



टीएचडीसी इंडिया लिमिटेड THDC INDIA LIMITED

(अनुसूची-'क' मिनी रत्न पीएसयू)
(Schedule - A Mini Ratna PSU)

CIN : U45203UR1988GOI009822



सं० टीएचडीसी/ऋ०/सा०एवं पर्या०/फ०-117/163(६)

दिनांक : 27.11.2025

सेवा में,

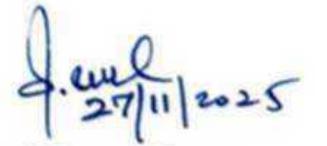
1. Deputy Director General of Forests (C)
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
उत्तर केन्द्रीय क्षेत्रीय कार्यालय,
25, सुभाष रोड, देहरादून - 248001
2. सदस्य - सचिव,
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
आई.ए. डिवीज़न (आर.वी. एवं एच.ई.पी.),
वायु विंग, कमरा सं० 303, इंदिरा पर्यावरण भवन
जोर बाग रोड, नई दिल्ली - 110 003

विषय: 23rd Six monthly progress report (April' 2025 - September' 2025) on environmental aspects of Vishnugad Pipalkoti Hydroelectric Project (444 MW) located at Distt. Chamoli, Uttarakhand - reg.

Sir,

In compliance to Point (vii) of Part B: General Conditions of Environment Clearance letter No. J-12011/29/2007-IA.I dtd. 22.08.2007 and subsequent fresh clearance on dated 26.08.2021 issued by MoEF&CC, please find enclosed herewith the Six monthly progress report on environmental aspects of Vishnugad Pipalkoti Hydroelectric Project (444 MW) located at Distt. Chamoli, Uttarakhand for your kind perusal and record please.

Regards,



(विपिन थपलियाल)

उप० महाप्रबंधक (पर्यावरण)

संलग्नक: उपरोक्तानुसार

प्रतिलिपि: सादर सूचनार्थ

1. महाप्रबंधक (सामाजिक एवं पर्यावरण), टीएचडीसीआईएल, पीपलकोटी।
2. महाप्रबंधक (सामाजिक एवं पर्यावरण), टीएचडीसीआईएल, ऋषिकेश।



प्रधान कार्यालय : गंगा भवन, प्रगतिपुरम, बाईपास रोड, ऋषिकेश - 249201
Corporate Office : GANGA BHAWAN, PRAGATIPURAM, BYPASS ROAD, RISHIKESH - 249201
पंजीकृत कार्यालय : भागीरथी भवन (टॉप टेरिस), भागीरथीपुरम, टिहरी गढ़वाल-249124
Regd. Office : Bhagirathi Bhawan, (Top Terrace), Bhagirathipuram, Tehri Garhwal-249 124
टेलीफ़ैक्स- 0135-2439463, Telefax: 0135-2439463, Website Adress : www.thdc.co.in
(“हिन्दी को राजभाषा बनाना, भाषा का प्रश्न नहीं अपितु देशाभिमान का प्रश्न है”)

SIX MONTHLY PROGRESS REPORT ON ENVIRONMENTAL ASPECTS

Period April' 2025 to September' 2025

1.	Name of the Project	VISHNUGAD PIPALKOTI HYDRO ELECTRIC PROJECT (444 MW)
2.	Type of the Project	Hydroelectric Project
3.	Clearances OM No. & Date	
	a) Environment Clearance	i) Letter No. J-12011/29/2007-IA.I, Dated 22.08.2007 ii) Corrigendum regarding Catchment Area, letter no. J-12011/29/2007-IA.I, Dated 18.01.2008 iii) Amendment regarding minimum environmental flow, letter no. J-12011/29/2007-IA-I, Dated 31.05.2011 iv) Extension of validity of Environment Clearance till 21.08.2020, letter no. J-12011/29/2007-IA.I, Dated 25.04.2018. v) Extension of validity of Environment Clearance till 21.08.2021, letter no. J-12011/10/2020-IA.I (R), Dated 02.03.2021. vi) Fresh Environment Clearance granted by MoEF&CC vide letter dtd. 26.08.2021.
	b) Forest Clearance	i) Stage-II Forest Clearance (Final) Letter No. F.No.8-65/2009-FC, Dated 28.05.2013
4.	Locations	
	a) District(s)	a) Chamoli
	b) State (s)	b) Uttarakhand
	c) Latitude (Dam Site)	c) 79°29'30" E
	d) Longitude (Dam Site)	d) 30°30'50" N
5.	Address for Correspondence	
	a) Address of concerned Project Head (with pin code and telephone / fax nos.)	a) Sh. Ajay Verma, CGM (Project), VPHEP, THDCIL, Alaknandapuram, Siyasain, Pipalkoti, Distt. Chamoli (Uttarakhand). Pin code: 246472 Tel (O): 01372-256200 Fax (O): 0137-256203
	b) Address of concerned HOD in Corporate Office (with pin code & telephone/ fax no.)	b) Sh. Harsh Kumar, GM (S&E), THDCIL, Bypass Road, Pragatipuram, Rishikesh (Uttarakhand) Pin code: 249201 Tel (O): 0135-2433454 Fax (O): 0135-2439404
6.	Details of Environmental Management Plan	Attached as Annexure – I
7.	Break - up of the Project area (land details)	Total land Acquired by Project - 141.568 Ha. (Includes Private & Forest Land)

	<p>a) Dam and Submergence area (forest & non-forest)</p> <p>b) Others</p>	<p>a) Dam and Submergence area Forest: 28.478 Ha. Non-Forest: -</p> <p>b) Others (Exclusive of above 'a') Forest: 71.912 Ha. Non-Forest: 31.639 Ha. (Private) Transferred to Project by PWD: 9.539 Ha.</p>
8.	<p>Breakup of the Project affected population with enumeration of those losing houses / dwelling units only, agricultural land only, both dwelling units and agricultural land and landless laborers / Artisans.</p> <p>a) SC /ST /Tribal's</p> <p>b) Others</p>	Attached as Annexure – II
9.	<p>Financial details</p> <p>a) Project cost as originally planned and subsequent revised estimates and the years of price reference.</p> <p>b) Actual expenditure incurred on the Project so far.</p> <p>c) Allocations made for Environmental Management Plan.</p>	<p>a) Investment approval to the project amounting to Rs. 2491.58 Cr at March, 2008 Price Level has been accorded by CCEA on 21.08.2008. Revised RCE of Rs. 3860.35 Cr (including IDC & FC) at Feb'19 PL has been vetted by CEA on 20.03.2020.</p> <p>b) The expenditure incurred on VPHEP Project till September' 2025 is Rs. 5186.66 Cr.</p> <p>c) Rs. 109.53 Crs (As per EMP of VPHEP formulated during July' 2021)</p>
10.	<p>Forest Land requirements</p> <p>a) Status of approval for diversion of forest land for non -forestry use</p> <p>b) The status of clear felling in forest land</p>	<p>a) Vide letter no. F.No.8-65/2009-FC dated 28.05.2013, stage-II Forest clearance was accorded by MoEF&CC, GoI.</p> <p>b) The details of 812 Number of Tree Felling is under: Dam - 555, Approach Road (TRT to Siyasain to Durgapur) – 200, Approach Road (Siyasain Road to Dhobi Ghat) – 07 & Dumpyard (Siyasain) - 50</p>
11	<p>Status of construction</p> <p>a) Date of commencement (actual and/planned)</p> <p>b) Date of completion (actual or planned)</p>	<p>a) 17.01.2014</p> <p>b) Planned: 16.07.2018 (54 months from date of commencement of construction work). Revised: The commissioning of the 1st unit of Project is expected in March' 2027.</p>
12.	Reason for the delay if the project is yet to be started.	NIL
13.	Details of site visit	

		<p>has visited the VPHEP Project on 07-08 Nov' 2022.</p> <p>g) Dr. Vipin Gupta, Scientist-B, MoEF&CC, Regional Office, Dehradun has visited the Project Site on 12-13 June' 2023.</p>
14.	Brief Note on the status of Compliance of the conditions stipulated by MoEFCC	A brief note on status of conditions stipulated by MOEF is enclosed as Annexure - III.

ENVIRONMENTAL MANAGEMENT PLAN

S. NO.	PLAN	ACHIEVEMENT
1	Development of Herbal Garden	<ul style="list-style-type: none"> • Based on recommendations of HRDI, Mandal, Gopeshwar, Herbal Garden has been developed in the VPHEP colony over an area of 1800 sqm. approx. Also, two nos. dedicated manpower/gardener has been deployed for the maintenance of Herbal Garden. • Approx. Rs. 23.15 lakhs have been incurred on various works related to the development of the Herbal Garden till September' 2025. • Medicinal plants like Baansh (<i>Bambusa vulgaris</i>), Meethi Tulsi (<i>Stevia Rebaudiana</i>), Ashwagandha (<i>Withania somnifera</i>), Lemon Grass (<i>Cymbogogon felxuosus</i>), Sarpgandha (<i>Rauvolfia Serpentiina</i>), Tejpaat (<i>Cinnamomum tamala</i>) Harad (<i>Terminalia chebula</i>), Ghrit kumari (<i>Aloe Barbadenisis</i>), Badi Elachi (<i>Amomum subulatum</i>), Belpatra (<i>Aegle Marmelos</i>), Aanwala (<i>Phyllanthes Emblica</i>), Reeta (<i>Sapindus mukorossi</i>) etc. planted.
2	Road Side Plantation	<ul style="list-style-type: none"> • Requisite funds have been deposited under CAMPA for implementation. • Matter is under persuasion with State Forest Deptt. for start of works.
3	Wildlife Protection (related to NDBR & KWLS)	<ul style="list-style-type: none"> • Wildlife Protection: • Two (02) nos. Watch Towers has been installed at identified locations at Powerhouse and TBM sites nearby the boundary of KWLS. • Ten nos. Camera Traps were procured on the recommendation of E&S panel. Out of which, 08 nos. Camera Traps handed over to Forest Department (Nanda Devi National Park) for installation in NDBR on 20.03.2018 and has been installed in NDBR by Forest Department at appropriate location. Balance 02 nos. of Camera Traps have been handed over to Kedarnath Forest Division on 12.06.2019. • Controlled Blasting techniques are being practiced and the same is being monitored by construction contractor through Central Institute of Mining & Fuel Research (CIMFR), Roorkee. • Awareness Programs are being organized from time to time. • A cleanliness campaign was organized at VPHEP as part of the Swachhta Hi Seva programme, which was held on October 1, 2023, at the VPHEP office complex. • The Swachhta Pakhwada was successfully organized from 16 May 2024 to 31 May 2024 at the under-construction VPHEP project of THDC India Limited, Pipalkoti. • A plantation drive along with an awareness program was organized on the occasion of World Environment Day, 5 June, 2024 in the project premises on the theme of "Land restoration, desertification and drought resilience". • THDCIL, in collaboration with Government Post Graduate College, Jyotirmath, implemented various initiatives aimed at enhancing environmental awareness and motivation among students. The outreach covered 37 schools and the PG college. Key activities included: <ul style="list-style-type: none"> – A poster competition with participation from 977 students across different classes, – An essay competition with 582 participants,

		<ul style="list-style-type: none"> – A speech competition with 586 participants, and – A general knowledge competition focused on themes such as environmental awareness, the Himalayan ecosystem, Uttarakhand’s rich heritage, flora and fauna, and biodiversity, with 135 college students participating. – Additionally, a two-day national seminar was organized on 10-11 February 2025, featuring the presentation of 80 research papers and witnessing the participation of 350 individuals on diverse themes of Bio-Diversity & its conservation, Sustainable Development & Environment Conservation. • LED display boards installed at The LED boards were installed at prominent public locations, including: at District Hospital Gopeshwar, Post Office Gopeshwar, Nagar Panchayat Pipalkoti, Nagar Panchayat Badrinath, Project Office Siyasain and SBI Batula (Mayapur) promoting awareness on wildlife and environment in May 2025. The environment promotion activity aimed to spread awareness on various environmental themes among locals and tourists through strategically placed LED display boards. The key focus areas included: <ul style="list-style-type: none"> – Environmental promotion, – Wildlife conservation, – Forest protection, – Preservation of Uttarakhand’s rich natural heritage, – Conservation of the Himalayan ecosystem, and – Protection and preservation of the Ganga River. • Environment Promotion through Nukkad Nataks aimed to spread environmental awareness among the general public and village communities through Nukkad Nataks (street plays) performed by local artists in the local language. The performances were conducted in 30 locations near the project area during May 2025 and focused on diverse themes, including: <ul style="list-style-type: none"> – Protection of Uttarakhand’s natural resources, – Conservation of forests, biodiversity, and rivers, – Sustainable use of natural resources, – Water preservation and cleanliness, and – Importance of trees. – These awareness campaigns were carried out across Chamoli and Jyotirmath, effectively engaging the community at the grassroots level. • World Environment Day, 2025 was celebrated at VPHEP on 5th June with the program of plantation of plant saplings. • VPHEP carried out the campaign of “Ek Ped Maa K Naam 2.0” during July-October 2025 aimed at the plantation of plant saplings and regular maintenance of the saplings is being done to ensure their maximum survival rates.
4	Compensatory Afforestation in	<ul style="list-style-type: none"> • Compensatory Afforestation and other works (Roadside Plantation, construction of 4 feet high pillar etc.) is being done by the State Forest Department, GoUK. Requisite funds have already been deposited by THDCIL in

	120.27 Ha	<p>CAMPA.</p> <ul style="list-style-type: none"> • Compensatory Afforestation works in 105.583 Ha area has been completed till June' 2025 out of 120.27 Ha as informed by State Forest Department vide letter dtd. 05.08.2025. • THDCIL is continuously pursuing the issue with Senior Forest Officials at Dehradun and at Divisional Level. • Issue was also discussed during the meetings of Multi-Disciplinary Committee constituted by MoEF&CC, New Delhi under the chairmanship of PCCF-HoFF, GoUK. • The Chairman - MDC, PCCF-HoFF, has directed the concerned Forest officials to take all-out efforts to for early completion of these activities.
5	Catchment Area Treatment Plan	<ul style="list-style-type: none"> • Total Implementation value for CAT is Rs. 47 Crs., the total amount of Rs. 47 Crs stands deposited by THDCIL in CAMPA fund. DFO Badrinath Forest Division is the Nodal Officer for CAT Plan. • State Forest Deptt., Uttarakhand is executing activities as per approved DPR. An expenditure of Rs. 45.24 Cr (approx.) has been made by Forest Deptt. till March' 2025 under CAT Plan of VPHEP. State Forest Deptt. vide letter dtd. 05.08.2025 informed that works related to the CAT Plan have been completed. Project has requested Forest Department for the status of physical and financial progress of CAT works of the remaining amount of Rs. 1.75 Cr through letter dtd. 10.09.2025. • Vide letter dtd. 30.12.2017, final approval has been granted to DPR along with Micro plans for CAT Plan of VPHEP by Forest Deptt., GoUK. • DFO Badrinath, Nodal Officer has been requested for providing the status on expenditure under CAT Plan of VPHEP.
6	Muck Management Plan	<ul style="list-style-type: none"> • Dumping of muck is being done at designated / identified area & well above the high flood level. Engineering measures such as construction of gabion faced reinforced earth wall with uniaxial geo-grid reinforcement are adopted at dumping site. Benches are being developed to discontinue the slopes in dumpyard. • Work of plantation of Vetivar (Chrysopogon Zizanioides) grass as slope stabilization measure at Siyasain dumping site (DY-4) has been started in September 2018. • Plantation in approx. 15,000 sqm. area has been completed at DY-4. • M/s HCC Ltd. has been instructed to ensure necessary reclamation works at all Disposal sites. • For Biological measures at Muck dumping sites, plantation of local plant species (such as Ghingar, Hinsalu, Nirgundi, Kilmoda, Kingod, etc) will also be done along with Vetiver Grass as suggested during the 1st meeting of the monitoring cell constituted by Hon'ble NGT under the chairmanship of Chief Secretary, GoUK held on 19.01.2023. • Plant saplings were planted in collaboration with State Forest Department in the Siyasain dumping area in July' 2025 for biological stabilization. • Details of muck management till September 2025, is as under <ul style="list-style-type: none"> ➤ Muck generated (Approx.) = 39.60 Lacs m3 ➤ Muck utilization (Approx.) = 14.27 Lacs m3

		<ul style="list-style-type: none"> ➤ Muck utilized for Community Development works = 2.93 Lacs m3 ➤ Muck dumped (Approx.) = 22.40 Lacs m3
7	Fish Management Plan	<ul style="list-style-type: none"> • The Consultancy Services for preparation & supporting Implementation of Fish Management Plan for VPHEP have been awarded to Directorate of Coldwater Fisheries Research (ICAR-DCFR), Bhimtal. • For framing the appropriate fish management plan, ICAR-DCFR has conducted a series of fish survey and water sampling work along River Alaknanda from Vishnupyarag to Karan Prayag. • Final Report has been received from ICAR-DCFR. ICAR-DCFR has recommended to construct Snow Trout Fish Hatchery. • Also, a one-week training on Aquatic Biodiversity in Feb' 2020, has also been conducted for the Executives of Environment Deptt. at College of Fisheries, GB Pant University of Agriculture & Technology (GBPUAT), Pantnagar by HRD, Rishikesh. • A two-day Fish Ranching and awareness program was conducted on March 23–24, 2025. The ranching is aimed to promote the conservation of indigenous fish species, particularly Schizothorax spp. (snow trout), in the Alaknanda River near the Birahi tributary in Chamoli district. The event was collectively organized by VPHEP-THDC, Pipalkoti, the ICAR-Central Institute of Coldwater Fisheries Research (Bhimtal), and the Department of Fisheries, Chamoli. A key highlight of the event was the release of 200 high-quality, disease-free snow trout brooders and 5,000 fry into the Alaknanda River near the Birahi tributary confluence. • An awareness program was conducted which emphasized on the importance of conserving and rehabilitating native fish species and need to preserve natural aquatic resources along with awareness among local communities about the importance of conserving and restoring fish populations to protect river ecosystems. • Land has been identified for construction of Fish Hatchery in association with ICAR-CICFR (Central Institute of Coldwater Fisheries Research) and State Fisheries Department, Chamoli to construct the Snow Trout mobile Fish Hatchery.
8	Green Belt Development Plan (Plantation of approx 12500 trees)	<ul style="list-style-type: none"> • Green Belt Development has been implemented under the Consultancy of noted Environmentalist Sh. Jagat Singh Chaudhary alias “Junglee” and with the help of State Forest Deptt. Broad-Leaved, Fast-Growing plant species have also been planted as suggested by “Jungli Ji” and Forest Deptt. • Till September' 2025, cumulatively 9650 nos. (approx.) plants (Jacaranda, Silver Oak, Jamun, Harad, Bahera, Tejpaat, Amaltaas, Neem, Amrood, Padam, Bamboo, Dadim etc.) are planted. Maintenance of plants is being done regularly.
9	Restoration of Quarry Site	<ul style="list-style-type: none"> • Till September' 2025, no Quarry site has been opened for excavation / mining. • All statutory clearances for Gadi Quarry have been obtained. Mining from Gadi Quarry has not yet been started. • Currently, in view of the unnecessary of the approved mining lease area of Gadi Quarry to the Project, request for surrender had been made to the District Mining Officer by the Project through its letter dated 16.12.2023 and the matter is re-requested for surrender of the Quarry vide letters dtd. 10.04.2024, 30.01.2025 and 14.07.2025.
10	Solid Waste Management	<p>VPHEP COLONY</p> <ul style="list-style-type: none"> • The Solid Waste is collected at source, stored in bins and transported through vehicle for handing over to Nagar

Panchayat, Pipalkoti for safe disposal.

