asst. Tech. Manager
Idma Laboratories Ltd.
Panchkula

Authorised signatory

Kartar Singh
Tech. Mgr.
Idma Laboratories Ltd.
Panchkula

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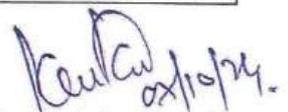
TEST REPORT

Lab No.	011024N-E-035				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	23	-	-
8	Sampling Time	Minutes	33	-	-
9	Volumetric Flow rate	Nm ³ /hr	6322.5	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg /Nm ³	104.6	Max 500	USEPA Method 5
11	CO	%	<0.1	-	USEPA Method 10,10A
12	NOx	mg /Nm ³	112.3	Max 300	USEPA Method 7E
13	SO ₂	mg /Nm ³	62.7	Max 600	USEPA Method 6C
14	Total Hydro Carbons	mg/Nm ³	16.8	-	USEPA Method 25A

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

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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-036	Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 07/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	Stack Attach Boiler Thermax 600 Kg/hr, DG Set. RXA 06/3766		
Visual Observation	N/A		
Date of Sampling	28/09/2024		
Date of Reporting	07/10/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	30	-	-
2	Stack Diameter	Meters	0.5	-	-
3	Ambient Temperature	°C	27	-	-
4	Stack Temperature	°C	136	-	-
5	Velocity	m/s	12.3	-	-
6	Type of Fuel	-	HSD	-	-



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Idma Laboratories Limited

TEST REPORT

Lab No.		011024N-E-036				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	33	-	-	
9	Volumetric Flow rate	Nm ³ /hr	6322.5	-	-	
PARAMETERS:		-	-	-	-	
10	PM	mg /Nm ³	110.8	Max 500	USEPA Method 5	
11	CO	%	<0.1	-	USEPA Method 10, 10A	
12	NOx	mg /Nm ³	97.2	Max 300	USEPA Method 7E	
13	SO2	mg /Nm ³	82.1	Max 600	USEPA Method 6C	
14	Total Hydro Carbons	mg/Nm ³	14.8	-	USEPA Method 25A	

Represents details provided by the customer.

End of Report



Authorised signatory



Idma Laboratories Limited

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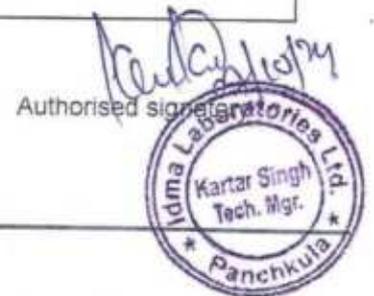
Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-037		Page No.	1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar-II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 07/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	Stack Attach Boiler Thermax 800 KG/hr, DG Set. RXA 06/3767			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	07/10/2024			
Sampling Protocol	LATS/60/2013-14 USEPA-2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	30	-	-
2	Stack Diameter	Meters	0.5	-	-
3	Ambient Temperature	°C	27	-	-
4	Stack Temperature	°C	145	-	-
5	Velocity	m/s	12.3	-	-
6	Type of Fuel	-	HSD	-	-



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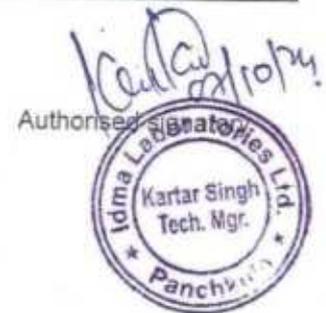
Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-037				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	23	-	-
8	Sampling Time	Minutes	33	-	-
9	Volumetric Flow rate	Nm ³ /hr	6211.5	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg /Nm ³	122.7	Max 500	USEPA Method 5
11	CO	%	<0.1	-	USEPA Method 10,10A
12	NOx	mg /Nm ³	95.7	Max 300	USEPA Method 7E
13	SO2	mg /Nm ³	62.4	Max 600	USEPA Method 6C
14	Total Hydro Carbons	mg/Nm ³	17.3	-	USEPA Method 25A

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End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-038	Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 07/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	Stack Attach DG Set Crusher, plant Caterpillar 1000 KVA		
Visual Observation	N/A		
Date of Sampling	29/09/2024		
Date of Reporting	07/10/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.2032	-	-
3	Ambient Temperature	°C	27	-	-
4	Stack Temperature	°C	150	-	-
5	Velocity	m/s	13.2	-	-
6	Type of Fuel	-	HSD	-	-



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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-038				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	25	-	-
8	Sampling Time	Minutes	30	-	-
9	Volumetric Flow rate	Nm ³ /hr	1088.0	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg /Nm ³	54.1	Max 75	USEPA Method 5
11	CO	mg /Nm ³	46.8	Max 150	USEPA Method 10,10A
12	NOx	ppmv	141.6	Max 710	USEPA Method 7E
13	SO2	mg /Nm ³	29.4	-	USEPA Method 8C
14	NMHC	mg/Nm ³	25.3	Max 100	USEPA Method 25A

Represents details provided by the customer.

End of Report

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

Authorised signature

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

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TEST REPORT

Lab No.	011024N-E-039		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise (Casting Yard) Cummins 500 KVA			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.5	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.9	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.5	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.4	Min. 25	EPA Guideline Manual July 2008

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End of Report

Reviewed by



Authorised signature

Kartar Singh
05/10/24



Idma Laboratories Limited

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TEST REPORT

Lab No.	011024N-E-040		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar 1000 KVA, DG Set. 2599022-5			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.5	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.5	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.9	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.5	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-041		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise caterpillar 1000 KVA. 65 Banchs DG set.2599-021-7			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	05/10/2024			
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)	72.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.2	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.6	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-042		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (65 Banch) 1000 KVA, DG Set. 2599-020-9			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	73.2	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.9	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.5	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.4	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-043		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise (Land-2, Caterpillar 2000 KVA, DG Set. 25020137)			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	79.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.2	Min. 25	EPA Guideline Manual July 2008

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Lab No.	011024N-E-044		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA DG Set, 2502016			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.4	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.1	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.5	Min. 25	EPA Guideline Manual July 2008

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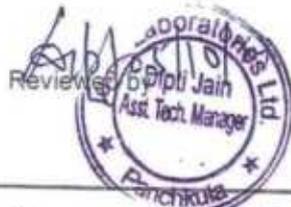
Lab No.	011024N-E-045	Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 05/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	DG Noise caterpiller (Land-2) 2000 KVA, DG. Set.25020145		
Visual Observation	N/A		
Date of Sampling	29/09/2024		
Date of Reporting	05/10/2024		
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)	72.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.5	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.3	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-046	Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 05/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, DG Set. 25020110		
Visual Observation	N/A		
Date of Sampling	29/09/2024		
Date of Reporting	05/10/2024		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.5	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.1	--	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.	011024N-E-047		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar-II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, DG Set. 25020129			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

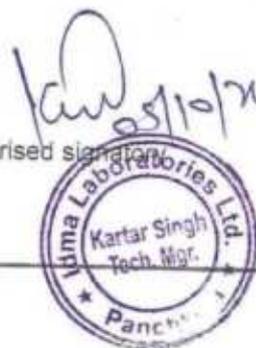
S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.5	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.1	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-048		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, D.G. set.25020099.			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
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)	70.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.5	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.9	Min. 25	EPA Guideline Manual July 2008

Represents details provided by the customer. **End of Report**



Kedar Singh
05/10/24
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
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Tel No. 0172 - 5064827, - 5064830
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TEST REPORT

Lab No.	011024N-E-049		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise cummins (Land-2) 125 KVA, DG Set. 2570-713-9			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
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)	72.1	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	99.6	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	74.3	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.3	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-050		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise cummins (Portal Area) 500 KVA, DG. Set. 25961730.			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.9	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.4	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.5	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-051		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Crusher Plant 1000 KVA			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL-2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	73.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	105.4	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	79.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.8	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-043		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 05/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	DG Noise (Land-2, Caterpillar 2000 KVA, DG Set. 25020137)		
Visual Observation	N/A		
Date of Sampling	28/09/2024		
Date of Reporting	05/10/2024		
Sampling Protocol	CPCB PROTOCOL-2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	79.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.2	Min. 25	EPA Guideline Manual July 2008

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Authorised signatory



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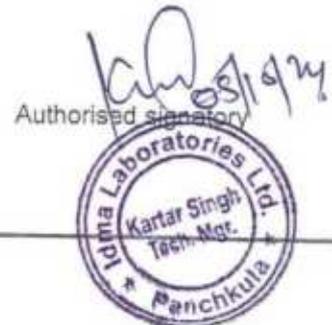
Lab No.	011024N-E-044		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar-II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 05/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA DG Set. 2502016		
Visual Observation	N/A		
Date of Sampling	28/09/2024		
Date of Reporting	05/10/2024		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.4	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.1	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.5	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-045	Page No.	1/1
Customer#	Larsen & Toubro Limited Pakai Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 05/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	DG Noise caterpillar (Land-2) 2000 KVA, DG. Set.25020145		
Visual Observation	N/A		
Date of Sampling	29/09/2024		
Date of Reporting	05/10/2024		
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)	72.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.5	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.3	Min. 25	EPA Guideline Manual July 2008

