

चिनाब वैली पावर प्रोजेक्ट्स लिमिटेड
एनएचपीसी लिमिटेड (भारत सरकार का एक नवरत्न 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 Navratna Enterprise) &
JKSPDC (A Govt. of J&K Enterprise)

सीआईएन / CIN: U40105JK2011GOI003321

महाप्रबंधक (प्रभारी)

General Manager (I/c)

परियोजना प्रमुख

Head of Project

पकल दुल एच.ई. प्रोजेक्ट, किश्तवाड़

Pakal Dul H.E. Project, Kishtwar

दूरभाष/ Phone No.: 01995-295192

ईमेल/ email: hop-pdhep@cvppindia.com

No. CVPPL/PDHEP/GM (I/c)/2025/ 1652.

Dated: 25.11.2025

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

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

**Sub: Pakal Dul HE Project (1000 MW) in District Kishtwar, J&K – Submission of
Environment Clearance Compliance Report (ECCR) for the period from April, 2024
to September, 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 (April, 2024 to September, 2025.) is being enclosed herewith for your kind information.

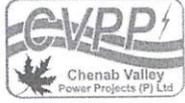
Thanking you,

Yours sincerely,


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

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: CVPPL, CO, Jammu.
4. General Manager (HR/Env.) Pakal Dul HE Project, Kishtwar.



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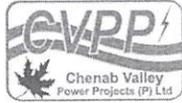
Pakal Dul Hydro Electric Project
Chenab Nagar – II, Kishtwar, (J&K) –182206
CIN NO. U40105JK2011GOI003321

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

ANNEXURE-I

Six Monthly EC Compliance Report of Pakal Dul HE Project (1000 MW)
(April, 2025 to September, 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>



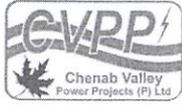
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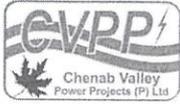
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4	Locations (a) District (s) (b) State/UT (c) Latitude (d) Longitude	(a) Kishtwar (b) Jammu and Kashmir (c) 33°27'30"N (d) 75°48'50"E																										
5	Address for Correspondence (a) Address of concerned Project Head (with Pin code, Telephone/Fax 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="790 1108 1460 1635"> <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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8	<p>Breakup of Project affected population with enumerations of those losing house/dwelling units only, agriculture land only, both house and agriculture land and landless labours/artisans.</p> <p>(a) SC/ST/Adivasis (b) Others</p>	<p>No of affected villages: - 6 Displaced PAFs: - 110 Non displaced PAFs: - 656 Total PAFs: - 766</p> <p>(a) Scheduled Tribe: - 2</p>																														
9	<p>Financial Details</p> <p>(a) Project cost as originally planned and subsequent revised estimates and the year of price reference</p> <p>(b) Actual expenditure incurred on the Project so far</p> <p>(c) Allocation made for Environment Management Plan</p> <p>(d) Actual expenditure incurred on EMP so far</p>	<p>(a) Project cost: 12727.76 Cr (2024 PL)</p> <p>(b) Actual expenditure: Rs.7564.36.73 Crs (till September 2025)</p> <p>(c) Allocations for EMP: 330.32 Crs.</p> <p>(d) Actual expenditure incurred on EMP: Expenditure incurred by CVPPPL on EMP and other related activities as on date:</p> <table border="1" data-bbox="786 1126 1444 1597"> <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>1.098</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 align="right" colspan="2">Total</td> <td>585.453</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	1.098	7.	CAT Plan	44.465	8	Public Health Delivery System	0.31	Total		585.453
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10	<p>Forest Land Requirements</p> <p>(a) Status of approval diversion of Forest Land for non-forestry use</p>	<p>(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</p>																														

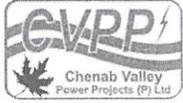


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		<p>(earlier KHANP land) on left bank of dam/ reservoir along with 7.2 Ha of Forest Land for underground works in Dul area has been accorded by GoJK on dated 29.11.2016. Requisite amount of Rs 178.2055 Cr deposited with J&K State Forest department on 18.06.2016 and the amount of Rs. 236 Crs towards wildlife management was deposited on 19.09.2016.</p> <p>Government sanction order for additional 12.125 ha of Forest land at left bank of river Marsudar stands accorded vide Govt. order no 207-FST of 2018 dated 26.06.2018. Requisite amount of Rs 6.3083663 Cr deposited with J&K State Forest department on 15.05.2018.</p> <p>Government sanction order for felling of trees coming under already diverted forest land at left bank of river Marsudar stands accorded vide Govt. order no 225-FST of 2018 dated 17.07.2018. Requisite amount of Rs 7613899/- deposited with J&K State Forest department on 15.05.2018.</p> <p>Government sanction order for felling of trees coming under already diverted forest land at right bank of river Marsudar stands accorded vide Govt. Order No. 531-(JK) FST of 2019 dated 12.12.2019. Requisite amount of Rs. 1490391/- deposited with J&K State Forest department.</p> <p>Government sanction order for diversion of 0.6434 ha of Forest land at left bank of river Marsudar stands accorded vide Government order no. 17(JK)FST of 2020 dated 30.01.2020. requisite amount of Rs. 505310/- deposited with J&K State Forest department.</p> <p>The diversion of 11.34 ha of Forest land at Reservoir Site of the Project is under process of diversion through Parivesh Portal.</p>
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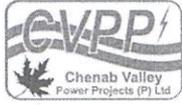


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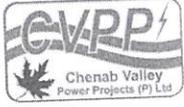
	(b) The status of clear felling of trees in Forest Land	(b) Clear felling status: The requisite amount of Rs 4.31413 Cr towards cost for extraction of trees has been deposited with J&K State Forest Corporation. The work of tree felling and extraction is in progress.
11	Status of Construction (a) Date 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.



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 GoI to Rs. 36.38 Crs.) The plan is to be implemented by Soil & Water Conservation Department, GoJK. Accordingly, Soil & Water Conservation Department, GoJK revised the plan as per prevailing site conditions to Rs. 44.465 crores.</p> <p>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.</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 26.08.2025, wherein CAT Plan of Pakal Dul HEP was discussed threadbare and various decisions for implementation of the said plan were taken. The MoM of the said meeting are enclosed as (ANNEXURE- I).</p>
ii	During the construction of the project, if any person/family whose acquired land is more than 70% of the total land holding is identified, such family/person shall be treated as fully affected families. R&R package proposed for the displaced families shall be extended to such families. NRRP-2007 package will be followed for R&R of PAFs.	<p>The RR Plan of Pakal Dul HEP has been approved by GoJK vide Government Order No's. 12-DMRR&R of 2017 dated 22.02.2017 and 11-DMRR&R of 2019 dated 07.03.2019. The approved R&R Plan is under implementation.</p> <p>The formulation, approval and implementation of R&R plan comes under the purview of State/UT Government which has adopted a uniform approach in providing the R&R benefits for the PAFs of different HE projects in J&K. The recommendations of MOEF&CC for considering non-displaced PAFs with more than 70% of total land holdings as displaced PAFs has not been approved</p>



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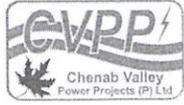
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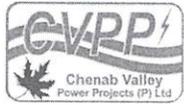
		by the State Government for any of the HE Project so far. Hence this provision has not been considered by Government of J&K in formulation and approval of R&R plan for Pakal Dul HE Project. The Project had deposited an amount of Rs. 74.09 Cr. with Commissioner R&R (Deputy Commissioner, Kishtwar) out of which 68.59 Cr. has been utilized by Commissioner R&R for implementation of approved R&R Plan of the Project (ANNEXURE- II).
iii	A Monitoring Committee for R&R should be constituted which must include representatives of project affected persons from SC/ST category and a woman beneficiary.	<p>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 which includes representatives of project affected persons from SC/ST category and a woman beneficiary.</p>
iv	The commitment made during the public hearing should be fulfilled.	<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 strengthening 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. The said plans are being implemented through GoJK.</p>
v	All the equipment which are likely to generate high noise levels are to be fully equipped (noise reduction measures) to meet the ambient noise control standards	<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- III).</p>