- Necessary infrastructure for SWM facility constructed nearby the VPHEP colony area.
- Roadside Bins (Separate bins for Organic and Inorganic Waste) etc. have been procured and installed at appropriate locations for proper collection of waste.
- Additionally, 01 nos. mini truck has been procured through SEWA-THDC and donated to Nagar Panchayat – Pipalkoti. As per mutual agreement Nagar Panchayat – Pipalkoti is collecting the solid waste of VPHEP for safe disposal.
- Meeting was done with Executive Officer in charge of the Nagar Panchayat to ensure safe disposal of waste at Pipalkoti.
- Initiatives like replacing plastic water bottle with reusable Glass bottles in meetings have been implemented at Project.
- Ban of Single use plastic– VPHEP has been declared zero plastic zone on 05.06.2023 i.e., Environment Day.
- THDCIL conducted Environment Promotion activities in the Project nearby areas in Chamoli District for a total amount of Rs. 50 Lacs for Environment Promotion and awareness at public places, Control on single use plastic - Distribution of environmentally friendly bags such as jute bags, cloth bags and dustbins, Dissemination of video and audio messages through LED display van for environment promotion during 2024 and 2025 along with other environment promotion activities.
- THDCIL carried Environment Promotion on Control on single use plastic - Distribution of environmentally friendly bags such as jute bags, cloth bags and dustbins aiming for:
 - Promotion of Eco-Friendly Practices and Waste Management
 - Under this activity, several initiatives were undertaken to promote eco-friendly practices and reduce plastic usage in project-affected areas:
 - Distribution of eco-friendly multi-use jute and cloth bags to encourage alternatives to single-use plastic.
 - Installation of steel dustbins at public places near the project area to facilitate proper solid waste collection and maintain cleanliness.
 - A campaign was conducted within the Project Office and campus to declare and maintain the area as a single-use plastic-free zone.
- Sign Boards were installed across various location in Chamoli District on environment awareness targeting various themes like “say no to plastic”, “promoting environmentally friendly bags for shopping” during March 2025.
 - Signboards were installed along the National Highway from Gaucher to Helang in Chamoli district. These boards highlighted key environmental messages, including:
 - The importance of tree protection for environmental conservation,
 - Water preservation,
 - Ecological and ecosystem significance,
 - Cleanliness and effective waste management, and

- Sustainable use of natural resources.
 - Awareness Program were disseminated through LED display vans to spread the message on importance of control on solid waste management, environment protection and wildlife conservation. Community Sensitization Initiatives Across Chamoli District
 - The activity was carried out across various blocks of Chamoli District with the objective of enhancing environmental sensitivity among the local community, tourists, and the general public. The key focus areas included:
 - Protection and conservation of natural resources,
 - Cleanliness and water conservation,
 - Protection of rivers,
 - Understanding the importance of wild animals in maintaining ecosystem balance, and
 - Sustainable use of natural resources.
 - These efforts aimed to foster a deeper sense of responsibility and active participation in environmental preservation at the grassroots level.
 - Poster, banners, pamphlets, brochures were distributed across various blocks of Chamoli district during March 2025, delivering key messages focused on environmental promotion. These messages emphasized:
 - Adopting environmentally positive lifestyles,
 - Water conservation,
 - Practical ways to conserve the environment,
 - Promoting the use of public transport,
 - Understanding the importance of ecosystems,
 - Conservation of biodiversity and Preservation of Uttarakhand’s rich natural heritage.
 - Swachhta Pakhwada 2025 began at the VPHEP unit of THDC India Limited with the Swachhta Pledge on 16th May 2025. The fortnight-long campaign was observed from 16th May to 31st May 2025, during which various awareness programs and cleanliness-related activities was organized to instill a sense of responsibility and awareness about cleanliness among the people.
 - As part of the nationwide “Swachhta Hi Sewa Campaign–2025”, a Swachhta Pledge and Swachhta Rally were organized on the premises of VPHEP of THDC India Limited.
 - VPHEP of THDC India Limited organized a Swachhata Health Awareness Program on 22nd September 2025 for the Swachhta Karmis at VPHEP, Pipalkoti.
- M/S HCC LTD. – WORKER/LABOR CAMPS**
- Necessary provisions have been kept for Waste Collection, Handling, Segregation, Disposal process under the contractor’s EMP.

		<ul style="list-style-type: none"> • Separate bins are placed at labour camps and construction sites for biodegradable and non-biodegradable wastes. • The waste collected is handed over to Nagar Palika / Panchayat. • Wastes (Hazardous/E-waste/others) being stored in storage yard for safe disposal and handed over to authorized vendors only.
11	Road Construction	<ul style="list-style-type: none"> • During Road Construction all precautionary measures for soil erosion, slope stability, drainage to be taken care as per Indian Standards • Regular Water Sprinkling is being done for dust suppression. • Provision for water drainage along the road line is provided wherever required.
12	Sanitary Facility Labor Camp	<ul style="list-style-type: none"> • HCC has constructed the camps for its staff / workers and for PRW workers at Helang for the persons engaged at Dam site activities and also at Haat & Batula (Haat-Kauria Road) for the Power House activities. • Also, HCC has hired various private accommodations / hotels for accommodating the officers and workers at site. • The total number of staff / workers presently residing in these accommodations is 2268 (status as on September 2025) and rest of people are staying at their personal accommodation. • All the accommodations are provided with Toilets, Bathrooms and community mess. Septic cum Soak pit tank have also been constructed at camp sites for safe disposal of sewage.
13	Fuel	<ul style="list-style-type: none"> • Community kitchen for labor / worker at camps being run on LPG. • Usage of approx. 16,652 nos. commercial LPG cylinders have been reported by the contractor up to September' 2025.
14	Public Health Delivery Plan	<p>Public Health Delivery system</p> <ul style="list-style-type: none"> • VPHEP, THDCIL <ul style="list-style-type: none"> – At VPHEP Complex, a Dispensary is operational with adequate number of beds. – Medical Staff includes Doctor, Nurse, Para medical staff, Dresser etc. – Additional facilities by engaging staff on contractual basis deputed. Ambulance deployed. – The Medical Facilities are extended free of cost among Project Affected people apart from local Population as well. – A well equipped pathology lab has also been started in the dispensary to support health checkup. – Awareness program on menstrual hygiene and gender sensitization are also being conducted on regular basis covering affected villages and nearby schools. – A MoU for the construction of New Building at District Hospital Gopeshwar has been signed between THDCIL and Chief Medical Officer, Chamoli, Gopeshwar. 1st installment of 15% of total MoU value of Rs. 19.78 Lakhs has been released to CMO Chamoli on dt. 24.03.2023 and 2nd instalment of 25% of total MoU value of Rs. 32.98 Lakhs has been released to CMO Chamoli on 21.05.2024 and the executing agency submitted the physical progress report and 90% work has been executed till September' 2025. • M/s HCC <ul style="list-style-type: none"> – 01 nos. First Aid Centres operational at each at Power House, TBM and Dam site.

		<ul style="list-style-type: none"> - Para Medical Staff & facilities deployed at First Aid Centers. - Ambulance facilities available at Power House, TBM and Dam. - Necessary treatment including required vaccination is being given to labors from time to time.
15	Environmental Monitoring Plan	<p>The monitoring on Environment Parameters (Air/Water/Noise/Effluents/Indoor Air/Emissions from DG Sets/Emissions from Vehicles/Noise from Construction Machinery/Meteorology etc.) to be monitored by the construction contractor. Blasting is being done in a controlled manner and monitoring of the same is being done through the reputed organization <i>Central Institute of Mining and Fuel Research, Roorkee</i>. Various monitoring includes;</p> <p>Monitoring of Air/Water/Noise etc. by contractor: The monitoring being conducted at different time intervals. Report from M/s HCC for Ambient Air, Indoor Air, drinking water, Effluent water & Noise level monitoring conducted upto September' 2025 has been received and parameters are found within the permissible limits.</p> <p>Monitoring of Incidence of Water Related Diseases: MoU was signed with CMO, District Hospital Gopeshwar, Chamoli in 2015 for a period of 04 years. Monitoring of water related diseases was carried out and various HIV awareness programs have been organized in affected villages as per MoU through CMO, District Hospital Gopeshwar Chamoli. An MoU was signed with CMO, District Hospital Chamoli on 23.05.2020 for 03 years.</p> <p>A fresh MoU has been signed with CMO, District Chamoli, Gopeshwar on 14.07.2023 for 2 years. The final Installment of Rs 84,450 has been processed. Quarterly Monitoring reports up to July' 2025 have been received.</p> <p>Ecological Monitoring: A MoU was signed with Post Graduate College, Gopeshwar on 19.05.2020 for 03 years. Annual Report for the year 2020-21, 2021-22 and 2022-23 has been received.</p> <p>River Water Quality Monitoring: Monitoring is being conducted at regular intervals through M/s PCRI BHEL Haridwar. Monitoring report conducted during June' 2025 received and Fresh environmental monitoring proposal in under process.</p> <p>Meteorological Monitoring: Automatic Weather Station (AWS) for Recording of Temperature, Wind Speed & Direction, Humidity & Rainfall has been installed at VPHEP Colony campus, Siyasain.</p>
16	Third Party Monitoring Mechanism for Environmental Works	<p>For Third Party Monitoring, M/s WAPCOS was engaged vide agreement dtd. 10.10.2014. Final consolidated report from (2015-2018) has been received in August 2019.</p> <p>Further in continuation, a MoU has also been signed between M/s WAPCOS and THDCIL on 18.04.2019 for Third Party EMP monitoring works of VPHEP from April 2019 to March 2020. Final consolidated report was submitted by M/s</p>

		<p>WAPCOS.</p> <p>For further continuing the monitoring, the work has been awarded to M/s WAPCOS from Jan' 2021 for a period of 03 years (36 months) on 31.12.2020. On the request of M/s WAPCOS, time extension has been given from 15.01.2024 to 14.01.2025 for Third-Party for Monitoring and Evaluation of Environment Management Plan (EMP). The 6th half yearly report for the period July 2024 to December 2024 and Consolidated Monitoring Report for the period January 2022 to December 2024 is received.</p> <p>Fresh Third-Party Monitoring work for further monitoring of EMP of VPHEP for a period of 1.5 years has been awarded to M/s WAPCOS.</p>
17	Third Party Monitoring Mechanism for CAT Works	<p>The MoU has been signed with ICFRE, Dehradun on 11.12.2014. Letter issued & date of start reckoned as 10.08.2015. Half yearly Reports to be furnished at regular intervals.</p> <p>The monitoring works for additional period up to Dec' 2021 has been awarded to M/s ICFRE, Dehradun vide GM (S&E), Rishikesh letter dtd. 25.02.2020. Subsequently, the work has been further extended for a period of six months vide letter dtd. 23.06.2022.</p> <p>ICFRE 11th final report for the period of October 2021-March 2022 is received. Consolidated final report for 12th report January 2016 - June 2022 has been received.</p>
18	ISO 9001, ISO 14001 & OH&S 45001	VPHEP project is ISO 9001:2015, 14001:2015 & 45001:2018 certified unit.
19	Archaeological Management Plan	<p>As per the EMP, following actions are to be taken, i.e.</p> <ul style="list-style-type: none"> • The Laxmi Narayan Temple at Village Haat is to be preserved through ASI Dehradun. • A 10 Member Committee comprising 8 Members from Village Haat has been constituted by DM, Chamoli and 1st meeting of committee was held on 17.01.2015. • ASI Dehradun was requested vide letters dated 11.02.2016, 01.06.2016, 05.09.2016 and 26.12.2016 for visit and consultancy. • Meanwhile, the ASI team has visited the project on 21.02.2016. It was discussed with ASI team to provide the Action Plan and consent for executing the work. • Thereafter, the ASI team visited the project on 18th March 2017 for site visit and assured that the necessary proposal shall be prepared and submitted very soon. • A preliminary report has been obtained from ASI Dehradun. • A meeting under the chairmanship of District Administration in presence of representative from ASI and The World Bank has been conducted between THDCIL and the representatives from Haat village on 23.04.2019 at VPHEP for protection and beautification works of Laxmi Narayan Temple at village Haat. The preliminary report of ASI Dehradun along with further protection plan suggested by The World Bank has also been shared and discussed with the Temple Committee and others during the meeting.

		<ul style="list-style-type: none">• Drawings as per the suggestions of the World Bank have been issued by Design Department, THDCIL, Rishikesh.• Necessary action has been initiated at various levels of department. Recently, vide letter dtd. 20.09.2021, ASI Dehradun has been requested to provide the DPR for taking up the preservation work of Laxmi Narayan Temple.• Also, DM-Chamoli vide letter dtd. 27.10.2021 has also requested DG-ASI, New Delhi for directing the concerned official for taking up the work at the earliest.• ASI Officials from Dehradun Circle visited the site on 14.03.2022. Matter is being pursued with ASI officials. <p>Further, Remains of Archaeological importance also need to be preserved or conserved.</p> <ul style="list-style-type: none">• An Archaeological Chance Find Card has also been issued to the contractor to report Chance finds, if any.• No chance finds reported till date. <p>An Archaeological Museum is proposed to be opened in the project area for display of Archaeological findings, if any.</p> <ul style="list-style-type: none">• A meeting was also held with SA, ASI in his Dehradun office for taking up the work of DPR for preservation and restoration of Laxmi Narayan Temple.• Presently, in compliance to the Hon'ble Court Order, Project has stopped muck dumping within 100m radius of Temple complex.
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STATUS OF CONDITIONS ON ENVIRONMENT CLEARANCE

SL. NO.	BRIEF DESCRIPTION OF CONDITIONS	STATUS AS ON SEPTEMBER' 2025
MoEF&CC LETTER Dated: 22.08.2007		
PART - A: SPECIFIC CONDITIONS		
1.	6202-hectare degraded Catchment Area of high category to be treated. CAT as has been proposed should be completed in three years.	<p>Total Implementation value for CAT is Rs. 47 Crs., the total amount of Rs. 47 Crs stands deposited by THDCIL in CAMPA fund. DFO, Badrinath Forest Division is the Nodal Officer for CAT Plan. DPR for CAT along with micro plans has been approved during December 2017.</p> <p>State Forest Deptt., Uttarakhand is executing activities as per approved DPR. An expenditure of Rs. 45.24 Cr (approx.) has been made by Forest Deptt. till March' 2025 under CAT Plan of VPHEP. State Forest Deptt. vide letter dtd. 05.08.2025 informed that works related to the CAT Plan have been completed. Project has requested Forest Department for the status of physical and financial progress of CAT works of the remaining amount of Rs. 1.75 Cr through letter dtd. 10.09.2025.</p>
2.	346 project affected families are likely to lose their agriculture land. All the PAFs would be compensated as per the rates that would be assessed and decided by the district authorities. Over and above these compensation, the PAFs will be given "land for land" or "Vocation / job" or "financial assistance "in addition to various rehabilitation benefits as per the NRRP - 2003.	<p>Land Compensation as assessed & decided by Land Acquisition Officer is being disbursed through Special Land Acquisition Officer (SLAO) in accordance with the provisions of LA Act. About 97% PAF's have received payment from SLAO.</p> <p>Besides SLAO Payment, Project is extending various other benefits to the Project Affected Families in accordance to the R&R Policy of Project, framed based on NRRP-2007 & considering the World Bank Operational Policy.</p> <p>The Affected Families are getting cash benefits in the form of various Grants like Fuel & fodder, Widow assistance, various Community Development Works etc. Also, VPHEP-THDCIL has employed 655 Project Affected Persons directly or indirectly and through Contractor HCC.</p>

		Apart from above, Project is complying with the other Social Obligation as well.
3.	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.	Monitoring Committee has been constituted by DM, Chamoli; vide Order No. 725/26-MB (2008-09), Dt. 09.11.2009.
4.	All the equipment which are likely to generate high noise levels are to be fully mollified (Noise reduction measures) in view of the proximity of the project to Nanda Devi Biosphere Reserve.	<p>The PUC certificate for the Light, Heavy Vehicles including for hired one and other construction equipment are being undertaken as per prevailing Guidelines, Rules and acts & renewed from time to time.</p> <p>The controlled blasting is being undertaken involving non electric delay detonation technique.</p> <p>Blasting is done during day time at pre-notified time only. Blast pattern & vibration is monitored by Central Institute of Mining and Fuel Research (CIMFR), Roorkee. No blasting is done during night & no disturbance is created for wild life habitat.</p> <p>M/s PCRI-BHEL, Haridwar and M/s Arihant Analytical Laboratory Pvt. Ltd., Sonipat, Haryana recognized by MoEF&CC has been engaged to monitor the Environmental Parameters that includes Noise as well. The monitoring is being conducted at regular intervals as stipulated. The last set of monitoring was conducted through M/s PCRI-BHEL, Haridwar in June' 2025 & M/s Arihant Analytical Laboratory Pvt. Ltd., Sonipat, Haryana during September' 2025. Reports have been received and parameters are within permissible limit. Also, for Third Party Monitoring of EMP works, M/s WAPCOS (a PSU) has been engaged. Consolidated Monitoring Report for the period January 2022 to December 2024 is received. Fresh Third-Party Monitoring work for further monitoring of EMP of VPHEP for a period of 1.5 years has been awarded to M/s WAPCOS.</p>
5.	Minimum Water Flow of 15.65 Cumecs (Revised by letter dtd. 31.05.2011) should be released downstream during lean season.	MEFR shall be ensured as per latest Gazette Notification dtd. 10.10.2018 of MoWR, RD&GR, GoI.
6.	Consolidation and compilation of the muck should be carried out in the muck	Dumping of muck is being done at designated / identified area & well above the high flood level.

