





चिनाब वैली पावर प्रोजेक्ट्स [पी] लिमिटेड

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

Chenab Valley Power Projects [P] Ltd.

A Joint Venture of NHPC Ltd. (A Govt. of India Enterprise) & JKSPDC (A Govt. of J & K Enterprise) सीआईएन/CIN: U40105JK2011G0I003321 महाप्रबंधक (प्रभारी) General Manager (I/c)

Dated: 28.05.2024

परियोजना प्रमुख Head of Project

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

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

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

Sub: Pakal Dul HE Project (1000 MW) in District Kishtwar, J&K – Submission of Environment Clearance Compliance Report (ECCR) for the period from October 2023 to March 2024.

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

Sir,

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

Thanking you,

Yours sincerely,

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

CC:

 Director, Impact Assessment Division-1, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, Ali Ganj, New Delhi- 110003 Email: yogendra78@nic.in

2. General Manager, Planning Division, CVPPPL, CO, Jammu.



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Pakal Dul Hydro Electric Project Chenab Nagar – II, Kishtwar, (J&K) –182206 CIN NO. U40105JK2011GO1003321

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

ANNEXURE-I

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

	(October, 2	2023 to March, 2024)
1	Name of Project	Pakal Dul HE Project
2	Type of Project	Hydro Electric Project
3	Clearance letters OM No. and date	
	(a) Environment Clearance	(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.
	(b) Forest Clearance	(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.
		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.
		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.
		dated 20.00.2016.
		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.
		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.
		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.
		2020 dated 50.01.2020.



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4	Locations		
	(a) District (s)	(a) Kishtwar	
	(b) State/UT	(b) Jammu and Kashmir	
	(c) Latitude	(c) 33 ⁰ 27'30"N	
	(d) Longitude	(d) 75 ⁰ 48'50''E	
5	Address for Correspondence		
	(a) Address of concerned Project	(a) General Manger (I/c),	
	Head (with Pin code,	Pakal Dul HE Project, CVPPP Ltd.,	
	Telephone/Fax no.)	Chenab Nagar-II, Kishtwar, J&K.	
	,	Pin code- 182206 Telephone: - 01995-260723	
		Email: hop-pdhep@cvppindia.com	
		Email hop partop covppinate.com	
	(b) Address of concerned HOD in	(b) Managing Director,	
	Corporate Office (with Pin	Chenab Valley Power Projects (P) Ltd,	
	code, Telephone/Fax no.)	Chenab Jal Shakti Bhawan, Opposite	
		Saraswati Dham, Rail Head Complex, Panan	
		Chowk, Jammu- 180012, J&K Phone/Fax: 0191 2475516/ 2479835	
6	Detail of Environmental Management	Environmental Management Plans to be implement	
	Plan	at the Project are:	
	i iaii	at the Froject are.	
		O N.	
		S. No. EMP 1. Biodiversity Conservation Plan	
		S. No. EMP 1. Biodiversity Conservation Plan 2. Catchment Area Treatment	
		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development 	
		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System 	
		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management 	
		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System 	
		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management Provision for fuelwood/ LPG depot & Energ Conservation Measures Relocation & Rehabilitation of Dumping 	
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		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management Provision for fuelwood/ LPG depot & Energ Conservation Measures Relocation & Rehabilitation of Dumping sites Landscaping & restoration of construction areas 	
		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management Provision for fuelwood/ LPG depot & Energ Conservation Measures Relocation & Rehabilitation of Dumping sites Landscaping & restoration of construction areas Creation of Green Belt around reservoir 	
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		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management Provision for fuelwood/ LPG depot & Energ Conservation Measures Relocation & Rehabilitation of Dumping sites Landscaping & restoration of construction areas Creation of Green Belt around reservoir Disaster Management Plan Resettlement & Rehabilitation Plan 	
		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management Provision for fuelwood/ LPG depot & Energ Conservation Measures Relocation & Rehabilitation of Dumping sites Landscaping & restoration of construction areas Creation of Green Belt around reservoir Disaster Management Plan 	
7.	Breakup for Project area (Land	 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management Provision for fuelwood/ LPG depot & Energ Conservation Measures Relocation & Rehabilitation of Dumping sites Landscaping & restoration of construction areas Creation of Green Belt around reservoir Disaster Management Plan Resettlement & Rehabilitation Plan Environmental Monitoring Programme 	
7.	Breakup for Project area (Land details)	 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management Provision for fuelwood/ LPG depot & Energ Conservation Measures Relocation & Rehabilitation of Dumping sites Landscaping & restoration of construction areas Creation of Green Belt around reservoir Disaster Management Plan Resettlement & Rehabilitation Plan Environmental Monitoring Programme Forest Land	
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7.		 Biodiversity Conservation Plan Catchment Area Treatment Fisheries Development Public Health Delivery System Solid Waste Management Provision for fuelwood/ LPG depot & Energ Conservation Measures Relocation & Rehabilitation of Dumping sites Landscaping & restoration of construction areas Creation of Green Belt around reservoir Disaster Management Plan Resettlement & Rehabilitation Plan Environmental Monitoring Programme Forest Land	
7.		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 & Energ 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 Forest Land Diverted Under process 355.3916 ha 11.34 ha Private/ Revenue Land Acquired Under process	
7.		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 & Energ 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 Forest Land Diverted Under process 355.3916 ha 11.34 ha Private/ Revenue Land	



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Pakal Dul Hydro Electric Project

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8	Breakup of Project affected	No of af	fected villages: - 6	
	population with enumerations of	Displace	ed PAFs: - 110	
	those losing house/dwelling units	Non dis	olaced PAFs: - 656	
	only, agriculture land only, both	Total PAFs: - 766		
	house and agriculture land and			
	landless labours/artisans.	(a) Sch	eduled Tribe: - 2	
	(a) SC/ST/Adivasis			
	(b) Others			
9	Financial Details			
	(a) Project cost as originally planned	(a) Proje	ect cost: 5088.88 Cr (July 2005 Pl	_)
	and subsequent revised estimates	CCE	EA approved: 8112.12 Cr (March 2	2013 PL)
	and the year of price reference			
	(b) Actual expenditure incurred on	(b) Actu	al expenditure: Rs.4077.83 Crs (t	ill 31 st Mar.
	the Project so far	2024	4)	
	(c) Allocation made for Environment	(c) Allocations for EMP (at 2013 PL): 330.32 Crs.		
	Management Plan	(3)		
		(d) Actual expenditure incurred on EMP: Expenditur		Expenditure
	(d) Actual expenditure incurred on	incurred by CVPPPL on EMP and other related		•
	EMP so far	activities as on date:		
		S.No Component Exp.		Ехр.
			Forest and wild life Land	(Rs. in Cr)
		1.	Diversion	207.649
		2	Fund for Wildlife Management including corpus fund	236.0
		3.	Fisheries Development Plan	3.89
		4. 5.	Biodiversity Management Plan Implementation of R&R plan	6.52 74.09
		6.	Disaster Management	0.635
		7.	Plan/Early Warning System CAT Plan	44.465
			Total	573.249
10	Forest Land Requirements			
	(a) Status of approval diversion of	(a) Fore	est clearance for diversion of 146	.66 Ha forest
	Forest Land for non-forestry use	land	on right bank of dam/reserve	oir has been
		acco	orded by GoJK on 15.12.201	5. Requisite
		amo	unt of Rs 17.81 Cr deposited w	th J&K State
		Fore	est department on 15.09.20	015. Forest
		Clea	rance for diversion of 188.76 H	a forest land

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(earlier KHANP land) on left bank of dam/ reservoir along with 7.2 Ha of Forest Land for underground works in Dul area has been accorded by GoJK on dated 29.11.2016. Requisite amount of Rs 178.2055 Cr deposited with J&K State Forest department on 18.06.2016 and the amount of Rs. 236 Crs towards wildlife management was deposited on 19.09.2016.

Government sanction order for additional 12.125 ha of Forest land at left bank of river Marsudar stands accorded vide Govt. order no 207-FST of 2018 dated 26.06.2018. Requisite amount of Rs 6.3083663 Cr deposited with J&K State Forest department on 15.05.2018.

Government sanction order for felling of trees coming under already diverted forest land at left bank of river Marsudar stands accorded vide Govt. order no 225-FST of 2018 dated 17.07.2018. Requisite amount of Rs 7613899/- deposited with J&K State Forest department on 15.05.2018. Government sanction order for felling of trees coming under already diverted forest land at right bank of river Marsudar stands accorded vide Govt. Order No. 531-(JK) FST of 2019 dated 12.12.2019. Requisite amount of Rs. 1490391/- deposited with J&K State Forest department.

Government sanction order for diversion of 0.6434 ha of Forest land at left bank of river Marsudar stands accorded vide Government order no. 17(JK)FST of 2020 dated 30.01.2020. requisite amount of Rs. 505310/- deposited with J&K State Forest department.

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

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



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ANNEXURE-II

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

S.No.	Specific Conditions	Compliance Status
İ	Catchment area treatment Plan as proposed should be completed in Five years	PLAN UNDER IMPLEMENTATION (The cost provision for CAT Plan as approved by MoEF&CC was Rs. 21.33 Crs which was revised in CCEA approval (Investment Approval by Gol) to Rs. 36.38 Crs. The plan is to be implemented by Soil & Water Conservation Department, GoJK. Accordingly, Soil & Water Conservation Department, GoJK revised the plan as per prevailing site conditions to Rs. 44.465 crores. The compensatory levies on account of CAT Plan amounting to Rs. 44.465 Crs. have been deposited by the Project, in the Bank Account of J&K National CAMPA, through NEFT on 29.01.2024.
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.	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. The formulation, approval and implementation of R&R plan comes under the purview of State/UT Government which has adopted a uniform approach in providing the R&R benefits for the PAFs of different HE projects in J&K. The recommendations of MOEFCC for considering non-displaced PAFs with more than 70% of total land holdings as displaced PAFs has not been approved by the State Government for any of the HE Project so far. Hence this provision has not been considered by Government of J&K in formulation and approval of R&R plan for Pakal Dul HE project.
iii	A Monitoring Committee for R&R should be constituted which must include representatives of project affected persons from SC/ST category and a woman beneficiary.	DC Kishtwar has been appointed as Commissioner, Rehabilitation and Resettlement for Pakal Dul HE Project vide Govt. Order No. 19-DMRR&R of 2017 dated 16.03.2017. Constitution of R&R committee is awaited. Monitoring committee is to be constituted by
		Monitoring committee is to be constituted Government under the Chairmanship Commissioner R&R. The matter was discussed



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iv	The commitment made during the public	the meeting of Empowered Committee held on 06.04.2018 under the Chairmanship of Chief Secretary, GoJK wherein the Committee has recommended the constitution of R&R committee. The formal Government order in this regard is awaited. Moreover, Commissioner R&R (D.C. Kishtwar) has again been requested by the Project for constituting the said committee vide no CVPP/PDHEP/GM(I/C)/2022/2036 dated 03.12.2022. Being complied.
	hearing should be fulfilled.	
V	All the equipment which are likely to generate high noise levels are to be fully equipped (noise reduction measures) to meet the ambient noise control standards	Being complied. All such Machinery are well equipped to control noise pollution and regular maintenance is carried out in order to reduce noise pollution. Moreover, regular ambient noise level monitoring is carried out at construction sites. Monitoring reports are enclosed for reference as ANNEXURE-III.
Vi	Consolidation and compilation of the muck should be carried-out in the muck dumping sites and the dumping sites should be above high flood level. The proposed plan for 70.85 lakh cum of muck disposal i.e. about 34 lakh cum is proposed to be utilized during construction and the remaining 36.86 lakh cum of muck disposal at two designated areas (DS1-powerhouse site- 14.37 lakh cum; DS2- dam site-22.48 lakh cum) should be strictly implemented.	Being complied. Out of the excavated muck, useable muck is utilised to a maximum extent at Project and the rest of muck is disposed at designated muck disposal sites only. Total Muck Generated: 4,93,846.98 Cum Total Muck Utilised: 1,97,678.33 Cum Total Muck Disposed at Dumping Sites: 2,96,169.65 Cum
vii	The fisheries management plan as proposed in the letter dated 15.01.2008 should be implemented in totality. The total budget of Rs.339.24 lakhs for the fishery development and conservation in the Marsudar river basin should not be diverted for any other purpose.	Being complied. The revised Fisheries Development Plan amounting to Rs. 389.10 lakh has been approved by Fisheries Department GoJK and the same amount has been deposited by Project with Fisheries Department GoJK for implementation of Plan. The Fisheries Department has utilized an amount of Rs. 196.0 Lakhs till now for implementation of the works under this plan.
viii	The following conditions imposed by the Standing Committee of National Board for Wildlife (NBWL) while recommending the proposal for de-notification of KHANP area, shall be strictly complied:	·



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	(a) Provisions proposed for the habitat improvement in the Mitigation Plan should be discussed with Wildlife Institute(WII), Dehradun and be modified accordingly.	a) Complied Mitigation Plan has been prepared/ modified by J&K Wildlife Department in consultation with Wildlife Institute of India, Dehradun.
	(b)State Wildlife Department may redefine the core area of the National Park considering the human population pressure etc.	b) Complied The core area of the KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK.
	(c)NHPC would provide a total of Rs.236 Crs including Rs.100 Crs. for the corpus fund for the protected area for the conservation of the wildlife.	c) Complied Final forest clearance for 195.9619 Ha land (i.e. 188.7619 ha of KHANP land and 7.2 ha of forest land) has been obtained vide Govt. Order no. 289-FST 2016 dated 29.11.2016 of GoJK for which Project has deposited Rs 414.20 Crs to Forest Dept. which includes Rs.236 Crs and also Rs.100 Crs for the corpus fund for the protected area for conservation of wildlife. The wildlife Mitigation plan is under implementation and is being implemented by Wildlife Department, GoJK. and Rs. 18.59 Cr has been utilized for the same till 31.03.2024 by the J&K Wildlife Department.
ix	No construction work/activity should be initiated till Supreme Court grants dereservation 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.
Gene	ral Conditions	
i	Adequate free fuel arrangement should be made for the labour force engaged in the construction work at project cost so that indiscriminate felling of trees is prevented.	Being complied. Free fuel arrangements are being made by the respective contractors for their labour force engaged for Power House Works, HRT-TBM Works and Dam Works, at their own cost.
		The expenditure incurred by all contractors on account of Free Fuel Arrangements for the period Oct. 2023 to March 2024 is Rs. 33,56,544.03.

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ii Fuel depot's maybe opened at the site to provide the fuel (kerosene/wood/LPG). Medical facilities as well as drinking water & recreational facilities should also be provided to the laborers.

Being complied.

Free fuel arrangements for labourers have been made by the contractors.

Adequate drinking water and sanitation facilities have been provided by the respective contractors at residential areas of their labour force.

Details of medical facilities established by major works contractors for their laborers and locals, at their own cost, are as under:

- Dam Package (by M/s Jaiprakash Associates Limited): One medical unit with one patient bed, Oxygen cylinder, other accessories for dispensary including IV Stand Sterilization, storage for the medicines, stretchers, wheel chairs etc. One light vehicle and Two Ambulance at Dam site are in operation and managed by one Doctor and four no. of Medical Assistants. The expenditure incurred for the period Oct. 2023 to March 2024 is Rs. 23,63,374.00.
- 2. Power House Package (by M/s Afcons JAL Joint Venture): First Aid Centre & Hospital at 3 locations and two fully equipped ambulances are functional at Power House Site of the Project. Being managed by 06 No's First Aiders and 4 Ambulance Drivers. The necessary medicines and oxygen cylinders are available at First Aid Centre. Medical facility also made available to nearby local villagers. The expenditure incurred for the period Oct. 2023 to March 2024 is Rs. 14,58,448.00.
- HRT-TBM Package (by M/s L&T Limited) One first aid centre at Site is managed by 05 No's of male nurses and a doctor is also available at site. Regular health checkups and test are conducted fortnightly. The cumulative expenditure incurred up to March 2024 is Rs. 2,839,055.00.