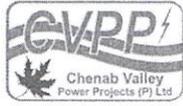
vi	Consolidation and compilation of the muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan for 70.85 lakh cum of muck disposal i.e. about 34 lakh cum is proposed to be utilized during construction and the remaining 36.86 lakh 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 for the said period are as under: Total Muck Generated: 652342.73 Cum Total Muck Utilised: 380009.37 Cum Total Muck Disposed at Dumping Sites: 272333.36 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- IV).
viii	<p>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:</p> <p>(a) Provisions proposed for the habitat improvement in the Mitigation Plan should be discussed with Wildlife Institute(WII), Dehradun and be modified accordingly.</p> <p>(b) State Wildlife Department may redefine the core area of the National Park considering the human population pressure etc.</p> <p>(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>	<p></p> <p>a) Complied Mitigation Plan has been prepared/ modified by J&K Wildlife Department in consultation with Wildlife Institute of India, Dehradun.</p> <p>b) Complied The core area of the KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK.</p> <p>c) Complied Final forest clearance for 195.9619 Ha land (i.e. 188.7619 ha of KHANP land and 7.2 ha of forest land) has been obtained vide Govt. Order no. 289-FST 2016 dated 29.11.2016 of GoJK for which Project has deposited Rs 414.20 Crs to Forest Dept. which includes Rs.236 Crs and also Rs.100 Crs for the corpus fund for the protected area for</p>



		conservation of wildlife. 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 by the J&K Wildlife Department. (ANNEXURE- V)
ix	No construction work/activity should be initiated till Supreme Court grants de-reservation of National Park area.	Complied vide SRO no. 212 dated 06.07.2015 of GoJK issued after grant of approval by Honorable Supreme Court.
x	Clear felling of trees should be restricted to 4 m below the FRL and a 50 m greenbelt should be created around the reservoir periphery.	Being complied. The tree cutting along the FRL is being done only in the area required for the project construction works. The process for creation of greenbelt shall be initiated at the appropriate time.
General Conditions		
i	Adequate free fuel arrangement should be made for the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.	Being complied. Free fuel arrangements are being made by the respective contractors for their labour force engaged for Power House Works, HRT-TBM Works and Dam Works, at their own cost. The expenditure incurred by all contractors on account of Free Fuel Arrangements for the period April 2025 to September 2025 is Rs. 32,62,924.43/-
ii	Fuel depot's maybe opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as drinking water & recreational facilities should also be provided to the laborers.	Being complied. Free fuel arrangements for labourers have been made by the contractors. Adequate drinking water, recreational and sanitation facilities have been provided by the respective contractors at residential areas of their labour force. An amount of Rs. 50,32,334.00/ for the said period has been expended by Project major works contractors and details of these medical facilities established by major works contractors for their laborers and locals sare as under: 1. Dam Package (by M/s Jaiprakash Associates Limited): One medical unit with one patient bed,



		<p>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 April 2025 to September 2025 is Rs. 2774758.00</p> <p>2. Power House Package (by M/s Afcons - JAL Joint Venture): First Aid Centre & Hospital at 3 locations and two fully equipped ambulances are functional at Power House Site of the Project. Being managed by 06 No's First Aiders and 4 Ambulance Drivers. The necessary medicines and oxygen cylinders are available at First Aid Centre. Medical facility also made available to nearby local villagers. The expenditure incurred for the period April 2025 to September 2025 is Rs. 17,29,390.00.</p> <p>3. HRT-TBM Package (by M/s L&T Limited) One first aid centre at Site is managed by 05 No's of male nurses and a doctor is also available at site. Regular health checkups and test are conducted fortnightly. The expenditure incurred for the period April 2025 to September 2025 is Rs.5,28,186.00.</p> <p>4. 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- VI.)</p>
iii	<p>All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.</p>	<p>Being complied.</p>
iv	<p>Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.</p>	<p>Shall be complied. After completion of dumping and quarrying operations, the remediation, rejuvenation and landscaping of these sites shall be carried out by applying proper Engineering and Biological measures.</p>

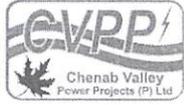


Chenab Valley Power Projects Ltd.
A Joint Venture of NHPC (A Govt of India Enterprise) & JKSPDC (A Govt of J&K Enterprise)

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

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

v	The total amount of Rs. 9979.29 lakhs kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose.	Being complied.
vi	A Multidisciplinary committee in consultation with the Ministry should be constituted with Ecologists, Environmental Scientists, Conservationists and experienced administrators etc. to oversee the effective implementation of the suggested safeguard measures.	Approval for Constitution of Multidisciplinary committee (MDC) for Pakal Dul HEP was accorded by MoEF&CC vide no: J-12011/51/2007-IA-I(Part) dated 10.07.2018 with amendments issued vide No. J-12011/51/2007-IA-I(R) dated 02.05. 2019. & F. No.J-12011/51/2007-IA (R) Dated 11.03.2020.
vii	Six monthly monitoring reports should be submitted to the Ministry and its Regional Office, Chandigarh for review.	Being complied. Six monthly Environment Clearance Compliance Reports are being timely submitted to the Ministry and its Regional Office, Chandigarh/Jammu.The Air, Water and Noise quality monitoring reports are also enclosed as (ANNEXURE- III) .
Other Conditions mentioned in the EC Letter:		
4.	Officials from Regional Office MoEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.	Shall be complied
5.	The responsibility of implementation of environmental safeguards rests fully with the NHPC Ltd. and Government of J&K.	Noted
6.	In case of change in the scope of the project, project would require a fresh appraisal.	There is no change in the scope of the project. Shall be complied, if required.
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.



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.

Annexure-I

Forest Complex, Mithkh
Bhgl, Lal Chok, Jammu, 19007
Forest Resource Mgmt Centre,
Narnal Jammu, Jammu

Phone: 0191 2481077

Phone: 0191 3311000



URL Address: www.pccf.org/jk
E-mail: pccf.fot.jk@nic.in



Jammu & Kashmir Forest Department
Office of the Pr. Chief Conservator of Forests & HoFF
Government of Jammu & Kashmir

Minutes of Meeting held under the Chairmanship of Mr. Suresh K. Gupta, IFS, PCCF (HoFF), J&K on 22-08-2025 at Forest Resources Management Complex, Jammu to review the progress regarding implementation of Catchment Area Treatment plan, Wildlife Management and Biodiversity Plans of Pakul, Kiru and Kwar Hydro Electric Projects.

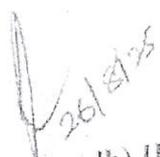
The meeting was held under the Chairmanship of Mr. Suresh K. Gupta, IFS, PCCF & HoFF, J&K to review the progress regarding implementation of aforementioned Plans of Pakul, Kiru and Kwar Hydro Electric Projects in Chenab circle.

The following Officers attended the meeting:

1. Mr. T. Rabi Kumar, Pr.CCF /CEO CAMPA.
2. Mr. Sandeep Kujur, IFS, PCCF/Director, Soil & Conservation Departments
3. Dr. K. Anandh, IFS, Chief Conservator Forests, Central (Link Officer, FCA).
4. Dr. M.K. Kumar, IFS, Chief Conservator Forests, Jammu.
5. Dr. Arashdeep Singh, IFS, Conservator of Forests, Chenab Circle, Doda
6. Mr. Ramesh Mukhiya, Managing Director, Chenab Valley Power Projects Ltd
7. Mr. Mahesh Thakur, Divisional Forest Officer, Kishtwar
8. Mr. Vishal Choudhary, Divisional Forest Officer, Marwah
9. Mr. Khalid Mehmood Balwan, I/c District Soil Conservation Officer, Doda
10. Mr. Brahmeshwar Kumar, Representative of Pakul Dul HEP
11. Dr. Ravi Sharma, Representative of Kiru HEP
12. Mr. Baljeet Singh, Representative of Kwar HEP

approved by Executive and Steering Committees of J&K CAMPA, and stand submitted to the National CAMPA for approval. The approval from the National CAMPA is awaited. Further, it was informed that funds in respect of Catchment Area Treatment and Biodiversity Plans of Pakul, Kiru and Kwar HEPs were deposited by the CVPP with National CAMPA account. The National CAMPA is yet to transfer the funds to J&K CAMPA. It was decided that CEO National CAMPA be approached for early release of the funds to J&K CAMPA.