	<p>dump sites and the dump sites should be above high flood level.</p>	<p>Engineering measures such as construction of gabion faced reinforced earth wall with uniaxial geo-grid reinforcement are adopted at dumping site. Benches are being developed to discontinue the slopes in dumpyards.</p> <p>Biological measures such as formation of Micro-benches (kyaries), laying of top soil, plantation of vetivar grass, manuring etc. are also being undertaken at site for slope stabilization. Plantation of Vetivar (<i>Chrysopogon Zizanioides</i>) in approx. 15,000 sqm. area has been completed till September' 2025 at DY- 4.</p> <p>For Biological measures at Muck dumping sites, plantation of local plant species (such as Ghingaru, Hinsalu, Nirgundi, Kilmoda, Kingod, etc) will also be done along with Vetiver Grass as suggested during the 1st meeting of the monitoring cell constituted by Hon'ble NGT under the chairmanship of Chief Secretary, GoUK held on 19.01.2023.</p> <p>Also, a joint visit was conducted by the Regional Office, MoEF&CC under the monitoring cell constituted by Hon'ble NGT under the chairmanship of Chief Secretary, GoUK on 12.06.2023 and 13.06.2023.</p> <p>Project is taking several initiatives to stabilize the DY through biological measures. 200 plants sapling were planted in the DY-4 on 17.07.2024 and large quantity of milky grass seeds were spread and sown in dump yards and slopes for greenery and stabilization of the DY's.</p> <p>Plant saplings were planted in collaboration with State Forest Department in the Siyasain dumping area in July 2025 for biological stabilization.</p>
7.	<p>The project area is situated in close proximity to Nanda Devi Bio-Sphere Reserve, the possibility of the endemic flora cannot be ruled out completely. Hence suggested the plantation of those species which come under Rare, Endangered and Threatened (RET) category, if any, should be planted during the implementation of CAT and Compensatory Afforestation Works.</p>	<p>The implementation of CAT Plan & Compensatory Afforestation works are being undertaken by State Forest Department, Uttarakhand.</p> <p>State Forest Department is executing the plantation of appropriate species as per their approved DPR of CAT Plan of VPHEP.</p> <p>Matter was also discussed in the 4th meeting of Multi-Disciplinary Committee constituted by MoEF&CC, New Delhi under the chairmanship of PCCF-HoFF, GoUK held on 22.08.2022 at Van Bhawan, Dehradun. The Chairman - MDC, PCCF-HoFF, has directed the Nodal Officer, Forest Deptt. to take immediate necessary action and expedite the matter.</p>
8.	<p>Commitment made during public hearing should be fulfilled.</p>	<p>Commitments made during Public Hearing are being fulfilled (Annexure – IV).</p>

PART - B: GENERAL CONDITIONS		
1.	Adequate free fuel arrangement should be made for the labour force engaged in the construction works at project cost so that indiscriminate felling of trees is prevented.	Contractor is running Community mess for its employees & work force. As per contractor report, approx. 16,652 nos. Commercial LPG Cylinders have been utilized in the Community Mess up to September' 2025.
2.	Fuel depot may be opened at the site to provide the fuel (kerosene / wood / LPG). Medical facilities as well as recreational facilities should also be provided to the labors.	<ul style="list-style-type: none"> ● Community Kitchen established in Camps for Contractors Employees & Workforce. ● 01 nos. First Aid Centres operational at each at Power House, TBM and Dam site. ● Para Medical Staff & facilities deployed at First Aid Centers. ● Ambulance facilities available at Power House, TBM & Dam area. ● Necessary treatment including required vaccination is being given to labors from time to time. ● Recreational facilities have been provided at labor camps by the contractor.
3.	All the labourers to be engaged for construction works should be thoroughly examined by health personnel and adequately treated before issuing them work permit.	Pre-Employment Medical checkup is undertaken before induction and issuing Work Permit to the labours. Also, Medical examination & vaccination of workmen is done from time to time. Treatment as & when required is also administered.
4.	Restoration of construction area including dumping site of excavated materials should be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Proper re-vegetation provisions exist in EMP and will be ensured after accomplishment of Dumping activity & at appropriate time. Biological measures such as formation of Micro-benches (kyaries), laying of top soil, plantation of vetivar grass, manuring etc. are also being undertaken at site for slope stabilization. Plantation of Vetivar (Chrysopogon Zizanioides) in approx. 15,000 sqm area has been completed till September' 2025 at DY- 4. For Biological measures at Muck dumping sites, plantation of local plant species (such as Ghingarau, Hinsalu, Nirgundi, Kilmoda, Kingod, etc.) will also be done along with Vetiver Grass as suggested during the 1 st meeting of the monitoring cell constituted by Hon'ble NGT under the chairmanship of Chief Secretary, GoUK held on 19.01.2023. Project is taking several initiatives to stabilize the DY through biological measures. 200 plants

		sapling were planted in the DY-4 on 17.07.2024 and large quantity of milky grass seeds were spread and sown in dump yards and slopes for greenery and stabilization of the DY's. Plant saplings were planted in collaboration with State Forest Department in the Siyasain dumping area in July 2025 for biological stabilization.
5.	Financial provision should be made in the total budget of the project for implementation of the above suggested safeguard measures.	Budget Provisions of Rupees 109.53 Crores in EMP of July' 2021 have been earmarked towards implementation of Environment Management Plan (EMP) by Project.
6.	A Multi-Disciplinary Committee should be constituted with representatives from various disciplines of forestry, ecology, wildlife, soil conservation, NGO etc. to oversee the effective implementation of the suggested safeguard measures.	<p>District Magistrate, Chamoli, vide order dated 17.10.2014, constituted the Environment Monitoring Committee under the Chairmanship of Chief Development Officer (CDO), District Chamoli. The 1st Meeting was undertaken on 20.03.2015. The 2nd Meeting of committee was conducted on 22.02.2016.</p> <p>Based on the suggestions of the Additional Director, MoEF&CC R.O. Dehradun (Jan 2017 visit), the Multi-Disciplinary Committee has been re-constituted vide MoEF&CC letter no. J-12011/29/2007-IA-1 dated 10.10.2017.</p> <p>The 1st meeting of Multi-Disciplinary Committee under the chairmanship of PCCF-HoFF, GoUK held on 28.07.2018 at Project site.</p> <p>The 2nd meeting of Multi-Disciplinary Committee was held on 28.02.2020 under the chairmanship of PCCF-HOFF, GoUK at Van Bhawan Dehradun & 3rd meeting of Multi-Disciplinary Committee was held on 31.07.2021 under the chairmanship of PCCF-HOFF, GoUK at Van Bhawan. Dehradun.</p> <p>The 4th MDC meeting was held on 22.08.2022 under the chairmanship of PCCF-HoFF, GoUK at Van Bhawan, Dehradun.</p> <p>The 5th MDC Meeting Held on 03.08.2024 under the chairmanship of PCCF-HoFF, GOUK at Van Bhawan, Dehradun. However, Minutes of Meeting has not been issued.</p> <p>Vide letter no. J-12011/25/2009-IA-1 dated 22.05.2025, MoEF&CC, New Delhi has re-constituted the Multi-Disciplinary Committee (MDC) for VPHEP under the Chairmanship of PCCF-HoFF, GoUK.</p>
7.	Six monthly monitoring reports should be submitted to the Ministry and its	Last Six-Monthly report was submitted to concerned office vide letter dated 21.05.2025.

	Regional Office, Lucknow for review.	
OTHER CONDITIONS		
4.	Officials from Regional Office MOEF, Lucknow 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.	<p>Full Logistic supports as and when required will be ensured by Project.</p> <p>a) Dr. S.C. Katiyar, Addl. Director (S), MoEF&CC, North Central Regional Office, Dehradun visited the VPHE Project on 09.01.2017 & 10.01.2017.</p> <p>b) Dr. S. C. Garkoti, Advisor, MoEF&CC, New Delhi along with Dr. S. C. Katiyar, Addl. Director (S), MoEF&CC, North Central Regional Office, Dehradun has visited the VPHEP site on 02.08.2017 & 03.08.2017.</p> <p>c) Dr. S.C. Katiyar, Addl. Director (S), MoEF&CC, North Central Regional Office, Dehradun has visited the VPHE Project on 28.07.2018.</p> <p>d) Sh. Pankaj Agarwal, Addl. PCCF and Dr. S. C. Katiyar, Addl. Director, MoEF&CC, Regional Office, Dehradun has visited the VPHE Project on 11-12 Nov 2018.</p> <p>e) Dr. Krishnendu Mondal, Scientist – C, MoEF&CC, Regional Office, Dehradun has visited the VPHEP Project on 12-13 Oct’ 2020.</p> <p>f) Dr. Krishnendu Mondal, Dy. Director, MoEF&CC, Regional Office, Dehradun has visited the VPHEP Project on 07-08 Nov’ 2022.</p> <p>g) Dr. Vipin Gupta, Scientist-B, MoEF&CC, Regional Office, Dehradun has visited the Project Site on 12-13 June’ 2023.</p>
5.	The responsibility of implementation of environmental safeguards rests fully with the THDC Ltd. & Government of Uttarakhand.	THDCIL ensures Implementation of environmental safeguards as applicable.
6.	In case of change in the scope of the project, project would require a fresh appraisal.	There is no change in Project Scope.
EC validity Extension vide MoEF&CC Letter Dated: 25.04.2018		
1.	The project proponent (PP) should ascertain that there shall not be any wash off during the rainy season beyond the retaining wall, PP should monitor the silt flow at the downstream and upstream of the river during	<p>Retaining structure of suitable load bearing capacity has been developed at each dumping sites, so that there shall not be any wash off during rainy season.</p> <p>Terraces at dumpyards has been developed and benches are being developed to discontinue the slopes in dumpyards.</p>

	<p>monsoon season. Similarly, PP should provide adequate width having intermittent retaining bunds so that silt is collected at the retaining bunds during rainy season and silt is let out in to the river.</p>	<p>Also, to control silt wash off biological measures such as formation of Micro –benches (kyaries), laying of top soil, plantation of vetivar grass, manuring etc. are also being undertaken at site.</p> <p>Project is taking several initiatives to stabilize the DY through biological measures. 200 plants sapling were planted in the DY-4 on 17.07.2024 and large quantity of milky grass seeds were spread and sown in dump yards and slopes for greenery and stabilization of the DY’s.</p> <p>Plant saplings were planted in collaboration with State Forest Department in the Siyasain dumping area in July 2025 for biological stabilization.</p>
<p>2.</p>	<p>The PP should opine that as and when any active dumps/muck disposal sites are getting inactive, intermediate measures like both engineering and biological to be carried–out so that no silt is going into the downstream of the river.</p>	<p>Benches are being developed to discontinue the slopes in dumpyards.</p> <p>Engineering measures such as construction of gabion faced reinforced earth wall with uniaxial geo-grid reinforcement are adopted at dumping site.</p> <p>Biological measures such as formation of Micro–benches (kyaries), laying of top soil, plantation of vetivar grass, manuring etc. are also being undertaken at site for slope stabilization. Plantation of Vetivar (Chrysopogon Zizanioides) in approx. 15,000 sqm. area has been completed till September’ 2025 at DY- 4.</p> <p>For Biological measures at Muck dumping sites, plantation of local plant species (such as Ghingar, Hinsalu, Nirgundi, Kilmoda, Kingod, etc) will also be done along with Vetiver Grass as suggested during the 1st meeting of the monitoring cell constituted by Hon’ble NGT under the chairmanship of Chief Secretary, GoUK held on 19.01.2023.</p> <p>Project is taking several initiatives to stabilize the DY through biological measures. 200 plants sapling were planted in the DY-4 on 17.07.2024 and large quantity of milky grass seeds were spread and sown in dump yards and slopes for greenery and stabilization of the DY’s.</p> <p>Plant saplings were planted in collaboration with State Forest Department in the Siyasain dumping area in July 2025 for biological stabilization.</p>
<p>3.</p>	<p>The PP should ensure that in case of generation of any top soil, a site exclusively for topsoil dumping and also make commitment that collection of topsoil and prevention of the same be made so that nutrient value of the soil is retained and utilized subsequently at the time of plantation, reclamation of muck</p>	<p>Necessary provision has been made and same is being complied with. Topsoil generated from different sites, if any, is being used for biological stabilization measures at Dumping site.</p>

	dumps, etc.	
4.	There should be benching of dumps of appropriate height and stabilization of slopes so that spoils of muck etc. are not created during rainy season. In critical areas, use of geo-textile along the slopes and provision of garland drains on the toe of dumps are to be provided for better stabilization and biological measures. This has to be strictly adhered to.	Benches are being developed to discontinue the slopes in dump yards. Engineering measures such as construction of gabion faced reinforced earth wall with uniaxial geo-grid reinforcement are adopted at dumping site.
5.	All the terms and conditions of the Environmental Clearance stipulated in Letter J-12011/29/2007-IA.I dated 22.08.2007, 18.01.2008 and 30.11.2011 remains unchanged.	Details of the same are provided above.

Environment Clearance (EC) conditions of VPHEP granted by MoEF&CC vide letter dtd. 26.08.2021

Additional Terms & Conditions		
S.No.	Brief Description of conditions	Status as on September' 2025
i.	The Environmental Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP report. The budgetary provisions for implementation of EMP, shall be fully utilized and not to be diverted to any other purpose. In case of revision of the Project cost or due to price level change, the cost of EMP shall also be updated proportionately.	The Environmental Management Plan (EMP) will be strictly adhered to as submitted in the EIA/EMP report. The Budgetary provisions for implementation of EMP shall not be diverted for any other purpose and cost of EMP shall be revised proportionately in case of revision of Project Cost or due to price level change. Revised Budget Provisions of Rupees 109.53 Crores in EMP of July' 2021 have been earmarked towards implementation of Environment Management Plan (EMP) by Project.

ii.	Environment matrix provided in EMP be revised if any data change. Number and period of stocking of Fish be incorporated in EMP.	<p>Environment matrix provided in EMP shall be revised if any data change occurs.</p> <p>Fish Management Plan has been prepared through Indian Council of Agricultural Research – Directorate of Coldwater Fisheries Research (ICAR-DCFR), Bhimtal as per the recommendations of the Wildlife Institute of India, Dehradun. The stocking details have been included in the Fish Management Plan for VPHEP prepared by ICAR-DCFR, Bhimtal.</p>
iii.	Separate budget shall be allocated for Fish Hatcheries and Herbal and the same shall be implement in stipulated time period.	<p>Separate Budget is allocated for Fish Management Plan & Herbal Garden.</p> <p>Fish Management Plan has been prepared through ICAR-DCFR as per the recommendations of the Wildlife Institute of India, Dehradun. In the EMP 2007, the Budget provisions for Fisheries Management was 65 Lakhs, which has been revised to 429 Lakhs in the EMP 2021, out of which 279 Lakhs has already been incurred till now.</p> <p>A two-day Fish Ranching and awareness program was conducted on March 23–24, 2025. The ranching is aimed to promote the conservation of indigenous fish species, particularly <i>Schizothorax</i> spp. (snow trout), in the Alaknanda River near the Birahi tributary in Chamoli district. The event was a collectively organized by VPHEP-THDC, Pipalkoti, the ICAR-Central Institute of Coldwater Fisheries Research (Bhimtal), and the Department of Fisheries, Chamoli. A key highlight of the event was the release of 200 high-quality, disease-free snow trout brooders and 5,000 fry into the Alaknanda River near the Birahi tributary confluence.</p> <p>An awareness program was conducted which emphasized on the importance of conserving and rehabilitating native fish species and need to preserve natural aquatic resources along with awareness among local communities about the importance of conserving and restoring fish populations to protect river ecosystems.</p> <p>Land have been identified for construction of Fish Hatchery in association with ICAR-CICFR (Central Institute of Coldwater Fisheries Research) and State</p>

		<p>Fisheries Department, Chamoli to construct the Snow Trout mobile Fish Hatchery.</p> <p>Based on recommendations of Herbal Research and Development Institute, Mandal, Gopeshwar (a nodal agency of Uttarakhand Medicinal Plant Board), a Herbal Garden has been already developed in the project over an area of 1800 sqm. approx. Approx. Rs. 23.15 lakhs have been incurred on various works related to the development of the Herbal Garden. Medicinal plants like Harad (Terminalia Chebula), Lemon Grass (Cymbogogonfelxuosus), Sarp Gandha (RauvolfiaSerpentiina), Aloe Vera etc. planted. Also, two nos. dedicated manpower/gardener has been deployed for the maintenance of Herbal Garden.</p>
iv.	The contract clause limiting the No. of vehicles used during excavation and transportation shall followed scrupulously and the same shall informed to the ministry.	After careful assessment of requirements, optimum number of vehicles required for excavation and transportation are being deployed at site.
v.	Pasture Development Plan be revised in terms of Rate of plantation and their Cost.	<p>Pasture Development Plan has not been envisaged under the EMP.</p> <p>However, The Pasture Development plan, Social Forestry works and Fuel wood and fodder related works are being implemented as per the Catchment Area Treatment Plan prepared and implemented by Forest Department. The budget allocated for the CAT plan i.e., 4700 Lakhs has already been submitted to CAMPA Fund.</p> <p>Further, for loss of Fuel & Fodder, PAFs are being compensated with the Fuel & Fodder grant. Each entitled house hold in the affected habitation is being paid 100 days of Minimum Agriculture Wages per year for a period of 5 yrs. On the recommendations of the World Bank, THDCIL has increased disbursement of Fuel & Fodder Grants from 5 years to 8 years. The amount is paid as a grant / assistance towards the loss of fuel and fodder. Around 2600 households are getting benefited through this assistance.</p>
vi.	After 5 years of the Commissioning of the Project, a study shall be undertaken regarding impact of the Project on the Environment. The study shall be	As stipulated, study to be conducted after 5 years of commissioning of Project.