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iii	All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.	Being complied.
iv	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of borrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Shall be complied. After completion of dumping and quarrying operations, the remediation, rejuvenation and landscaping of these sites shall be carried out by applying proper Engineering and Biological measures.
V	The total amount of Rs. 9979.29 lakhs kept in the budgetary provisions for implementation of environmental management plan should be strictly adhered and not to be diverted for any other purpose.	Being complied.
Vİ	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.
Othe	er Conditions mentioned in the EC Letter:	
4.	Officials from Regional Office MoEF, Chandigarh who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and documents/data by the project proponents during their inspection.	Shall be complied
5.	The responsibility of implementation of environmental safeguards rests fully with the NHPC Ltd. and Government of J&K.	Noted
6.	In case of change in the scope of the project, project would require a fresh appraisal.	There is no change in the scope of the project. Shall be complied, if required.



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7.		Complied. The core area of KHANP has been redefined vide SRO no. 212 dated 06.07.2015 of GoJK in
	part of KHANP.	pursuance to the approval of Hon'ble Supreme Court.
8.	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory Manner.	Noted.
9.	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	Complied.
10.	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom any suggestion / representation has been received while processing the proposal.	Complied.
12.	The project proponent should advertise within 7 days at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envfor.nic.in.	Complied. The requisite advertisement was published in Dainik Jagran (Hindi) and Daily Uzma (Urdu) newspapers dated 07.03.2008.

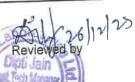
ENVIRONMENT MONITORING/ TEST REPORTS (ANNEXURE-III)



TEST REPORT

	- 1 1000N F	042		Page No. 1/2		
Lab No.	211223N-E-	U13				
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Head Complex (J & K) Jammu & Kashmir	Opposit Sara	swati Dham, Rail		
Type of Sample#		Stack Emission (DG)				
	iption of Sample#	Stack Emission (DG)				
Quantity#		01 No.				
Packing, Markings	s#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample		Sampling by Laboratories	Dated	16/07/2023		
Work Order No.#		EL176WOD1000061	Dated	10/07/2020		
Date of Receipt o		21/12/2023				
Period of Analysis		21/12/2023 To 26/12/2023	Client	Mr. Kumresh Tikada		
Sampling Team		Idma Representative Team	Client	Wit. Runnesh Timese		
Sampling Location	n#	Stack Attach DG caterpiller 2000 KVA (Land-II)				
Visual Observation		N/A				
Date of Sampling		19/12/2023				
Date of Reporting		26/12/2023				
Sampling Protoco		LATS/80/2013-14 USEPA:2013				
Testing Protocol		СРСВ				
Todding Troises		RESULTS				

			L	.30L10	
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	
	GENERAL INFORMATIONS:	<u>u</u>	-		*
	Stack Height	Meters	12	•	
2	Stack Diameter	Meters	0.1524		-
3	Ambient Temperature	°C	8	•	-
	Stack Temperature	°C	138	•	-
5	Velocity	m/s	10	•	
3	Type of Fuel	8/	HSD	989	•
7	Sampling Flow rate	LPM	30	· ·	1.



Idma Laboratories Limited

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TEST REPORT

Lab No.		11223N-E-013	Page No. 2		
S.No.	Test Parameter	Units	Results	Specifications	Test Method
8	Sampling Time	Minutes	25	•	-
9	Volumetric Flow rate	Nm³/hr	493.2		-
	PARAMETERS:	127			-
10	PM	mg /Nm³	49.7	Max 75	USEPA Method 5
11	со	mg /Nm³	48.9	Max 150	USEPA Method 10,10A
12	NOx	ppmv	124.6	Max 710	USEPA Method 7E
13	SO2	mg /Nm³	37.5	-	USEPA Method 6C
14	Non Methan Hydro Car	bons mg/Nm³	24.8	Max 100	USEPA Method 25A

Represents details provided by the customer.

End of Report



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TEST REPORT

Lab No.	211223N-E-020			Page No. 1/3			
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir					
Type of Sample	e#	Drinking Water					
Customer's Des	scription of Sample#	Drinking Water					
Quantity#		5 Ltr.+250 ml					
Packing, Marking	ngs, Seal & Quantity#	Plastic Can.+Glass Bottle.					
Mode of Collec		Sampling by Laboratories					
Work Order No	.#	EL176WOD1000061	Dated	16/07/2023			
Date of Receip	t of Sample	21/12/2023					
Period of Analy	rsis	21/12/2023 To 26/12/2023		[
Sampling Tean		Idma Representative Team	Client	Mr. Kumresh Tikadar			
Sampling Local		Haliped					
Visual Observa	ition	N/A					
Date of Sampli	ng	19/12/2023					
Date of Reporting		26/12/2023					
Sampling Proto	ocol	IS:17614 (PART-1):2021					
Testing Protoc	ol	IS: 10500:2012					

RESULTS

				17-	JOLIO		
S.No.	Test Parameter	Units	Results	Limit of IS	5: 10500-2012	Test Method	
	×			Requirement (Asseptable Limit)	Permissible Limit in absence of alternate Source		
					1		
	Chemical Testing (Water)	-	•	*	5	•	
1	Color	Hazen	2	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023	
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023	
3	pH		7.22	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023	
4	Alkalinity	mg/L	146	Max. 200	Max. 600	APHA 2320B 24th Edition, 2023	
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023	
6	Calcium as Ca	mg/L	29.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023	
7	Chloride as Cl	mg/L	16.2	Max. 250 Max. 1000 APHA 4500Cl- B 24th Edition, 2		APHA 4500CI- B 24th Edition, 2023	



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TEST REPORT

Lab I	No.	21122	3N-E-020					Page No. 2/
S.No.	Test Parame	eter	Units	Results	Limit of IS	3: 10500-2012	Te	st Method
					Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source		
8	Magnesium as N	Иg	mg/L	21.9	Max. 30	Max. 100	APHA 3500 Mg B 24	th Edition, 2023
9	Cyanide as CN		mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F	24th Edition, 2023
10	Fluoride as F	72	mg/L	0.03	Max. 1	Max. 1.5	CPCB Guide Manual: Analysis	Water & waste water
11	Hardness Total CaCO3)	(as	mg/L	162	Max. 200	Max. 600	APHA 2340C 24th Ed	lition, 2023
12	Total Dissolved	Solids	mg/L	254	Max. 500	Max. 2000	APHA 2540 C 24th E	dition, 2023
13	Sulphate as SO4	4	mg/L	11.2	Max. 200	Max. 400	APHA 4500-SO2-4 E	24th Edition, 2023
14	Turbidity		NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Ed	dition, 2023
15	Taste		Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Ed	dition, 2023
16	Residual Free ch	lorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th	Edition, 2023
17	Cadmium		mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Ed	dition, 2023
18	Potassium		mg/L	2.3	8-0	0 = :	APHA 3120 B 24th Ed	dition, 2023
19	Sodium		mg/L	10.6	500	-	APHA 3120 B 24th Ed	dition, 2023
20	Copper as Cu		mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Ed	dition, 2023
21	Iron as Fe		mg/L	0.082	Max. 1.0	No Relaxation	APHA 3120 B 24th Ed	lition, 2023
22	Manganese as M	ln	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Ec	lition, 2023
23	Nickel as Ni		mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Ed	lition, 2023
24	Zinc as Zn		mg/L	0.011	Max. 5	Max. 15	APHA 3120 B 24th Ed	lition, 2023
25	Aluminum as Al		mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Ed	lition, 2023
26	Selenium as Se		mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Ed	ition, 2023
27	Mercury as Hg		mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Ed	ition, 2023
28	Total Arsenic		mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Ed	ition, 2023
29	Total Chromium		mg/L	BLQ (LOQ -	Max. 0.05	No Relaxation	APHA 3120 B 24th Ed	ition, 2023

Reviewed by

Authorised signatory

Idma Laboratories Limited

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TEST REPORT

Lab I	Lab No. 211223N-E-020						Page No. 3/3
S.No.	Test Paramet	ter	Units	Results	Limit of IS: 10500-2012		Test Method
					Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29				0.0005)			
	Biological Testing (Water)	g	-	1211	받	-	-
30	E. Coli		/100ml	Absent	Shall not be detectable in any 100ml sample	. 	FSSAI Lab Manual
31	Total Coliform Ba	acteria	/100ml	Absent	Shall not be detectable in any 100ml sample		FSSAI Lab Manual

Opinion:

Represents details provided by the customer.

End of Report



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TEST REPORT

Lab No.	211223N-E-	001	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Page No. 1/2		
Customer#	*	Larsen & Toubro Limited, Construct Pakal Dul HRT Package- Chenab J Head Complex (J & K) Jammu & Ka	al Shakti Bhavan, Opp	osit Sar	aswati Dham, Rail		
Type of Sample#		Ambient Air					
Customer's Desc	ription of Sample#	Ambient Air					
Quantity#		01 No.					
Packing, Marking	s#	Filter Paper Packed in Polythene Po	ouch.				
Mode of Collectio	n of Sample	Sampling by Laboratories					
Work Order No.#		EL176WOD1000061		Dated	16/07/2023		
Date of Receipt o	f Sample	21/12/2023					
Period of Analysis	S	21/12/2023 To 26/12/2023					
Sampling Team		Idma Representative Team		Client	Mr. Kumresh Tikadar		
Sampling Location	n#	Crusher Plant (C-Yard 3m)					
Visual Observatio	n	N/A					
Date of Sampling		18/12/2023					
Date of Reporting		26/12/2023					
Sampling Protoco	ol	NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	2	-	-	-
1	PM10	µg/m³	81.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	18.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	21.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	μg/m³	24.3	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	41.5	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.62	Max. 2	NAAQMS/36/2012-13

26/12/23 Reviewed by

Authorised signatory

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TEST REPORT

Lab	No. 211223N-E	-001				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	μg/m³	23.4	Max. 100	NAAQMS/36/2012-13(0	Chemical method)
8	Benzene	µg/m³	2.21	Max. 5	NAAQMS/36/2012-13(GC method)	
9	Benzo-a-Pyrene(BaP) - Particulat phase	e ng/m³	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)	
10	Arsenic	ng/m³	<1	Max 6	NAAQMS/36/2012-13	
11	Nickel	ng/m³	<8	Max. 20	NAAQMS/36/2012-13	
12	Lead	μg/m³	0.15	Max. 1	NAAQMS/36/2012-13	

Represents details provided by the customer.

End of Report

Authorised signatory larear Singh

Idma Laboratories Limited

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TEST REPORT

Lab No.	211223N-E-	002		Page No. 1/2			
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir					
Type of Sample#		Ambient Air					
Customer's Desc	ription of Sample#	Ambient Air					
Quantity#		01 No.					
Packing, Marking	ıs#	Filter Paper Packed in Polythene Pouch.					
Mode of Collection	on of Sample	Sampling by Laboratories					
Work Order No.#		EL176WOD1000061	Dated	16/07/2023			
Date of Receipt of	of Sample	21/12/2023					
Period of Analysi	s	21/12/2023 To 26/12/2023					
Sampling Team		Idma Representative Team	Client	Mr. Kumresh Tikadar			
Sampling Locatio	n#	Batching Plant (C-Yard 3m)					
Visual Observation	on	N/A					
Date of Sampling		18/12/2023					
Date of Reporting		26/12/2023					
Sampling Protoco	ol	NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method			
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	*	:#S		•			
1	PM10	µg/m³	83.1	Max. 100	NAAQMS/36/2012-13(Gravimetric method)			
2	SO2	µg/m³	19.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)			
3	NO2	μg/m³	22.8	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)			
4	NH3	µg/m³	25.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)			
5	PM2.5	µg/m³	42.1	Max. 60	NAAQMS/36/2012-13(Gravimetric method)			
6	СО	mg/m³	0.68	Max. 2	NAAQM\$/36/2012-13			

Dipti Jain

Authorised signator

Idma Laboratories Limited

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TEST REPORT

Lab l	No. 2	11223N-E-002					Page No. 2/2
S.No.		Un		Results	Specifications	Test Method	
7	Ozone		µg/m³	21.4	Max. 100	NAAQMS/36/2012-1	3(Chemical method)
8	Benzene		µg/m³	2.21	Max. 5	NAAQMS/36/2012-1	3(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase Arsenic Nickel		ng/m³	<0.9	Max. 1	NAAQMS/36/2012-1	3(GC method)
10			ng/m³	<1	Max. 6	NAAQMS/36/2012-1	3
11			ng/m³	<8	Max. 20	NAAQMS/36/2012-1	3
12			µg/m³	0.13	Max. 1	NAAQMS/36/2012-1	3

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End of Report

Authorised signatory aborato Tech. Mgr.

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Idma Corporate Park,

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TEST REPORT

Lab No.	211223N-E-	003		Page No. 1/2			
Customer#	1	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opp Head Complex (J & K) Jammu & Kashmir	osit Sara	aswati Dham, Rail			
Type of Sample#		Ambient Air					
Customer's Desc	ription of Sample#	Ambient Air					
Quantity#		01 No.					
Packing, Marking	s#	Filter Paper Packed in Polythene Pouch.					
Mode of Collection	n of Sample	Sampling by Laboratories					
Work Order No.#		EL176WOD1000061	Dated	16/07/2023			
Date of Receipt o	of Sample	21/12/2023					
Period of Analysis	s	21/12/2023 To 21/12/2023					
Sampling Team		Idma Representative Team	Client	Mr. Kumresh Tikadar			
Sampling Location	n#	Batching Plant, 3m					
Visual Observation	on	N/A					
Date of Sampling		18/12/2023					
Date of Reporting		21/12/2023					
Sampling Protoco	ol	NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol	227	NAAQS					

RESULTS

			NECOLIO				
S.No.	Test Parameter	Units	Results	Specifications	Test Method		
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-			A:		
1	PM10	µg/m³	81.7	Max. 100	NAAQMS/36/2012-13(Gravimetric method)		
2	SO2	µg/m³	17.8	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)		
3	NO2	hã/w ₃	20.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)		
4	NH3	µg/m³	22.5	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)		
5	PM2.5	μg/m³	37.8	Max. 60	NAAQMS/36/2012-13(Gravimetric method)		
6	СО	mg/m³	0.56	Max. 2	NAAQMS/36/2012-13		

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Idma Laboratories Limited

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TEST REPORT

Lab	No. 211	1223N-E-003			=		Page No. 2/2
S.No.			Units	Results	Specifications	Test Method	
7	Ozone		μg/m³	22.4	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene		µg/m³	2.31	Max. 5	NAAQMS/36/2012-13(GC method)	
9	Benzo-a-Pyrene(BaP) -	Particulate	ng/m³	<0.9	Max. 1	NAAQMS/36/2012-1	3(GC method)
10	Arsenic		ng/m³	<1	Max. 6	NAAQMS/36/2012-1	3
11	Nickel		ng/m³	<8	Max. 20	NAAQMS/36/2012-13	
12	Lead		μg/m³	0.11	Max. 1	NAAQMS/36/2012-1	3

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TEST REPORT

Lab No.	211223N-E-	-004		Page No. 1/2			
Customer#	-	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir					
Type of Sample#		Ambient Air					
Customer's Descri	iption of Sample#	Ambient Air					
Quantity#		01 No.					
Packing, Markings	#	Filter Paper Packed in Polythene Pouch.					
Mode of Collection	of Sample	Sampling by Laboratories					
Work Order No.#		EL176WOD1000061	Dated	16/07/2023			
Date of Receipt of	Sample	21/12/2023					
Period of Analysis		21/12/2023 To 26/12/2023					
Sampling Team		Idma Representative Team	Client	Mr. Kumresh Tikadar			
Sampling Location	#	Portal Area, 3m					
Visual Observation	า	N/A					
Date of Sampling		18/12/2023					
Date of Reporting		26/12/2023					
Sampling Protocol		NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