The meeting ended with a Vote of Thanks to the Chair.


(Dr. K. Anandh) IFS
Chief Conservator of Forests
Central

Dated: 26-08-2025

No: PCCF/FCA/CATPlan/3034-43

Copy to:

1. PCCF/Chief Wildlife Warden, J&K
2. Pr.CCF /CEO CAMPA.
3. PCCF/Director, Soil & Conservation Departments
4. Chief Conservator Forests, Jammu.
5. Conservator of Forests, Chenab Circle, Doda
6. Managing Director, Chenab Valley Power Projects Ltd
7. Divisional Forest Officer, Kishtwar
8. Divisional Forest Officer, Marwah
9. I/e District Soil Conservation Officer, Doda
10. Sr. PS to Pr.CCF & HoFF J&K for kind information of the Pr.CCF & HoFF J&K.

Annexure-II



20073755
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. G. Anand

31/3/2017

No: R&R/Rehab/21/2016
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/DD/87
31/3/17
FK/15

Done
Endgym to Pakal Dul
CE Pakal Dul
SM Pakal Dul



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

Subject: Rehabilitation and Resettlement Plan for 1000MW Pakal Dul Hydro Electric Project Kishtwar, J&K for additional six Project Affected Families (PAFs) in lieu of additional land acquired for the Project.

Ref: State Administrative Council (SAC) Decision No.215/21/2019 dated 13.09.2019

Government Order No. 50 -DMRRR of 2019
D a t e d : 23 -09- 2019

Sanction is hereby accorded to providing of compensation/rehabilitation of six Project Affected Families of village Sounder, Dangduran, Tehsil Dachhan, District Kishtwar strictly as per their entitlement in terms of the Rehabilitation & Resettlement Plan of Pakal Dul Hydro Electric Project Kishtwar already approved by the Government.

The details of the six (06) PAFs are as under:-

S.No	Name of the PAF with Parentage S/Shri/Smt.
1	Irshad Ahmed S/o Abdul Rashid Sheikh
2	Sajjad Hussain S/o Abdul Rashid Sheikh
3	Mohd Hussain S/o Habib Butt
4	Muzaffar Hussain S/o Gh.Rasool Mengan
5	Gh. Mohi ud Din S/o Gh. Rasool Mengan
6	Fatima Begum Wd/o Gh. Rasool Mengan

Further, Deputy Commissioner, Kishtwar shall scrutinize each case carefully and workout the entitlement before release.

By order of the Government of Jammu and Kashmir.

Sd/-

(Pandurang K.Pole) IAS
Secretary to the Government,
K.T.O

Copy to:
1. CGM (Pakal Dul)
2. CGM (Pdg)
3. CGM (Fam)

CVPP Limited
MD Sect.
Despatch No. 1556
Dated. 25.10.19

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, Sounder-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: 21.02.2017

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

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 an implemented with total additional cost of Rs. 15,10,73,000.

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

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 CVPP after commissioning of the project.

xxii. Approval of appointment of Deputy Commissioner, Kishtwar as
Commissioner for the Rehabilitation & Resettlement of PAFs of
624 MW Keeru & 1000 MW Pakal Dul Hydro Electric Projects.

By order of the Government of Jammu and Kashmir

Sd/-
(Khurshid Ahmad) IAS
Commissioner/Secretary to Government,
Department of Disaster Management,
Relief, Rehabilitation and Reconstruction

Dated: 7.03.2019

No:- DMPRE&R/Rehabi/17/2017

Copy to the:-

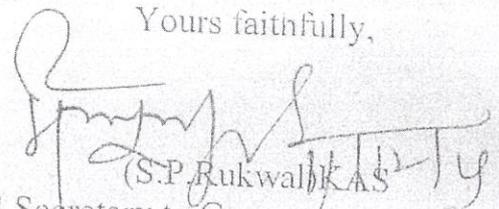
1. Principal Secretary to Hon'ble Governor, J&K.
2. Principal Secretary to Government, Housing and Urban Development Department
3. Financial Commissioner, Revenue, J&K, Jammu.
4. Principal Secretary to Government, Planning Development and Monitoring
Department.
5. Commissioner/Secretary to Government,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

(Reetika Arora) KAS
Deputy Secretary to the Government
Department of Disaster Management,
Relief, Rehabilitation and Reconstruction

Animal Husbandry Department.	Kwartanji & Dachhan	Land 02 kanals for each area (Total 04 Kanal) for veterinary dispensary. 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). One Ambulatory Van for door to door veterinary services in the affected areas.	Rs. 20.00 laes Rs. 60.00 laes. Rs. 10.00 laes	Rs. 90.00 laes
Sheep Husbandry Department	Kwartanji & Dachhan	Construction of Dipping Vats (@ Rs.1.00.laes in each area). First Aid Kit for all 760 PAFs @ Rs. 300/- per kit	Rs. 2.00 laes 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 Deptts.	Rs. 72.00 laes	Rs. 72.00 laes.
Tourism Department Infrastructure development for recreation in affected area	Soundar & Panjdihara	a. common facilitation Centre (@ 125.00 laes in each area) b. Recreational Parks in both areas (10 Kanal land in each area)	Rs. 250.00 laes 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.

4.



GOVT OF JAMMU & KASHMIR

OFFICE OF THE DEPUTY COMMISSIONER KISHTWAR

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

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

ORDER

In compliance to Environment Clearence 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

Copy to the:-

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

Annexure-III



Idma Laboratories Limited



TEST REPORT

Lab No.	200625L-ED-037/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 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.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	Crusher Plant (Casting Yard)			
Visual Observation	N/A			
Date of Sampling	18/06/2025			
Date of Reporting	25/06/2025			
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	PM 10	µg/m ³	76.6	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	37.2	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m ³	15.3	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m ³	17.2	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m ³	19.5	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m ³	21.0	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



Idma Laboratories Limited Panchkula Disclaimer :

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

- The Test Report is only for the sample tested.
- Samples not drawn by us unless otherwise stated.
- Total liability of Idma Laboratories Limited is limited to the invoiced amount.
- If sample(s) not consumed, they will be stored & retained as per Company Policy/ Quality System Procedure.
- The Test Report shall not be reproduced except in full without the written approval of the laboratory.
- The Test Report is intended only for guidance & not for legal purpose or for advertisement.
- The Test Report in full or parts shall not be used for promotional or publicity purpose.
- Legal disputes are subject to Panchkula Jurisdiction only.
- Any complaint/discipancies in this Test Report Should be communicated in writing within 15 days of the dispatch of Test Report.
- In case of any dispute, the terms & conditions of Idma Laboratories Limited shall prevail.
- In case of any feedback/complaints, please send email to testing@idmagroup.co.in or call at 0172 - 5064827 / 5064830



Idma Laboratories Limited



TEST REPORT

Lab No.	200625L-ED-037/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m ³	0.11	Max. 1.0	EPA/625/R-96/010a

Represents details provided by the customer.