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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-046		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, DG Set. 25020110			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.5	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.1	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.4	Min. 25	EPA Guideline Manual July 2008

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Authorised signatory
Kartar Singh
5/10/24

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TEST REPORT

Lab No.	011024N-E-047		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, DG Set. 25020129			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
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)	72.5	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.1	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guideline Manual July 2008

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Authorised signature



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TEST REPORT

Lab No.	011024N-E-048		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, D.G. set.25020099.			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
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)	70.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.5	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.9	Min. 25	EPA Guideline Manual July 2008

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End of Report



Kumar Singh
05/10/24
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
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Haryana (India)
Tel No. 0172 - 5064827, - 5064830
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TEST REPORT

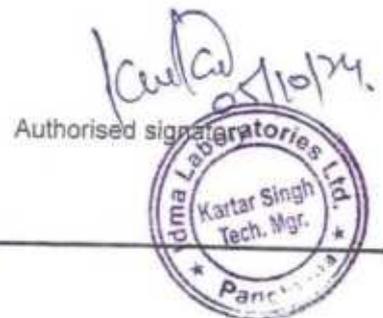
Lab No.	011024N-E-049		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise cummins (Land-2) 125 KVA, DG Set. 2570-713-9			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
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)	72.1	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	99.6	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	74.3	--	EPA Guideline Manual July 2008
4	insertion Loss	dB (A)	25.3	Min. 25	EPA Guideline Manual July 2008

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Idma Laboratories Limited

Idma Corporate Park,

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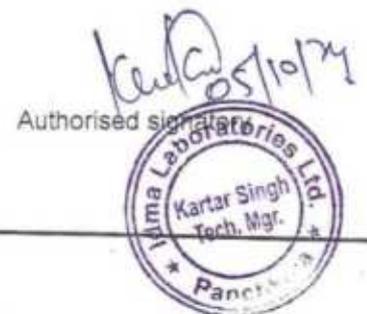
Lab No.	011024N-E-050		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise cummins (Portal Area) 500 KVA, DG. Set. 25961730.			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.9	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.4	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.5	Min. 25	EPA Guideline Manual July 2008

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Lab No.	011024N-E-051		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Crusher Plant 1000 KVA			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	73.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	105.4	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	79.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.8	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-043		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise (Land-2, Caterpillar 2000 KVA, DG Set. 25020137			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL-2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	79.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.2	Min. 25	EPA Guideline Manual July 2008

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Lab No.	011024N-E-044		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA DG Set. 2502016			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	05/10/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	72.4	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.1	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.5	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-045		Page No.	1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise caterpillar (Land-2) 2000 KVA, DG. Set.25020145			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
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)	72.6	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.5	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.3	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	011024N-E-046		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level 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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 05/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, DG Set. 25020110		
Visual Observation	N/A		
Date of Sampling	29/09/2024		
Date of Reporting	05/10/2024		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	102.5	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.1	--	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.	011024N-E-047		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar-II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level 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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 05/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, DG Set. 25020129			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	05/10/2024			
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)	72.5	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.1	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guideline Manual July 2008

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Lab No.	011024N-E-048	Page No. 1/1
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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 16/07/2021
Date of Receipt of Sample	01/10/2024	
Period of Analysis	01/10/2024 To 05/10/2024	
Sampling Team	Idma Representative Team	Client Mr. Vaseem Zahir
Sampling Location#	DG Noise Caterpillar (Land-2) 2000 KVA, D.G. set.25020099.	
Visual Observation	N/A	
Date of Sampling	29/09/2024	
Date of Reporting	05/10/2024	
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)	70.9	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.5	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.6	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.9	Min. 25	EPA Guideline Manual July 2008

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Kartar Singh
Authorised signatory



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Idma Laboratories Limited



TEST REPORT

Lab No.	091224L-ED-014/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Stack Attachto DG set Land-2 Cummins 125 KVA			
Visual Observation	N/A			
Date of Sampling	07/12/2024			
Date of Reporting	15/12/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	14	-	-
4	Stack Temperature	°C	110	-	-
5	Velocity	m/s	12.2	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by

 Dipati Jain
 Asst. Tech. Manager

Authorised signatory

 Kartar Singh
 Tech. Mgr.

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Idma Laboratories Limited



TEST REPORT

Lab No.		091224L-ED-014/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	32	-	-	
9	Volumetric Flow rate	Nm ³ /hr	623.9	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.13	Max 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.96	Max 3.5	IS:13270	
12	SO ₂	g/kW-hr	1.36	-	IS: 11255(Part -2)	

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TEST REPORT

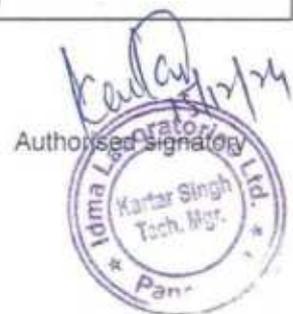
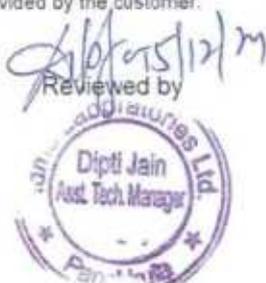
Lab No.	091224L-ED-014/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Stack Attachto DG set Land-2 Cummins 125 KVA			
Visual Observation	N/A			
Date of Sampling	07/12/2024			
Date of Reporting	15/12/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx + HC	g/kW-hr	1.24	Max 4.0	IS: 11255(Part -7)

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End of Report



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Idma Laboratories Limited



TEST REPORT

Lab No.	091224L-ED-014/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Stack Attach to DG set Land-2 Cummins 2000 KVA			
Visual Observation	N/A			
Date of Sampling	07/12/2024			
Date of Reporting	15/12/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	14	-	-
4	Stack Temperature	°C	110	-	-
5	Velocity	m/s	12.2	-	-
6	Type of Fuel	-	HSD	-	-



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.		091224L-ED-014/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	32	-	-	
9	Volumetric Flow rate	Nm ³ /hr	623.9	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg/Nm ³	48.2	Max 75	IS:11255(Part -1)	
11	CO	mg/Nm ³	39.5	Max 150	IS:13270	
12	NOx	ppmv	128.5	Max 710	IS: 11255(Part -7)	
13	SO2	mg/Nm ³	43.7	-	IS: 11255(Part -2)	

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Idma Laboratories Limited

TEST REPORT

Lab No.	091224L-ED-014/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Stack Attach to DG set Land-2 Cummins 2000 KVA			
Visual Observation	N/A			
Date of Sampling	07/12/2024			
Date of Reporting	15/12/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NMHC	mg/Nm ³	22.6	Max. 100	IS 5182 (Part-17)

Represents details provided by the customer.

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TEST REPORT

Lab No.	091224L-ED-009/A		Page No.	1/2
Customer#	Larsen & Toubro Limited Pakai Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Crusher Plant Near casting Yard.			
Visual Observation	N/A.			
Date of Sampling	06/12/2024			
Date of Reporting	15/12/2024			
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	82.6	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	40.1	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m ³	15.9	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m ³	21.3	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m ³	24.6	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m ³	20.6	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<6	Max. 20	EPA/625/R-96/010a

Reviewed by

 Dipti Jain
 Asst. Tech. Manager

Authorized signatory

 Karan Singh
 To: J&K

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Idma Laboratories Limited



TEST REPORT

Lab No.		091224L-ED-009/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

Reviewed by
[Signature]



Authorized signatory



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Idma Laboratories Limited

TEST REPORT

Lab No.	091224L-ED-009/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Crusher Plant Near casting Yard.			
Visual Observation	N/A			
Date of Sampling	06/12/2024			
Date of Reporting	15/12/2024			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m ³	0.39	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.15	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

Reviewed by



Authorised signatory



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	091224L-ED-010/A		Page No.	1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Batching Plant			
Visual Observation	N/A			
Date of Sampling	06/12/2024			
Date of Reporting	15/12/2024			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM 10	µg/m ³	79.8	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	42.6	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m ³	19.5	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m ³	21.6	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m ³	26.4	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m ³	20.6	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

Reviewed by

 Dipi Jain
 Asst. Tech. Manager

Authorised signatory

 Waseem Zahir
 Tech. Mgr.

Idma Laboratories Limited

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 Panchkula - 134113,
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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	091224L-ED-010/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m ³	0.14	Max. 1.0	EPA/525/R-96/010a

Represents details provided by the customer.