DECI II TO

			KE		
S.No.	Test Parameter	st Parameter Units Results Specifications	Test Method		
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	:=:		
1	PM10	µg/m³	82.9	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	17.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	19.8	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	22.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	μg/m³	39.2	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m³	0.46	Max. 2	NAAQMS/36/2012-13

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TEST REPORT

Lab No. 211223N-E-00		1223N-E-004				Page No. 2/2	
S.No.	Test Parameter Units Results Specifications Test Method						
7	Ozone		μg/m³	22.8	Max 100	NAAQMS/36/2012-	13(Chemical method)
8	Benzene		μg/m³	2.12	Max. 5	NAAQMS/36/2012-13(GC method)	
	Benzo-a-Pyrene(BaP) · phase	- Particulate	ng/m³	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)	
10	Arsenic		ng/m³	<8	Max. 6	NAAQMS/36/2012-1	13
11	Nickel		ng/m³	<1	Max. 20	NAAQMS/36/2012-13	
12	Lead		μg/m³	0.10	Max. 1	NAAQMS/36/2012-1	3

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End of Report



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TEST REPORT

Lab No.	211223N-E	-005		Page No. 1/			
Customer#		Larsen & Toubro Limited, Construction					
		Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir					
Type of Sample#		Ambient Air					
Customer's Descr	ription of Sample#	Ambient Air					
Quantity#		01 No.					
Packing, Marking	s#	Filter Paper Packed in Polythene Pouch.					
Mode of Collection	n of Sample	Sampling by Laboratories					
Work Order No.#	2	EL176WOD1000061 Dated		16/07/2023			
Date of Receipt of	f Sample	21/12/2023		^			
Period of Analysis	3	21/12/2023 To 26/12/2023					
Sampling Team		Idma Representative Team	Client	Mr. Kumresh Tikadar			
Sampling Location	n#	Land-II, 3m					
Visual Observation	n	N/A					
Date of Sampling		18/12/2023					
Date of Reporting		26/12/2023					
Sampling Protocol		NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

RESULTS

RESOLIS							
S.No.	Test Parameter	Units	Results	Specifications	Test Method		
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-		
1	PM10	µg/m³	79.8	Max. 100	NAAQMS/36/2012-13(Gravimetric method)		
2	SO2	µg/m³	16.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)		
3	NO2	µg/m³	18.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)		
4	NH3	μg/m³	20.8	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)		
5	PM2.5	µg/m³	39.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)		
6	co	mg/m³	0.66	Max. 2	NAAQMS/36/2012-13		

26 (12) 23 Reviewed by Cipti Jain

Authorised signatory

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TEST REPORT

Lab	No.	211223N-E-00	5				Page No. 2/2
S.No.	Test Parameter	:*	Units	Results	Specifications	Test Method	
7	Ozone		µg/m³	22.4	Max. 100	NAAQMS/36/2012-	13(Chemical method)
8	Benzene		µg/m³	2.31	Max. 5	NAAQMS/36/2012-13(GC method)	
9	Benzo-a-Pyrene(Bal phase	P) - Particulate	ng/m³	<0.9	Max 1	NAAQMS/36/2012-	13(GC method)
10	Arsenic		ng/m³	<1	Max. 6	NAAQMS/36/2012-	13
11	Nickel		ng/m³	<8	Max. 20	NAAQMS/36/2012-	13
12	Lead		μg/m³	<0.1	Max. 1	NAAQMS/36/2012-	13

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TEST REPORT

	211223N-E-	006		Page No. 1/			
Lab No. 211223N-E- Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir					
Type of Sample#		NOISE LEVEL (AMBIENT)					
•	ription of Sample#	NOISE LEVEL (AMBIENT)					
Quantity#	·	01 No.					
Packing, Marking	ıs#	Instrument at Site.					
Mode of Collection		Sampling by Laboratories Dated 16/07/2023					
Work Order No.#		EL176WOD1000061 Dated		16/07/2023			
Date of Receipt		21/12/2023					
Period of Analys		21/12/2023 To 26/12/2023 Client Mr. Kumresh					
Sampling Team		Idma Representative Team	Client	Wir. Kurritesi			
Sampling Location	on#	Crusher Plant (C-Yard)					
Visual Observati		N/A					
Date of Sampling		18/12/2023					
Date of Reportin		26/12/2023					
Sampling Protoc	ol	CPCB PROTOCOL:2015					
Testing Protocol		EPA/CPCB					

	RESULTS								
S.No.	Test Parameter	Units	Results	Limits	Test Method				
	CHEMICAL DISCIPLINE (Noise Levels)		-	ឆា	•				
	Lday	dB(A)	75.3	Max 75	EPA Guideline Manual July 2008				
			67.8	Max 70	EPA Guideline Manual July 2008				
2	LNight	dB(A) 67.8							

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TEST REPORT

Lab No.	211223N-E-	007		Page No. 1/			
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir					
Type of Sample#		NOISE LEVEL (AMBIENT)					
	ription of Sample#	NOISE LEVEL (AMBIENT)					
Quantity#		01 No.					
Packing, Marking	ıs#	Instrument at Site.					
Mode of Collection		Sampling by Laboratories	16/07/2023				
Work Order No.#		EL176WOD1000061 Date		16/07/2023			
Date of Receipt of	of Sample	21/12/2023					
Period of Analysi	is	21/12/2023 To 26/12/2023	-4	Mr. Kumresh			
Sampling Team		Idma Representative Team	ent	Wil. Rufflesit			
Sampling Location	on#	Batching Plant (C-Yard)	_				
Visual Observati	on	N/A					
Date of Sampling	9	18/12/2023					
Date of Reportin	g	26/12/2023					
Sampling Protoc	col	CPCB PROTOCOL:2015					
Testing Protocol		EPA/CPCB RESULTS					

RESULTS

			1.75		
S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	ā	•	-
-	Lday	dB(A)	74.9	Max 75	EPA Guideline Manual July 2008
	LNight	dB(A)	66.7	Max 70	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	211223N-E-	008		Page No. 1/			
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir					
Type of Sample#		NOISE LEVEL (AMBIENT)					
	ription of Sample#	NOISE LEVEL (AMBIENT)					
Quantity#		01 No.					
Packing, Marking	ıs#	Instrument at Site.					
Mode of Collection		Sampling by Laboratories					
Work Order No.#		EL176WOD1000061	Dated	16/07/2023			
Date of Receipt of	of Sample	21/12/2023					
Period of Analysi	is	21/12/2023 To 26/12/2023					
Sampling Team	7,0-1	Idma Representative Team	Client	Mr. Kumresh			
Sampling Location	n#	Batching Plant					
Visual Observation	on	N/A					
Date of Sampling		18/12/2023					
Date of Reporting		26/12/2023					
Sampling Protoc	o!	CPCB PROTOCOL:2015					
Testing Protocol		EPA/CPCB					

RESULTS

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Test Parameter	Units	Units Results		Test Method	
CHEMICAL DISCIPLINE (Noise Levels)	-		(7 4)		
	dB(A)	73.7	Max 75	EPA Guideline Manual July 2008	
	dB(A)	66.9	Max 70	EPA Guideline Manual July 2008	
	Test Parameter CHEMICAL DISCIPLINE (Noise Levels) Lday LNight	CHEMICAL DISCIPLINE (Noise Levels) Lday dB(A)	CHEMICAL DISCIPLINE (Noise Levels) Lday dB(A) 73.7	CHEMICAL DISCIPLINE (Noise Levels) Lday dB(A) 73.7 Max 75	

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TEST REPORT

Lab No.	211223N-E-	009		Page No. 1/			
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Oppos Head Complex (J & K) Jammu & Kashmir	it Sara	aswati Dham, Rail			
Type of Sample#		NOISE LEVEL (AMBIENT)					
Customer's Desc	ription of Sample#	NOISE LEVEL (AMBIENT)					
Quantity#		01 No.	K.				
Packing, Marking	ıs#	Instrument at Site.					
Mode of Collection of Sample		Sampling by Laboratories					
Work Order No.#		EL176WOD1000061	Dated	16/07/2023			
Date of Receipt of	of Sample	21/12/2023					
Period of Analysi		21/12/2023 To 26/12/2023					
Sampling Team		Idma Representative Team	Client	Mr. Kumresh			
Sampling Location	in#	Portal Area					
Visual Observation	on	N/A					
Date of Sampling		19/12/2023					
Date of Reporting		26/12/2023					
Sampling Protoc	ol	CPCB PROTOCOL:2015					
Testing Protocol		EPA/CPCB					

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	9.		`#X	•>
	Lday	dB(A)	72.9	Max 75	EPA Guideline Manual July 2008
-	LNight	dB(A)	67.6	Max 70	EPA Guideline Manual July 2008

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Idma Laboratories Limited

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TEST REPORT

Lab No.	211223N-E-	010		Page No. 1/		
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Oppos Head Complex (J & K) Jammu & Kashmir	it Sara	swati Dham, Rail		
Type of Sample#		NOISE LEVEL (AMBIENT)				
	ription of Sample#	NOISE LEVEL (AMBIENT)				
Quantity#		01 No.				
Packing, Marking	js#	Instrument at Site.				
Mode of Collection of Sample		Sampling by Laboratories				
Work Order No.#		EL176WOD1000061	ated	16/07/2023		
Date of Receipt of	of Sample	21/12/2023				
Period of Analysi	s	21/12/2023 To 26/12/2023				
Sampling Team		Idma Representative Team Clien		Mr. Kumresh		
Sampling Location	n#	Land-II				
Visual Observation	on	N/A				
Date of Sampling		19/12/2023				
Date of Reporting		26/12/2023				
Sampling Protoc	ol	CPCB PROTOCOL:2015				
Testing Protocol		EPA/CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise		-	4	-
_	Lday	dB(A)	72.9	Max 75	EPA Guideline Manual July 2008
_	LNight	dB(A)	67.6	Max 70	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	211223N-E-	011		Page No. 1/2		
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Head Complex (J & K) Jammu & Kashmir	Opposit Sara	aswati Dham, Rail		
Type of Sample#		Stack Emission (Boiler)				
	ription of Sample#	Stack Emission (Boiler)				
Quantity#		01 No.				
Packing, Marking	ıs#	Thimble Packed in polythene Pouch.				
Mode of Collection		Sampling by Laboratories				
Work Order No.#		EL176WOD1000061	Dated	16/07/2023		
Date of Receipt		21/12/2023				
Period of Analys		21/12/2023 To 26/12/2023 Client Mr. Kumresh Tika				
Sampling Team		Idma Representative Team				
Sampling Location	on#	Stack Attach Boiler Revomax 600 Kg/hr				
Visual Observati	on	N/A				
Date of Sampling		19/12/2023				
Date of Reporting		26/12/2023				
Sampling Protoc	col	LATS/80/2013-14 USEPA:2013				
Testing Protocol		CPCB				

RESULTS

Test Parameter	Units	Results	Specifications	Test Method
CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	12	.*	•
GENERAL INFORMATIONS:	7(4)	-		-
	Meters	30	2	•
	Meters	0.5		•
	°C	8	*	•
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	°C	128	•	•
	m/s	10.2	*	•
	1.0	Electricity	-	
Sampling Flow rate	LPM	30	-	1- 100
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION) GENERAL INFORMATIONS: Stack Height Stack Diameter Ambient Temperature Stack Temperature Velocity Type of Fuel	CHEMICAL TESTING (ATMOSPHERIC POLLUTION) GENERAL INFORMATIONS: Stack Height Stack Diameter Ambient Temperature Stack Temperature Velocity Type of Fuel CHEMICAL TESTING	Test Parameter Units Results CHEMICAL TESTING (ATMOSPHERIC POLLUTION) - - GENERAL INFORMATIONS: - - Stack Height Meters 30 Stack Diameter Meters 0.5 Ambient Temperature °C 8 Stack Temperature °C 128 Velocity m/s 10.2 Type of Fuel - Electricity	CHEMICAL TESTING (ATMOSPHERIC POLLUTION) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -



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TEST REPORT

Lab No. 211223N-E-011			1	4		Page No. 2/2
S.No.		3	Units	Results	Specifications	Test Method
8	Sampling Time		Minutes	25		
9	Volumetric Flow ra	te	Nm³/hr	5441.7	•	*
	PARAMETERS:		-		*	*
10	PM		mg /Nm³	101.8	Max 500	USEPA Method 5
11	co		mg /Nm³	48.6	-	USEPA Method 10,10A
12	NOx		mg /Nm³	94.7	Max 300	USEPA Method 7E
13	SO2		mg /Nm³	71.4	Max 600	USEPA Method 6C
14	Total Hydro Carbo	ns	mg/Nm³	25.7	×	USEPA Method 25A

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TEST REPORT

Lab No.	211223N-E-	012		Page No. 1/2		
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir				
Type of Sample#		Stack Emission (DG)				
Customer's Descr	iption of Sample#	Stack Emission (DG)				
Quantity#		01 No.				
Packing, Marking	s#	Thimble Packed in polythene Pouch.				
Mode of Collection of Sample		Sampling by Laboratories				
Work Order No.#		EL176WOD1000061 Date		16/07/2023		
Date of Receipt o	f Sample	21/12/2023				
Period of Analysis		21/12/2023 To 26/12/2023				
Sampling Team		Idma Representative Team Client Mr. Kumre				
Sampling Location	n#	Stack Attach DG caterpiller 2000 KVA (Land-II)				
Visual Observation		N/A				
Date of Sampling		19/12/2023				
Date of Reporting		26/12/2023				
Sampling Protoco	ol	LATS/80/2013-14 USEPA:2013				
Testing Protocol		CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	**	-	
	GENERAL INFORMATIONS:	4			•
1	Stack Height	Meters	12		-
2	Stack Diameter	Meters	0.1524	, .	•
3	Ambient Temperature	°C	8		•
4	Stack Temperature	°C	130	•	•
5	Velocity	m/s	9.9	•	-
6	Type of Fuel	987.14	HSD	-	*
7	Sampling Flow rate	LPM	29	•	· \ \



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TEST REPORT

Lab l	No. 2	11223N-E-012		8			Page No. 2/2
	Test Parameter		Units	Results	Specifications	Test Method	10
8	Sampling Time		Minutes	25		-	
9	Volumetric Flow rate		Nm³/hr	488.2			
-	PARAMETERS:				N#2		
10	PM		mg /Nm³	42.3	Max 75	USEPA Method 5	
11	co	13	mg /Nm³	55.4	Max 150	USEPA Method 10,10A	
12	NOx		ppmv	112.8	Max 710	USEPA Method 7E	
13	SO2		mg /Nm³	43.7	12	USEPA Method 6C	
14	Non Methane Hydro C	arbons	mg/Nm³	25.9	100	USEPA Method 25A	

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Cartar Singh Tech. Mgr.