	undertaken by an independent agency.	
vii.	Geological changes or Catastrophic event within 10km region, every two-year data shall be submitted to RO, MoEF&CC. The same shall be obtained from Geological Survey of India. If any major events which can affect the Dam, Management plan shall be prepared and submit to the RO, MoEF&CC.	<p>The Report regarding Geological changes or Catastrophic event within 10 km region for the past 4 years has been obtained from Geological Survey of India on 01.08.2023.</p> <p>The Report regarding Geological changes or Catastrophic event within 10 km region for the past 2 years has been obtained from Geological Survey of India on 01.07.2025 which concludes that “The Geological Survey of India confirms that no catastrophic events or geological changes have occurred within the 10 km zone of the VPHEP in the past two years that could compromise project safety or infrastructure integrity.”</p>
viii.	Solid waste generated, especially plastic waste, etc. should not be disposed off as landfill material. It should be treated with scientific approach and recycled. Use of single-use plastics may be discouraged.	<p>Solid Waste, Hazardous/E-waste/others are being disposed-off as per prevalent rules and regulation of MoEF&CC, CPCB etc.</p> <p>The Hazardous/E-waste/Biomedical waste generated at site is handed over to authorized agency for safe disposal and recycling.</p> <p>Necessary infrastructure facility for Solid Waste Management has been constructed in the Project Colony. Solid waste generated is safely collected and handed over to Nagar Panchayat, Pipalkoti for safe disposal.</p> <p>At construction sites and labor camps, separate bins are placed for biodegradable and non-biodegradable Solid waste. The waste so collected is handed over to Nagar Panchayat (Joshimath) at Dam Site and Nagar Panchayat (Pipalkoti) at Power House Site.</p> <p>Additionally, 01 nos. mini truck has been procured through SEWA-THDC and donated to Nagar Panchayat, Pipalkoti for collection of Solid waste. Meeting was done with Executive Officer in charge of the Nagar Panchayat to discuss safe disposal of waste at Pipalkoti. Initiatives like replacing plastic water bottle with reusable Glass bottles in meetings have been implemented at Project. Ban of Single use plastic– VPHEP has been declared zero plastic zone on 05.06.2023 i.e., Environment Day.</p> <p>THDCIL conducted Environment Promotion activities in the Project nearby areas in Chamoli District for a total amount of Rs. 50 Lacs for Environment Promotion and awareness at public places, Control on single use plastic -</p>

Distribution of environmentally friendly bags such as jute bags, cloth bags and dustbins, Dissemination of video and audio messages through LED display van for environment promotion during 2024 and 2025 along with other environment promotion activities.

THDCIL carried Environment Promotion on Control on single use plastic - Distribution of environmentally friendly bags such as jute bags, cloth bags and dustbins aiming for:

- Promotion of Eco-Friendly Practices and Waste Management
- Under this activity, several initiatives were undertaken to promote eco-friendly practices and reduce plastic usage in project-affected areas:
- Distribution of eco-friendly multi-use jute and cloth bags to encourage alternatives to single-use plastic.
- Installation of steel dustbins at public places near the project area to facilitate proper solid waste collection and maintain cleanliness.
- A campaign was conducted within the Project Office and campus to declare and maintain the area as a single-use plastic-free zone.
- Sign Boards were installed across various location in Chamoli District on environment awareness targeting various themes like “say no to plastic”, “promoting environmentally friendly bags for shopping” during March 2025. Signboards were installed along the National Highway from Gaucher to Helang in Chamoli district. These boards highlighted key environmental messages, including:
 - The importance of tree protection for environmental conservation,
 - Water preservation,
 - Ecological and ecosystem significance,
 - Cleanliness and effective waste management, and
 - Sustainable use of natural resources.

Awareness Program were disseminated through LED display vans to spread the message on importance of control on solid waste management, environment protection and wildlife conservation. Community Sensitization Initiatives Across Chamoli District

- The activity was carried out across various blocks of Chamoli District with the

objective of enhancing environmental sensitivity among the local community, tourists, and the general public. The key focus areas included:

- Protection and conservation of natural resources,
 - Cleanliness and water conservation,
 - Protection of rivers,
 - Understanding the importance of wild animals in maintaining ecosystem balance, and
 - Sustainable use of natural resources.
- These efforts aimed to foster a deeper sense of responsibility and active participation in environmental preservation at the grassroots level.

Poster, banners, pamphlets, brochures were distributed across various blocks of Chamoli district during March 2025, delivering key messages focused on environmental promotion. These messages emphasized:

- Adopting environmentally positive lifestyles,
- Water conservation,
- Practical ways to conserve the environment,
- Promoting the use of public transport,
- Understanding the importance of ecosystems,
- Conservation of biodiversity and Preservation of Uttarakhand’s rich natural heritage.

Swachhta Pakhwada 2025 began at the VPHEP unit of THDC India Limited with the Swachhta Pledge on 16th May 2025. The fortnight-long campaign was observed from 16th May to 31st May 2025, during which various awareness programs and cleanliness-related activities was organized to instill a sense of responsibility and awareness about cleanliness among the people.

As part of the nationwide “Swachhta Hi Sewa Campaign–2025”, a Swachhta Pledge and Swachhta Rally were organized on the premises of VPHEP of THDC India Limited.

VPHEP of THDC India Limited organized a Swachhata Health Awareness Program on 22nd September 2025 for the Swachhta Karmis at VPHEP, Pipalkoti.

ix.	PP shall ensure the Ambient Air Quality Monitoring Stations for real time data display and regularly submit to respective RO, MoEF&CC.	Sensor based AQMS with real time data display has been successfully established at VPHEP office complex and the data is attached under Annexure A-2: Environment Monitoring Reports.
x.	Land acquired for the Project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.	<p>No new Land is being acquired for the Project.</p> <p>Land Compensation as assessed & decided by Land Acquisition Officer is being disbursed through Special Land Acquisition Officer (SLAO) in accordance to the provisions of LA Act. About 97% PAF's have received payment from SLAO.</p> <p>Besides SLAO Payment, Project is extending various other benefits to the Project Affected Families in accordance to the R&R Policy of Project, framed based on NRRP-2007 & considering the World Bank Operational Policy.</p> <p>The Affected Families are getting cash benefits in the form of various Grants.</p> <p>Apart from above, Project is complying with the other Social Obligation as well.</p>
xi.	PP shall procure construction material only from those Organizations having all valid legal/statutory clearances/permissions or necessary permission to be obtained for quarrying construction materials for the Project as per the EIA Notification, 2006 and as amended thereof.	The same is being complied as per rules and regulation stipulated in EIA Notification, 2006 and as amended thereof.
xii.	An institutional mechanism to be developed to ensure the preference of jobs to PAFs and also a policy for preferential treatment for award of sundry works to the PAFs and their dependents.	THDCIL has formulated a Rehabilitation & Resettlement policy (R&R Policy) for the Vishnugad Pipalkoti Hydro Electric Project. The Policy is based on the National Rehabilitation & Resettlement Policy 2007 (NRRP-2007) incorporating the better features considering the World Bank Guidelines. The Policy addresses the R&R issues through proactive approach and appropriate Planning on Land Acquisition. Besides disbursement of compensation by

		<p>Special Land Acquisition Officer (SLAO), the Policy envisages provisions of grants and other benefits considering the categories and the Entitlements.</p> <p>An institutional mechanism has already been identified in the R&R Policy of VPHEP as under: “Employment opportunity, if any, 100% recruitment at the level of workman (including technical & ministerial) required to be done will be done first from the land oustees & in case of non-availability of suitable candidate among the land oustees, the recruitment will be done from other residents of Uttarakhand state, whose names are registered on live register of any employment”.</p> <p>In addition, other provisions for economic/employment opportunities have been done as under:</p> <ol style="list-style-type: none"> i. Employment with contracting agencies. ii. Allotment of shops/kiosk. iii. Award of petty contracts. iv. Vehicle hiring. v. PCO/Internet kiosk. vi. Newspaper vendors. vii. Any other opportunity deemed fit by the project. <p>Till date, 20 PAP’s have been provided with permanent employment in THDCIL. In addition, around 2800 persons have been provided direct / in direct employment opportunities in main project construction company and through other modes as mentioned above.</p>
xiii.	Necessary control measures such as water sprinkling arrangements, and construction of paved roads leading to Muck disposal sites etc. shall be taken up on priority to arrest fugitive dust at all the construction sites.	Water Sprinkling is being done on regular basis to control fugitive dust emission at all the construction sites.
xiv.	Stabilization of Muck disposal sites using biological and engineering measures shall be taken up	Dumping of muck is being done at designated / identified area & well above the high flood level.

	<p>immediately to ensure that Muck does not roll down the slopes and shall be disposed safely and that it does not pollute the natural streams and water bodies in surrounding area. Report of the same to be submitted to Ministry and its Regional office.</p>	<p>Engineering measures such as construction of gabion faced reinforced earth wall with uniaxial geo-grid reinforcement are adopted at dumping site. Benches are being developed to discontinue the slopes in dumpyards. Biological measures such as formation of Micro-benches (kyaries), laying of top soil, plantation of vetivar grass, manuring etc. are also being undertaken at site for slope stabilization. Plantation of Vetivar (<i>Chrysopogon Zizanioides</i>) in approx. 15,000 sqm.area has been completed till September 2025 at DY- 4. For Biological measures at Muck dumping sites, plantation of local plant species (such as Ghingar, Hinsalu, Nirgundi, Kilmoda, Kingod, etc) will also be done along with Vetiver Grass as suggested during the 1st meeting of the monitoring cell constituted by Hon'ble NGT under the chairmanship of Chief Secretary, GoUK held on 19.01.2023. Project is taking several initiatives to stabilize the DY through biological measures. 200 plants sapling were planted in the DY-4 on 17.07.2024 and large quantity of milky grass seeds were spread and sown in dump yards and slopes for greenery and stabilization of the DY's. Plant saplings were planted in collaboration with State Forest Department in the Siyasain dumping area in July 2025 for biological stabilization.</p>
<p>xv.</p>	<p>A multi-specialty hospital to cater the need of people living within 10 km radius of the Project shall be established.</p>	<p>The matter was discussed with District Administration for establishing Multi-Speciality hospital. The District Magistrate, Chamoli has suggested to up-grade / adopt the District Hospital, Gopeshwar which will cater the need of all the people living in the Chamoli District. District Hospital is located at district headquarter in Gopeshwar Town of Chamoli District. The District Hospital is located within the 9 km radius of the project boundary.</p> <p>After various levels of discussions with District Authorities in this regard, CMO Chamoli, vide Letter dtd. 01.01.2022, has requested to take up the work of construction of a new building on the land available on the left side of the main building of the District Hospital, Gopeshwar, Chamoli. The proposed new structure envisages construction of Registration Room and User Charges Room on Ground Floor, Laboratory on 1st Floor and District Drug store on 2nd Floor.</p>

		<p>A MoU has been signed on 17.12.2022 between THDC India Ltd. and Chief Medical Officer, District Chamoli, Gopeshwar for a total amount of Rs. 155.42 Lakhs (including taxes for construction of the new building at District Hospital Gopeshwar and 1st installment of 15% of total MoU value of Rs. 19.79 Lakhs has been released to CMO Chamoli on 24.03.2023 and 2nd instalment of 25% of total MoU value of Rs. 32.98 Lakhs has been released to CMO Chamoli on 21.05.2024 and the executing agency submitted the physical progress report and 90% work has been executed till September' 2025.</p> <p>In addition, a dispensary is already operational at VPHEP comprising of proper medical staff viz. Doctor, Nurse, Para-Medical staff, Dresser, 02 nos. ambulance etc. in place. The Medical Facilities are being extended free of cost among Project Affected People including population from nearby villages as well. A well-equipped pathology lab has also been started in the dispensary to support health checkup.</p>
xvi.	Solar lights for illumination along with associated Solar panels to be provided to the families living in rural areas within 10 km radius of Project.	The VPHEP Project has already installed 240 Nos. of Solar lights to the PAFs & surrounding areas of the project under the Community Development.
xvii.	The e-flow shall continue to be released as per the previous EC granted to the Project.	MEFR shall be ensured as per latest Gazette Notification dtd. 10.10.2018 of MoWR, RD&GR, GoI.
xviii.	Computer labs with internet facility shall be established in primary schools within 10 km radius of Project.	The VPHEP Project has engaged an expert Agency M/s MRIDA Energy& Development Pvt. Ltd, New Delhi towards the work “Engagement of Specialized Agency to help Prepare Livelihood Development / Employment Generation Plan & its Implementation in relation to VPHEP” for supporting Livelihood Development / Employment Generation in the Project Affected villages. The aim of the work was to conduct Pilot Projects on the ground, showcasing successful examples of rural entrepreneurship where Project Affected Persons could generate their own livelihood and income opportunities, and become job creators as against job seekers. The Pilot ranged from low investment agricultural interventions to be carried out in large numbers, to medium investment interventions like poly houses and bee keeping which would be more visible and generate higher returns, to group /

		<p>community level interventions like Development Hubs (Computer Centre) impacting larger numbers of Project Affected Persons.</p> <p>The Development Hub will also act as computer training centers for the youth from the PAFs also, leveraging the strength of the computer literacy of the Village Level Entrepreneurs (VLEs) and these centres. Since the agreement with the M/s Mrida has been completed, THDC has launched its own livelihood initiative name “Nayi Udaan” under that one computer training centre has been established near the market area. The computer training centre is a physical space that provides access to Digital services, Online services, Banking services, E-citizen services, and skill development services all under one roof. The development initiative will enable community members to access all services in one location, saving money and time both. The computer training centre facilitates digital connectivity, fosters the development of digital skills and promotes the adoption of emerging digital technologies.</p> <p>For distribution of Computers and other necessary items, need based assessment in the nearby Govt. schools has been conducted by Project team. The core elements of the project strategy are a) promote entrepreneurship amongst individuals / groups b) ensure financial and personal commitment from intended beneficiaries c) a holistic approach to sustainable livelihoods, including market linkages d) ensure convergence with Government schemes and incentives to maximize project outlay as well as impact e) showcase successful entrepreneurs through Pilot Projects, establish pockets of excellence, and create Brand Ambassadors who will facilitate scaling up of successful interventions as well as impact. The contract was completed on 26.01.2023. Benefits under the Livelihood Development/Employment Creation Plan are regularly provided to the project affected individuals through these pilot initiatives.</p> <p>16 computers have been distributed to nearby 15 primary and upper primary schools in the District Chamoli.</p>
xix.	Sport complex with multi - sport facility shall be established. The children's from economically weaker section shall be given free of cost sport	The VPHEP Project is situated in Chamoli District which is located in Hilly Terrain of state Uttarakhand. The Hilly terrains are land constraint area where Land is not easily available for Infrastructure Development. The Project is also

	facility.	located at Land constraint terrain. After completion of Muck Dumping at Dump yard near Project Colony, an open space with Terrace will be available. The same Terrace will be developed for creating necessary Infrastructure for Multi-Sports complex and shall be opened for the Local Population. In the meantime, a Club with Volleyball Court, already developed at the Project site Colony shall remain available for the Local Population.
xx.	A time bound action plan for compliance of each of the above condition will be submitted to RO, MoEF&CC within 3 months.	A time bound action plan for compliance of each of the above condition has been submitted to MoEF&CC vide letter dtd. 26.11.2021.
xxi.	Observations raised by RO, MoEF&CC in certified compliance report shall be complied with and if not done in stipulated time/ before commencement of Project, Environmental Clearance will be withdrawn.	Currently, no observations have been raised by RO, MoEF&CC.
xxii.	The Multi-Disciplinary Committee needs to be reconstituted and the meeting needs to be held at regular interval	Based on the suggestions of the Additional Director, MoEF&CC R.O. Dehradun (Jan 2017 visit), the Multi-Disciplinary Committee has been re-constituted vide MoEF&CC letter no. J-12011/29/2007-IA-1 dated 10.10.2017. Vide letter no. J-12011/25/2009-IA-1 dated 22.05.2025, MoEF&CC, New Delhi has re-constituted the Multi-Disciplinary Committee (MDC) for VPHEP under the Chairmanship of PCCF-HoFF, GoUK.
xxiii.	PP should establish in house Project Environment laboratory for measurement of Environment parameter with respect to air quality and water (surface and ground. A dedicated team to oversee Environment management shall be setup which should comprise of Environment Engineers, Laboratory chemist and (at site) Environment laboratory staff for monitoring of air, water quality parameters on routine basis.	At present, the Environment Monitoring at Project site is being conducted on regular basis by M/s PCRI-BHEL, Haridwar and M/s Arihant Analytical Laboratory Pvt. Ltd., Sonipat, Haryana recognized by MoEF&CC. Environment Lab has been established at the Project site.
xxiv.	All the specific conditions mentioned in the EC dated 22nd August 2007 shall be complied within	The conditions laid down letter J-12011/29/2007-IA.I dated 22.08.2007 is being fully complied and status of same are provided above.

	stipulated time.	
Standard EC Conditions for River Valley and Hydro-electric projects		
I. Statutory compliance:		
i.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non- forest purpose involved in the project.	The Forest Clearance for the Project has been granted by MoEF&CC on 28.05.2013 and GO from GoUK has been issued on 06.12.2013.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable	The Wildlife Clearance form NBWL has been granted on 20.12.2012.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six- monthly compliance reports. (in case of the presence of schedule-I species in the study area)	<ul style="list-style-type: none"> ● The Wildlife Management Plan has already been incorporated under the Catchment Area Treatment (CAT) Plan of the VPHEP. The DPR of CAT Plan of VPHEP was prepared by the State Forest Department, Uttarakhand and has been approved by PCCF, Uttarakhand. Total amount of Rs. 47 Crs. for implementation of CAT Plan has been deposited by THDCIL in CAMPA Fund. ● The Compensatory Afforestation Plan & Catchment Area Treatment Plan is being implemented by State Forest Deptt., Uttarakhand. The Project does not fall under Core & Buffer Zone. ● For Wildlife Protection, various additional measures have been undertaken at the Project. The details are as follows: ● Two (02) nos. Watch Towers has been installed at identified locations in consultation with Forest Deptt. at Powerhouse and TBM sites nearby the boundary of KWLS. ● 10 (Ten) nos. Camera Traps were procured on the recommendation of E&S panel. Out of which, 08 nos. Camera Traps handed over to Forest Department (Nanda Devi National Park) for installation in NDBR on 20.03.2018 and has been installed in NDBR by Forest Department at

appropriate location. Balance 02 nos. of Camera Traps has been handed over to Forest officials on 12.06.2019.