End of Report



Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

Disclaimer :

- The Test Report is only for the sample tested.
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- In case of any feedback/complaints, please send email to testing@idmagroup.co.in or call at 0172 - 5064827 / 5064830



Idma Laboratories Limited

TEST REPORT

Lab No.	200625L-ED-037/B		Page No. 1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 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.#	EL176WOD000061	Dated	16/07/2021
Date of Receipt of Sample	20/06/2025		
Period of Analysis	20/06/2025 To 25/06/2025		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik
Sampling Location#	Crusher Plant (Casting Yard)		
Visual Observation	N/A		
Date of Sampling	18/06/2025		
Date of Reporting	25/06/2025		
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	0.52	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.09	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)

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End of Report



Idma Laboratories Limited

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Tel No. 0172 - 5064827, - 5064830
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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	200625L-ED-038/A		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 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.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	HRT Tunnel Portal			
Visual Observation	N/A			
Date of Sampling	18/06/2025			
Date of Reporting	25/06/2025			
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	PM 10	µg/m ³	79.2	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	40.1	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	17.2	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	19.0	Max. 80	IS 5182 (Part 6)
5	NH ₃	µg/m ³	22.5	Max. 400	IS 5182 (Part-25)
6	Ozone	µg/m ³	20.0	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a



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TEST REPORT

Lab No.	200625L-ED-038/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a

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Idma Laboratories Limited

TEST REPORT

Lab No.	200625L-ED-038/B		Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 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.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	HRT Tunnel Portal			
Visual Observation	N/A			
Date of Sampling	18/06/2025			
Date of Reporting	25/06/2025			
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	0.44	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	<2	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)

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TEST REPORT

Lab No.	200625L-ED-039		Page No.	1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 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.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	Batching Plant Area			
Visual Observation	N/A			
Date of Sampling	18/06/2025			
Date of Reporting	25/06/2025			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	68.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	61.2	Max 70	CPCB PROTOCOL July 2015.

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TEST REPORT

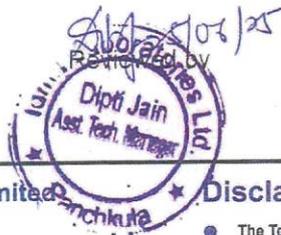
Lab No.	200625L-ED-040		Page No.	1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Noise Level (Ambient)			
Customer's Description of Sample#	Noise Level (Ambient)			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	Crusher Plant Area			
Visual Observation	N/A			
Date of Sampling	18/06/2025			
Date of Reporting	25/06/2025			
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)	72.5	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	67.3	Max 70	CPCB PROTOCOL July 2015.

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TEST REPORT

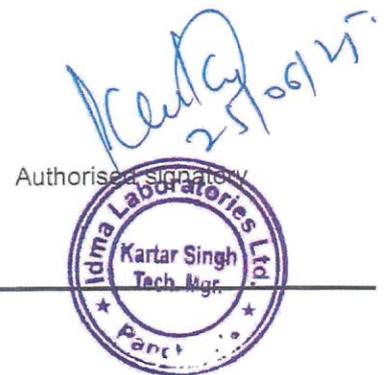
Lab No.	200625L-ED-041		Page No.	1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Noise Level (Ambient)			
Customer's Description of Sample#	Noise Level (Ambient)			
Quantity#	01 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	HRT Portal Area			
Visual Observation	N/A			
Date of Sampling	20/06/2025			
Date of Reporting	25/06/2025			
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)	72.9	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	65.2	Max 70	CPCB PROTOCOL July 2015.

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TEST REPORT

Lab No.	200625L-ED-042		Page No.	1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Waste Water (Crusher Plant)			
Customer's Description of Sample#	Waste Water (Crusher Plant)			
Quantity#	5Ltr.			
Packing, Markings#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	Sedimentation Tank Crusher Plant			
Visual Observation	N/A			
Date of Sampling	18/06/2025			
Date of Reporting	25/06/2025			
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	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	115.8	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	14.0	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	<2.5	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	496	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	34	Max. 100	IS 3025 (Part 17)

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Idma Laboratories Limited



TEST REPORT

Lab No.	200625L-ED-043		Page No. 1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir		
Type of Sample#	Waste Water (Batching Plant)		
Customer's Description of Sample#	Waste Water (Batching Plant)		
Quantity#	5Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD000061	Dated	16/07/2021
Date of Receipt of Sample	20/06/2025		
Period of Analysis	20/06/2025 To 25/06/2025		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik
Sampling Location#	Sedimentation Tank-Batching Plant -Casting Yard		
Visual Observation	N/A		
Date of Sampling	18/06/2025		
Date of Reporting	25/06/2025		
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	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	127.7	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	16.0	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.1	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	398	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	22	Max. 100	IS 3025 (Part 17)

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TEST REPORT

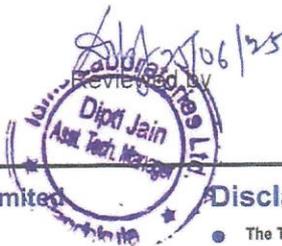
Lab No.	200625L-ED-044		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Waste Water (Inlet WTP)			
Customer's Description of Sample#	Waste Water (Inlet WTP)			
Quantity#	5Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team Idma	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	WTP Plant			
Visual Observation	N/A			
Date of Sampling	18/06/2025			
Date of Reporting	25/06/2025			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	-			

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-
1	pH	-	8.24	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	255.5	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	32.0	IS 3025 (Part 44)
4	Oil & Grease	mg/L	5.2	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	782	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	49	IS 3025 (Part 17)

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End of Report



Authorised Signatory



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Idma Laboratories Limited



TEST REPORT

Lab No.	200625L-ED-045	Page No.	1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir		
Type of Sample#	Waste Water (Outlet WTP)		
Customer's Description of Sample#	Waste Water (Outlet WTP)		
Quantity#	5Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD000061	Dated	16/07/2021
Date of Receipt of Sample	20/06/2025		
Period of Analysis	20/06/2025 To 25/06/2025		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik
Sampling Location#	WTP Plant		
Visual Observation	N/A		
Date of Sampling	18/06/2025		
Date of Reporting	25/06/2025		
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	-	7.34	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	107.8	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	22.0	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.4	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	405	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	38	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase - 1,
Panchkula - 134113,
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Tel No. 0172 - 5064827, - 5064830
Website : www.idmagroup.co.in
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Idma Laboratories Limited



TEST REPORT

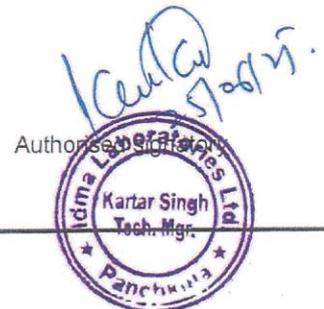
Lab No.	200625L-ED-044		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Waste Water (Inlet WTP)			
Customer's Description of Sample#	Waste Water (Inlet WTP)			
Quantity#	5Ltr.			
Packing, Markings, Seal & Quantity#	Plastic Can.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	EL176WOD000061	Dated	16/07/2021	
Date of Receipt of Sample	20/06/2025			
Period of Analysis	20/06/2025 To 25/06/2025			
Sampling Team Idma	Idma Representative Team	Client	Mr. Wasim Malik	
Sampling Location#	WTP Plant			
Visual Observation	N/A			
Date of Sampling	18/06/2025			
Date of Reporting	25/06/2025			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	-			

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-
1	pH	-	8.24	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	255.5	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	32.0	IS 3025 (Part 44)
4	Oil & Grease	mg/L	5.2	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	782	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	49	IS 3025 (Part 17)

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TEST REPORT

Lab No.	200625L-ED-045	Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir		
Type of Sample#	Waste Water (Outlet WTP)		
Customer's Description of Sample#	Waste Water (Outlet WTP)		
Quantity#	5Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	EL176WOD000061	Dated	16/07/2021
Date of Receipt of Sample	20/06/2025		
Period of Analysis	20/06/2025 To 25/06/2025		
Sampling Team	Idma Representative Team	Client	Mr. Wasim Malik
Sampling Location#	WTP Plant		
Visual Observation	N/A		
Date of Sampling	18/06/2025		
Date of Reporting	25/06/2025		
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	-	7.34	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	107.8	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	22.0	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.4	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	405	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	38	Max. 100	IS 3025 (Part 17)

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Idma Laboratories Limited

TEST REPORT

Lab No.	031025N-E-037	Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 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 Laboratory		
Work Order No.#	EL176WOD1000061	Dated	16/07/2021
Date of Receipt of Sample	03/10/2025		
Period of Analysis	03/10/2025 To 07/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	Crusher Plant.		
Visual Observation	N/A		
Date of Sampling	29/09/2025		
Date of Reporting	07/10/2025		
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	77.6	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	16.5	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	19.7	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	24.8	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	36.2	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.67	Max. 2	NAAQMS/36/2012-13