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TEST REPORT

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

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
-	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-		2	•
	GENERAL INFORMATIONS:	_	-		*
1	Stack Height	Meters	12		6
2	Stack Diameter	Meters	0.1524	=	-
3	Ambient Temperature	°C	8	×	
4	Stack Temperature	°C	138	я	•
5	Velocity	m/s	10	9	•
6	Type of Fuel		HSD	3	-
7	Sampling Flow rate	LPM	30		-

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TEST REPORT

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

RESULTS

KE30E10					
S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE (Source Noise Level)	-	1	•	•
1	1.0 m from the enclosure surface	dB(A)	72.8	Max. 75.0	EPA Guideline Manual July 2008
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.5		EPA Guideline Manual July 2008
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	75.8	**	EPA Guideline Manual July 2008
4	Insertion Loss	dB (A)	25.7	Min. 25	EPA Guideline Manual July 2008

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TEST REPORT

		TEST INET OIL		Page No. 1/1		
Lab No.	211223N-E-	015				
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir				
Type of Sample#		Noise Level D.G.	-			
Customer's Descri	iption of Sample#	Noise Level D.G.				
Quantity#		01 No.				
Packing, Markings	s#	Instrument at Site.				
Mode of Collection		Sampling by Laboratories	Datad	16/07/2023		
Work Order No.#		EL176WOD1000061	Dated	10/07/2020		
Date of Receipt of	f Sample	21/12/2023				
Period of Analysis		21/12/2023 To 26/12/2023 Client Mr. Kumresh				
Sampling Team		Idma Representative Team	Client	Will. Pour		
Sampling Location	n#	DG Noise caterpiller 2000 KVA				
Visual Observation		N/A				
Date of Sampling		19/12/2023				
Date of Reporting		26/12/2023				
Sampling Protocol		CPCB PROTOCOL:2015				
Testing Protocol		CPCB				

RES	ULT	5

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

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TEST REPORT

	211223N-E-	016		Page No. 1/			
Lab No. Customer#	21122011-0	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Head Complex (J & K) Jammu & Kashmir	Opposit Sar	aswati Dham, Rail			
Type of Sample#		Waste Water (Outlet)					
	ription of Sample#	Waste Water (Outlet)					
Quantity#		5 Ltr.					
Packing, Marking	ıs#	Plastic Can.					
Mode of Collection		Sampling by Laboratories	16/07/2023				
Work Order No.#		EL176WOD1000061	Dated	10/07/2020			
Date of Receipt of		21/12/2023					
Period of Analysi		21/12/2023 To 26/12/2023	Client	Mr. Kumresh			
Sampling Team		Idma Representative Team Client Wil. Rumon					
Sampling Location	on#	W.TP					
Visual Observati	on	N/A					
Date of Sampling		19/12/2023					
Date of Reportin		26/12/2023					
Sampling Protoc	col	IS:17614 (PART-1):2021					
Testing Protocol		CPCB					

RESULTS

			KE			
S.No.	Test Parameter	Units	Jnits Results	Specifications	Test Method	
	CHEMICAL TESTING (Waste				•	
	Water)		6.98	5.5-9.0	APHA4500-H+ B24th Edition, 2023	
1	pH		166	Max 250	CPCB Guide Manual:Water & waste water	
2	Chemical Oxygen Demand (COD)	mg/L	100		Analysis	
3	Biochemical Oxygen Demand	mg/L	20	Max 30	CPCB Guide Manual:Water & waste water Analysis	
	(BOD), 3-days at 27 °C	mg/L	5.1	Max 10	EPA Method 1664	
4	Oil & Grease	- A			APHA2540 C24th Edition, 2023	
5	Total Dissolved Solids (TDS)	mg/L	432		The first was a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the	
6	Total Suspended Solids (TSS)	mg/L	21	Max 100	APHA2540 D24th Edition, 2023	

Represents details provided by the customer.

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Authorised signator

Idma Laboratories Limited

Idma Corporate Park,

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Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website: www.idmagroup.co.in

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TEST REPORT

*	211223N-E-	017		Page No. 1/		
Lab No. Customer#	21122314-2-	Lesson & Toubro Limited Construction				
Customer#		Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir				
Type of Sample#		Waste Water				
	ription of Sample#	Waste Water				
Quantity#		5 Ltr.				
Packing, Marking	s#	Plastic Can.				
Mode of Collectio		Sampling by Laboratories				
Work Order No.#		EL176WOD1000061	Dated	10/01/2020		
Date of Receipt of		21/12/2023				
Period of Analysi		21/12/2023 To 26/12/2023 Client Mr. Kumres				
Sampling Team		Idma Representative Team Client Mr. Kumres				
Sampling Locatio	n#	Batching Plant.				
Visual Observation		N/A				
Date of Sampling		19/12/2023				
Date of Reporting		26/12/2023				
Sampling Protocol		IS:17614 (PART-1):2021				
Testing Protocol		CPCB				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method	
	CHEMICAL TESTING (Waste	; .				
1.71	Water)		7.23	5.5-9.0	APHA4500-H+ B24th Edition, 2023	
1	pH		98	Max 250	CPCB Guide Manual:Water & waste water	
2	Chemical Oxygen Demand (COD)	mg/L	90	3,1000.00.00.00	Analysis	
			14	Max 30	CPCB Guide Manual:Water & waste water	
3	Biochemical Oxygen Demand	mg/L	14	(810371 20	Analysis	
	(BOD), 3-days at 27 °C		2.6	Max 10	EPA Method 1664	
4	Oil & Grease	mg/L		Wild A 10	APHA2540 C24th Edition, 2023	
5	Total Dissolved Solids (TDS)	mg/L	452			
	Total Suspended Solids (TSS)	mg/L	26	Max 100	APHA2540 D24th Edition, 2023	
6	Total Suspended Solids (100)	9)				

Represents details provided by the customer.

Dipti Jain



End of Report

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Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

Lab No.	211223N-E-	018		Page No. 1/				
Customer#		Larsen & Toubro Limited, Construction						
	.e.	Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir						
Type of Sample#		Waste Water						
Customer's Desc	ription of Sample#	Waste Water						
Quantity#	8 +	5 Ltr.						
Packing, Marking	ıs#	Plastic Can.						
Mode of Collection	on of Sample	Sampling by Laboratories						
Work Order No.#		EL176WOD1000061	Dated	16/07/2023				
Date of Receipt of	of Sample	21/12/2023						
Period of Analysi	s	21/12/2023 To 26/12/2023						
Sampling Team		Idma Representative Team	Client	Mr. Kumresh				
Sampling Locatio	n#	Sedimatation Tank (Crusher)						
Visual Observation	on	N/A						
Date of Sampling		19/12/2023						
Date of Reporting		26/12/2023						
Sampling Protoco	of	IS:17614 (PART-1):2021						
Testing Protocol		CPCB						

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	(4)	y y	¥	-
1	рН		7.59	5.5-9.0	APHA4500-H+ B24th Edition, 2023
2	Chemical Oxygen Demand (COD)	mg/L	68	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	10	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	<2.5	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	395		APHA2540 C24th Edition, 2023
6	Total Suspended Solids (TSS)	mg/L	19	Max 100	APHA2540 D24th Edition, 2023

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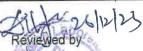


TEST REPORT

Lab No.	211223N-E-019			Page No. 1/3				
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opp Head Complex (J & K) Jammu & Kashmir	osit Sara	aswati Dham, Rail				
Type of Sample	e#	Drinking Water						
Customer's De	scription of Sample#	Drinking Water						
Quantity#		5 Ltr.+250 ml						
Packing, Marki	ngs, Seal & Quantity≉	Plastic Can.+Glass Bottle.						
Mode of Collec	tion of Sample	Sampling by Laboratories						
Work Order No	.#	EL176WOD1000061	Dated 16/07/2023					
Date of Receip	t of Sample	21/12/2023						
Period of Analy	sis	21/12/2023 To 26/12/2023						
Sampling Team	ı Idma	Idma Representative Team	Client	Mr. Kumresh Tikadar				
Sampling Local	tion#	W.T.P-I						
Visual Observa	tion	N/A						
Date of Samplin	ng	19/12/2023						
Date of Reporti	ng	26/12/2023						
Sampling Proto	col	IS:17614 (PART-1):2021						
Testing Protoco	ol	IS: 10500:2012						

RESULTS

				KE	OL13	
S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Method
		Δ		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (-	: e	-	(*)	5
1	Color	Hazen	2	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH		7.53	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity	mg/L	159	Max 200	Max 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	30.3	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as CI	mg/L	9.4	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023





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TEST REPORT

Lab l	No. 21122	3N-E-019		D.		Page No.	
S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Method	
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source		
8	Magnesium as Mg	mg/L	25.9	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023	
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023	
10	Fluoride as F	mg/L	0.021	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis	
11	Hardness Total (as CaCO3)	mg/L	181	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023	
12	Total Dissolved Solids	mg/L	243	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023	
13	Sulphate as SO4	mg/L	10.3	Max. 200	Max. 400	APHA 4500-SO2-4 E 24th Edition, 2023	
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023	
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023	
16	Residual Free chlorine	mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023	
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max, 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023	
18	Potassium	mg/L	1.5		-	APHA 3120 B 24th Edition, 2023	
19	Sodium	mg/L	9.6	¥.	4	APHA 3120 B 24th Edition, 2023	
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023	
21	Iron as Fe	mg/L	0.035	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023	
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023	
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023	
24	Zinc as Zn	mg/L	0.022	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023	
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023	
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023	
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023	
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01		APHA 3120 B 24th Edition, 2023	
29	Total Chromium	mg/L	BLQ (LOQ -	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition 2023	

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TEST REPORT

Lab No. 21122		223N-E-019			Page No. 3/3		
S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Me	est Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source		39
29			0.0005)				
-	Biological Testing (Water)	2	-	12隻3	(#1		*
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	Table:	FSSAI Lab Manual	_41
31	Total Coliform Bacter	a /100ml	Absent	Shall not be detectable in any 100ml sample		FSSAI Lab Manual	

Opinion:

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TEST REPORT

Lab I	No. 2112	23N-E-020		-		Page No. 2
S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Magnesium as Mg	mg/L	21.9	Max. 30	Max. 100	APHA 3500 Mg B 24th Edition, 2023
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
10	Fluoride as F	mg/L	0.03	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
11	Hardness Total (as CaCO3)	mg/L	162	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
12	Total Dissolved Solids	mg/L	254	Max. 500	Max. 2000	APHA 2540 C 24th Edition, 2023
13	Sulphate as SO4	mg/L	11.2	Max. 200	Max. 400	APHA 4500-SO2-4 E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
16	Residual Free chloring	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
18	Potassium	mg/L	2.3	-	-	APHA 3120 B 24th Edition, 2023
19	Sodium	mg/L	10.6	-		APHA 3120 B 24th Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
21	Iron as Fe	rng/L	0.082	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
24	Zinc as Zn	mg/L	0.011	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Editlon, 2023
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01		APHA 3120 B 24th Edition, 2023
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
29	Total Chromium	mg/L	BLQ (LOQ -	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023

Reviewed by

Authorised signatory

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TEST REPORT

Lab I	No. 21	1223N-E-020				Page No. 3/3
S.No.	Test Parameter	est Parameter Units		Limit of IS	: 10500-2012	Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29	F .		0.0005)			
	Biological Testing (Water)		-		(*)	•
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample		FSSAI Lab Manual
31	Total Coliform Bact	eria /100ml	Absent	Shall not be detectable in any 100ml sample		FSSAI Lab Manual

Opinion:

Represents details provided by the customer:

End of Report

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TEST REPORT

Lab	No. 2	11223N-E-021					Page No. 2/
S.No.	Test Paramete	er Units	Results	Limit of IS	S: 10500-2012	1	Fest Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source		
8	Magnesium as Mo	mg/L	19.7	Max. 30	Max. 100	APHA 3500 Mg B 2	24th Edition, 2023
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F	24th Edition, 2023
10	Fluoride as F	mg/L	0.024	Max. 1	Max. 1.5	CPCB Guide Manua Analysis	al:Water & waste water
11	Hardness Total (a CaCO3)	s mg/L	136	Max. 200	Max. 600	APHA 2340C 24th E	
12	Total Dissolved So	olids mg/L	233	Max. 500	Max. 2000	APHA 2540 C 24th	Edition, 2023
13	Sulphate as SO4	mg/L	10.0	Max. 200	Max. 400	APHA 4500-SO2-4 E	E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th	Edition, 2023
15	Taste	Qualitativ	e Agreeable	Agreeable	Agreeable	APHA 2160 B 24th	Edition, 2023
16	Residual Free chlo	orine mg/L	0.21	Min. 0.2	1	APHA 4500CI B 24t	h Edition, 2023
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th I	Edition, 2023
18	Potassium	mg/L	2.2	-	æ	APHA 3120 B 24th I	Edition, 2023
19	Sodium	mg/L	8.9	-	-	APHA 3120 B 24th I	Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th E	Edition, 2023
21	Iron as Fe	mg/L	0.037	Max. 1.0	No Relaxation	APHA 3120 B 24th E	Edition, 2023
22	Manganese as Mn	mg/L	BLQ (LOQ - 0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th E	Edition, 2023
23	Nickel as Ni	mg/L	BLQ (LOQ - 0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th E	Editlon, 2023
24	Zinc as Zn	mg/L	0.028	Max. 5	Max. 15	APHA 3120 B 24th E	Editlon, 2023
25	Aluminum as Al	mg/L	BLQ (LOQ - 0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th E	Edition, 2023
26	Selenium as Se	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th E	Edition, 2023
27	Mercury as Hg	mg/L	BLQ (LOQ - 0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th E	Edition, 2023
28	Total Arsenic	mg/L	BLQ (LOQ - 0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th E	Edition, 2023
29	Total Chromium	mg/L	BLQ (LOQ -	Max. 0.05	No Relaxation	APHA 3120 B 24th E	dition, 2023

Idma Laboratories Limited

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TEST REPORT

Lab No.	211223N-E-021			Page No. 1/3				
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir						
Type of Sample	e#	Drinking Water						
Customer's De	scription of Sample#	Drinking Water						
Quantity#		5 Ltr.+250 ml						
Packing, Marki	ings, Seal & Quantity#	Plastic Can.+Glass Bottle.						
Mode of Collection of Sample		Sampling by Laboratories						
Work Order No	0.#	EL176WOD1000061	61 Dated 16/07/2023					
Date of Receip	t of Sample	21/12/2023						
Period of Analy	ysis	21/12/2023 To 26/12/2023						
Sampling Tear		Idma Representative Team	Client	Mr. Kumresh Tikadar				
Sampling Loca	tion#	11-C Mess						
Visual Observa	ation	N/A						
Date of Sampling		19/12/2023						
Date of Reporting		26/12/2023						
Sampling Prote	ocol	IS:17614 (PART-1):2021						
Testing Protoc	ol	IS: 10500:2012						

RESULTS

				JOLIO	
Test Parameter	Units	Results	Limit of IS: 10500-2012		Test Method
			Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	<u> </u>				
Chemical Testing (Water)	-	-	12379		
Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
	-	7.19	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
	mg/L	143	Max 200	Max 600	APHA 2320 B 24th Edition, 2023
Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5		APHA 3120 B 24th Edition, 2023
Calcium as Ca	mg/L	22.4	Max. 75		APHA 3500-Ca B 24th Edition, 2023
	mg/L	18.5	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023
	Chemical Testing(Water) Color Odour pH Alkalinity Boron	Chemical Testing (Water) Color Hazen Odour Qualitative pH - Alkalinity mg/L Boron mg/L Calcium as Ca mg/L	Chemical Testing (- - Water) Color Hazen <1	Test Parameter	Requirement (Acceptable Limit) Permissible Limit in absence of alternate Source





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TEST REPORT

Lab No. 211223			N-E-021		*	Page No. 3/3	
S.No. Test Para	Test Parame	ter	Units	Results	Limit of IS	: 10500-2012	Test Method
					Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
29				0.0005)			
m t	Biological Testin (Water)	g	2	-	78	(a)	-
30	E. Coli		/100ml	Absent	Shall not be detectable in any 100ml sample	-	FSSAI Lab Manual
31	Total Coliform Ba	acteria	/100ml	Absent	Shall not be detectable in any 100ml sample	無	FSSAI Lab Manual

Opinion:

Represents details provided by the customer.