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Authorised signatory



Idma Laboratories Limited

Corporate Park,

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Idma Laboratories Limited

TEST REPORT

Lab No.	091224L-ED-010/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Batching Plant			
Visual Observation	N/A			
Date of Sampling	06/12/2024			
Date of Reporting	15/12/2024			
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	0.54	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.17	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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TEST REPORT

Lab No.	091224L-ED-011/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	01 No.			
Packing, Markings#	Filter Paper Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Portal Area			
Visual Observation	N/A			
Date of Sampling	08/12/2024			
Date of Reporting	15/12/2024			
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	78.9	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	40.6	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m ³	13.8	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m ³	16.4	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m ³	20.5	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m ³	22.8	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



Authorised signatory



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.		091224L-ED-011/A			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m ³	0.13	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.	091224L-ED-011/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar-II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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.#	EL175WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Portal Area			
Visual Observation	N/A			
Date of Sampling	06/12/2024			
Date of Reporting	15/12/2024			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m ³	0.53	Max. 02	IS 5182 (Part 10)
2	Benzene	ug/m ³	2.16	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

Reviewed by

Choti Jain
Lab Tech Manager

Authorised signatory

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TEST REPORT

Lab No.	091224L-ED-012		Page No. 1/1	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Noise Level (Ambient)			
Customer's Description of Sample#	Noise Level (Ambient)			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	09/12/2024			
Period of Analysis	09/12/2024 To 15/12/2024			
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir	
Sampling Location#	Crusher Plant			
Visual Observation	N/A			
Date of Sampling	06/12/2024			
Date of Reporting	15/12/2024			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)				
1	Lday	dB(A)	66.5	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	62.4	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer. **End of Report**



Authorised signatory



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TEST REPORT

Lab No.	091224L-ED-013		Page No. 1/1
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Noise Level (Ambient)		
Customer's Description of Sample#	Noise Level (Ambient)		
Quantity#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD1000061	Dated	15/07/2021
Date of Receipt of Sample	09/12/2024		
Period of Analysis	09/12/2024 To 15/12/2024		
Sampling Team	Idma Representative Team	Client	Mr. Waseem Zahir
Sampling Location#	Portal Area		
Visual Observation	N/A		
Date of Sampling	06/12/2024		
Date of Reporting	15/12/2024		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	66.5	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	61.4	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Reviewed by

 Dipal Jain
 Analyst
 Idma Laboratories Ltd

Authorized signatory

 Kartar S Toth
 Idma Laboratories Ltd

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TEST REPORT

Lab No.	091224L-ED-015	Page No.	1/2
Customer#	Larsen & Toubro Limited Pakai Dul Hep Project (Dam Site) Chenab Nagar -II, V.P.O. Dool, Tehsil & Distt.Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	Surface Water(River)		
Customer's Description of Sample#	Surface Water(River)		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD100061	Dated	16/07/2021
Date of Receipt of Sample	09/12/2024		
Period of Analysis	09/12/2024 To 15/12/2024		
Sampling Team Idma	Idma Representative Team	Client	Mr. Waseem Zahir
Sampling Location#	River Water (Down Stream) Chenab River		
Visual Observation	N/A		
Date of Sampling	07/12/2024		
Date of Reporting	15/12/2024		
Sampling Protocol	IS:17514 (PART-1):2021		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.25	IS 3025 (Part 11)
2	Alkalinity as CaCO ₃	mg/L	128	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	22.6	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	18.5	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	7.0	IS 3025 (Part 38)
6	Hardness Total (as CaCO ₃)	mg/L	112	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	189	IS 3025 (Part 18)
8	Sulphate as SO ₄	mg/L	6.7	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)



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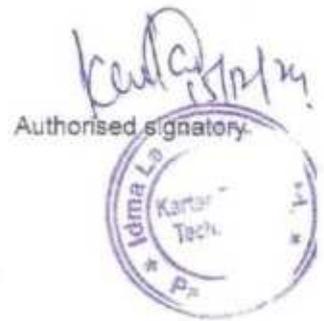
TEST REPORT

Lab No.		091224L-ED-015			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods	
10	Residual Free chlorine	mg/L	<0.1	IS 3025 (Part 26)	
11	Magnesium as Mg	mg/L	13.5	IS 3025 (Part 46)	
12	Iron as Fe	mg/L	0.002	IS 3025 (Part 53)	
13	Lead as Pb	mg/L	BLQ (LOQ -0.0005)	IS 3025 (Part 47)	
14	Manganese as Mn	mg/L	BLQ (LOQ -0.0005)	IS 3025 (Part 47)	
15	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)	
16	Chemical Oxygen Demand	mg/L	<4	IS 3025 (Part 58)	
17	Faecal Coliform	MPN/100ml	253	IS 1522:1981	

Opinion :

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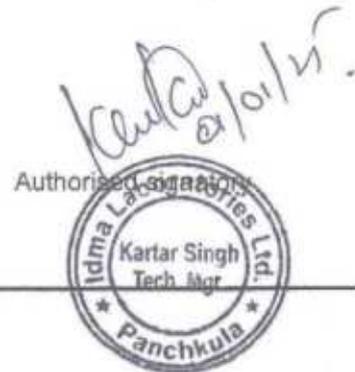
TEST REPORT

Lab No.	261224N-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#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024	
Date of Receipt of Sample	26/12/2024			
Period of Analysis	26/12/2024 To 01/01/2025			
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra	
Sampling Location#	Crusher Plant			
Visual Observation	N/A			
Date of Sampling	23/12/2024			
Date of Reporting	01/01/2025			
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)	73.5	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	67.4	Max 70	EPA Guideline Manual July 2008

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Idma Laboratories Limited

TEST REPORT

Lab No.	261224N-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#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024
Date of Receipt of Sample	26/12/2024		
Period of Analysis	26/12/2024 To 01/01/2025		
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra
Sampling Location#	HRT- Adit Tunnel Portal		
Visual Observation	N/A		
Date of Sampling	23/12/2024		
Date of Reporting	01/01/2025		
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)	70.9	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	65.2	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report



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TEST REPORT

Lab No.	261224N-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#	01 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024
Date of Receipt of Sample	26/12/2024		
Period of Analysis	26/12/2025 To 01/01/2025		
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra
Sampling Location#	Batching Plant, HRT		
Visual Observation	N/A		
Date of Sampling	23/12/2024		
Date of Reporting	01/01/2025		
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)	66.9	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	61.4	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report



Kartar Singh
01/01/25
Authorised signatory
Idma Laboratories Ltd.
Kartar Singh
Tech. Mgr.
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.	261224N-E-009		Page No. 1/2	
Customer#	Jaiprakash Associates Ltd, Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir			
Type of Sample#	Waste Water (Sedimentation Tank Batching Plant)			
Customer's Description of Sample#	Waste Water (Sedimentation Tank Batching Plant)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024	
Date of Receipt of Sample	26/12/2024			
Period of Analysis	26/12/2024 To 01/01/2025			
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra	
Sampling Location#	Batching Plant (Sewerbati)			
Visual Observation	N/A			
Date of Sampling	24/12/2024			
Date of Reporting	01/01/2025			
Sampling Protocol	IS:17814 (PART-1):2021			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.63	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	184	Max. 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	22	Max. 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	3.1	Max. 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	524	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	43	Max. 100	APHA2540 D24th Edition, 2023

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Idma Laboratories Limited

TEST REPORT

Lab No.	261224N-E-010	Page No.	1/1
Customer#	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir		
Type of Sample#	Waste Water (Sedimentation Tank Crusher Plant)		
Customer's Description of Sample#	Waste Water (Sedimentation Tank Crusher Plant)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024
Date of Receipt of Sample	26/12/2024		
Period of Analysis	26/12/2024 To 01/01/2025		
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra
Sampling Location#	Crusher Plant		
Visual Observation	N/A		
Date of Sampling	24/12/2024		
Date of Reporting	01/01/2025		
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	144	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	486	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	34	Max. 100	APHA2540 D24th Edition, 2023

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Idma Laboratories Limited

TEST REPORT

Lab No.	261224N-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 (HRT-Adit Tunnel)			
Customer's Description of Sample#	Waste Water (HRT-Adit Tunnel)			
Quantity#	5 Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024	
Date of Receipt of Sample	26/12/2024			
Period of Analysis	26/12/2024 To 01/01/2025			
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra	
Sampling Location#	HRT- Adit Tunnel			
Visual Observation	N/A			
Date of Sampling	24/12/2024			
Date of Reporting	01/01/2025			
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	-	7.33	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	156	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	2.9	Max. 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	502	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	38	Max. 100	APHA2540 D24th Edition, 2023