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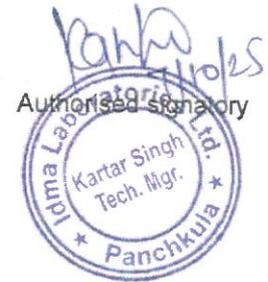
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TEST REPORT

Lab No.		031025N-E-037			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	23.7	Max. 100	NAAQMS/36/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	2.1	Max. 5	NAAQMS/36/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m^3	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)
10	Arsenic	ng/m^3	<1	Max. 6	NAAQMS/36/2012-13
11	Nickel	ng/m^3	<8	Max. 20	NAAQMS/36/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	0.11	Max. 1	NAAQMS/36/2012-13

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Idma Laboratories Limited

TEST REPORT

Lab No.	031025N-E-038		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 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 Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 07/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Casting Yard.			
Visual Observation	N/A			
Date of Sampling	29/09/2025			
Date of Reporting	07/10/2025			
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	75.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	15.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	19.4	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	24.8	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	33.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.59	Max. 2	NAAQMS/36/2012-13



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TEST REPORT

Lab No.	031025N-E-062				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
8	Sampling Flow rate	LPM	24	-	-
9	Sampling Time	Minutes	31	-	-
10	Volumetric Flow rate	Nm ³ /hr	1078.0	-	-
	PARAMETERS:	-	-	-	-
11	PM	mg /Nm ³	54.3	Max. 75	USEPA Method 5
12	CO	mg /Nm ³	76.5	Max. 150	USEPA Method 10,10A
13	NOx	ppmv	126.1	Max. 710	USEPA Method 7E
14	SO2	mg /Nm ³	32.5	-	USEPA Method 6C
15	Non-Methane Hydrocarbon	mg/Nm ³	27.3	Max. 100	USEPA Method 25A

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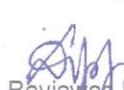
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TEST REPORT

Lab No.	031025N-E-063		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	1 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attached to DG Caterpillar 1000 KVA, 65 Banch.			
Visual Observation	N/A			
Date of Sampling	29/09/2025			
Date of Reporting	08/10/2025			
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)	-	-	-	-
1	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
2	Stack Height	Meters	5.0	-	-
3	Stack Diameter	Meters	0.2032	-	-
4	Ambient Temperature	°C	28	-	-
5	Stack Temperature	°C	138	-	-
6	Velocity	m/s	12.3	-	-
7	Type of Fuel	-	HSD	-	-

Reviewed by  

Authorised signatory  

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TEST REPORT

Lab No.	031025N-E-063				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
8	Sampling Flow rate	LPM	23	-	-
9	Sampling Time	Minutes	32	-	-
10	Volumetric Flow rate	Nm ³ /hr	1040.9	-	-
	PARAMETERS:	-	-	-	-
11	PM	mg /Nm ³	50.8	Max. 75	USEPA Method 5
12	CO	mg /Nm ³	65.2	Max. 150	USEPA Method 10,10A
13	NOx	ppmv	137.4	Max. 710	USEPA Method 7E
14	SO2	mg /Nm ³	34.8	-	USEPA Method 6C
15	Non-methane hydrocarbon	mg/Nm ³	27.3	Max. 100	USEPA Method 25A

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Idma Laboratories Limited

TEST REPORT

Lab No.	031025N-E-064		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	1 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attached to DG Caterpillar 1000 KVA, Crusher Plant.			
Visual Observation	N/A			
Date of Sampling	29/09/2025			
Date of Reporting	08/10/2025			
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)	-	-	-	-
1	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
2	Stack Height	Meters	5.0	-	-
3	Stack Diameter	Meters	0.2032	-	-
4	Ambient Temperature	°C	28	-	-
5	Stack Temperature	°C	143	-	-
6	Velocity	m/s	12.8	-	-
7	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.		031025N-E-064			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
8	Sampling Flow rate	LPM	24	-	-
9	Sampling Time	Minutes	31	-	-
10	Volumetric Flow rate	Nm ³ /hr	1070.2	-	-
PARAMETERS:		-	-	-	-
11	PM	mg /Nm ³	53.7	Max. 75	USEPA Method 5
12	CO	mg /Nm ³	60.9	Max. 150	USEPA Method 10,10A
13	NOx	ppmv	129.1	Max. 710	USEPA Method 7E
14	SO2	mg /Nm ³	30.4	-	USEPA Method 6C
15	Non-methane hydrocarbon	mg/Nm ³	27.3	Max. 100	USEPA Method 25A

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.	031025N-E-065		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	1 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attached to DG caterpillar 1000 KVA, WTP.			
Visual Observation	N/A			
Date of Sampling	29/09/2025			
Date of Reporting	08/10/2025			
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)	-	-	-	-
1	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
2	Stack Height	Meters	5.0	-	-
3	Stack Diameter	Meters	0.2032	-	-
4	Ambient Temperature	°C	28	-	-
5	Stack Temperature	°C	136	-	-
6	Velocity	m/s	13.2	-	-
7	Type of Fuel	-	HSD	-	-

Reviewed by



Authorised signatory



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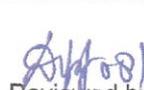
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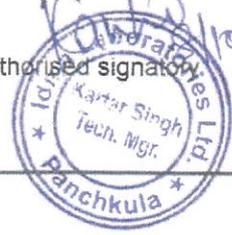
TEST REPORT

Lab No.	031025N-E-066		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	1 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attached to DG Cummins 125 KVA, Land No.2			
Visual Observation	N/A			
Date of Sampling	30/09/2025			
Date of Reporting	08/10/2025			
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)	-	-	-	-
1	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
2	Stack Height	Meters	5.0	-	-
3	Stack Diameter	Meters	0.1524	-	-
4	Ambient Temperature	°C	28	-	-
5	Stack Temperature	°C	80	-	-
6	Velocity	m/s	9.6	-	-
7	Type of Fuel	-	HSD	-	-

Reviewed by 


Authorised signatory 


Idma Laboratories Limited

Idma Corporate Park,
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TEST REPORT

Lab No.	031025N-E-066				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
8	Sampling Flow rate	LPM	18	-	-
9	Sampling Time	Minutes	41	-	-
10	Volumetric Flow rate	Nm ³ /hr	532.1	-	-
	PARAMETERS:	-	-	-	-
11	PM	g/kW-hr	0.09	Max. 0.2	USEPA Method 5
12	CO	g/kW-hr	1.13	Max. 3.5	USEPA Method 10,10A
13	NOx+HC	g/kW-hr	2.4	Max. 4.0	USEPA Method 7E
14	SO2	g/kW-hr	1.69	-	USEPA Method 6C

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End of Report

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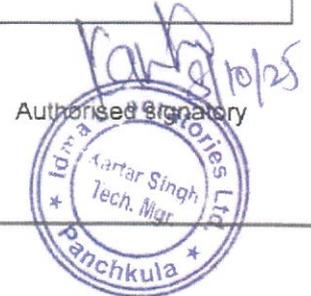
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TEST REPORT

Lab No.	031025N-E-067		Page No. 1/2	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	1 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	Stack Attached to DG Cummins 500 KVA, Portal Area.			
Visual Observation	N/A			
Date of Sampling	30/09/2025			
Date of Reporting	08/10/2025			
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)	-	-	-	-
1	STACK MONITORING:	-	-	-	-
	GENERAL INFORMATIONS:	-	-	-	-
2	Stack Height	Meters	5.0	-	-
3	Stack Diameter	Meters	0.2032	-	-
4	Ambient Temperature	°C	28	-	-
5	Stack Temperature	°C	126	-	-
6	Velocity	m/s	12.6	-	-
7	Type of Fuel	-	HSD	-	-