End of Report



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TEST REPORT

		TEOT REPORT					
Lab No.	211223N-E-022	Page No.					
Customer#		Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Opposit Saraswati Dham, Rail Head Complex (J & K) Jammu & Kashmir					
Type of Sample	e#	Drinking Water					
Customer's Des	scription of Sample#	Drinking Water					
Quantity#		5 Ltr.+250 ml					
Packing, Markin	ngs, Seal & Quantity#	Plastic Can.+Glass Bottle.					
Mode of Collect	tion of Sample	Sampling by Laboratories					
Work Order No.	#	EL176WOD1000061 Dated 16/07/202					
Date of Receipt	of Sample	21/12/2023					
Period of Analys	sis	21/12/2023 To 25/12/2023					
Sampling Team	Idma	Idma Representative Team Client Mr. Kumre					
Sampling Locati	ion#	C-yard Office					
Visual Observat	tion	N/A		91			
Date of Samplin	ng	19/12/2023					
Date of Reporting	ng	25/12/2023					
Sampling Proto	col	IS:17614 (PART-1):2021					
Testing Protoco	1	IS: 10500:2012					

RESULTS

	1.61			11-1	JOLIO		
S.No.	Test Parameter	Units	Units Results		: 10500-2012	Test Method	
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source		
	Chemical Testing (**	÷.	É	•	
1	Color	Нахел	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023	
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023	
3	рН		7.20	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023	
4	Alkalinity	mg/L	143	Max 200	Max 600	APHA 2320 B 24th Edition, 2023	
5	Boron	mg/L	BLQ (LOQ - 0.0005)	Max. 0.5	Max. 2,4	APHA 3120 B 24th Edition, 2023	
6	Calcium as Ca	mg/L	19.4	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023	
7	Chloride as Cl	mg/L	12.3	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023	



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TEST REPORT

Lab I	No. 2	11223N-E-022					Page No. 2
S.No.	Test Paramet	er Units	Results	Limit of IS	: 10500-2012	T	est Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source		
8	Magnesium as M	mg/L	12.51	Max. 30	Max. 100	APHA 3500 Mg B 2	24th Edition, 2023
9	Cyanide as CN	mg/L	BLQ (LOQ - 0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F	24th Edition, 2023
10	Fluoride as F	mg/L	0.071	Max. 1	Max. 1.5	CPCB Guide Manua Analysis	al;Water & waste water
11	Hardness Total (a CaCO3)	s mg/L	100	Max. 200	Max. 600	APHA 2340C 24th E	Edition, 2023
12	Total Dissolved S	olids mg/L	156	Max. 500	Max. 2000	APHA 2540 C 24th	Edition, 2023
13	Sulphate as SO4	mg/L	8.5	Max. 200	Max. 400	APHA 4500-SO ² -4 E	E 24th Edition, 2023
14	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th	Edition, 2023
15	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023	
16	Residual Free chle	orine mg/L	0.22	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023	
17	Cadmium	mg/L	BLQ (LOQ - 0.0005)	Max, 0,003	No Relaxation	APHA 3120 B 24th Edition, 2023	
18	Potassium	mg/L	2.8		3	APHA 3120 B 24th Edition, 2023	
19	Sodium	mg/L	12.4		-	APHA 3120 B 24th I	Edition, 2023
20	Copper as Cu	mg/L	BLQ (LOQ - 0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th I	Edition, 2023
21	Iron as Fe	mg/L	0.002	Max. 1.0	No Relaxation	APHA 3120 B 24th I	Edition, 2023
22	Manganese as Mr	mg/L	<0.0005	Max. 0.1	Max. 0.3	APHA 3120 B 24th I	Edition, 2023
23	Nickel as Ni	mg/L	<0.0005	Max. 0.02	No Relaxation	APHA 3120 B 24th I	Edition, 2023
24	Zinc as Zn	mg/L	0.011	Max. 5	Max. 15	APHA 3120 B 24th I	Edition, 2023
25	Aluminum as Al	mg/L	<0.0005	Max. 0.03	Max. 0.2	APHA 3120 B 24th 8	Edition, 2023
26	Selenium as Se	mg/L	€0.0005	Max. 0.01	No Relaxation	APHA 3120 B 24th E	Edition, 2023
27	Mercury as Hg	mg/L	<0.0005	Max. 0.001	No Relaxation	APHA 3120 B 24th E	Edition, 2023
28	Total Arsenic	mg/L	<0.0005	Max. 0.01	No Relaxation	APHA 3120 B 24th E	Edition, 2023
29	Total Chromium	mg/L	<0.0005	Max. 0.05	No Relaxation	APHA 3120 B 24th E	Edition, 2023
- 1	Biological Testing (Water)	• 4	-	R	ħ	•	
30	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml		FSSAI Lab Manual	

Dipti Jain



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TEST REPORT

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

Opinion:

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End of Report



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TEST REPORT

Customer# Type of Sample#	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Bhavan, Head Complex (J & K) Jammu & Kashmir	Opposit Sar				
Type of Sample#	Troub Compress (c. c. c. y c. c. c. c. c. c. c. c. c. c. c. c. c.		aswati Dham, Rail			
,	Surface Water					
Customer's Description of Sample#	Surface Water					
Quantity#	5 Ltr.					
Packing, Markings, Seal & Quantity#	Plastic Can,					
Mode of Collection of Sample	Sampling by Laboratories					
Work Order No.#	EL176WOD1000061	Dated	16/07/2023			
Date of Receipt of Sample	21/12/2023					
Period of Analysis	21/12/2023 To 25/12/2023					
Sampling Team Idma	Idma Representative Team	Client	Mr. Kumresh Tikadar			
Sampling Location#	Up-Stream					
Visual Observation	N/A					
Date of Sampling	19/12/2023					
Date of Reporting	25/12/2023					
Sampling Protocol	IS:17614 (PART-1):2021					
Testing Protocol	¥1	≜ 0				

RESULTS

			KEGGEIG	
S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	NAT NAT	9	•
1	Color	Hazen	<1	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	APHA 2150 B 24th Edition, 2023
3	pH		7.35	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO3	mg/L	120	APHA 2320 B 24th Edition, 2023
5	Chloride as Cl	mg/L	15	APHA 4500Cl- B 24th Edition, 2023
6	Conductivity	uS/cm	264	USEPA Method 120.1
7	Dissolved Oxygen (DO)	mg/L	8.3	CPCB Guide Manual:Water & waste water Analysis
8	Hardness Total (as CaCO3)	mg/L	104	APHA 2340C 24th Edition, 2023
9	Oil & Grease	mg/L	<2.5	APHA 5500 B 24th Edition, 2023

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TEST REPORT

Lab	No. 211223N-E-023			Page No. 2/2
S.No.	Test Parameter	r Units		Test Method
10	Total Dissolved Solids	mg/L	162	APHA 2540 C 24th Edition, 2023
11	Total suspended Solids	mg/L	10	APHA 2540 D 24th Edition, 2023
12	Sulphate as SO4	mg/L	4.4	APHA 4500-SO2-4 E 24th Edition, 2023
	Biological Testing (Water)		30	-
13	E. Coli	MPN/100ml	Absent	APHA 9221 A 24th Edition
14	Total Coliform Bacteria	MPN/100ml	Absent	APHA 9221 E 24th Edition
15	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis
16	Chemical Oxygen Demand	mg/L	4	CPCB Guide Manual:Water & waste water Analysis

Opinion:

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End of Report



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TEST REPORT

Lab No.	211223N-E-	024		Page No. 1/2		
Customer#	8	Larsen & Toubro Limited, Construction Pakal Dul HRT Package- Chenab Jal Shakti Head Complex (J & K) Jammu & Kashmir	Bhavan, Opposit San	aswati Dham, Rail		
Type of Sample#		Surface Water		1		
Customer's Descr	iption of Sample#	Surface Water				
Quantity#		5 Ltr.				
Packing, Markings, Seal & Quantity#		Plastic Can.				
Mode of Collection of Sample		Sampling by Laboratories				
Work Order No.#		EL176WOD1000061 Date		16/07/2023		
Date of Receipt of	Sample	21/12/2023				
Period of Analysis		21/12/2023 To 25/12/2023				
Sampling Team Id	lma	Idma Representative Team	Client	Mr. Kumresh Tikadar		
Sampling Location	n#	Down Stream				
Visual Observation	n	N/A				
Date of Sampling		19/12/2023				
Date of Reporting		25/12/2023				
Sampling Protocol		IS:17614 (PART-1):2021				
Testing Protocol		•				

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	•		-
1	Color	Hazen	<1	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	APHA 2150 B 24th Edition, 2023
3	pН		7.40	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO3	mg/L	124	APHA 2320 B 24th Edition, 2023
5	Chloride as Cl	mg/L	15	APHA 4500Cl- B 24th Edition, 2023
6	Conductivity	uS/cm	245	USEPA Method 120.1
7	Dissolved Öxygen (DO)	mg/L	8.0	CPCB Guide Manual:Water & waste water Analysis
8	Hardness Total (as CaCO3)	mg/L	110	APHA 2340C 24th Edition, 2023
9	Oil & Grease	mg/L	<2.5	APHA 5500 B 24th Edition, 2023

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TEST REPORT

Lab	No. 211223N-E-024			Page No. 2/2
S.No.	Test Parameter Units		Soci diameter	
10	Total Dissolved Solids	mg/L	171	APHA 2540 C 24th Edition, 2023
11	Total suspended Solids	mg/L	20	APHA 2540 D 24th Edition, 2023
12	Sulphate as SO4	mg/L	4.8	APHA 4500-SO2-4 E 24th Edition, 2023
	Biological Testing (Water)		A	•
13	E. Coli	MPN/100ml	Absent	APHA 9221 A 24th Edition
14	Total Coliform Bacteria	MPN/100ml	Absent	APHA 9221 E 24th Edition
15	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	CPCB Guide Manual:Water & waste water Analysis
16	Chemical Oxygen Demand	mg/L	4	CPCB Guide Manual:Water & waste water Analysis

Opinion:

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TEST REPORT

Lab No.	300923N-E-	001		Page No. 1/2		
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir				
Type of Sample#		Ambient Air				
Customer's Desc	ription of Sample#	Ambient Air				
Quantity#		1 No				
Packing, Marking	s#	Filter Paper Packed in Polythene Pouch				
Mode of Collection	n of Sample	Sampling by Laboratories				
Work Order No.#		JAI/PAKAL/2023-24/WO/35 Dated		01/04/2023		
Date of Receipt of	of Sample	30/09/2023				
Period of Analysi	S	30/09/2023 To 04/10/2023				
Sampling Team		Idma Representative Team	Client	Mr Tanveer		
Sampling Locatio	n#	PIGS				
Visual Observation	on	N/A				
Date of Sampling		27/09/2023				
Date of Reporting)	04/10/2023				
Sampling Protoco	ol	NAAQMS/36/2012-13 USEPA:2013				
Testing Protocol		NAAQS				

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING	-	-	-	-
	(ATMOSPHERIC POLLUTION)				
1	PM10	µg/m³	81.2	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	16.6	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	hā/w²	14.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	24.8	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	39.4	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	co	mg/m³	0.52	Max. 2	NAAQMS/36/2012-13

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

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Tel No. 0172 - 5064827, - 5064830

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Email: commercial@idmalab.co.in

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TEST REPORT

Lab	No. 300	923N-E-001				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	µg/m³	21	Max. 100	NAAQMS/36/2012-	13(Chemical method)
8	Benzene	µg/m³	2.3	Max. 5	NAAQMS/36/2012-13(GC method)	
9	Benzo-a-Pyrene(BaP) - F phase	Particulate ng/m³	<0.9	Max. 1	NAAQMS/36/2012-	13(GC method)
10	Arsenic	ng/m³	<1	Max. 6	NAAQMS/36/2012-	13
11	Nickel	ng/m³	<8	Max. 20	NAAQMS/36/2012-	13
12	Lead	µg/m³	0.12	Max. 1	NAAQMS/36/2012-	13

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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TEST REPORT

Lab No.	300923N-E-	002		Page No. 1/2			
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang D District-Kistwar J&K -182204 Jammu & Kashmir	ouru, Teh:	Dachhan,			
Type of Sample#		Ambient Air					
Customer's Descrip	otion of Sample#	Ambient Air					
Quantity#		1 No					
Packing, Markings#	‡	Filter Paper Packed in Polythene Pouch					
Mode of Collection	of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35 Dated 01/04/2023					
Date of Receipt of	Sample	30/09/2023					
Period of Analysis		30/09/2023 To 04/10/2023					
Sampling Team		Idma Representative Team	Client	Mr Tanveer			
Sampling Location#	‡	Crusher Plant					
Visual Observation		N/A					
Date of Sampling		27/09/2023					
Date of Reporting		04/10/2023					
Sampling Protocol		NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	~	=	-	~
1	PM10	µg/m³	79.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	16.7	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m³	18.9	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	23.7	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	μg/m³	37.9	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	со	mg/m³	0.49	Max. 2	NAAQMS/36/2012-13

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TEST REPORT

Lab No. 300923N-E-00		300923N-E-002					Page No. 2/2
S.No.	Test Parameter		Units	Results	Specifications	Test Method	
7	Ozone		μg/m³	23	Max. 100	NAAQMS/36/2012-	13(Chemical method)
8	Benzene		μg/m³	2.4	Max. 5	NAAQMS/36/2012-	13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase		ng/m³	<0.9	Max. 1	NAAQMS/36/2012-	13(GC method)
10	Arsenic		ng/m³	<1	Max. 6	NAAQMS/36/2012-	13
11	Nickel		ng/m³	<8	Max. 20	NAAQMS/36/2012-	13
12	12 Lead		µg/m³	0.11	Max. 1	NAAQMS/36/2012-	13

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End of Report



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TEST REPORT

Lab No.	300923N-E-	003		Page No. 1/2				
Customer#	•	Jaiprakash Associates Ltd.						
		Pakal Dul Hydro Electric Project (Dam Packag District-Kistwar J&K -182204 Jammu & Kashn		Dachhan,				
Type of Sample#		Ambient Air						
Customer's Descripti	on of Sample#	Ambient Air						
Quantity#		1 No						
Packing, Markings#		Filter Paper Packed in Polythene Pouch						
Mode of Collection o	f Sample	Sampling by Laboratories						
Work Order No.#		JAI/PAKAL/2023-24/WO/35	01/04/2023					
Date of Receipt of Sa	ample	30/09/2023						
Period of Analysis		30/09/2023 To 04/10/2023						
Sampling Team		Idma Representative Team	Client	Mr Tanveer				
Sampling Location#		Adit To HRT		1				
Visual Observation		N/A	1000					
Date of Sampling		27/09/2023						
Date of Reporting		04/10/2023						
Sampling Protocol		NAAQMS/36/2012-13 USEPA:2013						
Testing Protocol		NAAQS						

RESULTS

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

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TEST REPORT

Lab	No. 300	923N-E-003	Page No. 2/2				
S.No.	Test Parameter		Units	Results	Specifications	Test Method	
7	Ozone ·		µg/m³	22	Max. 100	NAAQMS/36/2012-	13(Chemical method)
8	Benzene		μg/m³	<2	Max. 5	NAAQMS/36/2012-13(GC method)	
9	9 Benzo-a-Pyrene(BaP) - Particulate phase		ng/m³	<0.9	Max. 1	NAAQMS/36/2012-	13(GC method)
10	Arsenic		ng/m³	<1	Max. 6	NAAQMS/36/2012-	13
11	Nickel		ng/m³	<8	Max. 20	NAAQMS/36/2012-	13
12	12 Lead		μg/m³	0.13	Max. 1	NAAQMS/36/2012-	13

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TEST REPORT

Lab No.	300923N-E-	004		Page No. 1/2			
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package) District-Kistwar J&K -182204 Jammu & Kashmir	, Dang Duru, Teh:	Dachhan,			
Type of Sample#		Ambient Air					
Customer's Descript	ion of Sample#	Ambient Air					
Quantity#		1 No					
Packing, Markings#		Filter Paper Packed in Polythene Pouch					
Mode of Collection of	of Sample	Sampling by Laboratories	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s				
Work Order No.#		JAI/PAKAL/2023-24/WO/35	01/04/2023				
Date of Receipt of S	ample	30/09/2023					
Period of Analysis		30/09/2023 To 04/10/2023					
Sampling Team		Idma Representative Team	Client	Mr Tanveer			
Sampling Location#		Cut of Wall					
Visual Observation		N/A					
Date of Sampling		27/09/2023					
Date of Reporting		04/10/2023					
Sampling Protocol		NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

RESULTS

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S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	
1	PM10	µg/m³	82.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m³	17.2	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	μg/m³	19.6	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m³	25.4	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m³	38.7	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	co	mg/m³	0.53	Max. 2	NAAQMS/36/2012-13



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TEST REPORT

Lab	No. 30	00923N-E-004			44		Page No. 2/2
S.No.	Test Parameter	Units		Results	Specifications	Test Method	
7	Ozone		µg/m³	24	Max. 100	NAAQMS/36/2012-	13(Chemical method)
8	Benzene		µg/m³	2.3	Max. 5	NAAQMS/36/2012-	13(GC method)
9 Benzo-a-Pyrene(BaP) - Particulate phase		- Particulate	ng/m³	<0.9	Max. 1	NAAQMS/36/2012-	13(GC method)
10	Arsenic		ng/m³	<1	Max. 6	NAAQMS/36/2012-	13
11	Nickel		ng/m³	<8	Max. 20	NAAQMS/36/2012-	13
12	Lead		µg/m³	0.14	Max. 1	NAAQMS/36/2012-	13

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End of Report

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Rech. Mgr.