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End of Report



Authorized Laboratory



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Idma Laboratories Limited

TEST REPORT

Lab No.	261224N-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 (Batching Plant- HRT Tunnel)		
Customer's Description of Sample#	Waste Water (Batching Plant- HRT Tunnel)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024
Date of Receipt of Sample	26/12/2024		
Period of Analysis	26/12/2024 To 01/01/2025		
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra
Sampling Location#	Batching Plant -HRT Tunnel		
Visual Observation	N/A		
Date of Sampling	24/12/2024		
Date of Reporting	01/01/2025		
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	-	7.24	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	128	Max. 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	16	Max.30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	3.4	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	496	-	APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	32	Max. 100	APHA2540 D24th Edition, 2023

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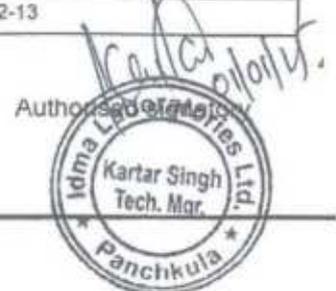
Idma Laboratories Limited

TEST REPORT

Lab No.	261224N-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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024
Date of Receipt of Sample	26/12/2024		
Period of Analysis	26/12/2024 To 01/01/2025		
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra
Sampling Location#	Batching Plant (Sewerbatl)		
Visual Observation	N/A		
Date of Sampling	23/12/2024		
Date of Reporting	01/01/2025		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM10	µg/m ³	78.7	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	37.5	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	17.3	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	19.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	40.2	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.51	Max. 2	NAAQMS/36/2012-13



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Idma Laboratories Limited

TEST REPORT

Lab No.		261224N-E-001				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	µg/m ³	22.5	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	µg/m ³	2.14	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	µg/m ³	0.13	Max. 1	NAAQMS/36/2012-13	

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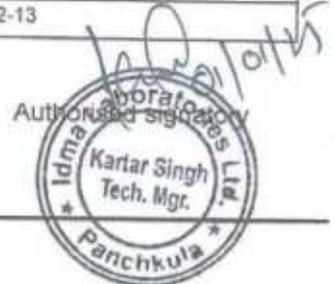
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TEST REPORT

Lab No.	261224N-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#	01 No.		
Packing, Markings#	Filter Paper Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	JAL/PAKAL/2024-25/WO/18	Dated	01/04/2024
Date of Receipt of Sample	26/12/2024		
Period of Analysis	26/12/2024 To 01/01/2025		
Sampling Team	Idma Representative Team	Client	Mr. Vimal Mishra
Sampling Location#	Crusher Plant		
Visual Observation	N/A		
Date of Sampling	23/12/2024		
Date of Reporting	01/01/2025		
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	82.1	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	16.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	18.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	24.3	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	37.6	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.39	Max. 2	NAAQMS/36/2012-13



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TEST REPORT

Lab No.		261224N-E-002				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	µg/m ³	20.8	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	µg/m ³	2.11	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	µg/m ³	0.12	Max. 1	NAAQMS/36/2012-13	

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ANNEXURE-VI



GOVERNMENT OF JAMMU & KASHMIR
OFFICE OF THE ASSISTANT DIRECTOR FISHERIES DISTRICT KISHTWAR

Tel: 01995-2950455

Email ID: adfctr@gmail.com

The General Manager,
(I/C) HOP Pakal Dul HE Project
Kishtwar.

No: ADF/Ktr/Bata/2025-26/ 57-60

Dated: 28-04-2025

Subject: - Physical and Financial progress regarding implementation of
Fisheries Dev. Plan Pakal-Dul HE Project.

Ref:- Your office No: CVPP/PDHEP/GM/I/C)/2025/523 Dated:- 15-10-2025.

Sir,

Kindly refer to the subject and reference cited above, in this connection it is to submit that your Agency has released an amount of Rs. 389.10 lacs to Directorate of Fisheries J&K Govt. under EMP of Pakal Dul for establishment of Trout Rearing Unit Bata Wardwan. And the Directorate of Fisheries has, in turn, released the amount i.e. Rs.196.00 lacs further to this office for implementation of the project. The amount so received (Rs. 196.00 lacs) stands released/utilized by this office as per the following breakup:-

S.No.	Particulars	Amount. (Rs. in lacs)	Utilization (Rs. in lacs)
01	Released to PWD (R&B) Division Marwah for execution of Construction work.	150.65	U.C pending
02	Released to Addl. Deputy Commissioner Kishtwar on a/c of land compensation.	10.00	Utilized
03	Utilization for purchase of Vehicles(02 Nos)	24.60	24.26
04	Utilization as Administrative Charges.	05.50	4.92
05	Utilization for Survey and Investigation.	02.589	2.15
06	Utilization for purchase of Farm/Fishing Net and Gears.	03.00	0.15
	Total:-	196.00	--

Regarding physical progress it is to mention that the work of staff quarter, Trout Raceways, Inlet-Outlet drains, Desilting chamber and Chainlink fencing is near completion as per the statement of executing agency.

Yours faithfully


Assistant Director Fisheries
Implementing Officer CVPP
Funded Projects
District Kishtwar

Copy to the: -

1. Director Fisheries J&K Govt. for favour of kind information please
2. Joint Director Fisheries Chenab Valley Jammu for favour of information please.
3. Executive Engineer PWD (R&B) Division Marwah with the request to provide the detailed

ANNEXURE-VII



Department of Wildlife Protection, J&K Govt.
OFFICE OF THE WILDLIFE WARDEN
CHENAB KISHTWAR DIVISION
Forest Complex Sarkoot Kishtwar-182204 wildlifeprotectionkishtwar@gmail.com



The General Manager (I/c) HOP
Pakal Dul HE Project.
Kishtwar.

No. WLW/Ch-Ktr/2025-26/219

Dated: → 20-05-2025

Subject:- Regarding utilization Certificate/Physical and Financial progress report of
Wildlife Management Plan of Pakal Dul HE Project FY 2024-25.
Ref. No.:- Your letter No. CVPP/PDHEP/GM (I/c)/2025/524 Dt. 15-04-2025.

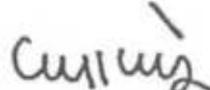
Sir,

In response to your letter No. quoted in reference, it is to submit that the year-wise amount utilization against the funds released to this division by the higher authority (CAMPA Cell) under Mitigation Plan of Kishtwar High Altitude National Park (KHANP) from year 2020-21 to 2024-25 is as under: -

Year	Funds allotted(in lac)	Amount utilized (lac)	Remarks
2020-21	919.15	383.00	Physical & Financial already submitted.
2021-22	1817.20	587.00	Physical & Financial already submitted.
2022-23	1322.25	407.00	Physical & Financial already submitted.
2023-24	903.10	382.862	Physical and Financial Progress report enclosed.
2024-25	1305.6435	321.684	Physical & Financial already submitted.

Encl. 6 leaves

Yours faithfully


(Chander Shekhar) SFS
Wildlife Warden
Chenab Division Kishtwar

ANNEXURE-VIII



UNION TERRITORY OF JAMMU & KASHMIR

OFFICE OF THE CHIEF MEDICAL OFFICER HEALTH & F.W KISHTWAR

District Administrative Complex / Mini Secretariat Kishtwar

E-mail: cmokishtwar@gmail.com

NO.: CMO/KTR/9615-20

Dated: 13-02-2025

Medical Superintendent,
District Hospital,
Kishtwar

Block Medical Officer,
Kishtwar.

Subject: Handover/Takeover of Two Ambulances under EMP of Pakal Dul HE Project-regarding

Ref.:

1. General Manager (I/c) HOP, Pakal Dool, HE Project's office letter No.: CVPPL/Kwar/HOP Sectt./2025/434 Dated: 01-02-2025
2. This office letter No.: CMO/KTR/9575-78 Dated: 06-02-2025.

Sir,

In continuation to this office's above referred letter (Ref. 2), you are requested to depute below named driver for handing over/taking over of Ambulances today on 13-02-2025 instead of 14-02-2025 as conveyed by Pakal Dool Authorities:

S.No.	institution/offices	Name of Drivers	Ref. No. Registration of Ambulances	Remarks
1	District Hospital Kishtwar	Sh. Irshad Ahmed	JK17A-9399	Drivers shall bring fresh log books.
2	Block Kishtwar	Sh. Tariq Parvez	JK17A-9362	

→ GM (HR)

[Signature]
13.02.2025

[Signature]
Chief Medical Officer,
Kishtwar.

Copy to the:

1. Deputy Commissioner Kishtwar, for favour of kind information.
2. General Manager (I/c) HOP, Pakal Dul HE Project, for kind information and necessary action.
- 3-4. _____ (Driver) for compliance.
5. Office copy for record.