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TEST REPORT

Lab No.	031025N-E-067				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
8	Sampling Flow rate	LPM	24	-	-
9	Sampling Time	Minutes	31	-	-
10	Volumetric Flow rate	Nm ³ /hr	1098.4	-	-
	PARAMETERS:	-	-	-	-
11	PM	g/kW-hr	0.12	Max. 0.2	USEPA Method 5
12	CO	g/kW-hr	0.99	Max. 3.5	USEPA Method 10,10A
13	NOx+HC	g/kW-hr	2.21	Max. 4.0	USEPA Method 7E
14	SO2	g/kW-hr	1.62	-	USEPA Method 6C

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End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	031025N-E-068		Page No.	1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	1 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise catterpillar 2000 KVA.			
Visual Observation	N/A			
Date of Sampling	30/09/2025			
Date of Reporting	08/10/2025			
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)	72.3	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.6	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.9	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guideline Manual July 2008

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End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	031025N-E-069		Page No.	1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	1 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise Caterpillar 2000 KVA.			
Visual Observation	N/A			
Date of Sampling	30/09/2025			
Date of Reporting	08/10/2025			
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)	70.4	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	99.8	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	74.2	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.4	Min. 25	EPA Guideline Manual July 2008

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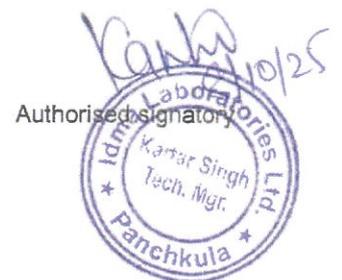
Lab No.	031025N-E-070	Page No.	1/1
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	1 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	EL176WOD1000061	Dated	16/07/2021
Date of Receipt of Sample	03/10/2025		
Period of Analysis	03/10/2025 To 08/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	DG Noise Caterpillar 2000 KVA.		
Visual Observation	N/A		
Date of Sampling	30/09/2025		
Date of Reporting	08/10/2025		
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)	102.9	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.3	--	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.	031025N-E-071		Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	1 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise Caterpillar 2000 KVA.			
Visual Observation	N/A			
Date of Sampling	30/09/2025			
Date of Reporting	08/10/2025			
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.	031025N-E-072	Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	1 No.		
Packing, Markings#	Instrument at Site.		
Mode of Collection of Sample	Sampling by Laboratory		
Work Order No.#	EL176WOD1000061	Dated	16/07/2021
Date of Receipt of Sample	03/10/2025		
Period of Analysis	03/10/2025 To 08/10/2025		
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More
Sampling Location#	DG Noise Caterpillar 2000 KVA.		
Visual Observation	N/A		
Date of Sampling	30/09/2025		
Date of Reporting	08/10/2025		
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)	70.8	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)	73.7	--	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



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.	031025N-E-073		Page No. 1/1	
Customer#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K)-180012 Jammu & Kashmir			
Type of Sample#	Noise Level D.G.			
Customer's Description of Sample#	Noise Level D.G.			
Quantity#	1 No.			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratory			
Work Order No.#	EL176WOD1000061	Dated	16/07/2021	
Date of Receipt of Sample	03/10/2025			
Period of Analysis	03/10/2025 To 08/10/2025			
Sampling Team	Idma Representative Team	Client	Mr. Ganpat More	
Sampling Location#	DG Noise caterpillar 2000 KVA.			
Visual Observation	N/A			
Date of Sampling	30/09/2025			
Date of Reporting	08/10/2025			
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)	71.4	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.4	--	EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.9	--	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.5	Min. 25	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report



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Annexure-1



Idma Laboratories Limited

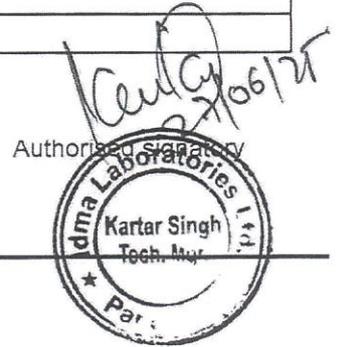


TEST REPORT

Lab No.	210625L-ED-039/A		Page No. 1/2
Customer#	Afcons Infrastructure Limited Pakaldul Hydro Electric Project P.O- Dool, Tehsil & District-Kishtwar J & K Jammu & Kashmir		
Type of Sample#	Stack Emission (DG)		
Customer's Description of Sample#	Stack Emission (DG)		
Quantity#	01 No.		
Packing, Markings#	Thimble Packed in Polythene Pouch.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	AFC/WO/2633/ILL/2023/181	Dated	14/07/2023
Date of Receipt of Sample	21/06/2025		
Period of Analysis	21/06/2025 To 27/06/2025		
Sampling Team	Idma Representative Team	Client	Mr. Rajiv
Sampling Location#	Stack Attach to DG Set - P & M Code G005500/23237,500KVA, (Power House Site)		
Visual Observation	N/A		
Date of Sampling	19/06/2025		
Date of Reporting	27/06/2025		
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	7.0	-	-
2	Stack Diameter	Meters	0.254	-	-
3	Ambient Temperature	°C	33	-	-
4	Stack Temperature	°C	145	-	-
5	Velocity	m/s	10.7	-	-
6	Type of Fuel	-	HSD	-	-



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Idma Laboratories Limited

TEST REPORT

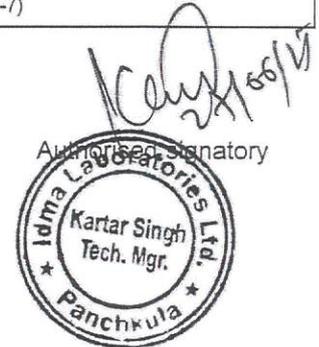
Lab No.	210625L-ED-039/B		Page No. 1/1	
Customer#	Afcons Infrastructure Limited Pakaldul Hydro Electric Project P.O- Dool, Tehsil & District-Kishtwar J & K Jammu & Kashmir			
Type of Sample#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No.			
Packing, Markings#	Thimble Packed in Polythene Pouch.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	AFC/WO/2633/ILL/2023/181	Dated	14/07/2023	
Date of Receipt of Sample	21/06/2025			
Period of Analysis	21/06/2025 To 27/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Rajiv	
Sampling Location#	Stack Attach to DG Set - P & M Code G005500/23237,500KVA, (Power House Site)			
Visual Observation	N/A			
Date of Sampling	19/06/2025			
Date of Reporting	27/06/2025			
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	1.85	Max. 4.0	IS: 11255(Part -7)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited



TEST REPORT

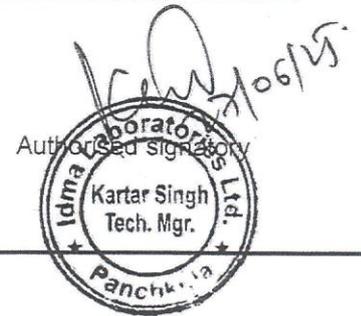
Lab No.	210625L-ED-041		Page No. 1/1	
Customer#	Afcons Infrastructure Limited Pakaldul Hydro Electric Project P.O- Dool, Tehsil & District-Kishtwar J & K Jammu & Kashmir			
Type of Sample#	Waste Water (Mat Tunnel)			
Customer's Description of Sample#	Waste Water (Mat Tunnel)			
Quantity#	5 Ltr.			
Packing, Markings#	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	21/06/2025			
Period of Analysis	21/06/2025 To 27/06/2025			
Sampling Team	Idma Representative Team	Client	Mr. Rajiv	
Sampling Location#	Sedimentation Tank MAT (Power House Site)			
Visual Observation	N/A			
Date of Sampling	19/06/2025			
Date of Reporting	27/06/2025			
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	-	7.55	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	131.7	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	16.0	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.8	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	622	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	31	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited Panchkula Disclaimer :