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TEST REPORT

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

RESULTS

			A 5 MIN 5	the state of other	
S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	69.8	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	51.6	Max 70	EPA Guideline Manual July 2008

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End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	300923N-E-	006		Page No. 1/1			
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir					
Type of Sample#		NOISE LEVEL (AMBIENT)					
Customer's Desc	ription of Sample#	NOISE LEVEL (AMBIENT)					
Quantity#		1 No					
Packing, Marking	ıs#	Instrument at Site					
Mode of Collection	on of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023			
Date of Receipt of	of Sample	30/09/2023					
Period of Analysi	S	30/09/2023 To 04/10/2023					
Sampling Team		Idma Representative Team	Mr Tanveer				
Sampling Location	n#	Crusher Plant					
Visual Observation	on	N/A					
Date of Sampling		27/09/2023					
Date of Reporting	g	04/10/2023					
Sampling Protoc	ol	CPCB PROTOCOL:2015					
Testing Protocol		EPA/CPCB					

RESULTS

			1 View	OOLIO	
S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	~	•	-
1	Lday	dB(A)	70.6	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	55.1	Max 70	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	300923N-E-	007 Page 1						
Customer#		Jaiprakash Associates Ltd.						
		Pakal Dul Hydro Electric Project (Dam Package), Dang District-Kistwar J&K -182204 Jammu & Kashmir	Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, -Kistwar J&K -182204 Jammu & Kashmir					
Type of Samplet	ŧ	NOISE LEVEL (AMBIENT)						
Customer's Desc	cription of Sample#	NOISE LEVEL (AMBIENT)		-				
Quantity#		1 No						
Packing, Marking	gs#	Instrument at Site		A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2 A C 2				
Mode of Collection	on of Sample	Sampling by Laboratories						
Work Order No.#	ŧ	JAI/PAKAL/2023-24/WO/35	01/04/2023					
Date of Receipt	of Sample	30/09/2023						
Period of Analys	is	30/09/2023 To 04/10/2023						
Sampling Team		Idma Representative Team	Client	Mr Tanveer				
Sampling Location	on#	Adit To HRT						
Visual Observati	on	N/A						
Date of Sampling	g	27/09/2023						
Date of Reportin	g	04/10/2023						
Sampling Protoc	sol	CPCB PROTOCOL:2015						
Testing Protocol		EPA/CPCB						

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.8	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	52.7	Max 70	EPA Guideline Manual July 2008

Represents details provided by the customer.

End of Report

Idma Laboratories Limited

Idma Corporate Park,

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Haryana (India)

Tel No. 0172 - 5064827, - 5064830

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TEST REPORT

Lab No.	300923N-E-	-008 Page N						
Customer#		Jaiprakash Associates Ltd.						
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir						
Type of Sample#		NOISE LEVEL (AMBIENT)						
Customer's Desc	ription of Sample#	NOISE LEVEL (AMBIENT)						
Quantity#		1 No						
Packing, Marking	js#	Instrument at Site						
Mode of Collection	on of Sample	Sampling by Laboratories						
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023				
Date of Receipt of	of Sample	30/09/2023						
Period of Analysi	is	30/09/2023 To 04/10/2023						
Sampling Team		Idma Representative Team	Client	Mr Tanveer				
Sampling Location	n#	Cutt Of Wall						
Visual Observati	on	N/A						
Date of Sampling	9	27/09/2023						
Date of Reportin	g	04/10/2023						
Sampling Protoc	ol	CPCB PROTOCOL:2015						
Testing Protocol		EPA/CPCB						

RESULTS

		H 16 (600) 100	to other transfer or the	
Test Parameter	Units	Results	Limits	Test Method
CHEMICAL DISCIPLINE (Noise Levels)	-	-	*	-
Lday	dB(A)	70.5	Max 75	EPA Guideline Manual July 2008
LNight	dB(A)	53.6	Max 70	EPA Guideline Manual July 2008
	CHEMICAL DISCIPLINE (Noise Levels) Lday	CHEMICAL DISCIPLINE (Noise Levels) Lday dB(A)	Test Parameter Units Results CHEMICAL DISCIPLINE (Noise Levels) Lday dB(A) 70.5	CHEMICAL DISCIPLINE (Noise Levels) Lday dB(A) 70.5 Max 75

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Idma Corporate Park,

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TEST REPORT

Lab No.	300923N-E-009	Page					
Customer#		Jaiprakash Associates Ltd.					
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir					
Type of Sample	e#	Drinking Water					
Customer's De	scription of Sample#	Drinking Water					
Quantity#		5 Ltr+250 ml					
Packing, Marki	ngs, Seal & Quantity#	Plastic Can & Glass Bottle					
Mode of Collec	tion of Sample	Sampling by Laboratories					
Work Order No).#	JAI/PAKAL/2023-24/WO/35	01/04/2023				
Date of Receip	t of Sample	30/09/2023					
Period of Analy	/sis	30/09/2023 To 04/10/2023					
Sampling Tear	n Idma	Idma Representative Team	Client	Mr Tanveer			
Sampling Loca	tion#	Steel Yard					
Visual Observa	ation	N/A					
Date of Sampli	ng	27/09/2023					
Date of Report	ing	04/10/2023					
Sampling Proto	ocol	IS:17614 (PART-1):2021 & ILL/SOP/MB/034					
Testing Protoc	ol	IS: 10500:2012					

RESULTS

				2 4 1000 4	0000	
S.No.	Test Parameter	Test Parameter Units Results	Results	Limit of IS: 10500-2012		Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (-	-	-	-	-
1	Color	Hazen	2	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	рН	-	7.26	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO3	mg/L	124	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ -0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	23.5	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	21.4	Max. 250	Max. 1000	APHA 4500Cl- B 24th Edition, 2023

Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

Lab I	No. 3009	23N-E-009				Page No. 2	
S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Method	
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	ė.	
8	Cyanide as CN	mg/L	BLQ (LOQ -0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023	
9	Fluoride as F	mg/L	0.22	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis	
10	Hardness Total (as CaCO3)	mg/L	106	Max. 200	Max. 600	APHA 2340C 24th Edition, 2022	
11	Sulphate as SO4	mg/L	10.1	Max. 200	Max. 400	APHA 4500-SO2-4 E 24th Edition, 2023	
12	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023	
13	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023	
14	Residual Free chlorine	e mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023	
15	Cadmium	mg/L	BLQ (LOQ -0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023	
16	Potassium	mg/L	2.1	-	-	APHA 3120 B 24th Edition, 2023	
17	Sodium	mg/L	9.8	-	-	APHA 3120 B 24th Edition, 2023	
18	Copper as Cu	mg/L	BLQ (LOQ -0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023	
19	Iron as Fe	mg/L	0.002	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023	
20	Manganese as Mn	mg/L	BLQ (LOQ -0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023	
21	Nickel as Ni	mg/L	BLQ (LOQ -0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023	
22	Zinc as Zn	mg/L	0.021	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023	
23	Aluminum as Al	mg/L	BLQ (LOQ -0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023	
24	Selenium as Se	mg/L	BLQ (LOQ -0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023	
25	Silver as Ag	mg/L	BLQ (LOQ -0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023	
26	Mercury as Hg	mg/L	BLQ (LOQ -0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023	
27	Total Arsenic	mg/L	BLQ (LOQ -0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023	
28	Total Chromium	mg/L	BLQ (LOQ	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023	

Reviewed by

Authorised signator

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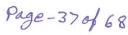
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TEST REPORT

Lab I	No. 30	00923N-E-009					Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Me	thod
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source		
28			-0.0005)				
	Biological Testing (Water)		-	-	-	-	
29	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample		FSSAI Food Manual	
30	Total Coliform Bac	teria /100ml	Absent	Shall not be detectable in any 100ml sample	-	FSSAI Food Manual	

Opinion:

Represents details provided by the customer.

End of Report



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TEST REPORT

Lab No.	300923N-E-010		P					
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir						
Type of Sample	e#	Drinking Water						
Customer's Des	scription of Sample#	Drinking Water						
Quantity#		5 Ltr+250 ml						
Packing, Markin	ngs, Seal & Quantity#	Plastic Can & Glass Bottle						
Mode of Collec	tion of Sample	Sampling by Laboratories						
Work Order No	.#	JAI/PAKAL/2023-24/WO/35	01/04/2023					
Date of Receip	t of Sample	30/09/2023						
Period of Analy	rsis	30/09/2023 To 04/10/2023						
Sampling Tean	n Idma	Idma Representative Team	Client	Mr Tanveer				
Sampling Local	tion#	Sewer Batti Mess						
Visual Observa	ition	N/A						
Date of Sampli	ng	27/09/2023						
Date of Reporti	ing	04/10/2023						
Sampling Proto	ocol	IS:17614 (PART-1):2021 & ILL/SOP/MB/034						
Testing Protoco	ol	IS: 10500:2012						

RESULTS

S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
	Chemical Testing (Water)	-	-		-	-
1	Color	Hazen	<1	Max. 5	Max. 15	APHA 2120 B&C 24th Edition, 2023
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2150 B 24th Edition, 2023
3	рН	-	7.23	6.5-8.5	No Relaxation	APHA 4500H+B 24th Edition, 2023
4	Alkalinity as CaCO3	mg/L	118	Max. 200	Max. 600	APHA 2320 B 24th Edition, 2023
5	Boron	mg/L	BLQ (LOQ -0.0005)	Max. 0.5	Max. 2.4	APHA 3120 B 24th Edition, 2023
6	Calcium as Ca	mg/L	21.5	Max. 75	Max. 200	APHA 3500-Ca B 24th Edition, 2023
7	Chloride as Cl	mg/L	17.6	Max. 250	Max. 1000	APHA 4500CI- B 24th Edition, 2023

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TEST REPORT

Lab I	No. 300923	3N-E-010				Page No.
S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Method
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source	
8	Cyanide as CN	mg/L	BLQ (LOQ -0.05)	Max. 0.05	No Relaxation	APHA 4500CN-C&F 24th Edition, 2023
9	Fluoride as F	mg/L	0.19	Max. 1	Max. 1.5	CPCB Guide Manual:Water & waste water Analysis
10	Hardness Total (as CaCO3)	mg/L	102	Max. 200	Max. 600	APHA 2340C 24th Edition, 2023
11	Sulphate as SO4	mg/L	9.5	Max. 200	Max. 400	APHA 4500-SO2-4 E 24th Edition, 2023
12	Turbidity	NTU	<1	Max. 1	Max. 5	APHA 3130 B 24th Edition, 2023
13	Taste	Qualitative	Agreeable	Agreeable	Agreeable	APHA 2160 B 24th Edition, 2023
14	Residual Free chlorine	mg/L	0.21	Min. 0.2	1	APHA 4500Cl B 24th Edition, 2023
15	Cadmium	mg/L	BLQ (LOQ -0.0005)	Max. 0.003	No Relaxation	APHA 3120 B 24th Edition, 2023
16	Potassium	mg/L	2.3	-	-	APHA 3120 B 24th Edition, 2023
17	Sodium	mg/L	8.9	M	-	APHA 3120 B 24th Edition, 2023
18	Copper as Cu	mg/L	BLQ (LOQ -0.0005)	Max. 0.05	Max. 1.5	APHA 3120 B 24th Edition, 2023
19	Iron as Fe	mg/L	0.004	Max. 1.0	No Relaxation	APHA 3120 B 24th Edition, 2023
20	Manganese as Mn	mg/L	BLQ (LOQ -0.0005)	Max. 0.1	Max. 0.3	APHA 3120 B 24th Edition, 2023
21	Nickel as Ni	mg/L	BLQ (LOQ -0.0005)	Max. 0.02	No Relaxation	APHA 3120 B 24th Edition, 2023
22	Zinc as Zn	mg/L	0.085	Max. 5	Max. 15	APHA 3120 B 24th Edition, 2023
23	Aluminum as Al	mg/L	BLQ (LOQ -0.0005)	Max. 0.03	Max. 0.2	APHA 3120 B 24th Edition, 2023
24	Selenium as Se	mg/L	BLQ (LOQ -0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
25	Silver as Ag	mg/L	BLQ (LOQ -0.0005)	Max. 0.1	No Relaxation	APHA 3120 B 24th Edition, 2023
26	Mercury as Hg	mg/L	BLQ (LOQ -0.0005)	Max. 0.001	No Relaxation	APHA 3120 B 24th Edition, 2023
27	Total Arsenic	mg/L	BLQ (LOQ -0.0005)	Max. 0.01	No Relaxation	APHA 3120 B 24th Edition, 2023
28	Total Chromium	mg/L	BLQ (LOQ	Max. 0.05	No Relaxation	APHA 3120 B 24th Edition, 2023

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Authorised signatory

1 10



TEST REPORT

Lab i	No. 300	923N-E-010					Page No. 3/3
S.No.	Test Parameter	Units	Results	Limit of IS	: 10500-2012	Test Method	
				Requirement (Acceptable Limit)	Permissible Limit in absence of alternate Source		
28			-0.0005)				
	Biological Testing (Water)	-	-	-	-	-	
29	E. Coli	/100ml	Absent	Shall not be detectable in any 100ml sample	en.	FSSAI Food Manual	
30	Total Coliform Bacte	eria /100ml	Absent	Shall not be detectable in any 100ml sample		FSSAI Food Manual	-

Opinion:

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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