- Controlled Blasting techniques are being practiced and the same is being monitored by construction contractor through Central Institute of Mining & Fuel Research (CIMFR), Roorkee.
- Awareness Programs are being organized from time to time.
- THDCIL, in collaboration with Government Post Graduate College, Jyotirmath, implemented various initiatives aimed at enhancing environmental awareness and motivation among students. The outreach covered 37 schools and the PG college. Key activities included:
 - A poster competition with participation from 977 students across different classes,
 - An essay competition with 582 participants,
 - A speech competition with 586 participants, and
 - A general knowledge competition focused on themes such as environmental awareness, the Himalayan ecosystem, Uttarakhand's rich heritage, flora and fauna, and biodiversity, with 135 college students participating.
 - Additionally, a two-day national seminar was organized on 10-11 February 2025, featuring the presentation of 80 research papers and witnessing the participation of 350 individuals on diverse themes of Bio-Diversity & its conservation, Sustainable Development & Environment Conservation.
- LED display boards installed at The LED boards were installed at prominent public locations, including: at District Hospital Gopeshwar, Post Office Gopeshwar, Nagar Panchayat Pipalkoti, Nagar Panchayat Badrinath, Project Office Siyasain and SBI Batula (Mayapur) promoting awareness on wildlife and environment in May 2025. The environment

promotion activity aimed to spread awareness on various environmental themes among locals and tourists through strategically placed LED display boards. The key focus areas included:

- Environmental promotion,
- Wildlife conservation,
- Forest protection,
- Preservation of Uttarakhand's rich natural heritage,
- Conservation of the Himalayan ecosystem, and
- Protection and preservation of the Ganga River.

- Environment Promotion through Nukkad Nataks aimed to spread environmental awareness among the general public and village communities through Nukkad Nataks (street plays) performed by local artists in the local language. The performances were conducted in 30 locations near the project area during May 2025 and focused on diverse themes, including:

- Protection of Uttarakhand's natural resources,
- Conservation of forests, biodiversity, and rivers,
- Sustainable use of natural resources,
- Water preservation and cleanliness, and
- Importance of trees.
- These awareness campaigns were carried out across Chamoli and Jyotirmath, effectively engaging the community at the grassroots level.

- World Environment Day, 2025 was celebrated at VPHEP on 5th June with the program of plantation of plant saplings.

- VPHEP carried out the campaign of "Ek Ped Maa K Naam 2.0" during July-October 2025 aimed at the plantation of plant saplings and regular maintenance of the saplings is being done to ensure their maximum

		<p>survival rates.</p> <ul style="list-style-type: none"> Contractor has also established residential accommodation with Community mess for its workers to avoid possibility of felling of trees and restrict movement of labour in the Forest. Approx. 16,652 nos. Commercial LPG Cylinders have been utilized in the Community Mess up to September' 2025.
iv.	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	The CTE from UKPCB has been granted from 10.04.2007.
v.	NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of CWC.	NOC from National Commission of Seismic Design parameters (NCSDP) have already been obtained vide letter No CWC/2/2/2008/FE&SA/425 dated 04.05.2008.
vi.	Necessary approval of CEA shall be obtained for those projects having the project cost more than Rs. 1,000 crores.	The approval from CEA has already been obtained vide letter dated 21.09.2006.
II. Air quality monitoring and preservation		
(i)	Regular monitoring of various environmental parameters viz., Water Quality, Ambient Air Quality and Noise levels as per the CPCB guidelines at designated locations shall be carried out on monthly basis and a detailed database of the same shall be prepared and recorded. This shall be used as a baseline data for post construction EIA/ Monitoring purposes.	M/s PCRI-BHEL, Haridwar and M/s Arihant Analytical Laboratory Pvt. Ltd., Sonipat, Haryana recognized by MoEF&CC has been engaged to monitor the Environmental Parameters that includes Noise as well. The monitoring is being conducted at regular intervals as stipulated. The last set of monitoring was conducted through M/s PCRI-BHEL, Haridwar in June' 2025 & M/s Arihant Analytical Laboratory Pvt. Ltd. during September' 2025. Reports have been received and parameters are within permissible limit. Also, for Third Party Monitoring of EMP, M/s WAPCOS (a PSU) has been engaged. The 6 th half yearly report for the period July 2024 to December 2024 and Consolidated Monitoring Report for the period January 2022 to December

		2024 is received. Fresh Third-Party Monitoring work for further monitoring of EMP of VPHEP for a period of 1.5 years has been awarded to M/s WAPCOS.
(ii)	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed standards.	The PUC certificate for the Light, Heavy Vehicles including for hired one and other construction equipment are being undertaken as per prevailing Guidelines, Rules and acts & renewed from time to time by the contractor. Water Sprinkling is being done on regular basis to control fugitive dust emission at all the construction sites. Also, ventilation has been provided in the Underground areas by the contractor.
(iii)	Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites.	Water Sprinkling is being done on regular basis to control fugitive dust emission at all the construction sites.
III. Water quality monitoring and preservation		
(i)	Conjunctive use of surface water to be planned in the project to check water logging as well as to increase crops productivity. The field drains shall be connected with natural drainage system.	Not applicable
(ii)	Remodelling of existing natural drains (link drains) and connecting them with irrigated land through constructed field drains, collector tor drains, etc. are to be ensured on priority basis.	Not applicable
(iii)	Before impounding of the water, Cofferdams for both at the upstream and downstream are to be decommissioned as per EIA/EMP report so that once the project is commissioned; cofferdam should not create any adverse impact on water environment including the rock mass and muck used for the Cofferdam.	A concrete cofferdam is constructed for diverting the water at upstream of Dam. No cofferdam has been constructed the downstream of the river. During the commissioning of the Project, the part of Cofferdam at Dam site will be decommissioned without any adverse impact on the water environment.
(iv)	As the reservoir will be acting as balancing reservoir and there would be fluctuation of water level during peaking period, efforts be made to reduce impact on aquatic life including impacts	The reservoir of VPHEP project shall be fluctuating between EL 1267 m to 1252.5 m after the commissioning of Project. Moreover, E-Flow shall be maintained vide Gazette Notification dtd.10.10.2018 of MoWR, RD&GR for reducing the impacts on the aquatic

	during spawning period both at the upstream and downstream of the project	life.
(v)	Water depth sensors shall be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharge data in the form of Excel Sheet be submitted to the Regional Office, MoEF&CC and to the CWC on weekly basis.	The reservoir of VPHEP project shall be fluctuating between EL 1267 m to 1252.5 m after the commissioning of Project. Moreover, E-Flow shall be maintained vide Gazette Notification dtd.10.10.2018 of MoWR, RD&GR for the reducing the impacts on the aquatic life. The Installation & Commissioning of EWS has been successfully completed on 30.06.2025 and currently is in operational. And also integrated with Master Control Room (MCR) of NHPC.
(vi)	Mixed irrigation shall be practiced and necessary awareness be given to all the farmers and trained in the use of such systems. Proper crops selection shall be carried out for making irrigation facility more effective.	Not applicable
(vii)	On Farm Development (OFD) works like landscaping, land levelling, drainage facilities, field irrigation channels and farm roads, etc. should be taken up in phased manner prior to the start of irrigation in the entire command area. The Command Area Development Plan should be strictly implemented as proposed in the EIA/ EMP report	Not applicable

IV. Noise monitoring and prevention

(i)	All the equipment likely to generate high noise shall be appropriately enclosed or inbuilt noise enclosures be provided so as to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.	The PUC certificate for the Light, Heavy Vehicles including for hired one and other construction equipment are being undertaken as per prevailing Guidelines, Rules and acts & renewed from time to time. The controlled blasting is being undertaken involving non electric delay detonation technique. Blasting is done during day time at pre-notified time only. Blast pattern & vibration is monitored by Central Institute of Mining and Fuel Research
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		<p>(CIMFR), Roorkee. No blasting is done during night & no disturbance is created for wild life habitat.</p> <p>M/s PCRI-BHEL, Haridwar and M/s Arihant Analytical Laboratory Pvt. Ltd., Sonipat, Haryana recognized by MoEF&CC has been engaged to monitor the Environmental Parameters that includes Noise as well. The monitoring is being conducted at regular intervals as stipulated. The last set of monitoring was conducted through M/s PCRI-BHEL, Haridwar in the month of June' 2025 & M/s Arihant Analytical Laboratory Pvt. Ltd., Sonipat, Haryana during September' 2025. Reports have been received and parameters are within permissible limit.</p> <p>Also, for Third Party Monitoring of EMP, M/s WAPCOS (a PSU) has been engaged. The 6th half yearly report for the period July 2024 to December 2024 and Consolidated Monitoring Report for the period January 2022 to December 2024 is received.</p> <p>Fresh Third-Party Monitoring work for further monitoring of EMP of VPHEP for a period of 1.5 years has been awarded to M/s WAPCOS.</p>
(ii)	<p>The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.</p>	<p>M/s PCRI-BHEL, Haridwar and M/s Arihant Analytical Laboratory Pvt. Ltd., Sonipat, Haryana recognized by MoEF&CC has been engaged to monitor the Environmental Parameters that includes Noise as well. The monitoring is being conducted at regular intervals as stipulated. The last set of monitoring was conducted through M/s PCRI-BHEL, Haridwar in the month of June' 2025 & M/s Arihant Analytical Laboratory Pvt. Ltd., Sonipat, Haryana during September' 2025. Reports have been received and parameters are within permissible limit.</p> <p>Also, for Third Party Monitoring of EMP, M/s WAPCOS (a PSU) has been engaged. The 6th half yearly report for the period July 2024 to December 2024 and Consolidated Monitoring Report for the period January 2022 to December 2024 is received.</p> <p>Fresh Third-Party Monitoring work for further monitoring of EMP of VPHEP</p>

for a period of 1.5 years has been awarded to M/s WAPCOS.

V. Catchment Area Treatment Plan

(i)	Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be implemented in synchronization with the construction of the project.	<p>Total Implementation value for CAT is Rs. 47 Crs., the total amount of Rs. 47 Crs stands deposited by THDCIL in CAMPA fund. DFO, Badrinath Forest Division is the Nodal Officer for CAT Plan. DPR for CAT along with micro plans has been approved during December 2017.</p> <p>State Forest Deptt., Uttarakhand is executing activities as per approved DPR. An expenditure of Rs. 45.24 Cr (approx.) has been made by Forest Deptt. till March' 2025 under CAT Plan of VPHEP. State Forest Deptt. vide letter dtd. 05.08.2025 informed that works related to the CAT Plan have been completed. Project has requested Forest Department for the status of physical and financial progress of CAT works of the remaining amount of Rs. 1.75 Cr through letter dtd. 10.09.2025.</p> <p>Matter was also discussed in the 4th meeting of Multi-Disciplinary Committee constituted by MoEF&CC, New Delhi under the chairmanship of PCCF-HoFF, GoUK held on 22.08.2022 at Van Bhawan, Dehradun.</p> <p>The Chairman - MDC, PCCF-HoFF, has directed the concerned Forest officials to take all-out efforts to for early completion of these activities. DFO Badrinath, Nodal Officer has been requested for earliest completion of works under CAT Plan of VPHEP.</p>
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VI. Waste management

(i)	Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites are inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.	<p>Dumping of muck is being done at designated / identified area & well above the high flood level.</p> <p>Engineering measures such as construction of gabion faced reinforced earth wall with uniaxial geo-grid reinforcement are adopted at dumping site. Benches are being developed to discontinue the slopes in dumpyards.</p> <p>Biological measures such as formation of Micro-benches (kyaries), laying of top soil, plantation of vetivar grass, manuring etc. are also being undertaken at site for slope stabilization. Plantation of Vetivar (<i>Chrysopogon Zizanioides</i>) in approx. 15,000 sqm. area has been completed till September' 2025 at DY- 4.</p> <p>For Biological measures at Muck dumping sites, plantation of local plant species (such as Ghingar, Hinsalu, Nirgundi, Kilmoda, Kingod, etc). will also</p>
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		<p>be done along with Vetiver Grass as suggested during the 1st meeting of the monitoring cell constituted by Hon'ble NGT under the chairmanship of Chief Secretary, GoUK held on 19.01.2023.</p> <p>Project is taking several initiatives to stabilize the DY through biological measures. 200 plants sapling were planted in the DY-4 on 17.07.2024 and large quantity of milky grass seeds were spread and sown in dump yards and slopes for greenery and stabilization of the DY's.</p> <p>Plant saplings were planted in collaboration with State Forest Department in the Siyasain dumping area in July' 2025 for biological stabilization.</p>
(ii)	<p>Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA/EMP reports. Efforts be made to avoid one time use of plastics.</p>	<p>Solid Waste, Hazardous/E-waste/others are being disposed-off as per prevalent rules and regulation of MoEF&CC, CPCB etc.</p> <p>The Hazardous/E-waste/Biomedical waste generated at site is handed over to authorized agency for safe disposal and recycling.</p> <p>Necessary infrastructure facility for Solid Waste Management has been constructed in the Project Colony. Solid waste generated is safely collected and handed over to Nagar Panchayat, Pipalkoti for safe disposal.</p> <p>At construction sites and labor camps, separate bins are placed for biodegradable and non-biodegradable Solid waste. The waste so collected is handed over to Nagar Panchayat (Joshimath) at Dam Site and Nagar Panchayat (Pipalkoti) at Power House Site.</p> <p>Additionally, 01 nos. mini-truck has been procured through SEWA-THDC and donated to Nagar Panchayat, Pipalkoti for collection of Solid waste.</p> <p>Meeting was done with Executive Officer in charge of the Nagar Panchayat to discuss safe disposal of waste at Pipalkoti. Initiatives like replacing plastic water bottle with reusable Glass bottles in meetings have been implemented at Project. Ban of Single use plastic – VPHEP has been declared zero plastic zone on 05.06.2023 i.e., World Environment Day.</p> <p>Swachhta Pakhwada 2025 began at the VPHEP unit of THDC India Limited with the Swachhta Pledge on 16th May 2025. The fortnight-long campaign was observed from 16th May to 31st May 2025, during which various awareness programs and cleanliness-related activities was organized to instill a sense of responsibility and awareness about cleanliness among the people.</p>

		<p>As part of the nationwide “Swachhta Hi Sewa Campaign–2025”, a Swachhta Pledge and Swachhta Rally were organized on the premises of VPHEP of THDC India Limited.</p> <p>VPHEP of THDC India Limited organized a Swachhata Health Awareness Program on 22nd September 2025 for the Swachhta Karmis at VPHEP, Pipalkoti.</p>
VII. Green Belt, EMP Cost, Fisheries and Wildlife Management		
(i)	<p>Based on the recommendation of Cumulative Impact Assessment and Carrying capacity study of river basin or as per the ToR conditions or minimum 15% of the average flow of four consecutive leanest months, whichever value is higher, shall be released as environmental flow.</p>	<p>MEFR shall be ensured after commissioning of the Project as per latest Gazette Notification dtd. 10.10.2018 of MoWR,RD&GR, GoI.</p>
(ii)	<p>Detailed information on species composition particular to fish species from previous study/literature be inventorized and proper management plan shall be prepared for in-situ conservation in the streams, tributaries of river and the main river itself for which adequate budget provision be made and followed strictly.</p>	<p>The Fish Management Plan for VPHEP has been prepared through Indian Council of Agricultural Research – Directorate of Coldwater Fisheries Research (ICAR-DCFR), Bhimtal as per the recommendations of the Wildlife Institute of India, Dehradun.</p> <p>Based on the findings of the survey/primary data, construction of Fish Hatchery has been recommended by ICAR-DCFR under the Fish Management Plan.</p> <p>In the EMP 2007, the Budget provisions for Fisheries Management was 65 Lakhs, which has been revised to 429 Lakhs in the EMP 2021, out of which 279 Lakhs has already been incurred till now.</p> <p>A two-day Fish Ranching and awareness program was conducted on March 23–24, 2025. The ranching is aimed to promote the conservation of indigenous fish species, particularly <i>Schizothorax</i> spp. (snow trout), in the Alaknanda River near the Birahi tributary in Chamoli district. The event was a collectively organized by VPHEP-THDC, Pipalkoti, the ICAR-Central Institute of Coldwater Fisheries Research (Bhimtal), and the Department of Fisheries, Chamoli. A key highlight of the event was the release of 200 high-quality, disease-free snow trout brooders and 5,000 fry into the Alaknanda River near the Birahi tributary confluence.</p>