[Signature]
Manager (Rm)

Diary / Receipt No. 805
Date _____ GM (I/C) Office



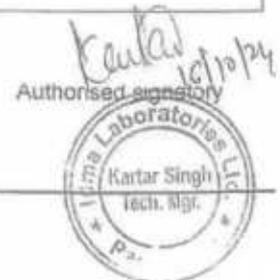
Idma Laboratories Limited

TEST REPORT

Lab No.	101024N-E-015		Page No. 1/2	
Customer#	Afcons Infrastructure Limited Pakal Dul Hydro Electric Project Dul Dam Site Colony, V.P.O. & Teh. Dul, Distt. Kishatwar (J & K) -18220 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.#	AFC/WO/2633/LLJ/2023/181	Dated	14/07/2023	
Date of Receipt of Sample	10/10/2024			
Period of Analysis	10/10/2024 To 16/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. A.K. Singh	
Sampling Location#	Stack Attach to DG caterpillar 1010KVA, Surge Shaft.			
Visual Observation	N/A			
Date of Sampling	07/10/2024			
Date of Reporting	16/10/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	8.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	28	-	-
4	Stack Temperature	°C	154	-	-
5	Velocity	m/s	13.2	-	-
6	Type of Fuel	-	HSD	-	-



Idma Laboratories Limited
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 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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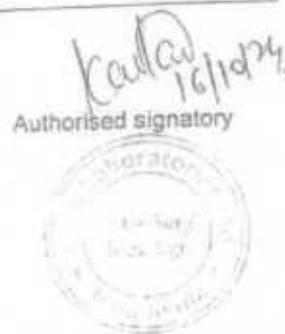
Idma Laboratories Limited

TEST REPORT

Lab No. 101024N-E-015					Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	25	-	-
8	Sampling Time	Minutes	30	-	-
9	Volumetric Flow rate	Nm ³ /hr	606.2	-	-
	PARAMETERS	-	-	-	-
10	PM	mg /Nm ³	51.3	Max 75	USEPA Method 5
11	CO	mg /Nm ³	48.1	Max 150	USEPA Method 10,10A
12	NOx	ppmv	142.5	Max 710	USEPA Method 7E

Represents details provided by the customer

End of Report



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Idma Laboratories Limited

TEST REPORT

Page No. 1/2

Lab No.	101024N-E-008		
Customer#	Afcns Infrastructure Limited Pakai Dul Hydro Electric Project Dul Dam Site Colony, V.P.O. & Teh. Dul, Distt. Kishatwar (J & K) -18220 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		Dated 14/07/2023
Work Order No.#	AFC/WO/2633/ILL/2023/181		
Date of Receipt of Sample	10/10/2024		
Period of Analysis	10/10/2024 To 16/10/2024		Client Mr. A.K. Singh
Sampling Team	Idma Representative Team		
Sampling Location#	Surge Shaft		
Visual Observation	N/A		
Date of Sampling	07/10/2024		
Date of Reporting	16/10/2024		
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	PM10	µg/m ³	81.6	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	19.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	21.2	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	24.6	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	38.9	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.52	Max. 2	NAAQMS/36/2012-13

Reviewed by

 Dipji Jain
 Asst. Tech. Manager

Authorised signatory

 Kartar Singh
 Tech. Mgr.

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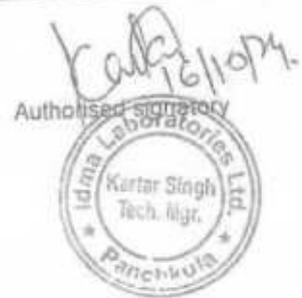
Idma Laboratories Limited

TEST REPORT

Lab No.		101024N-E-008			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	µg/m ³	20.8	Max. 100	NAAQMS/36/2012-13(Cheical method)
8	Benzene	µg/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/35/2012-13
12	Lead	µg/m ³	<0.1	Max. 1	NAAQMS/36/2012-13

Represents details provided by the customer.

End of Report



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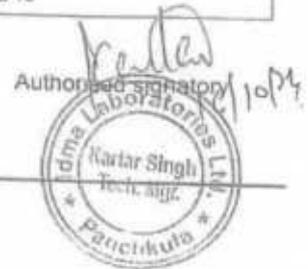
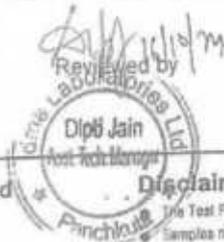
TEST REPORT

Page No. 1/2

Lab No.	101024N-E-009	
Customer#	Afcons Infrastructure Limited Pakal Dul Hydro Electric Project Dul Dam Site Colony, V.P.O. & Teh. Dul, Distt. Kishatwar (J & K) -18220 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.#	AFC/WO/2633/ILL/2023/181	Dated 14/07/2023
Date of Receipt of Sample	10/10/2024	
Period of Analysis	10/10/2024 To 16/10/2024	
Sampling Team	Idma Representative Team	Client Mr. A.K. Singh
Sampling Location#	Batching Plant (Pressure Shaft/Surge Shaft)	
Visual Observation	N/A	
Date of Sampling	07/10/2024	
Date of Reporting	16/10/2024	
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	PM10	µg/m ³	80.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	18.3	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	19.3	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	22.5	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	0.57	Max. 2	NAAQMS/36/2012-13



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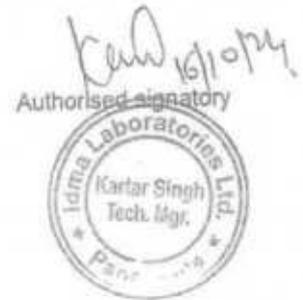
Idma Laboratories Limited

TEST REPORT

Lab No.		101024N-E-009			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	µg/m ³	20.3	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	µg/m ³	2.11	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	<6	Max. 20	NAAQMS/36/2012-13
12	Lead	µg/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.	101024N-E-010	Page No. 1/1
Customer#	Afcons Infrastructure Limited Pakal Dul Hydro Electric Project Dul Dam Site Colony, V.P.O. & Teh. Dul, Distt. Kishatwar (J & K) -18220 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.#	AFC/WO/2633/ILL/2023/181	Dated 14/07/2023
Date of Receipt of Sample	10/10/2024	
Period of Analysis	10/10/2024 To 16/10/2024	
Sampling Team	Idma Representative Team	Client Mr. A.K. Singh
Sampling Location#	Surge Shaft	
Visual Observation	N/A	
Date of Sampling	07/10/2024	
Date of Reporting	16/10/2024	
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)	72.3	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	67.2	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report

Reviewed by
16/10/24



Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
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Idma Laboratories Limited

TEST REPORT

Lab No.	101024N-E-011	Page No. 1/1
Customer#	Afcons Infrastructure Limited Pakal Dul Hydro Electric Project Dul Dam Site Colony, V.P.O. & Teh. Dul, Distt. Kishatwar (J & K) -18220 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.#	AFCWO/2633/ILL/2023/181	Dated 14/07/2023
Date of Receipt of Sample	10/10/2024	
Period of Analysis	10/10/2024 To 16/10/2024	
Sampling Team	Idma Representative Team	Client Mr. A.K. Singh
Sampling Location#	Batching Plant (Pressure Shaft/Surge Shaft)	
Visual Observation	N/A	
Date of Sampling	07/10/2024	
Date of Reporting	16/10/2024	
Sampling Protocol	CPCB PROTOCOL 2015	
Testing Protocol	EPA/CPCB	

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	70.3	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	66.9	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer

End of Report

Reviewed by
[Signature]
16/10/24



Authorised signatory



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.		101024N-E-016				Page No. 2/2
S.No.	Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
9	Hardness Total (as CaCO ₃)	mg/L	136	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
10	Total Dissolved Solids	mg/L	169	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
11	Sulphate as SO ₄	mg/L	8.1	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	<0.0005	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
16	Potassium	mg/L	1.32	-	-	APHA 3120 B 24th Edition, 2023
17	Sodium	mg/L	7.66	-	-	APHA 3120 B 24th Edition, 2023
18	Copper as Cu	mg/L	<0.0005	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023

Opinion :

Represents details provided by the customer

End of Report



Kartar Singh
16/11/24
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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Idma Laboratories Limited

TEST REPORT

Lab No.	101024N-E-016		Page No. 1/2
Customer#	Afcons Infrastructure Limited Pakal Dul Hydro Electric Project Dul Dam Site Colony, V.P.O. & Teh. Dul, Distt. Kishatwar (J & K) -18220 Jammu & Kashmir		
Type of Sample#	Drinking Water		
Customer's Description of Sample#	Drinking Water		
Quantity#	5 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	AFC/WO/2633/ILL/2023/181	Dated	14/07/2023
Date of Receipt of Sample	10/10/2024		
Period of Analysis	10/10/2024 To 16/10/2024		
Sampling Team Idma	Idma Representative Team	Client	Mr. A.K. Singh
Sampling Location#	Pressure Shaft Surge Shaft Camp.		
Visual Observation	N/A		
Date of Sampling	07/10/2024		
Date of Reporting	16/10/2024		
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	<5	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 CaCO3	mg/L	128	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	<0.0005	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	26.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	21.3	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023
8	Cyanide as CN	mg/L	<0.05	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023

Reviewed by
Dipti Jain
16/10/24

Authorised signatory
Kartar Singh
16/10/24
Kartar Singh
Tech. Mgr.