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Idma Laboratories Limited



TEST REPORT

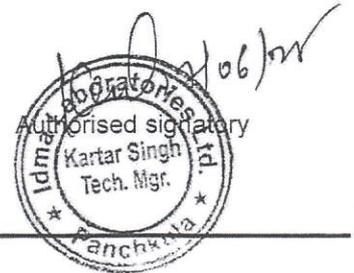
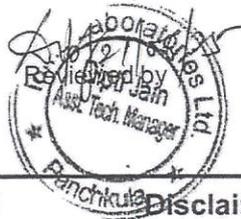
Lab No.	210625L-ED-043	Page No.	1/1
Customer#	Afcons Infrastructure Limited Pakaldul Hydro Electric Project P.O- Dool, Tehsil & District-Kishtwar J & K Jammu & Kashmir		
Type of Sample#	Waste Water (Crusher Plant)		
Customer's Description of Sample#	Waste Water (Crusher Plant)		
Quantity#	5 Ltr.		
Packing, Markings#	Plastic Can.		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	AFC/WO/2633/ILL/2023/181	Dated	14/07/2023
Date of Receipt of Sample	21/06/2025		
Period of Analysis	21/06/2025 To 27/06/2025		
Sampling Team	Idma Representative Team	Client	Mr. Rajiv
Sampling Location#	Sedimentation Tank- Crusher Plant.		
Visual Observation	N/A		
Date of Sampling	19/06/2025		
Date of Reporting	27/06/2025		
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	-	7.39	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	136.0	Max. 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	18.0	Max. 30	IS 3025 (Part 44)
4	Oil & Grease	mg/L	3.4	Max. 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	863	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	28	Max. 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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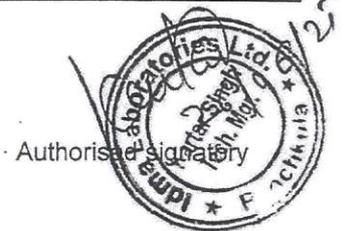
TEST REPORT

Lab No.	210625L-ED-044			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods
10	Sulphate (as SO ₄)	mg/L	7.2	IS 3025 (Part 24)
11	Iron as Fe	mg/L	0.002	IS 3025 (Part 53)
12	Lead as Pb	mg/L	BLQ (LOQ -0.0005)	IS 3025 (Part 47)
13	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	2.0	IS 3025 (Part 44)
14	Chemical Oxygen Demand	mg/L	4.0	IS 3025 (Part 58)
15	Feecal Coliform	MPN/100ml	79	IS 1622:1981

Opinion :

Represents details provided by the customer.

End of Report



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Annexure-IV



GOVERNMENT OF JAMMU & KASHMIR

OFFICE OF THE ASSISTANT DIRECTOR FISHERIES DISTRICT KISHTWAR

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

Tel: 01995-295045

Email ID: adfkr@gmail.com

No: ADF/Ktr/2025-26/ 753-55

Dated: 25-11-2025

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

Ref: CVPP/PDHEP/GM (I/c)/2025/1524, dated: 21-10-2025.

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 Bhata Warwan. 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)
1	Released to PWD (R&B) Division Marwah for execution of construction work	150.65	U.C Pending
2	Released to Addl. Deputy Commissioner Kishtwar on a/c of land compensation	10.00	Utilized
3	Utilization for purchase of vehicles (02 Nos)	24.60	24.26
4	Utilization as Administrative Charges	5.50	4.92
5	Utilization for Survey and Investigation	2.589	2.15
6	Utilization for purchase of Farm/Fishing Net and Gears	3.00	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 through telephonic message.

Yours faithfully


Assistant Director Fisheries
Implementing Officer CVPP
Funded Projects

Copy to the:-

1. Joint Director Fisheries Central /CV Jammu for favour of information please.

Annexure-V



Department of Wildlife Protection, J&K Govt.
OFFICE OF THE WILDLIFE WARDEN
CHENAB KISHTWAR DIVISION

Forest Complex Sarkoot Kishtwar-182204 wildlife.protection@kishitwar.org



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.

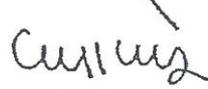
Sir,

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-VI



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. of Ambulances	Registration of	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]
14/2/25

Diary / Receipt No 805
 Date _____ GM (I/C) Office
 CVPPL - PDHEP Dt: 13-02-2025



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

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

Tel: 01995-295045
Email ID: adfctr@gmail.com

No: ADF/Ktr/2025-26/ 753-55

Dated: 25-11-2025

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

Ref: CVPP/PDHEP/GM (I/c)/2025/1524, dated: 21-10-2025.

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 Bhata Warwan. 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)
1	Released to PWD (R&B) Division Marwah for execution of construction work	150.65	U.C Pending
2	Released to Addl. Deputy Commissioner Kishtwar on a/c of land compensation	10.00	Utilized
3	Utilization for purchase of vehicles (02 Nos)	24.60	24.26
4	Utilization as Administrative Charges	5.50	4.92
5	Utilization for Survey and Investigation	2.589	2.15
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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 through telephonic message.

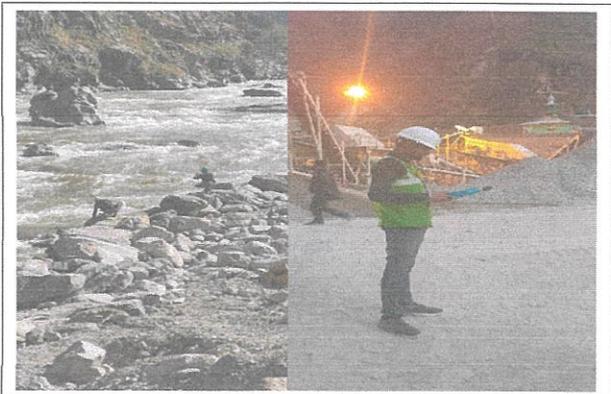
Yours faithfully


Assistant Director Fisheries
Implementing Officer CVPP
Funded Projects

Copy to the:-

1. Joint Director Fisheries Central /CV Jammu for favour of information please.

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.



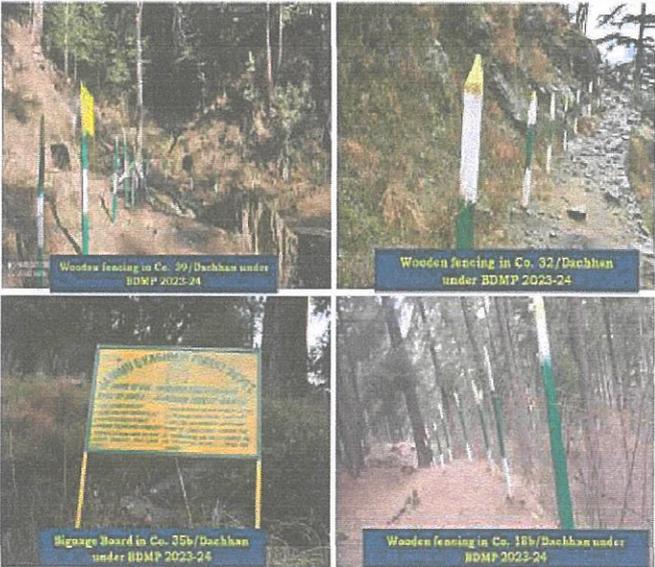
ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HEP



Execution of Biodiversity Management Plan

By Marwah Forest Division

Fencing work under BDMP



Wooden fencing in Co. 39/Dachhan under BDMP 2023-24

Wooden fencing in Co. 32/Dachhan under BDMP 2023-24

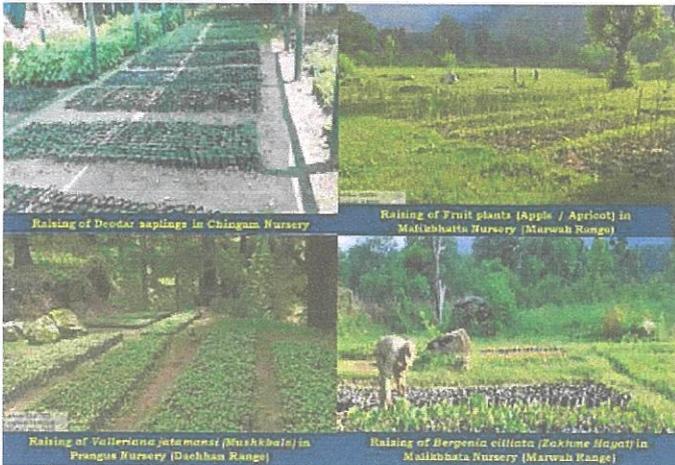
Signage Board in Co. 35b/Dachhan under BDMP 2023-24