		<p>An awareness program was conducted which emphasized on the importance of conserving and rehabilitating native fish species and need to preserve natural aquatic resources along with awareness among local communities about the importance of conserving and restoring fish populations to protect river ecosystems.</p> <p>Land has been identified for construction of Fish Hatchery in association with ICAR-CICFR (Central Institute of Coldwater Fisheries Research) and State Fisheries Department, Chamoli to construct the Snow Trout mobile Fish Hatchery.</p>
(iii)	<p>Wildlife Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department.</p>	<p>The Project does not fall under Core & Buffer zone.</p> <p>The Project has obtained Wildlife Clearance (WC) from SBWL & NBWL, as Project is falling within the 10 km aerial radius of Kedarnath Wildlife Sanctuary.</p> <p>The measures for Wildlife Protection have been included in the CAT Plan of VPHEP and the same are being implemented through the State Forest Department of Uttarakhand for which a total amount of Rs. 47 Crores has already been deposited by the Project in CAMPA Fund.</p> <p>For Wildlife Protection, various additional measures have been undertaken at the Project. The details are as follows:</p> <ul style="list-style-type: none"> ● Two (02) nos. Watch Towers has been installed at identified locations in consultation with Forest Deptt. at Powerhouse and TBM sites nearby the boundary of KWLS. ● 10 (Ten) nos. Camera Traps were procured on the recommendation of E&S panel. Out of which,08 nos. Camera Traps handed over to Forest Department (Nanda Devi National Park) for installation in NDBR on 20.03.2018 and has been installed in NDBR by Forest Department at appropriate location. Balance 02 nos. of Camera Traps has been handed over to Forest officials on 12.06.2019. ● Controlled Blasting techniques are being practiced and the same is being monitored by construction contractor through Central Institute of

		<p>Mining & Fuel Research (CIMFR), Roorkee.</p> <ul style="list-style-type: none"> ● Awareness Programs are being organized from time to time. ● Accommodation to workers have been provided in labour camps with community mess to avoid the use of forest produce and restrict labour movement inside the forest. The community kitchen at the camps is operated using commercial LPG cylinders.
(iv)	To enrich the habitat of the project site, plantation shall be raised as envisaged in the EIA/EMP report. Plantation to be developed along the periphery of the reservoir in multi-layers with local indigenous species in consultation with the local State Forest Department.	<p>Green Belt Development has been implemented under the Consultancy of noted Environmentalist Sh. Jagat Singh Chaudhary alias “Junglee” and with the help of State Forest Deptt. Broad-Leaved, Fast-Growing plant species have also been planted as suggested by “Jungli Ji” and Forest Deptt. Till September’ 2025, cumulatively 9650 nos. (approx.) trees are planted. Maintenance of plants is being done regularly.</p>
(v)	Compensatory afforestation programme shall be implemented as per the plan approved.	<p>Compensatory Afforestation and other works (Roadside Plantation, construction of 4 feet high pillar etc.) is being done by the State Forest Department, GoUK. Requisite funds have already been deposited by THDCIL in CAMPA. However, the funds yet to be released by the CAMPA to the concerned Forest Deptt.</p> <p>THDCIL is continuously pursuing the issue with Senior Forest Officials at Dehradun and at Divisional Level.</p> <p>The 48 Ha land stands diverted for CA works and Forest Dept. has informed that the plantation works have been completed.</p> <p>Till June’ 25 Compensatory Afforestation works in 105.583 Ha area has been completed out of 120.27 Ha as informed by State Forest Department vide letter dtd. 05.08.2025.</p>
(vi)	Fish ladder /pass as envisaged in the EIA/EMP report shall be provided for migration of fishes. Regular monitoring of this facility be carried out to ensure its effectiveness.	<p>The Fish Management Plan for VPHEP has been prepared through Indian Council of Agricultural Research – Directorate of Coldwater Fisheries Research (ICAR-DCFR), Bhimtal.</p> <p>Based on the findings of the survey/primary data, construction of Fish Hatchery has been recommended by ICAR-DCFR under the Fish Management Plan as Fish Ladder / pass was not found feasible.</p>

VIII. Public hearing and Human health issues

(i)	Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.	<p>Land Compensation as assessed & decided by Land Acquisition Officer is being disbursed through Special Land Acquisition Officer (SLAO) in accordance to the provisions of LA Act. About 97% PAF's have received payment from SLAO.</p> <p>Besides SLAO Payment, Project is extending various other benefits to the Project Affected Families in accordance to the R&R Policy of Project, framed based on NRRP-2007 & considering the World Bank Operational Policy.</p> <p>The Affected Families are getting cash benefits in the form of various Grants.</p> <p>Apart from above, Project is complying with the Social Obligation details are annexed at Annexure A-1.</p>
(ii)	Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.	The budget provision of Rs 1930 Lakh is already earmarked under Corporate Environment Responsibility. Social Obligation details are annexed at Annexure A-1 .
(iii)	Preventive measures viz. fuming and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools, etc. Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases	Shall be complied with.
(iv)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	<p>Contractor has established residential accommodation/camps with Toilets, bathrooms, drinking water & Community mess for its workers. Septic cum Soak pit tank have also been constructed at camp sites for safe disposal of sewage.</p> <p>First Aid centers with Para-medical staff have been established by the contractor at all work sites with Ambulance facility.</p>
(v)	Labour force to be engaged for construction works shall be examined thoroughly and adequately	Pre-Employment Medical checkup is undertaken before induction and issuing Work Permit to the labors.

	treated before issuing them work permit. Medical facilities shall be provided at the construction sites.	Also, Medical examination & vaccination of workmen is done from time to time. Treatment as & when required is also administered.
(vi)	Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.	In the U/s of VPHEP, NTPC has already installed EFWS (Early Flood Warning System) at Tapovan Vishnugad HEP. The EFWS Installation work has been completed by NTPC & is now functioning. VPHEP is being connected with NTPC Control Room Joshimath via Satellite/Mobile Phones. 3 no. Satellite Phones are working at Dam site, Power House/ Administrative Block and TRT Outfall and their respective numbers has been shared with NTPC officials for 24*7 communication for any Emergency situation. The Installation & Commissioning of EWS has been successfully completed on 30.06.2025 and currently is in operation and also integrated with Master Control Room (MCR) of NHPC.
(vii)	Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Dam Break Analysis	Crisis and Disaster Management Plan is already prepared and updated for the Project.
IX. Corporate Environment Responsibility		
(i)	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65 / 2017-IA. III dated 1st May, 2018, as applicable, regarding Corporate Environment Responsibility.	The provision of CER has been included under the EMP 2021 of VPHEP. The same shall be complied with.
(ii)	Skill mapping be undertaken for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their long-time livelihood generation.	Complied with. For details, please refer point no. xii of Additional Terms & Conditions.
(iii)	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/ deviation/ violation of	The Environment Policy of THDCIL is already under place and is also displayed at THDCIL website. Website Link of the Environment Policy is as below: https://thdc.co.in/content/environment-policy

	the environmental/ forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/ violation of the environmental/ forest/ wildlife norms/ conditions and/ or shareholders/ stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	
(iv)	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	The THDCIL has placed a separate Environment Deptt. at Head quarter / Corporate office as well as at Project site. The Deptt. is headed by a General Manager level at corporate office who reports to the Management of the organization. At Project level the Deptt. is headed by General Manger level which reports to the Head of Project. Both the Deptts. has been deployed with well qualified professionals and staff.
(v)	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six-Monthly Compliance Report.	The responsibility Matrix is already included in the EIA-EMP of the Project. The funds earmarked under EMP will not be diverted for any other purpose.
(vi)	Post EIA and SIA be prepared for the project through a third party and evaluation report be submitted to the Ministry after five years of commissioning of the project.	As stipulated, study to be conducted after 5 years of commissioning of Project.
(vii)	Multi-Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry,	Based on the suggestions of the Additional Director, MoEF&CC R.O. Dehradun (Jan 2017 visit), the Multi-Disciplinary Committee has been re-

	<p>Wildlife, Sociology, Soil Conservation, Fisheries, NGO, etc. to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of the project. The monitoring report of the Committee shall be uploaded in the website of the Company.</p>	<p>constituted vide MoEF&CC letter no. J-12011/29/2007-IA-1 dated 10.10.2017.</p> <p>The 1st meeting of Multi-Disciplinary Committee under the chairmanship of PCCF-HoFF, GoUK held on 28.07.2018 at Project site.</p> <p>The 2nd meeting of Multi-Disciplinary Committee was held on 28.02.2020 under the chairmanship of PCCF-HOFF, GoUK at Van Bhawan Dehradun & 3rd meeting of Multi-Disciplinary Committee was held on 31.07.2021 under the chairmanship of PCCF-HOFF, GoUK at Van Bhawan. Dehradun.</p> <p>The 4th MDC meeting was held on 22.08.2022 under the chairmanship of PCCF-HoFF,GoUK at Van Bhawan, Dehradun.</p> <p>The 5th MDC Meeting Held on 03.08.2024 under the chairmanship of PCCF-HoFF, GOUK at Van Bhawan, Dehradun. However, Minutes of Meeting has not been issued.</p> <p>Vide letter no. J-12011/25/2009-IA-1 dated 22.05.2025, MoEF&CC, New Delhi has re-constituted the Multi-Disciplinary Committee (MDC) for VPHEP under the Chairmanship of PCCF-HoFF, GoUK.</p>
(viii)	<p>Formation of Water User Association/ Co-operative be made involvement of the whole community be ensured for discipline use of available water for irrigation purposes</p>	<p>Not applicable</p>
X. Miscellaneous		
(i)	<p>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by 5 prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently</p>	<p>The EC has been published in two (02) local newspapers namely Amar Ujala& Hindustan on 01.09.2021. Details have been provided in the previous report.</p> <p>The EC of the Project has been uploaded on the website of THDCIL. The website link of the EC is as below: https://thdc.co.in/sites/default/files/EC_2021_0.pdf</p>

(ii)	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	The copy of EC has been distributed to DM, SDMs, DFOs and Heads of Local Bodies, Panchayats and Municipal Bodies. Details have been already provided in the earlier report.
(iii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Complied with. https://thdc.co.in/content/environment-monitoring
(iv)	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Complied with.
(v)	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	The Environment Statement for each Financial Year is being regularly submitted to UKPCB. Last Environment Statement (Form-V) for FY 2023-24 has been submitted to UKPCB vide letter dtd. 24.09.2024 and same is uploaded on company's website https://thdc.co.in/content/environment-monitoring
(vi)	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project. vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government. viii. The project proponent shall abide by all the commitments and	The Project is under active construction stage and is complying with all the stipulations / commitments / recommendations of the UKPCB, EIA-EMP as well as Public Hearing. Before commissioning of the Project, Ministry will be well informed including its RO.

	recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	
(vii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC)	No expansion / modifications of the Project is planned.
(viii)	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted and shall be complied with.
(ix)	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Noted.
(x)	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Additional Conditions, if any, stipulated by the Ministry in the future shall be complied with.
(xi)	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data/ information/ monitoring reports.	Full cooperation and logistic support, as and when required, will be ensured by Project.
(xii)	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment(Protection) Act, 1986, Hazardous and Other Wastes (Management and	Noted and complied with.

	Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	
(xiii)	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010	Appeal No. 21/2021 filed by Dr. Bharat Jhunjunwala before NGT on dated 08.10.2021. Vide Order dtd. 16.08.2022, the Hon'ble Court has disposed-off the appeal and upheld the grant of EC of VPHEP and laid some additional conditions.

ANNEXURE - IV

COMMITMENTS OF PROJECT DURING PUBLIC HEARING ON 09.01.2007

S. No	ISSUES RAISED	STATUS AS ON SEPTEMBER' 2025
1	Negative impact on Environment due to Project's Activities shall not take place and provisions shall be made as per the standards and approval from competent level shall be obtained.	As per Environmental studies undertaken, no significant impacts have been noticed. However, EMP envisages precautionary measures to prevent occurrence of negative impacts and action is being taken accordingly.
2	Geological structures around the project area shall not be affected, In this regard, permission from concerned department shall be taken after Detailed investigations and implementation of recommendations shall be ensured.	<ul style="list-style-type: none"> ● Work is being undertaken only in areas where approval has been accorded by concerned authorities/agencies. ● No Incidence or deviation was noticed during the Reporting period ● Work in project area is done with due precautions such as mechanical excavation, controlled blasting, vibration monitoring etc.
3	Minimum water flow shall be ensured in river Alaknanda in such a way that the aquatic fauna is not adversely affected and also there is no impact on water quality.	MEFR shall be ensured as per the latest Gazette Notification dtd. 10.10.2018 of MoWR, RD&GR, GoI.
4	There shall be no negative impact on the Area's Forest resources, Flora, Fauna, and life style of the people, due to the Project's activities. In this regard, proper appropriate measures shall be taken and permission from concerned department shall be taken.	<ul style="list-style-type: none"> ● Environment Management measures are properly taken care off. Entry of the workforce is restricted in forest area. ● The contractor is running Community mess for workforce. ● Labors camps have been constructed at different locations and in isolation from local villagers. Meanwhile hired accommodation and community mess is being provided by contractor. ● Nevertheless, awareness programmes are being conducted to safeguard flora and fauna.
5	During all stages of Project, Local people shall be given job opportunities on priority basis.	<p>Based on the requirement, direct & indirect job opportunities are being extended among local people on a priority basis at THDCIL & Contractors Level.</p> <p>Employment opportunities includes:</p> <ul style="list-style-type: none"> ● Direct/Indirect job opportunities in THDCIL &

		<p>with Contractor</p> <ul style="list-style-type: none"> ● Award of petty Contracts ● Hiring of Vehicles ● Livelihood Activities <p>Details are indicated at Annexure-A1 under Employment.</p>
6	<p>Arrangements as per standards/policy shall be ensured for Project Affected Persons and Complete compensation of the acquired land shall be released to the concerned in time.</p>	<p>Land Compensation as assessed & decided by the Land Acquisition Officer is being disbursed through the Special Land Acquisition Officer (SLAO) in accordance with the provisions of the LA Act. About 97% PAFs have received payment from SLAO.</p> <p>Besides SLAO Payment, the Project is extending various other benefits to the Project Affected Families in accordance with the R&R Policy of Project, framed based on NRRP-2007 & considering the World Bank Operational Policy.</p> <p>The Affected Families are getting cash benefits in the form of various Grants. like Fuel & fodder, Widow assistance, etc. Also, VPHEP-THDCIL has employed 655 Project Affected Persons directly or indirectly and through Contractor HCC.</p> <p>Apart from the above, the Project is complying with the Social Obligation & the details are as per Annexure-A1.</p>
7	<p>The explosives in construction-related activities shall be used only in avoidable situations in minimum required quantity.</p>	<ul style="list-style-type: none"> ● The explosive is used in avoidable situations only & in minimum quantity. ● The controlled blasting is being undertaken involving non-non-electric delay detonation technique ● Blasting is done during the daytime only and at pre-notified time. Blast pattern & vibration is monitored by the Central Institute of Mining and Fuel Research (CIMFR), Roorkee.
8	<p>Various facilities developed for the project shall be available for the people of the area and community development works shall be carried out in nearby villages.</p>	<p>Various facilities, awareness programs etc. under Community Development have been made available for the Project Affected Villages including surrounding villages that comprise of;</p> <p>Construction of Pathways, waiting shelters, Community buildings, Road widening, Hill side slope protection works, Solar Street lights for villages, furniture & sports kits for community, water supply schemes, Teaching aids & furniture to schools, Construction of additional</p>

		classrooms & toilets, promotion of sports & cultural activities, awareness camps on social & environmental aspects, health camps & awareness camps on HIV AIDS, Pulse Polio etc. New awareness drive regarding Menstrual Hygiene and gender sensitization named “Saheli” is initiated by THDCIL during 2022-23. This drive covered all 27 project affected villages along with 7 schools. As of now more than 1500 women and girls benefitted through our awareness drive. Saheli has achieved the set target and will continue to benefit the girls and women of the project-affected villages and schools through awareness drives in the future. Camp organized for creating awareness in women for Breast cancer at Daswana.
9	A Comprehensive Disaster Management Plan shall be prepared for the project and the recommendations of the Plan shall be complied.	A Comprehensive Disaster Management Plan has been prepared.
10	THDC shall ensure the development of Affected villages Forest Rehabilitation, as per directions of Uttarakhand Government and with the help of Local People.	<ul style="list-style-type: none"> ● The development activities like construction of pathway, minor water supply schemes etc. under affected villages are being executed through involvement of local people. ● A provision of involving local population also exists under CAT plan.
11	Labors and their families, working in the construction works of the Project shall be properly vaccinated.	Medical examination of workforce is done prior to induction and properly vaccinated whenever needed. Medical camps are also organized for labors.
12	The proper development of religious places and Shamshan Ghats nearby the riverbank shall be ensured.	The aspect has been covered under Community Development activities at Point No. 8 above.
13	The treatment of sewage generated by the Labors engaged in construction works of the Project shall be ensured by means of Septic Tank and soak pits.	At each camp site; One Community latrine per 20 persons was provided. Each camp is equipped with septic cum soak pits. The effluent is being disposed-off in septic cum soak tanks.
14	To provide all necessary	Project has established a Public Information Center

	<p>Project related information to local people, a Public Information Centre shall be established and completed information shall be provided to the people.</p>	<p>(PIC) at the VPHEP campus. Necessary information related to Technical, Social & Environmental aspects are displayed and are available in PIC.</p>
<p>15</p>	<p>Complete details related to the project shall be published through Press and the views /opinions of the people shall properly solve.</p>	<p>Project-related information is being published in the local newspapers from time to time.</p> <p>Grievance Redressal Mechanism resolves the issues of affected population in accordance with R&R Policy of VPHEP. Also, such grievances are being resolved in the presence of local administration.</p> <p>VPHEP-THDCIL is maintaining Consultancy matrix to address any issues arise from Project affected villages.</p>

SOCIAL RESPONSIBILITIES:

CONSTRUCTION OF COMMON PROPERTY RESOURCES:

In addition to the compensation / Grants provided by SLAO/ THDCIL, common property resources like Pathways, drinking water facility, Street Light, Primary School, Panchayat Ghar, Anganwari Kendra, etc. has been constructed at self-resettlement sites.