Idma Laboratories Limited
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Idma Laboratories Limited

TEST REPORT

Lab No.	101024N-E-017	Page No.	1/2
Customer#	Afcons Infrastructure Limited Pakal Dul Hydro Electric Project Dul Dam Site Colony, V.P.O. & Teh. Dul, Distt. Kishatwar (J & K) -18220 Jammu & Kashmir		
Type of Sample#	Surface Water (River)		
Customer's Description of Sample#	Surface Water (River)		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	AFC/WO/2633/ILL/2023/181	Dated	14/07/2023
Date of Receipt of Sample	10/10/2024		
Period of Analysis	10/10/2024 To 16/10/2024		
Sampling Team Idma	Idma Representative Team	Client	Mr. A.K. Singh
Sampling Location#	River Water Upstream, chenab River		
Visual Observation	N/A		
Date of Sampling	07/10/2024		
Date of Reporting	16/10/2024		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	<5	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.25	APHA 4500H+B 24th Edition, 2023
4	Chloride as Cl	mg/L	19.4	APHA 4500Cl- B 24th Edition, 2023
5	Dissolved Oxygen (DO)	mg/L	7.0	CPCB Guide Manual:Water & waste water Analysis
6	Fluoride as F	mg/L	0.24	CPCB Guide Manual:Water & waste water Analysis
7	Hardness Total (as CaCO3)	mg/L	131	APHA 2340C 24th Edition, 2023
8	Total Dissolved Solids	mg/L	210	APHA 2540 C 24th Edition, 2023

Reviewed by
16/10/24

Authorised signatory
16/10/24

Idma Laboratories Limited.

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Idma Laboratories Limited

TEST REPORT

Lab No.		101024N-E-017			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method	
9	Sulphate as SO ₄	mg/L	10.6	APHA 4500-SO ₄ -4 E 24th Edition, 2023	
10	Turbidity	NTU	<1	APHA 3130 B 24th Edition, 2023	
11	Taste	Qualitative	Agreeable	APHA 2160 B 24th Edition, 2023	
12	Residual Free chlorine	mg/L	<0.1	APHA 4500Cl B 24th Edition, 2023	
13	Cadmium	mg/L	BLQ (LOG -0.0005)	APHA 3120 B 24th Edition, 2023	
14	Potassium	mg/L	2.4	APHA 3120 B 24th Edition, 2023	
15	Sodium	mg/L	9.6	APHA 3120 B 24th Edition, 2023	
16	Copper as Cu	mg/L	BLQ (LOG -0.0005)	APHA 3120 B 24th Edition, 2023	

Opinion :

Represents details provided by the customer

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited

TEST REPORT

Lab No.	101024N-E-018	Page No.	1/2
Customer#	Afcons Infrastructure Limited Pakal Dul Hydro Electric Project Dul Dam Site Colony, V.P.O. & Teh. Dul, Distt. Kishatwar (J & K) -18220 Jammu & Kashmir		
Type of Sample#	Surface Water (River)		
Customer's Description of Sample#	Surface Water (River)		
Quantity#	5 Ltr.		
Packing, Markings, Seal & Quantity#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	AFC/WO/2633/ILL/2023/181	Dated	14/07/2023
Date of Receipt of Sample	10/10/2024		
Period of Analysis	10/10/2024 To 16/10/2024		
Sampling Team Idma	Idma Representative Team	Client	Mr. A.K. Singh
Sampling Location#	River Water Downstream, chenab River.		
Visual Observation	N/A		
Date of Sampling	07/10/2024		
Date of Reporting	16/10/2024		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	<5	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH	-	7.34	APHA 4500H+B 24th Edition, 2023
4	Chloride as Cl	mg/L	19.3	APHA 4500Cl- B 24th Edition, 2023
5	Dissolved Oxygen (DO)	mg/L	6.9	CPCB Guide Manual/Water & waste water Analysis
6	Fluoride as F	mg/L	0.19	CPCB Guide Manual/Water & waste water Analysis
7	Hardness Total (as CaCO ₃)	mg/L	128	APHA 2340C 24th Edition, 2023
8	Total Dissolved Solids	mg/L	199	APHA 2540 C 24th Edition, 2023

Reviewed by
10/10/24

Authorized signatory
16/10/24

Idma Laboratories Limited

Idma Corporate Park,

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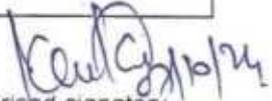
TEST REPORT

Lab No.	011024N-E-031	Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 07/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	Stack Attach DG Set Land-2 caterpillar 2000 KVA, DG Set. 25020099		
Visual Observation	N/A		
Date of Sampling	29/09/2024		
Date of Reporting	07/10/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.2032	-	-
3	Ambient Temperature	°C	27	-	-
4	Stack Temperature	°C	168	-	-
5	Velocity	m/s	13.7	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by 
Dipati Jain
Asst. Tech. Manager
Panchkula


Kartar Singh
Tech. Mgr.
Authorised signatory



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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-031				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	26	-	-
8	Sampling Time	Minutes	29	-	-
9	Volumetric Flow rate	Nm ³ /hr	1083.1	-	-
	PARAMETERS:	-	-	-	-
10	PM	mg /Nm ³	49.7	Max 75	USEPA Method 5
11	CO	mg /Nm ³	41.6	Max 150	USEPA Method 10,10A
12	NOx	ppmv	112.9	Max 710	USEPA Method 7E
13	SO ₂	mg /Nm ³	38.7	-	USEPA Method 6C
14	Total Hydro Carbons	mg/Nm ³	19.6	Max 100	USEPA Method 25A

Represents details provided by the customer.

End of Report



Authorised signatory



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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-032		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	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	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 07/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	Stack Attach DG Set Land-2, Cummins 125 KVA, DG set 2570-713-9			
Visual Observation	N/A			
Date of Sampling	29/09/2024			
Date of Reporting	07/10/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.1524	-	-
3	Ambient Temperature	°C	27	-	-
4	Stack Temperature	°C	106	-	-
5	Velocity	m/s	12.5	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed



Authorised signatory



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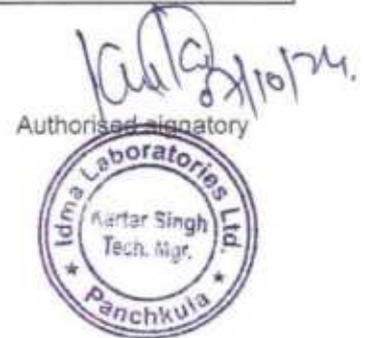
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TEST REPORT

Lab No.		011024N-E-032				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	24	-	-	
8	Sampling Time	Minutes	31	-	-	
9	Volumetric Flow rate	Nm ³ /hr	646.8	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	g/kW-hr	0.08	Max 0.2	USEPA Method 5	
11	CO	g/kW-hr	1.19	Max 3.5	USEPA Method 10,10A	
12	NOx +HC	g/kW-hr	1.86	Max 4.0	USEPA Method 7E	
13	SO2	g/kW-hr	1.44	-	USEPA Method 6C	

Represents details provided by the customer.

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-033	Page No.	1/2
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir		
Type of Sample#	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	16/07/2021
Date of Receipt of Sample	01/10/2024		
Period of Analysis	01/10/2024 To 07/10/2024		
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir
Sampling Location#	Stack Attach DG Set Portal Area Cummins 500 KVA, DG Set. 25961730		
Visual Observation	N/A		
Date of Sampling	29/09/2024		
Date of Reporting	07/10/2024		
Sampling Protocol	LATS/80/2013-14 USEPA:2013		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	5.0	-	-
2	Stack Diameter	Meters	0.2032	-	-
3	Ambient Temperature	°C	27	-	-
4	Stack Temperature	°C	126	-	-
5	Velocity	m/s	12.6	-	-
6	Type of Fuel	-	HSD	-	-



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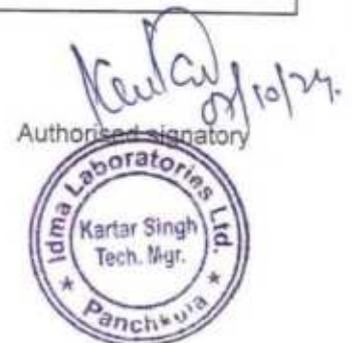
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TEST REPORT