Tel No. 0172 - 5064827, - 5064830

Website: www.idmagroup.co.in

Email: commercial@idmalab.co.in

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TEST REPORT

Lab No.	300923N-E-	011		Page No. 1/1			
Customer#		Jaiprakash Associates Ltd.					
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir					
Type of Sample#		Waste Water					
Customer's Desc	ription of Sample#	Waste Water					
Quantity#		5 Ltr					
Packing, Marking	s#	Plastic Can		N.			
Mode of Collection	n of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35 Date		01/04/2023			
Date of Receipt of	of Sample	30/09/2023					
Period of Analysi	S	30/09/2023 To 04/10/2023					
Sampling Team		Idma Representative Team	Client	Mr Tanveer			
Sampling Locatio	n#	Batching Plant					
Visual Observation	on	N/A					
Date of Sampling		27/09/2023					
Date of Reporting]	04/10/2023					
Sampling Protoco	ol	IS:17614 (PART-1):2021					
Testing Protocol		СРСВ					

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	~	-	-	-
1	pH	-	7.42	5.5-9.0	APHA4500-H+ B24th Edition, 2022
2	Chemical Oxygen Demand (COD)	mg/L	48.4	Max 250	CPCB Guide Manual:Water & waste water Analysis
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	10	Max 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	3.2	Max 10	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	321	-	APHA2540 C24th Edition, 2022
6	Total Suspended Solids (TSS)	mg/L	29	Max 100	APHA2540 D24th Edition, 2022

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TEST REPORT

Lab No.	300923N-E-	012		Page No. 1/1		
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir				
Type of Sample#	ļ.	Waste Water				
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	cription of Sample#	Waste Water	144			
Quantity#		5 Ltr				
Packing, Marking	gs#	Plastic Can				
Mode of Collection		Sampling by Laboratories				
Work Order No.#	ŧ .	JAI/PAKAL/2023-24/WO/35 Dated 01/04/2023				
Date of Receipt	of Sample	30/09/2023				
Period of Analys		30/09/2023 To 04/10/2023				
Sampling Team		Idma Representative Team	Client	Mr Tanveer		
Sampling Location	on#	Adit To HRT				
Visual Observati	ion	N/A				
Date of Samplin	g	27/09/2023				
Date of Reportin	ng	04/10/2023				
Sampling Protoc	col	IS:17614 (PART-1):2021				
Testing Protoco		CPCB				

RESULTS

			1 %5-	JULIU		
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
	CHEMICAL TESTING (Waste Water)	-	-	*	-	
	оН	-	7.62	5.5-9.0	APHA4500-H+ B24th Edition, 2023	
2	Chemical Oxygen Demand (COD)	mg/L	45.8	Max 250	CPCB Guide Manual:Water & waste water Analysis	
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	12	Max 30	CPCB Guide Manual:Water & waste water Analysis	
1	Oil & Grease	mg/L	<2.5	Max 10	EPA Method 1664	
5	Total Dissolved Solids (TDS)	mg/L	362	-	APHA2540 C24th Edition, 2023	
6	Total Suspended Solids (TSS)	mg/L	27	Max 100	APHA2540 D24th Edition, 2023	

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End of Report



Idma Laboratories Limited

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TEST REPORT

	300923N-E-	013		Page No. 1/1			
Lab No. Customer#	35552514	Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir					
Type of Sample#		Waste Water					
	iption of Sample#	Waste Water					
Quantity#		5 Ltr					
Packing, Marking	s#	Plastic Can					
Mode of Collectio		Sampling by Laboratories Dated 01/04/2023					
Work Order No.#	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	JAI/PAKAL/2023-24/WO/35 Dated 01/04/2023					
Date of Receipt of	of Sample	30/09/2023					
Period of Analysi		30/09/2023 To 04/10/2023					
Sampling Team		Idma Representative Team	Client	Mr Tanveer			
Sampling Location	n#	Sewarbatti Mess					
Visual Observation	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	N/A					
Date of Sampling		27/09/2023					
Date of Reporting		04/10/2023					
Sampling Protoc		IS:17614 (PART-1):2021					
Testing Protocol		CPCB					
		RESULTS					

			I/L	SULIS		
.No.	Test Parameter	Parameter Units		Specifications	Test Method	
	CHEMICAL TESTING (Waste Water)	-	-	-	-	
			7.36	5.5 - 9.0	APHA4500-H+ B24th Edition, 2023	
	pH Barrand (COD)	mg/L	52.4	Max 250	CPCB Guide Manual:Water & waste water	
2	Chemical Oxygen Demand (COD)	mg/L			Analysis	
3	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	10	Max 30	CPCB Guide Manual:Water & waste water Analysis	
		mg/L	3.7	Max 10	EPA Method 1664	
4	Oil & Grease		351		APHA2540 C24th Edition, 2023	
5	Total Dissolved Solids (TDS)	mg/L	301		APHA2540 D24th Edition, 2023	
6	Total Suspended Solids (TSS)	mg/L	23	Max 100	APHAZ540 DZ4th Edition, 2025	

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End of Report



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TEST REPORT

Lab No.	260324L-ED	-040		Page No. 1/2			
Customer#		Jaiprakash Associates Ltd.					
,		Pakal Dul Hydro Electric Project (Dam Package), Dang Du District-Kistwar J&K -182204 Jammu & Kashmir	Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir				
Type of Sample#		Surface Water					
Customer's Descrip	tion of Sample#	Surface Water					
Quantity#		5 Ltr					
Packing, Markings,	Seal & Quantity#	Plastic can (SW-2)					
Mode of Collection	of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023			
Date of Receipt of	Sample	26/03/2024					
Period of Analysis		26/03/2024 To 30/03/2024					
Sampling Team Idr	na	Idma Representative Team	Client	Mr Tanveer Azad			
Sampling Location#	‡	Maru Sudan River					
Visual Observation		N/A					
Date of Sampling		21/03/2024					
Date of Reporting		30/03/2024					
Sampling Protocol		IS:17614 (PART-1):2021					
Testing Protocol							

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	*	-
1	pH	-	7.28	IS 3025 (Part 11)
2	Alkalinity as CaCO3	mg/L	115	IS 3025 (Part 23)
3	Chloride as CI	mg/L	19.4	IS 3025 (Part 32)
4	Hardness Total (as CaCO3)	mg/L	90	IS 3025 (Part 21)
5	Oil & Grease	mg/L	<2.5	IS 3025 (Part 39)
6	Total Dissolved Solids	mg/L	165	IS 3025 (Part 16)
7	Sulphate as SO4	mg/L	8.0	IS 3025 (Part 24)
8	Iron as Fe	mg/L	0.004	IS 3025 (Part 53)
9	Lead as Pb	mg/L	<0.0005	IS 3025 (Part 47)

Idma Laboratories Limited

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TEST REPORT

Lab	No. 260324L-ED-040			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods
	Biological Testing (Water)	70.00	-	44
10	F. coliform	MPN/100ml	63	IS 1622:1981
11	E. coli	MPN/100ml	31	IS 1622:1981
12	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)
13	Chemical Oxygen Demand	mg/L	<4	IS 3025 (Part 58)

Opinion:

Represents details provided by the customer.

End of Report



Asst Tech. Manager

Idma Laboratories Limited

Idma Corporate Park,

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Panchkula - 134113,

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TEST REPORT

Lab No.	260324L-ED	-041 Page No						
Customer#		Jaiprakash Associates Ltd.						
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir						
Type of Sample#	E	Waste Water						
Customer's Desc	ription of Sample#	Waste Water						
Quantity#		5 Ltr						
Packing, Marking	js#	Plastic can						
Mode of Collection	on of Sample	Sampling by Laboratories						
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023				
Date of Receipt of	of Sample	26/03/2024						
Period of Analysi	s	26/03/2024 To 30/03/2024						
Sampling Team		Idma Representative Team	Client	Mr Tanveer Azad				
Sampling Location	n#	Adit to HRT-Tunnel						
Visual Observation	on	N/A						
Date of Sampling]	22/03/2024						
Date of Reporting	g	30/03/2024						
Sampling Protoco	ol	IS:17614 (PART-1):2021						
Testing Protocol		СРСВ						

RESULTS

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

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End of Report



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Authori

Kartar Si Tech. Ma

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Page - 47 of 68

TEST REPORT

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

RESULTS

			7 77		
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	
1	рН	-	7.22	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	64	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand	mg/L	10	Max 30	IS 3025 (Part 44) BOD 3-days at 27 °C
4	Oil & Grease	mg/L	<2.5	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	325	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	31	Max 100	IS 3025 (Part 17)

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End of Report



Authorise Kartar Sing

Tech. Mgr.

Idma Laboratories Limited

Idma Corporate Park,

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TEST REPORT

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

RESULTS

			I % fine	.00210	
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)		-	-	-
1	рН	-	7.37	5.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	72	Max 250	IS 3025 (Part 58)
3	Biochemical Oxygen Demand	mg/L	16	Max 30	IS 3025 (Part 44) BOD 3-days at 27 °C
Į.	Oil & Grease	mg/L	3.8	Max 10	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	374		IS 3025 (Part 16)
3	Total Suspended Solids (TSS)	mg/L	41	Max 100	IS 3025 (Part 17)
			A		

[#] Represents details provided by the customer.

End of Report

Asst Tech. Manager

Dipti Jain

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Kartar Singh Tech. Mgr.

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TEST REPORT

ULR: TC820724700001440F

Lab No.	010424L-FD-02	Page N						
Customer#		Jaiprakash Associates Ltd.						
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan,						
		District-Kistwar J&K -182204 Jammu & Kashmir						
Type of Sample	le#	Drinking Water (RO)						
Customer's De	escription of Sample#	Drinking Water (RO)						
Quantity#		5 Ltr.						
Packing, Mark	ings, Seal & Quantity#	Plastic Can, Loc-Annapurna-Dangduroo						
Mode of Collec	ction of Sample	Sample Collected By Idma Lab Person						
Work Order No	p.#	JAI/PAKAL/2023-24/WO/35 Dated 01/04/2023						
Date of Receip	ot of Sample	01/04/2024						
Period of Anal	ysis	01/04/2024 To 08/04/2024						
Visual Observ	ation	N/A						
Date of Repor	ting	08/04/2024						
Testing Protoc	col	IS 10500:2012 Amdt 1 to 4						

RESULTS

S.No.	Test Parameter	Units	Results	Requi	rements	Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-		-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	рН	-	7.05	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO3)	mg/L	67.3	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.0008	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	24.3	Max. 75	Max. 200	IS 3025 (Part 40) :1991
7	Chloride (as CI)	mg/L	13.8	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ- 0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO3)	mg/L	78.8	Max. 200	Max. 600	IS 3025 (Part 21) : 2009





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TEST REPORT

ULR: TC820724700001440F

Lab N	lo.	010424	4L-FD-028		€		Page No. 2
S.No. Test Paramete		Test Parameter Units Res		Results	Requir	ements	Test Methods
					Acceptable Limit (Max)	Permissible Limit (Max)	
11	Nitrate (as NO3	3)	mg/L	BLQ (LOQ- 1.0)	Max. 45	No Relaxation	IS 3025 (Part 34) :1988
12	Total Dissolved	Solids	mg/L	115	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
13	Sulphate (as S0	04)	mg/L	5.4	Max. 200	Max. 400	IS 3025 (Part 24) :1986
14	Turbidity		NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
15	Taste		Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
16	Free Residual o	hlorine	mg/L	BLQ (LOQ- 0.1)	0.2 Min.	1	IS 3025 (Part 26): 2021
	METALS:		-	-	-	-	-
17	Cadmium (as C	d)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
18	Copper (as Cu)		mg/L	BLQ (LOQ-0.0005	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
19	Iron (as Fe)		mg/L	BLQ (LOQ-0.0005	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
20	Manganese (as	Mn)	mg/L	BLQ (LOQ-0.0005	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
21	Nickel (as Ni)		mg/L	BLQ (LOQ-0.0005	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
22	Zinc (as Zn)		mg/L	BLQ (LOQ-0.0005	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
23	Aluminum (as A	l)	mg/L	BLQ (LOQ-0.0005	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
24	Selenium (as Se	9)	mg/L	BLQ (LOQ-0.0005	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003





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Page-51 of 68 Idma Laboratories Limited



TEST REPORT

ULR: TC820724700001440F

Lab N	10. 0	10424L-FD-028					Page No. 3/3
S.No.	Test Parame	eter Units	Results	Requi	rements	Test Methods	
				Acceptable Limit (Max)	Permissible Limit (Max)		
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0,0005	Max. 0.001	No Relaxation	IS 3025 (Part 48) :19	994
26	Magnesium (as Mo	g) mg/L	4.4	Max. 30	Max. 100	IS 3025 (Part 46) :20	23
27	Total Arsenic (as A	As) mg/L	BLQ (LOQ-0.0005	Max. 0.01	No Relaxation	IS 3025 (Part 37) :20	22
28	Total Chromium (a	s Cr) mg/L	BLQ (LOQ-0.0005	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 20	003
29	Sodium as Na	mg/L	4.8	-	-	IS 3025 (Part-45): 19	93
30	Potassium as K	mg/L	1.6	-	-	IS 3025 (Part-45): 19	93
	Biological Testing (Water)	e0	-			~~	u .
31	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample		IS 15185: 2016	
32	Total Coliform Bac	teria /100ml	Absent	Shall not be detectable in any 100ml sample		IS 15185: 2016	

Opinion:

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

Represents details provided by the customer.

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TEST REPORT

ULR: TC820724700001439F

Lab No.	010424L-FD-02	9 .		Page No. 1/3			
Customer#		Jaiprakash Associates Ltd.					
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir					
Type of Sample	e#	Drinking Water (RO)					
Customer's Des	scription of Sample#	Drinking Water (RO)					
Quantity#		5 Ltr.					
Packing, Markings, Seal & Quantity#		Plastic Can, Loc-Annapurna-Pinjrari					
Mode of Collect	tion of Sample	Sample Collected By Idma Lab Person					
Work Order No.	#	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023			
Date of Receipt	of Sample	01/04/2024					
Period of Analy	sis	01/04/2024 To 08/04/2024					
Visual Observation		N/A					
Date of Reporting		08/04/2024					
Testing Protocol		IS 10500:2012 Amdt 1 to 4					

RESULTS

S.No.	Test Parameter	Units	Results	Requir	rements	Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)		•	-	-	m
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4): 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	рН		7.45	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Total Alkalinity (as CaCO3)	mg/L	55.1	Max. 200	Max. 600	IS 3025 (Part 23) :2023
5	Boron	mg/L	0.0007	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
6	Calcium (as Ca)	mg/L	25.9	Max. 75	Max. 200	IS 3025 (Part 40) :1991
7	Chloride (as Cl)	mg/L	14.3	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
8	Cyanide (as CN)	mg/L	BLQ (LOQ- 0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
9	Fluoride (as F)	mg/L	0.2	Max. 1	Max. 1.5	IS: 3025 (Part 60) : 2008
10	Total Hardness (as CaCO3)	mg/L	88.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009

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TEST REPORT

ULR: TC820724700001439F

Lab N	10. 0	10424	L-FD-029				Р	age No. 2/
S.No.	Test Parame	eter	Units	Results	Requir	rements	Test Methods	
					Acceptable Limit (Max)	Permissible Limit (Max)		
11	Nitrate (as NO3)		mg/L	BLQ (LOQ- 1.0)	Max. 45	No Relaxation	IS 3025 (Part 34) :1988	
12	Total Dissolved So	olids	mg/L	131	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023	
13	Sulphate (as SO4)		mg/L	5.3	Max. 200	Max. 400	IS 3025 (Part 24) :1986	
14	Turbidity		NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023	
15	Taste	antimios muchos	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023	
16	Free Residual chlo	rine	mg/L	BLQ (LOQ- 0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021	
	METALS:		-	-	-	~	-	
17	Cadmium (as Cd)		mg/L	BLQ (LOQ-0.0005	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023	*
18	Copper (as Cu)		mg/L	BLQ (LOQ-0.0005	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992	
19	Iron (as Fe)		mg/L	BLQ (LOQ-0.0005	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003	
20	Manganese (as Mn	1)	mg/L	BLQ (LOQ-0.0005	Max. 0.1	Max. 0,3	IS 3025 (Part 59) : 2006	
21	Nickel (as Ni)		mg/L	BLQ (LOQ-0.0005	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003	
22	Zinc (as Zn)		mg/L	BLQ (LOQ-0.0005	Max. 5	Max. 15	IS 3025 (Part 49) : 1994	
23	Aluminum (as Al)		mg/L	BLQ (LOQ-0.0005	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003	
24	Selenium (as Se)		mg/L	BLQ (LOQ-0.0005	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:	2003





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TEST REPORT

III R - TC820724700001430E

Lab I	No.)10424L-	FD-029					Page No. 3/3
S.No.	Test Param	eter Units		Results	Requirements		Test Me	thods
					Acceptable Limit (Max)	Permissible Limit (Max)		
25	Mercury (as Hg)		mg/L	BLQ (LOQ-0.0005	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994	
26	Magnesium (as M	g)	mg/L	5.7	Max. 30	Max. 100	IS 3025 (Part 46) :2023	
27	Total Arsenic (as /	As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022	
28	Total Chromium (a	as Cr)	mg/L	BLQ (LOQ-0.0005	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003	
29	Sodium as Na		mg/L	5.0	-	-	IS 3025 (Part-45): 1993	
30	Potassium as K		mg/L	1.8	-	-	IS 3025 (Part-45): 1993	
	Biological Testing (Water)			-			7.7.	
31	E. coli		/100ml	Absent	Shall not be detectable in any 100ml sample	0-0	IS 15185: 2016	
32	Total Coliform Bac	teria	/100ml	Absent	Shall not be detectable in any 100ml sample		IS 15185: 2016	

Opinion:

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

Represents details provided by the customer.