LOSS OF FUEL & FODDER:

Each entitled household in the affected habitation is being paid 100 days of Minimum Agriculture Wages per year for a period of 5 years. On the recommendations of the World Bank, THDCIL has increased the disbursement of Fuel and fodder Grants from 5 years to 8 years. The amount is paid as a grant/assistance towards the loss of fuel and fodder. Around 2596 households are getting benefited through this assistance.

COMMUNITY DEVELOPMENT WORKS:

Under Community development scheme various works have been taken up in the Project affected villages i.e.; construction of Pathways, Waiting for shelters, Community buildings, Road widening, Hill side slope protection works, Solar street lights for villages, furniture & sports kits for the community, water supply schemes, Teaching aids & furniture to schools, Construction of additional classrooms & toilets, promotion of sports & cultural activities, awareness camps on social & environmental aspects, health camps & awareness camps on HIV AIDS, Pulse Polio etc.

LIVELIHOOD ACTIVITIES:

Various activities have also been taken up to create livelihood opportunities for the PAF's i.e Dairy Development, Poultry, Tailoring, Stitching, Wool Knitting, Bee Keeping, Mushroom cultivation, vermi composting to promote organic farming, plantation, etc. Awareness programs for Project affected people are also organized with the help of various State Govt. Deptts i.e. Horticulture, Agriculture, Tourism, Animal Husbandry, etc., give awareness on various schemes, subsidies, technical assistance, etc., to convince local youth to opt for self-employed income generation activities. Around 500 beneficiaries are benefited from these programs.

On the recommendations of the World Bank, the work towards "Engagement of Specialized Agency to help Prepare Livelihood Development / Employment Generation; its Implementation in relation to VPHEP" was awarded to M/s MRIDA Renergy & Development Pvt. Ltd, New Delhi commenced on 03.01.2020. The agency has completed the Draft Baseline survey/final baseline survey submitted the draft strategy report by 31.03.2021. The final strategy report for Phase -1 (7 villages) was submitted on 03/09/2021. The contract was completed on 23.01.2023.

As of now a total of 65 nos. Polyhouses have been installed by M/s Mrida, Udyan Vibhag, Utrakhand, and 58 PAFs have received Bee-Boxes (2 each) out of which 36 bee-keeping units are operating successfully. A total of 12 farmers have benefited from Farm Machinery Bank interventions in Guniyala. For the revival of existing pilot projects THDC has hired two Assistant Consultants from the Project Affected Community only.

VOCATIONAL TRAINING:

Apart from the above, Vocational Training in hotel management, Excavator Operator, Electrician, Fitter, Refrigerating Air Conditioning, and other skill enhancement activities, etc. are also undertaken, in coordination with various institutes like GMR Foundation, Dr. Reddy Foundation, and Industrial Training Institutes in nearby areas. Around 300 beneficiaries have been benefited through these programs. One computer training centers have been started by THDC, at pipalkoti 40 students have enrolled for this training. THDCIL has setup two knitting Training Centres at village Eldana and Daswana and Stitching centre at village Naurakh. There are 35 female and 20 female are getting benefited through Knitting and Stitching training centre.

EDUCATION:

To promote Education the Project has undertaken various activities i.e.; Scholarship to project-affected Meritorious/Poor/ Girls students, Construction of additional classrooms & toilets, providing teaching aids & uniforms, assistance for getting admission in ITIs, assistance to schools for cultural activities etc. Around 1411 students having approx. 800 girls have been benefited through scholarship program of THDCIL till the Academic year 2018-19. The above assistance has been kept on hold as the schools were closed due to the COVID-19 pandemic.

HEALTH:

The project is helping PAPs by facilitating them to THDCILs Dispensaries established in the Project Campus. OPD / IPD facility including medicines is given free of cost to PAPs. In addition to this Medical health camps are organized in project-affected villages and an Ambulance facility is also provided to the needy PAPs free of cost. The Health camps have been immensely beneficial for the local population & nearby areas that include people from project-affected villages of Project. Approx. 62000 beneficiaries having 37200 people from the community have been administered treatment in the dispensary. A new well-equipped pathology lab is established on 01.07.2022 in the dispensary. Five health camps has also been organized in the villages around the vicinity and more than 200 people got benefitted through it.

VPHEP-THDCIL launched an awareness drive "Saheli". This drive covered all 27 affected villages including Schools in and around the project with the aim to spread awareness about menstrual health and taboos and inform about their rights. VPHEP-THDCIL is also distributing hygiene kits, including sanitary pads, dusting powder, and intimate hygiene wash through this awareness drive. As of now more than 1400 women and girls have benefitted through our awareness drive. Saheli has achieved the set target and will continue to benefit the girls and women of the project-affected villages and schools through awareness drives in the future. Camp organized for creating awareness in women for Breast cancer at daswana. Social department organized one awareness camp at Gadora high School For girls on Health, Hygeine and Nutrition.

One mini-truck TATA ACE 1.8 cum has been handed over to Nagar Panchayat, Pipalkoti, District Chamoli on the 9th June, 2020 through SEWA, THDCIL, Rishikesh under Corporate Social Responsibility (CSR). The vehicle is used for transportation of Garbage to Disposal sites under their control. The Garbage generated at THDCIL, Project Complex, VPHEP is also being addressed by Nagar Panchayat, Pipalkoti.

EMPLOYMENT:

Keeping in view that the Hydro Projects are capital intensive with the State of Art Technology and therefore do not offer many employment opportunities, particularly in the unskilled category, the option of providing a job with THDCIL as per policy is not considered as a rehabilitation option. However, as of date approx. 2800 persons have been provided direct/indirect employment opportunities in Project HCC / THDCIL/ Contractors/ Hiring of vehicles/Lease land for various purposes etc.

M/S HINDUSTAN CONSTRUCTION CO. LTD
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO Mayapur (Pipal Koti)
Distt. Chamoli, Uttarakhand-246472

H C C

Environmental Monitoring
(JULY TO SEPTEMBER-2025)

: Submitted By:
ARIHANT ANALYTICAL LABORATORY PVT. LTD.
Plot No.272, Phase-IV, Sector-57, HSIIDC,
Kundli, Sonipat – 131 028, Haryana
Email: aalkundli@gmail.com

Certificate

This is to certify that Environmental monitoring work carried out by M/s Arihant Analytical Laboratory Pvt. Ltd. for M/s Hindustan Construction Co. Ltd. (July to September 2025) in reference to Work Order No.16066669.

The Environmental Monitoring Report is meant for internal use of your organization and to submit concern government department for official use only.

Date: 7-10-2025

For Arihant Analytical Laboratory Pvt. Ltd.


(Authorized Signatory)

LIST OF CONTENT

1. EXECUTIVE SUMMARY
2. AMBIENT AIR QUALITY MONIORING
3. STACK EMISSION (DG SETS & BOILER)
4. INDOOR AIR QUALITY MONIORING
5. AIR EMISSION STONE CRUSHER MONITORING
6. NOISE LEVEL MONITAIRNG
7. WASTE WATER SAMPLES
8. DRINKING WATER SAMPLES

EXECUTIVE

SUMMARY

EXECUTIVE SUMMARY REPORTS FOR ENVIRONMENTAL MONITORING

(JULY TO SEPTEMBER 2025)

DISCUSSION OF RESULTS & CONCLUSION

1.0 Ambient Air Quality Monitoring

Ambient Air Quality was monitored at Four Locations for one month for parameters Respirable Suspended Particulate Matter (PM₁₀), Fine Particulate Matter (PM_{2.5}), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), and Found within the CPCB limits.

- Near HRT/TBM Portal
- TRT Road/Colony at Siyasin
- Power House at Haat/Harsari
- Near Crusher Area (Dam Site)
- Dam Site (Near Office)

2.0 Stack Emission (DG & Boiler):

Stack Emission was monitored for DG Sets & Boiler Stack. All the results were found with the prescribe limits as per CPCB Guidelines.

- DG No.1 (2000 KVA)
- DG No.2 (2000 KVA)
- DG No.3 (2000 KVA)
- DG No.4 (2000 KVA)
- DG No.5 (1010 KVA)
- Boiler Stack (850 kg/hr.)

3.0 Indoor Air Quality Monitoring

Indoor air quality was monitoring parameters Suspended Particulate Matter (SPM), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), Carbon Dioxide (CO₂), Carbon Monoxide (CO), Silica Contents (SiO₂), Formaldehyde (HCHO), Methane (CH₄) and Found within the limits at 6 Locations.

- Inside MAT Tunnel
- Inside TRT Adit Tunnel
- Inside Ventilation Tunnel
- Inside Adit to HRT Tunnel
- Inside DT Tunnel
- Inside to Desilting Chamber (DC-03) Tunnel

4.0 Air Emission Stone Crusher Monitoring

Crusher Monitoring was done according to CPCB Standard and all the parameters were within the limits.

- Air Emission (Stone Crusher) – Power House

5.0 Noise Monitoring:

Noise Level was monitored according to CPCB standards parameters Leq and found within the limits at 21 Locations:

- DG No.1 - 2000 KVA
- DG No.2 - 2000 KVA
- DG No.3 - 2000 KVA
- DG No.4 - 2000 KVA
- DG No.5 - 1010 KVA
- Near Siyasin Colony
- Near Haat/Harsari Village
- Near Batula Village
- Near Workshop
- Near HRT & DC Tunnel
- Near Crusher Area
- Near Batching Plant
- Near Boiler Section
- Near Main Office (Haat Village)
- Near Main Office (Dam Site)
- Near Camp Helong
- Near Main Office (Power House)
- Near Haul Road
- Inside TRT Tunnel
- Inside MAT Tunnel
- Inside Ventilation Tunnel

6.0 Waste Water (ETP Outlet):

Effluent water Quality was analysed and all parameters were found under to limits as per CPCB. Location as mentioned below.

- Batching Plant Power House
- Batching Plant Near Casting Yard
- Sedimentation Tank-Power House
- Sedimentation Tank- Crusher Plant
- WTP Plant-Inlet
- WTP Plant-Outlet
- DP Mess Outlet Power House
- Batching Plant Dam Site
- DP Mess Outlet Dam Site
- Sedimentation Tank-Dam Site

7.0 Drinking Water:

Drinking water Quality was analysed and parameters were found as per IS 10500:2012 Drinking water specification. Drinking water was monitored at following 6 locations:

- DP Mess Power House
- Office Pantry Power House
- Mess Power House
- PRWA Camp (Batula-2)
- Dam Site Mess (B-2)
- Near Office Dam Site

ENVIRONMENTAL MONITORING PHOTOGRAPHY
PTE
The Lincoln Corporation
10000 1st Avenue, Suite 100
Denver, CO 80231
Tel: 303-733-1000



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ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand



AMBIENT AIR



AMBIENT AIR

CONDUCTED BY
ARIHANT ANALYTICAL LABORATORY PVT. LTD.
PLOT NO.272, PHASE-IV, SECTOR-57, HSIIDC,
KUNDLI, SONIPAT, HARYANA
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TEST REPORT

Page 1 of 1

Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Ambient Air Quality Monitoring
(24 Hrs. for the Quarter of July to September 2025)

Sampling Location: Dam Site (Near Office)

Sampling Coordinates: Latitude:30.519208 Longitude: 79.496025

Report No. AAL ENV-2025J001001

Date of Reporting: 06/10/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters → Unit → Date of Sampling ↓	Particulate Matter PM ₁₀ (µg /m ³)	Particulate Matter PM _{2.5} (µg /m ³)	Sulphur Dioxide SO ₂ (µg /m ³)	Nitrogen Dioxide NO ₂ (µg /m ³)
1	05/09/2025	56.5	25.6	8.3	17.4
2	08/09/2025	50.8	27.9	12.5	23.8
3	12/09/2025	53.2	30.2	14.2	28.7
4	15/09/2025	55.4	26.8	10.5	21.9
5	19/09/2025	60.1	27.5	13.7	27.2
6	22/09/2025	62.9	30.2	15.4	29.5
7	26/09/2025	52.6	24.3	9.2	19.1
8	29/09/2025	58.2	28.7	11.6	22.4
	Minimum	50.8	24.3	8.3	17.4
	Maximum	62.9	30.2	15.4	29.5
	Average	56.2	27.7	11.9	23.8
	Standards Limit (As per NAAQ) Protocol/Method	100 Max. IS-5182(P-23) 2006	60 Max. IS-5182(P-24)-2019	80 Max. IS 5182(P-2/Sec-1)-2023	80 Max. IS-5182(P-6) 2006

****End of Report****

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Ambient Air Quality Monitoring
(24 Hrs. for the Quarter of July to September 2025)

Sampling Location: Near Crusher Area (Dam Site)

Sampling Coordinates: Latitude: 30.509208 Longitude: 79.486025

Report No. AAL ENV-20251001002

Date of Reporting: 06/10/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters → Unit → Date of Sampling ↓	Particulate Matter PM ₁₀ (µg/m ³)	Particulate Matter PM _{2.5} (µg/m ³)	Sulphur Dioxide SO ₂ (µg/m ³)	Nitrogen Dioxide NO ₂ (µg/m ³)
1	05/09/2025	50.2	26.4	9.6	18.9
2	08/09/2025	54.6	28.3	12.8	24.5
3	12/09/2025	59.2	31.8	15.3	30.2
4	15/09/2025	61.5	27.4	13.4	27.4
5	19/09/2025	55.1	25.3	11.6	22.8
6	22/09/2025	57.9	24.8	9.5	19.2
7	26/09/2025	60.2	32.4	10.8	21.5
8	29/09/2025	62.9	30.5	13.5	26.7
	Minimum	50.2	24.8	9.5	18.9
	Maximum	62.9	32.4	15.3	30.2
	Average	57.7	28.4	12.1	23.9
	Standards Limit (As per NAAQ) Protocol/Method	100 Max. IS-5182(P-23) 2006	60 Max. IS-5182(P-24)-2019	80 Max. IS 5182(P-2/Sec-1)-2023	80 Max. IS-5182(P-6) 2006

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Ambient Air Quality Monitoring
(24 Hrs. for the Quarter of July to September 2025)

Sampling Location: Power House at Haat/Harsari

Sampling Coordinates: Latitude 30.420855 Longitude: 79.413403

Report No. AAL/ENV-20251001003

Date of Reporting: 06/10/2025

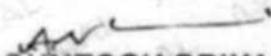
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters → Unit→ Date of Sampling↓	Particulate Matter PM ₁₀ (µg/m ³)	Particulate Matter PM _{2.5} (µg/m ³)	Sulphur Dioxide SO ₂ (µg/m ³)	Nitrogen Dioxide NO ₂ (µg/m ³)
1	02/09/2025	60.1	30.6	10.5	21.9
2	06/09/2025	62.5	31.4	12.7	25.3
3	09/09/2025	58.2	29.1	14.3	28.6
4	13/09/2025	55.6	28.9	8.2	17.5
5	16/09/2025	52.4	26.1	11.5	23.1
6	20/09/2025	50.9	25.3	16.8	33.2
7	23/09/2025	57.8	27.8	15.2	31.6
8	27/09/2025	51.5	24.6	13.7	24.5
	Minimum	50.9	24.6	8.2	17.5
	Maximum	62.5	31.4	16.8	33.2
	Average	56.1	28.0	12.9	25.7
	Standards Limit (As per NAAQ) Protocol/Method	100 Max. IS-5182(P-23) 2006	60 Max. IS-5182(P-24)-2019	80 Max. IS 5182(P-2/Sec-1)-2023	80 Max. IS-5182(P-6) 2006

****End of Report****


ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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Page 1 of 1

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Ambient Air Quality Monitoring
(24 Hrs. for the Quarter of July to September 2025)

Sampling Location: TRT Road/Colony at Siyasin

Sampling Coordinates: Latitude: 30.415672 Longitude: 79.408993

Report No. AAL ENV-20251001004

Date of Reporting: 06/10/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters → Unit → Date of Sampling ↓	Particulate Matter PM ₁₀ (µg/m ³)	Particulate Matter PM _{2.5} (µg/m ³)	Sulphur Dioxide SO ₂ (µg/m ³)	Nitrogen Dioxide NO ₂ (µg/m ³)
1	02/09/2025	64.2	33.5	15.4	28.1
2	06/09/2025	58.6	27.2	13.2	26.4
3	09/09/2025	55.3	23.4	12.3	25.3
4	13/09/2025	59.5	28.9	9.3	18.7
5	16/09/2025	54.5	27.1	11.2	23.2
6	20/09/2025	66.9	31.5	16.5	32.8
7	23/09/2025	55.8	26.2	12.7	24.3
8	27/09/2025	57.6	28.9	14.3	28.1
	Minimum	54.5	23.4	9.3	18.7
	Maximum	66.9	33.5	16.5	32.8
	Average	59.1	28.3	13.1	25.9
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ASHUTOSH SRIVASTAVA
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Ambient Air Quality Monitoring
(24 Hrs. for the Quarter of July to September 2025)

Sampling Location: Near HRT/TBM Portal

Sampling Coordinates: Latitude: 30.426203 Longitude: 79.419950

Report No. AAL ENV-20251001005

Date of Reporting: 06/10/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters → Unit → Date of Sampling ↓	Particulate Matter PM ₁₀ (µg/m ³)	Particulate Matter PM _{2.5} (µg/m ³)	Sulphur Dioxide SO ₂ (µg/m ³)	Nitrogen Dioxide NO ₂ (µg/m ³)
1	03/09/2025	52.8	27.9	11.5	22.7
2	07/09/2025	51.2	29.4	14.3	26.5
3	10/09/2025	49.5	28.9	12.9	25.1
4	14/09/2025	53.6	27.4	16.8	32.3
5	17/09/2025	50.2	25.2	10.2	20.2
6	21/09/2025	48.5	26.5	8.7	16.8
7	24/09/2025	46.9	24.3	14.8	28.6
8	28/09/2025	51.3	25.8	15.3	30.1
	Minimum	46.9	24.3	8.7	16.8
	Maximum	53.6	29.4	16.8	32.3
	Average	50.5	26.9	13.1	25.3
	Standards Limit (As per NAAQ) Protocol/Method	100 Max. IS-5182(P-23) 2006	60 Max. IS-5182(P-24)-2019	80 Max. IS 5182(P-2/Sec-1)-2023	80 Max. IS-5182(P-6) 2006