Lab No.	011024N-E-033				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Sampling Flow rate	LPM	24	-	-
8	Sampling Time	Minutes	31	-	-
9	Volumetric Flow rate	Nm ³ /hr	1101.0	-	-
	PARAMETERS:	-	-	-	-
10	PM	g/kW-hr	0.11	Max 0.2	USEPA Method 5
11	CO	g/kW-hr	0.98	Max 3.5	USEPA Method 10, 10A
12	NOx +HC	g/kW-hr	1.87	Max 4.0	USEPA Method 7E
13	SO2	g/kW-hr	1.26	-	USEPA Method 6C

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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

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Idma Laboratories Limited

TEST REPORT

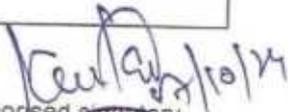
Lab No.	011024N-E-034		Page No. 1/2	
Customer#	Larsen & Toubro Limited Pakal Dul Hep Project (Dam Site) Chenab Nagar -II V.P.O. Dool, Tehsil & Distt. Kishtwar (J&K)-182204 Jammu & Kashmir			
Type of Sample#	Stack Emission (Boiler)			
Customer's Description of Sample#	Stack Emission (Boiler)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	01/10/2024			
Period of Analysis	01/10/2024 To 07/10/2024			
Sampling Team	Idma Representative Team	Client	Mr. Vaseem Zahir	
Sampling Location#	Stack Attach Boiler Thermax 600 Kg/hr, DG Set. RXA 06/3764			
Visual Observation	N/A			
Date of Sampling	28/09/2024			
Date of Reporting	07/10/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
1	Stack Height	Meters	30	-	-
2	Stack Diameter	Meters	0.5	-	-
3	Ambient Temperature	°C	27	-	-
4	Stack Temperature	°C	145	-	-
5	Velocity	m/s	12.3	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by

Dipti Jain
Asst. Tech Manager


Authorised signature

Kartar Singh
Tech. Mgr.


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Idma Laboratories Limited

TEST REPORT

Lab No.	011024N-E-034					Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	23	-	-	
8	Sampling Time	Minutes	33	-	-	
9	Volumetric Flow rate	Nm ³ /hr	6211.5	-	-	
	PARAMETERS:	-	-	-	-	
10	PM	mg /Nm ³	102.3	Max 500	USEPA Method 5	
11	CO	%	<0.1	-	USEPA Method 10, 10A	
12	NOx	mg /Nm ³	122.3	Max 300	USEPA Method 7E	
13	SO2	mg /Nm ³	89.6	Max 600	USEPA Method 6C.	
14	Total Hydro Carbons	mg/Nm ³	18.2	-	USEPA Method 25A	

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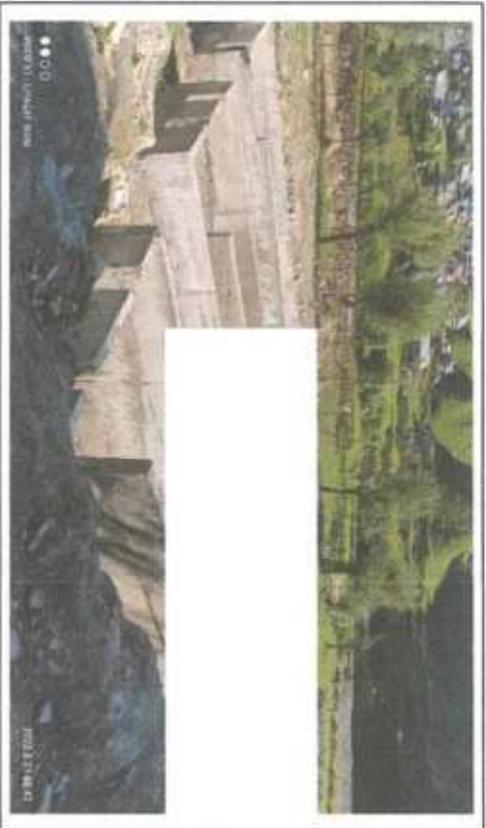
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Environmental Monitoring (Air, Water & Noise) at Pakal Dul Construction Sites.

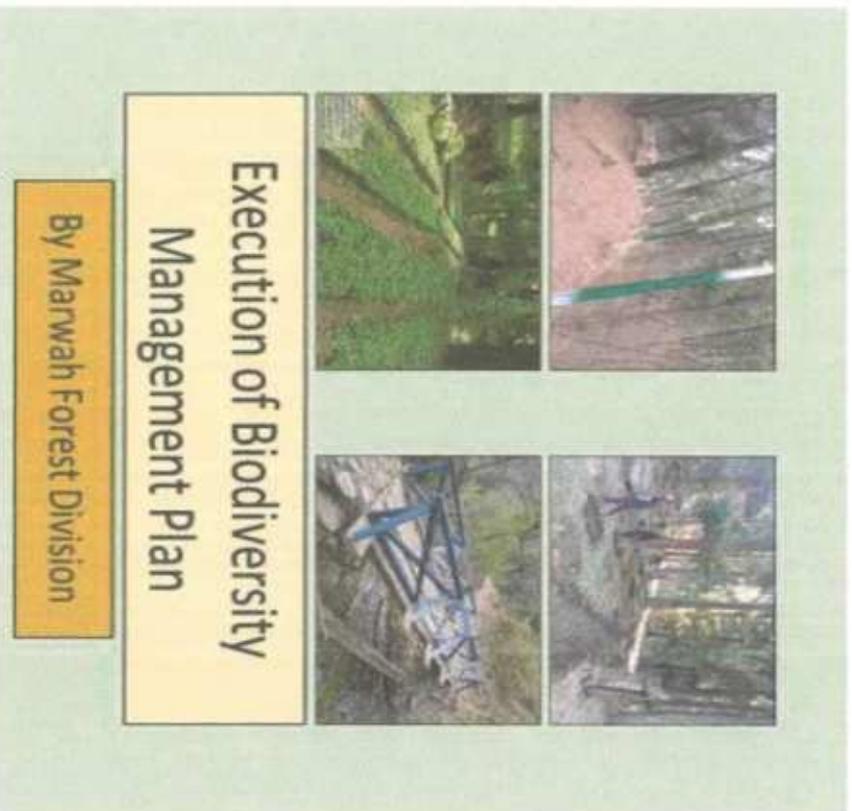


ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HEP

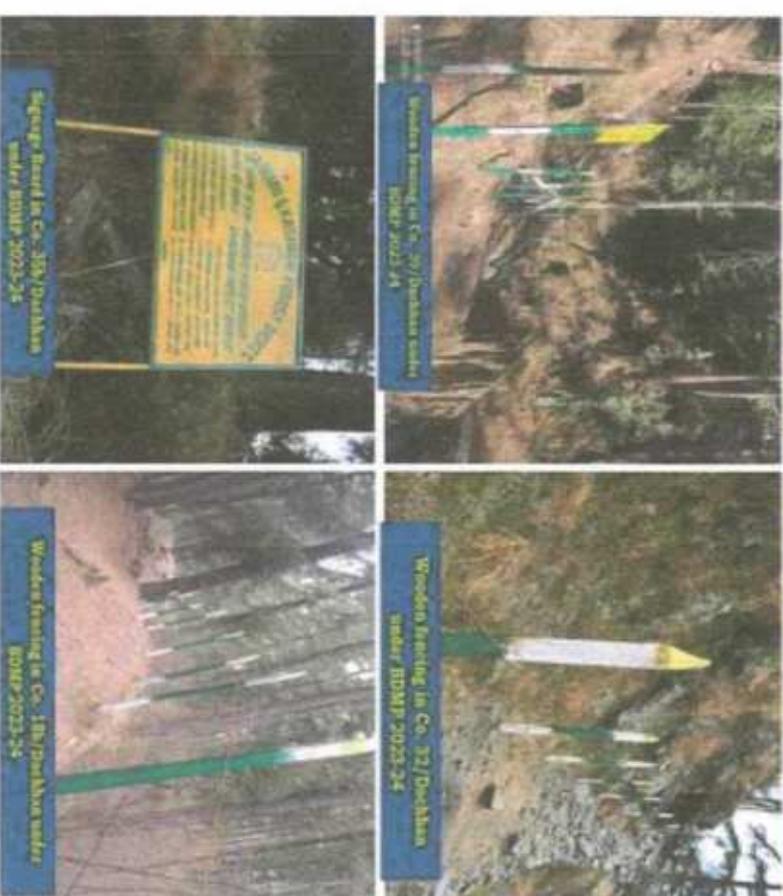


Construction of Fish Hatchery under EMP of Pakal Dul HE Project.