Wooden fencing in Co. 18b/Dachhan under BDMP 2023-24

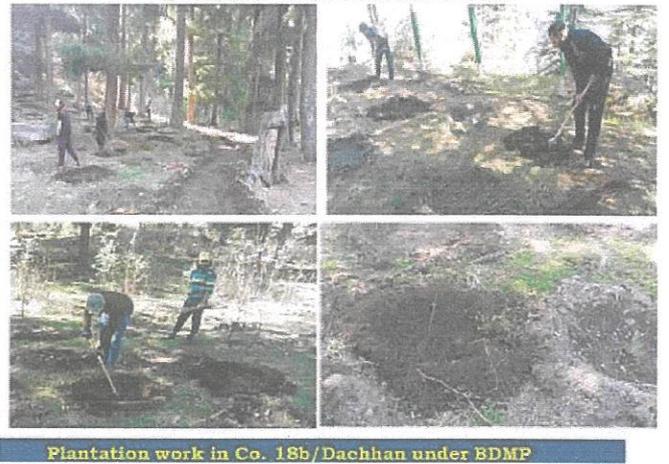
Activities/Implementation of Biodiversity Management Plan (BDMP) under EMP of Pakal Dul HE Project

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

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	Surnoo over Kiyar Nallah
Span	120 feet
Location	Surnoo in b/w Co. 24/D and 25/D
Year of Construction	2022-23
Total Expenditure	16,80,598 lacs
No. of Village connected	06
No. of Household benefits	1000 including Nomads



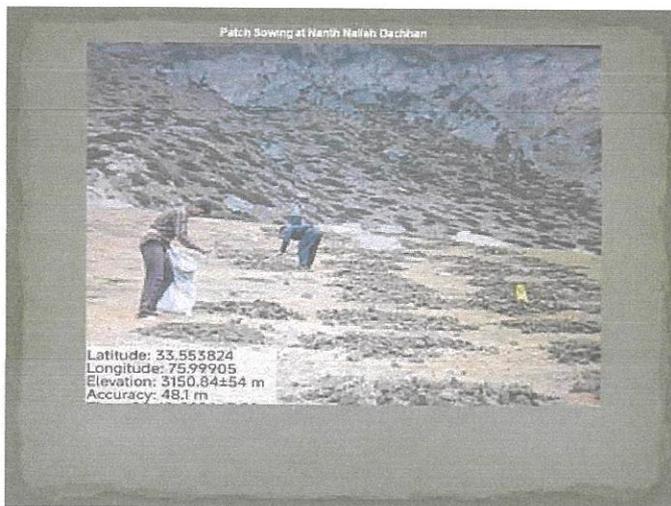
Activities/Implementation of Biodiversity Management Plan (BDMP) under EMP of Pakal Dul HE Project

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



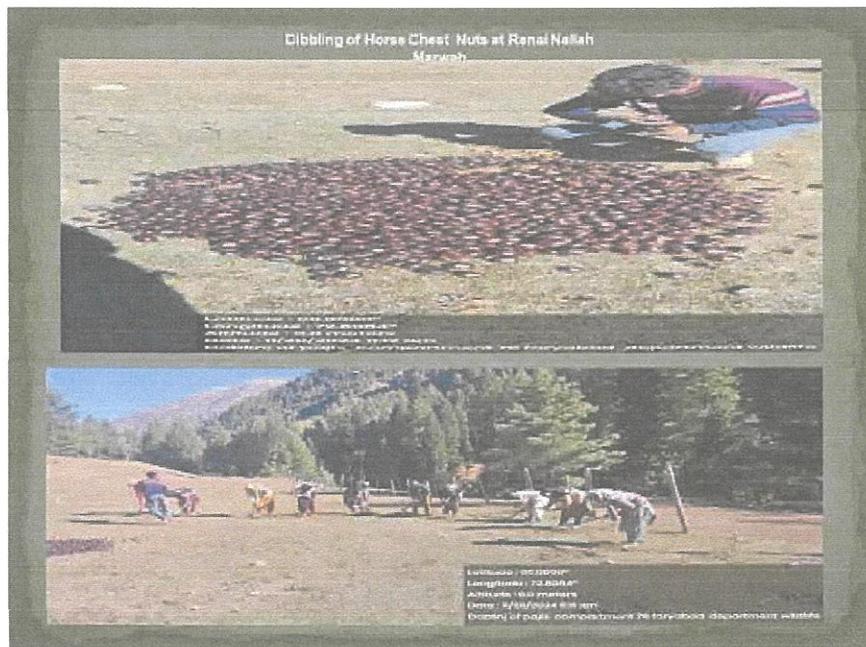
Activities/Implementation of Wildlife Mitigation Plan under EMP of Pakal Dul HE Project

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



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

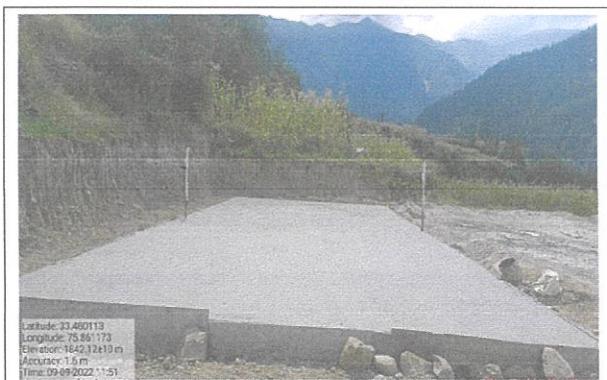


ACTIVITIES CARRIED UNDER ENVIRONMENT MANAGEMENT PLAN (EMP) AND RESETTLEMENT AND REHABILITATION (R&R) PLAN OF PAKAL DUL HE



Basic Life Support Ambulance handed over to District Administration, Kishtwar 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.

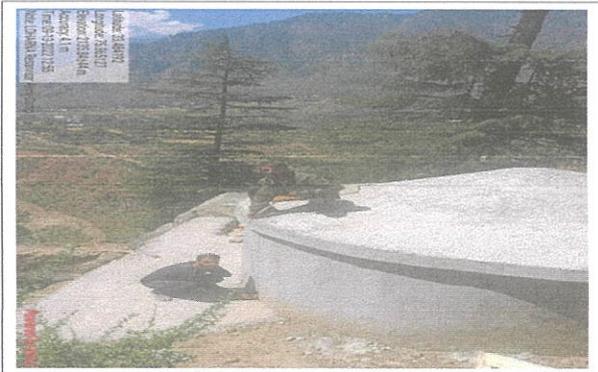


Construction of Dipping Vat at village Dool, Kishtwar for sheep husbandry disease management.



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

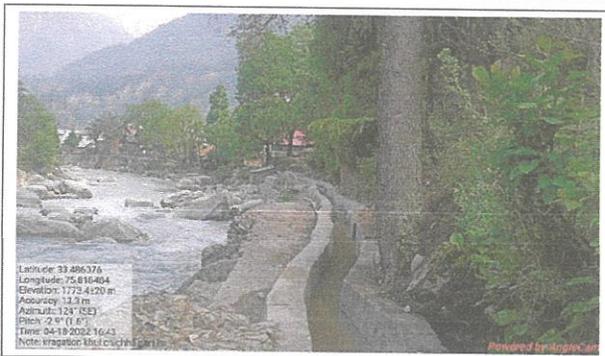


Construction of Veterinary Dispensary at Dool, Kishtwar.

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 Sounder (Dachhan) for imparting Skill Development Trainings to PAFs.



Imparting Skill Development Trainings to PAFs.