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End of Report



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TEST REPORT

Lab No.	260324L-E	D-033/A		Page No. 1/2				
Customer#		Jaiprakash Associates Ltd.						
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir						
Type of Sample#		Ambient Air						
Customer's Desc	ription of Sample#	Ambient Air						
Quantity#		1 No						
Packing, Marking	s#	Filter Paper Packed in Polythene Pouch						
Mode of Collection of Sample		Sampling by Laboratories	aboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023				
Date of Receipt o	f Sample	26/03/2024						
Period of Analysis	S	26/03/2024 To 30/03/2024						
Sampling Team		Idma Representative Team	Client	Mr Tanveer Azad				
Sampling Location	n#	Power Intake Gate Shaft		1				
Visual Observatio	n	N/A						
Date of Sampling		21/03/2024						
Date of Reporting		30/03/2024						
Sampling Protoco	ol	NAAQMS/36/2012-13 USEPA:2013						
Testing Protocol		NAAQS	& N. S. A. S					

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	
1	PM 10	µg/m³	74.6	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m³	32.7	Max. 60	IDL/SP/03, Issue No-1
3	802	µg/m³	16.4	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m³	18.6	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m³	17.2	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m³	20.6	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m³	<8	Max. 20	EPA/625/R-96/010a

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TEST REPORT

Lab No. 26032		260324L-ED-0	33/A				Page No. 2/2
S.No.	Test Parameter		Units	Results	Specifications	Test Method	
9	Lead		µg/m³	<1	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

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TEST REPORT

Lab No.	260324L-E	0-033/B		Page No. 1/			
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Packa District-Kistwar J&K -182204 Jammu & Kashr	ge), Dang Duru, Te				
Type of Sample#		Ambient Air					
Customer's Descri	iption of Sample#	Ambient Air					
Quantity#	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	1 No					
Packing, Markings	<i>#</i>	Filter Paper Packed in Polythene Pouch					
Mode of Collection	of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Date	d 01/04/2023			
Date of Receipt of	Sample	26/03/2024					
Period of Analysis		26/03/2024 To 30/03/2024					
Sampling Team		Idma Representative Team	Clien	t Mr Tanveer Azad			
Sampling Location	#	Power Intake Gate Shaft					
Visual Observation)	N/A					
Date of Sampling		21/03/2024					
Date of Reporting		30/03/2024					
Sampling Protocol		NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

RESULTS

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S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	co	mg/m³	0.43	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m³	2.08	Max. 05	IS 5182 (Part 11)
	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m³	<0.9	Max. 01	IS 5182 (Part 12)

Represents details provided by the customer.

End of Report

Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website: www.idmagroup.co.in

Email: commercial@idmalab.co.in

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TEST REPORT

Lab No.	260324L-EI	D-034/A		Page No. 1/2			
Customer#		Jaiprakash Associates Ltd.					
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir					
Type of Sample#	<i>‡</i>	Ambient Air					
Customer's Desc	cription of Sample#	Ambient Air					
Quantity#		1 No					
Packing, Marking	gs#	Filter Paper Packed in Polythene Pouch	Was a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second a second and a second a second and a second and a second and				
Mode of Collection	on of Sample	Sampling by Laboratories					
Work Order No.#	!	JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023			
Date of Receipt of	of Sample	26/03/2024					
Period of Analysi	is	26/03/2024 To 30/04/2024					
Sampling Team		Idma Representative Team	Client	Mr Tanveer Azad			
Sampling Location	on#	Batching Plant Area					
Visual Observation	on	N/A					
Date of Sampling)	21/03/2024					
Date of Reporting		30/0 1/2024					
Sampling Protoc	ol	NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					
ACCUMENTATION OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T							

RESULTS

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

Idma Laboratories Limited anchicula

Idma Corporate Park,

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Haryana (India)

Tel No. 0172 - 5064827, - 5064830

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Email: commercial@idmalab.co.in

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Dipti Jain Asst Tech Manage

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Kartar Singh Tech. Mgr.

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TEST REPORT

Lab No. 260324L-ED-0		34/A				Page No. 2/2	
S.No.	Test Parameter		Units	Results	Specifications	Test Method	
9	Lead		µg/m³	0.12	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

Dipti Jain
Asst. Tech. Manage

End of Report

Authorised signatory

Idma Laboratories Limited

Idma Corporate Park, 391, industrial Area, Phase - 1, Panchkula - 134113,

Haryana (India)

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TEST REPORT

Lab No.	260324L-ED	D-034/B		Page No. 1/1				
Customer#		Jaiprakash Associates Ltd.						
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir						
Type of Sample#	!	Ambient Air						
Customer's Desc	ription of Sample#	Ambient Air						
Quantity#		1 No						
Packing, Marking	js#	Filter Paper Packed in Polythene Pouch						
Mode of Collection of Sample		Sampling by Laboratories						
Work Order No.#		JAI/PAKAL/2023-24/WO/35	01/04/2023					
Date of Receipt of	of Sample	26/03/2024						
Period of Analysi	s	26/03/2024 To 30/0-1/2024						
Sampling Team		Idma Representative Team	Client	Mr Tanveer Azad				
Sampling Location	n#	Batching Plant Area						
Visual Observation	on	N/A						
Date of Sampling]~	21/03/2024						
Date of Reporting	g	30/04/2024						
Sampling Protoco	ol	NAAQMS/36/2012-13 USEPA:2013						
Testing Protocol		NAAQS		NAAQS				

RESULTS

			1.5	and the same a same	
S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	co	mg/m³	0.38	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m³	2.14	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m³	<0.9	Max. 01	IS 5182 (Part 12)

Represents details provided by the customer.

Dipti Jain

End of Report

Idma Laboratories Displos

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Kartar Singh Tech. Mgr.

Panchk

TEST REPORT

Lab No.	260324L-ED	D-035/A		Page No. 1/2			
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir					
Type of Sample#		Ambient Air					
Customer's Descr	ription of Sample#	Ambient Air					
Quantity#		1 No					
Packing, Marking	s#	Filter Paper Packed in Polythene Pouch					
Mode of Collectio	n of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35	01/04/2023				
Date of Receipt o	f Sample	26/03/2024					
Period of Analysis	S	26/03/2024 To 30/03/2024					
Sampling Team		Idma Representative Team	Mr Tanveer Azad				
Sampling Location	n#	HRT Portal					
Visual Observation	n	N/A					
Date of Sampling 21/03/2024							
Date of Reporting 30/03/2024							
Sampling Protoco	ol	NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	•	~	-
1	PM 10	µg/m³	78.1	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m³	39.5	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m³	14.6	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m³	16.3	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m³	18.2	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m³	21.6	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m³	<8	Max. 20	EPA/625/R-96/010a

Idma Laboratories Limited Disclaimer :

Dipti Jain

Asst Tech Manager

Idma Corporate Park,

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Panchkula - 134113,

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TEST REPORT

Lab	No.	260324L-ED-03	35/A		Page No. 2/2		
S.No.	Test Parameter		Units	Results	Specifications	Test Method	
9	Lead		µg/m³	<0.1	Max. 1.0	EPA/625/R-96/010a	

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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TEST REPORT

Lab No.	260324L-ED	0-035/B		Page No. 1/1			
Customer#		Jaiprakash Associates Ltd.					
		Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir					
Type of Sample#	!	Ambient Air					
Customer's Desc	ription of Sample#	Ambient Air					
Quantity#		1 No					
Packing, Marking	js#	Filter Paper Packed in Polythene Pouch		the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue of the continue o			
Mode of Collection	on of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35 Date		01/04/2023			
Date of Receipt of	of Sample	26/03/2024					
Period of Analysi	s	26/03/2024 To 30/03/2024					
Sampling Team		Idma Representative Team	Client	Mr Tanveer Azad			
Sampling Locatio	n#	HRT Portal					
Visual Observation	on	N/A					
Date of Sampling)	21/03/2024					
Date of Reporting	9	30/03/2024					
Sampling Protoco	ol	NAAQMS/36/2012-13 USEPA:2013					
Testing Protocol		NAAQS					

RESULTS

			A % this	il after after time it after	
S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	co	mg/m³	0.46	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m³	<2	Max. 05	IS 5182 (Part 11)
2777 - 3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m³	<0.9	Max. 01	IS 5182 (Part 12)

Represents details provided by the customer.

End of Report



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TEST REPORT

Lab No.	260324L-EI	0-036		Page No. 1/1			
Customer#		Jaiprakash Associates Ltd.					
		Pakal Dul Hydro Electric Project (Dam Package), Dang [District-Kistwar J&K -182204 Jammu & Kashmir	Duru, Teh:	Dachhan,			
Type of Sample#		Noise Level (Ambient)					
Customer's Desc	ription of Sample#	Noise Level (Ambient)					
Quantity#		1 No					
Packing, Marking	ıs#	Instrument at Site					
Mode of Collection	on of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35 Date		01/04/2023			
Date of Receipt of	of Sample	26/03/2024					
Period of Analysi	S	26/03/2024 To 30/03/2024					
Sampling Team		Idma Representative Team	Client	Mr Tanveer Azad			
Sampling Locatio	n#	Power Intake Gate Shaft					
Visual Observation	on	N/A					
Date of Sampling		21/03/2024					
Date of Reporting 30/03/2024							
Sampling Protoco	ol	CPCB PROTOCOL:2015					
Testing Protocol		CPCB PROTOCOL July 2015					

RESULTS

			5 % Minte %		
S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	72.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	66.8	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report



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TEST REPORT

Lab No.	260324L-ED	0-037		Page No. 1/1			
Customer#	4	Jaiprakash Associates Ltd.					
		Pakal Dul Hydro Electric Project (Dam Package), Dang Du District-Kistwar J&K -182204 Jammu & Kashmir	ıru, Teh:	Dachhan,			
Type of Sample#		Noise Level (Ambient)					
Customer's Descr	ription of Sample#	Noise Level (Ambient)					
Quantity#		1 No					
Packing, Marking	s#	Instrument at Site					
Mode of Collectio	n of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Dated 0				
Date of Receipt o	f Sample	26/03/2024					
Period of Analysis	S	26/03/2024 To 30/03/2024					
Sampling Team		Idma Representative Team	Client	Mr Tanveer Azad			
Sampling Location	n#	Batching Plant (Sewerbati)					
Visual Observation	ก	N/A					
Date of Sampling		21/03/2024					
Date of Reporting	I	30/03/2024					
Sampling Protoco	ol	CPCB PROTOCOL:2015					
Testing Protocol		CPCB PROTOCOL July 2015					

RESULTS

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

Represents details provided by the customer.

End of Report

Idma Laboratories Limited anchicula

Asst. Tech. Manage

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

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Kartar Singh

Tech. Mgr

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TEST REPORT

Lab No.	260324L-E	0-038		Page No. 1/1			
Customer#	Aller and a second	Jaiprakash Associates Ltd.					
*		Pakal Dul Hydro Electric Project (Dam Package), D District-Kistwar J&K -182204 Jammu & Kashmir	ang Duru, Teh:	Dachhan,			
Type of Sample#	1	Noise Level (Ambient)					
Customer's Desc	ription of Sample#	Noise Level (Ambient)					
Quantity#		1 No					
Packing, Marking	js#	Instrument at Site					
Mode of Collection	on of Sample	Sampling by Laboratories					
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023			
Date of Receipt of	of Sample	26/03/2024					
Period of Analysi	s	26/03/2024 To 30/03/2024					
Sampling Team		Idma Representative Team	Client	Mr Tanveer Azad			
Sampling Location	n#	HRT Portal					
Visual Observation	on	N/A					
Date of Sampling)	21/03/2024					
Date of Reporting	g	30/03/2024					
Sampling Protoc	ol	CPCB PROTOCOL:2015					
Testing Protocol		CPCB PROTOCOL July 2015					

RESULTS

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

Represents details provided by the customer.

Asst. Tech. Manager

End of Report



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TEST REPORT

Lab No.	260324L-ED	0-039		Page No. 1/2		
Customer#		Jaiprakash Associates Ltd. Pakal Dul Hydro Electric Project (Dam Package), Dang Duru, Teh: Dachhan, District-Kistwar J&K -182204 Jammu & Kashmir				
Type of Sample#	<u> </u>	Surface Water				
Customer's Description of Sample#		Surface Water				
Quantity#		5 Ltr				
Packing, Markings, Seal & Quantity#		Plastic can (SW-A)				
Mode of Collection of Sample		Sampling by Laboratories				
Work Order No.#		JAI/PAKAL/2023-24/WO/35	Dated	01/04/2023		
Date of Receipt of Sample		26/03/2024				
Period of Analysis		26/03/2024 To 30/03/2024				
Sampling Team Idma		Idma Representative Team Clien		Mr Tanveer Azad		
Sampling Location#		Maru Mudan River				
Visual Observation		N/A				
Date of Sampling		21/03/2024				
Date of Reporting		30/03/2024				
Sampling Protocol		IS:17614 (PART-1):2021				
Testing Protocol						

RESULTS

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S.No.	Test Parameter	Units	Results	Test Methods				
	Chemical Testing (Water)	-	-	-				
1	pH	-	7.31	IS 3025 (Part 11)				
2	Alkalinity as CaCO3	mg/L	118	IS 3025 (Part 23)				
3	Chloride as CI	mg/L	20.9	IS 3025 (Part 32)				
4	Hardness Total (as CaCO3)	mg/L	91	IS 3025 (Part 21)				
5	Oil & Grease	mg/L	<2.5	IS 3025 (Part 39)				
6	Total Dissolved Solids	mg/L	188	IS 3025 (Part 16)				
7	Sulphate as SO4	mg/L	7.6	IS 3025 (Part 24)				
8	Iron as Fe	mg/L	0.002	IS 3025 (Part 53)				
9	Lead as Pb	mg/L	<0.0005	IS 3025 (Part 47)				

Idma Laboratories Lifeked

Dipti Jain

Asst. Tech. Manager

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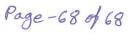
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TEST REPORT

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

Opinion:

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End of Report



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