Fencing work under BDMP



ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HEP

Nursery Raising under BDMP



Plantation work under BDMP



Activities/Implementation of Biodiversity Management Plan (BDMP) under EMP of Pakal Dul HE Project

	
Name of the Wooden Cantilever Bridge	Sumoo over Kiyar Mallah
Span	120 feet
Location	Sumoo in b/w Co. 24/D and 25/D
Year of Construction	2022-23
Total Expenditure	16,80598 lacs
No. of Village connected	06
No. of Household benefits	1000 including/Nomads



Activities/Implementation of Biodiversity Management Plan (BDMMP) under EMP of Pakal Dul HE Project

ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HEP



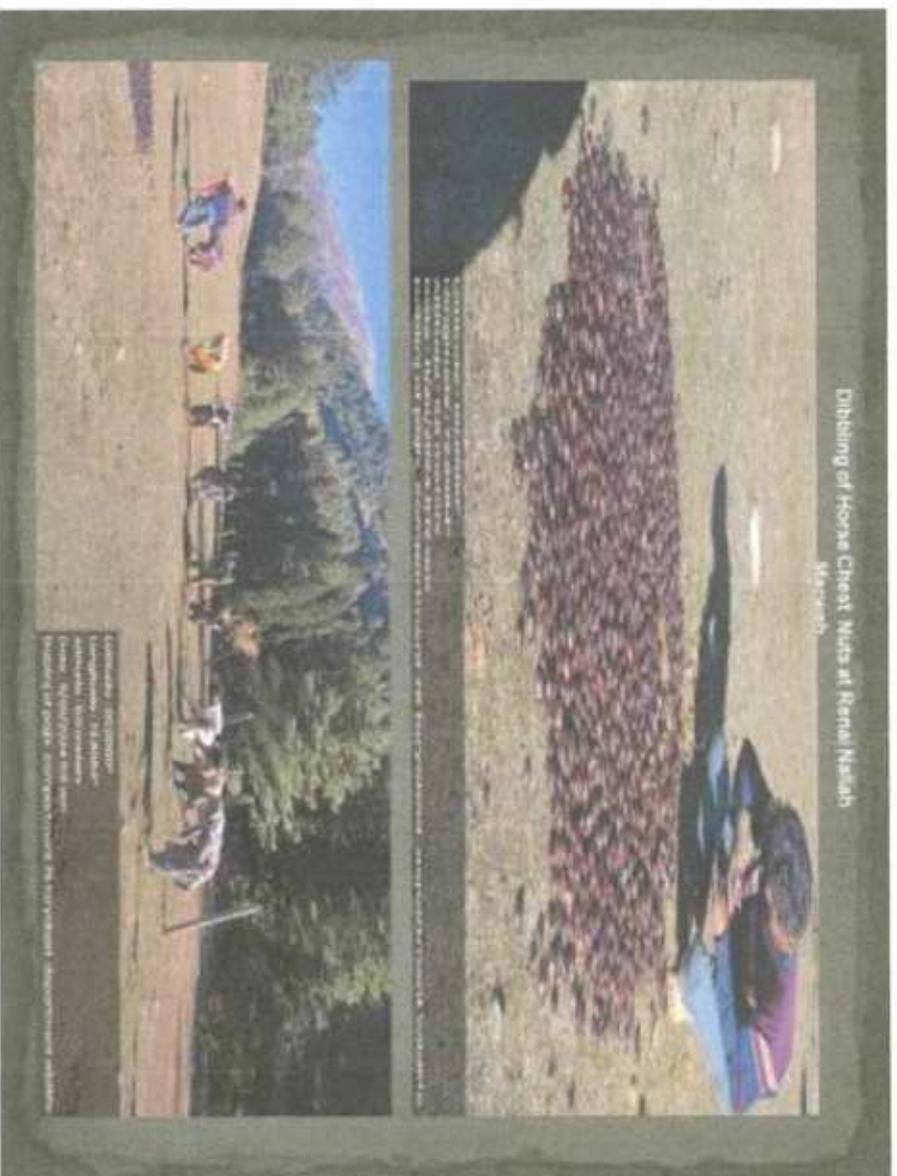
Activities/Implementation of Wildlife Mitigation Plan under EMP of Pakal Dul HE Project

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Activities/Implementation of Wildlife Mitigation Plan under EMP of Pakal Dul HE Project

ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HE



Basic Life Support Ambulance handed over to District Administration, Kishitwar under R&R Plan.

ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HEP



Construction of Badminton court at Girls Higher Secondary School in Sounder, Dachhan, Kishtwar.

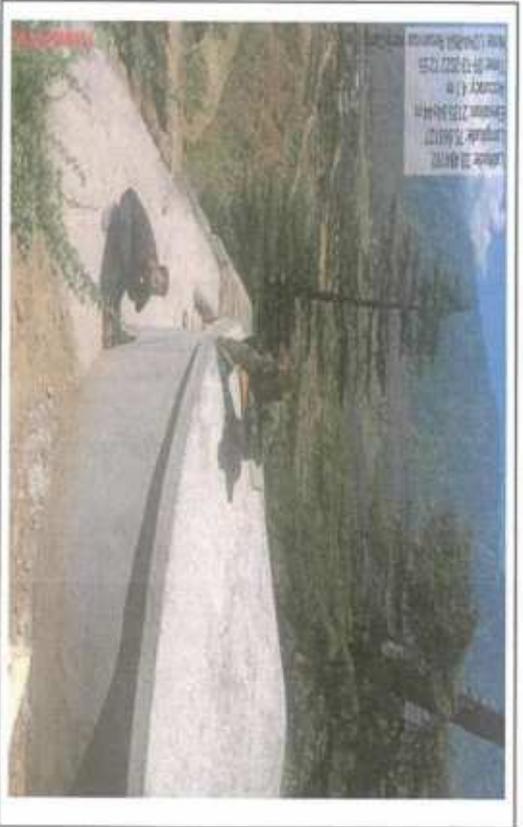


Construction of Dipping Vat at village Dool, Kishtwar for sheep husbandry disease management.



Construction of Dipping Vat at village Sounder, Dachhan, Kishtwar for sheep husbandry disease management.

ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HEP



Construction of Drinking Water Reservoir at village Loharna, Dachhan

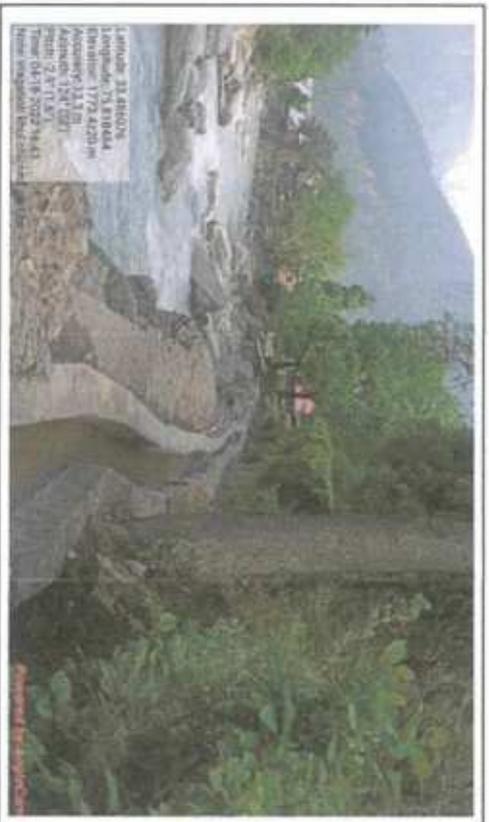


Construction of Veterinary Dispensary at Dool, Kishtwar.

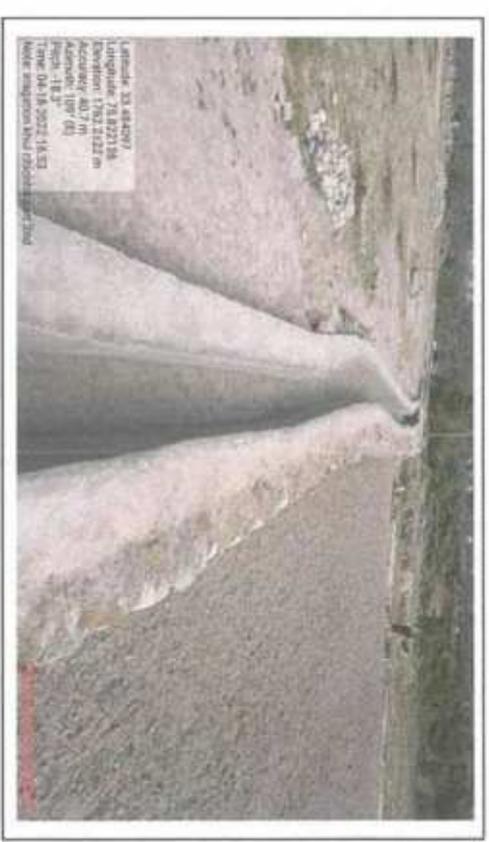
ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HEP



Distribution of Livestock First Aid Kits to PAFs.



Construction of Irrigation Canal Part-1 at Village Chichha.



Construction of Irrigation Canal Part-2 at Village Chichha.

ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HEP



Construction of Demonstration-cum-Training Centre at Souder (Dachhan) for imparting Skill Development Trainings to PAFs.