End of Report

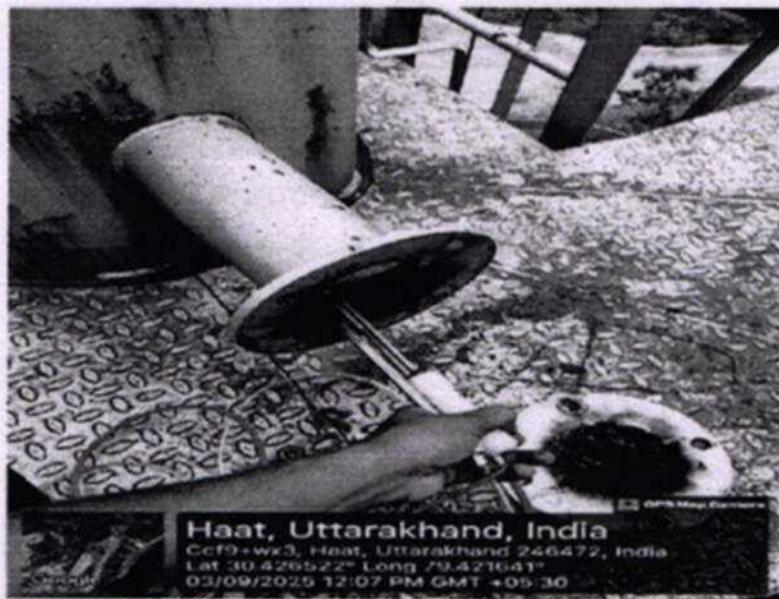
ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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**STACK
EMISSION
MONITORING**

ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand



STACK EMISSION



STACK EMISSION

CONDUCTED BY
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PLOT NO.272, PHASE-IV, SECTOR-57, HSIIDC,
KUNDLI, SONIPAT, HARYANA
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TEST REPORT

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Issued To: M/s Hindustan Construction Co. Ltd.
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Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250906002

Date of Reporting: 11/09/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Sampling Coordinates: Latitude: 30.425484 Longitude: 79.419013
Capacity : 2000 KVA - D G No.1
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

Observations
Ambient Temperature (°C) : 35
Stack Temperature (°C) : 329
Velocity (m/s) : 14.94
Quantity of emission (Nm³/hr.) : 1832.66

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	50.8	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	188.2	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15% O ₂	mg/Nm ³	55.6	150	IS 13270- 1992
4	Non-Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	31.3	100	AAL/SOP/ENV/032-2022

CPCB=Central Pollution Control Board

****End of Report****

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250906003

Date of Reporting: 11/09/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Sampling Coordinates: Latitude: 30.425484 Longitude: 79.419013
Capacity : 2000 KVA - D G No.2
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

Observations

Ambient Temperature (°C) : 35
Stack Temperature (°C) : 340
Velocity (m/s) : 14.80
Quantity of emission (Nm³/hr.) : 1849.64

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	41.6	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	199.2	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15% O ₂	mg/Nm ³	48.9	150	IS 13270- 1992
4	Non-Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	29.4	100	AAL/SOP/ENV/032-2022

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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250906004

Date of Reporting: 11/09/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Sampling Coordinates : Latitude: 30.425484 Longitude: 79.419013
Capacity : 2000 KVA - D G No.3
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

Observations
Ambient Temperature (°C) : 36
Stack Temperature (°C) : 324
Velocity (m/s) : 14.25
Quantity of emission (Nm³/hr.) : 1761.97

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1.	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	53.6	75	IS 11255(P-1)-1985
2.	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	214.1	710	IS 11255(P-7)-2005
3.	Carbon Monoxide (as CO) At 15% O ₂	mg/Nm ³	57.8	150	IS 13270- 1992
4.	Non-Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	31.3	100	AAL/SOPENV/032-2022

CPCB (Central Pollution Control Board)

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Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250906005

Date of Reporting: 11/09/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Sampling Coordinates: Latitude: 30.425484 Longitude: 79.419013
Capacity : 2000 KVA - D G No.4
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

Observations

Ambient Temperature (°C) : 36
Stack Temperature (°C) : 333
Velocity (m/s) : 14.68
Quantity of emission (Nm³/hr.) : 1788.14

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	46.5	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	184.2	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15% O ₂	mg/Nm ³	63.5	150	IS 13270- 1992
4	Non-Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	41.2	100	AAL/SOP/ENV/032-2022

CPCB-Central Pollution Control Board

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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250906006

Date of Reporting: 11/09/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Sampling Coordinates: Latitude: 30.425484 Longitude: 79.419013
Capacity : 1010 KVA - D G No.5
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

Observations

Ambient Temperature (°C) : 35
Stack Temperature (°C) : 310
Velocity (m/s) : 14.55
Quantity of emission (Nm³/hr.) : 1842.78

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	51.3	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	196.2	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15% O ₂	mg/Nm ³	59.8	150	IS 13270- 1992
4	Non-Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	36.1	100	AAL/SOP/ENV/032-2022

CPCB-Central Pollution Control Board

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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250906012

Date of Reporting: 11/09/2025

Sample Description: Boiler Stack Emission

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : Boiler Section
 Stack Identification : Stack attached to Boiler
 Source of Emission : Boiler Stack
 Sampling Coordinates: Latitude: 30.426522 Longitude: 79.421641
 Capacity : 800 Kg/Ltr.
 Type of Stack : Metal
 Diameter of Stack : 0.5m
 Height of Stack from Ground Level : 30m
 Height from Roof Level : -
 Height at Which Sampling Port : 10m
 Product Manufacturing : Construction Works
 Type of Fuel Used : HSD
 Normal Operating Schedule : As per requirement
 Duration of Monitoring : 45 min.
 Emission Control (if any) : -
Observations
 Ambient Temperature (°C) : 36
 Stack Temperature (°C) : 140
 Average Stack Velocity (m/s) : 9.62
 Quantity of emission (Nm³/sec.) : 4777.29

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM)	mg/Nm ³	56.7	500	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	mg/Nm ³	31.2	600	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	mg/Nm ³	103.8	300	IS 11255(P-7)-2005
4	Carbon Monoxide (as CO)	%v/v	BLQ _{0.100-0.2}	1.0	IS 13270-1992

ND=Not Specified, BLQ=Below Limit of Quantification, L.O.Q= Limit of Quantification

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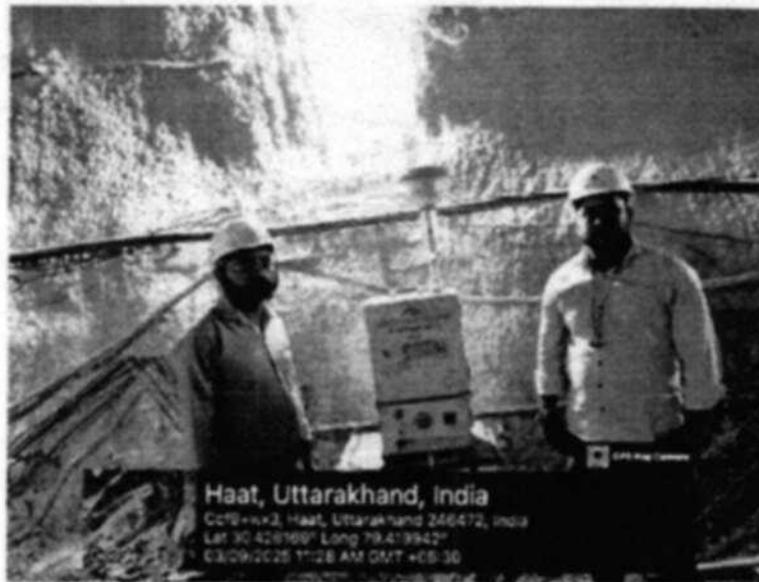
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Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250906013

Date of Reporting: 11/09/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 05/09/2025

Sampling Done By: AAL

TEST RESULTS

Sampling Details:

Sampling Location : Inside Desilting Chamber (DC-03) Tunnel
Sampling Coordinates : Latitude:30.509241 Longitude: 79.484278
Actual Time of Sampling (Hrs.) : 08:00
Average flow Rate for particulate matter (LPM) : 1.0
Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.849	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.016	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.034	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.28	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	1165	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	11.2	(50 MAX.-As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 MAX.-As per OSHA)	By GC

NIOSH: National Institute for Occupational Safety and Health
ND: Not Detected, N/A: Not Applicable

End of Report

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Technical Manager
Authorised Signatory

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Report No. AAL ENV-20250906014

Date of Reporting: 11/09/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULTS

Sampling Details:

Sampling Location : Inside MAT Tunnel
Sampling Coordinates : Latitude: 30.416519 Longitude: 79.409385
Actual Time of Sampling (Hrs.) : 08:00
Average flow Rate for particulate matter (LPM) : 1.0
Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.773	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.021	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.036	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.41	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	1024	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	11.2	(50 MAX.-As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 MAX.-As per OSHA)	By GC

NIOSH- National Institute for Occupational Safety and Health
ND=Not Detected, N/A=Not Specified

****End of Report****

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Report No. AAL ENV-20250906015

Date of Reporting: 11/09/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULTS

Sampling Details:

Sampling Location : Inside TRT Adit Tunnel
Sampling Coordinates : Latitude 30.425923 Longitude 79.417823
Actual Time of Sampling (Hrs.) : 08:00
Average flow Rate for particulate matter (LPM) : 1.0
Total Volume of air sampled for particulate matter (L) : 4800

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.892	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.014	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.028	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.26	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	1124	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	10.5	(50 MAX. -As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 MAX. -As per OSHA)	By GC

NIOSH - National Institute for Occupational Safety and Health
NIOSH Chemical Methods Specialist

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Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 04/09/2025

Report No. AAL ENV-20250906016

Date of Reporting: 11/09/2025

Sampling Done By: AAL.

TEST RESULTS

Sampling Details:

Sampling Location : Inside Ventilation Tunnel

Sampling Coordinates : Latitude:30.416522 Longitude: 79.409417

Actual Time of Sampling (Hrs.) : 08:00

Average flow Rate for particulate matter (LPM) : 1.0

Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.931	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.021	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.042	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.34	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	1214	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	12.3	(50 MAX.-As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 MAX.-As per OSHA)	By GC

NIOSH® National Institute for Occupational Safety and Health
ND=Not Detected, NS=Not Specified

****End of Report****

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250906017

Date of Reporting: 11/09/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 05/09/2025

Sampling Done By: AAL

TEST RESULTS

Sampling Details:

Sampling Location: Inside DT Tunnel
Sampling Coordinates: Latitude: 30.509230 Longitude: 79.484289
Actual Time of Sampling (Hrs.): 08:00
Average flow Rate for particulate matter (LPM): 1.0
Total Volume of air sampled for particulate matter (L): 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.697	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.016	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.034	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.30	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	984	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	11.7	(50 MAX. -As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 MAX. -As per OSHA)	By GC

NIOSH - National Institute for Occupational Safety and Health
OSHA - Occupational Safety and Health Administration

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Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250906018

Date of Reporting: 11/09/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 04/09/2025

Sampling Done By: AAL

TEST RESULTS

Sampling Details:

Sampling Location : Inside Adit to HRT Tunnel
Sampling Coordinates: Latitude: 30.426169 Longitude: 79.419942
Actual Time of Sampling (Hrs.) : 08.00
Average flow Rate for particulate matter (LPM) : 1.0
Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act-1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.572	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.018	5	IS-5182 (P-2/Soc-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.037	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.49	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	915	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	9.7	(50 MAX. -As per OSHA)	By Air APIA
8	Methane	mg/m ³	ND	(736 MAX. -As per OSHA)	By GC

NIOSH - National Institute for Occupational Safety and Health
MSHA - Mine Safety and Health Administration

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AIR EMISSION

STONE CRUSHER

MONITORING

(POWER HOUSE)



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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Air Emission (Stone Crusher)

Date of Monitoring: 04/09/2025

Report No. AAL ENV-20250906001

Date of Reporting: 11/09/2025

Sampling Done By: AAL

TEST RESULT

Sampling Details:

Sampling Location: Power House

Sampling Coordinates: Latitude: 30.418902 Longitude: 79.414649

Type of Sample: Air Emission (Stone Crusher- Inward & Outward)

Average flow Rate for particulate matter (m³/minute):

	Inward	Outward
	1.15	1.17

Total Volume of air sampled for particulate matter (m³):

	Inward	Outward
	69.0	70.2

Sampling Duration, Minutes: 60

Wind Direction: NNE (31°C) NE (55°C)

S. No.	Test Parameter	Unit	Results			Standard Limits	Test Methods
			Inward	Outward	Final Result		
1	Suspended Particulate Matter (SPM)	µg/m ³	956.2	1478.4	522.2	600	IS-5182(P-4) 1999

****End of Report****

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Technical Manager
Authorised Signatory

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NOISE

LEVEL

MONITORING

ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli – 242 472, Uttarakhand



AMBIENT NOISE



AMBIENT NOISE

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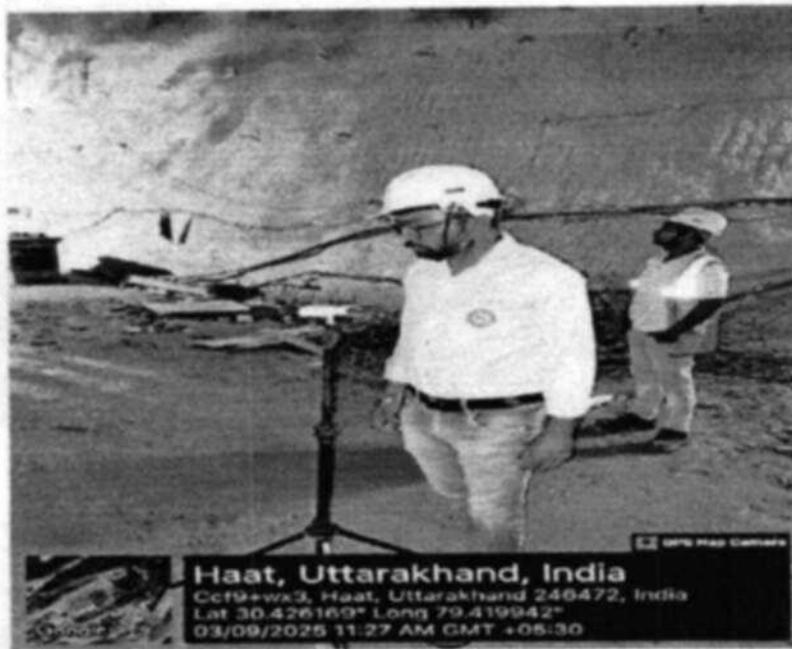


ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

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Dist. Chamoli – 242 472, Uttarakhand



WORKZONE NOISE



WORKZONE NOISE

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 02/09/2025

Sampling Coordinates: Latitude: 30.425662

Longitude: 79.418923

Report No. AAL ENV-20250906022

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Siyasin Colony	40.1	48.9	47.5
	Standards Limit (As per CPCB for Residential Area)			55 Max.

****End of Report****


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Technical Manager
Authorised Signatory

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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 02/09/2025

Sampling Coordinates: Latitude:30.415667 Longitude: 79.418987

Report No. AAL ENV-20250906023

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Haat/Harsari Village	44.5	53.6	50.2
	Standards Limit (As per CPCB for Residential Area)			55 Max.

****End of Report****



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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 02/09/2025

Sampling Coordinates: Latitude:30.420055 Longitude: 79.51512

Report No. AAL ENV-20250906024

Date of Reporting: 11/09/2025

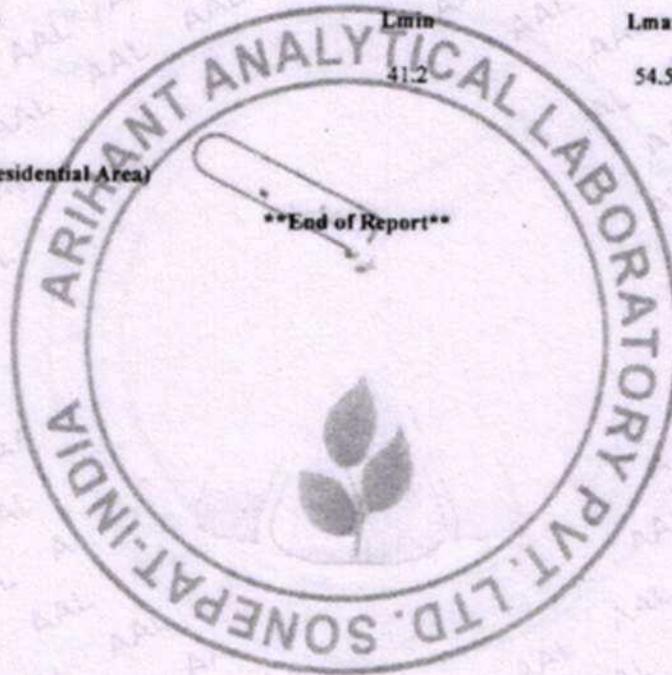
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Batula Village	41.2	54.5	46.3
	Standards Limit (As per CPCB for Residential Area)			55 Max.

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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 02/09/2025

Sampling Coordinates: Latitude: 30.427955 Longitude: 79.416551

Report No. AAL ENV-20250906025

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		L _{min}	L _{max}	Leq
1	Sampling Location↓ Near Work Shop	51.9	74.3	67.8
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

End of Report



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Sample Description:	Noise Level Monitoring – Ambient Noise	Date of Reporting:	11/09/2025
Date of Sampling:	03/09/2025	Sampling Duration:	24 Hrs.
Sampling Coordinates:	Latitude: 30.502039 Longitude: 79.486253	Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near HRT & D C Tunnel	56.8	66.5	64.6
	Standards Limit (As per CPCB for Industrial Area)			75 Max.



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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 04/09/2025

Sampling Coordinates: Latitude 30.4260 Longitude: 79.4176

Report No. AAL ENV-20250906027

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
	Sampling Location↓	Lmin	Lmax	Leq
1	Near Crusher Area	59.3	63.5	62.8
	Standards Limit (As per CPCB for Industrial Area)			75 Max.



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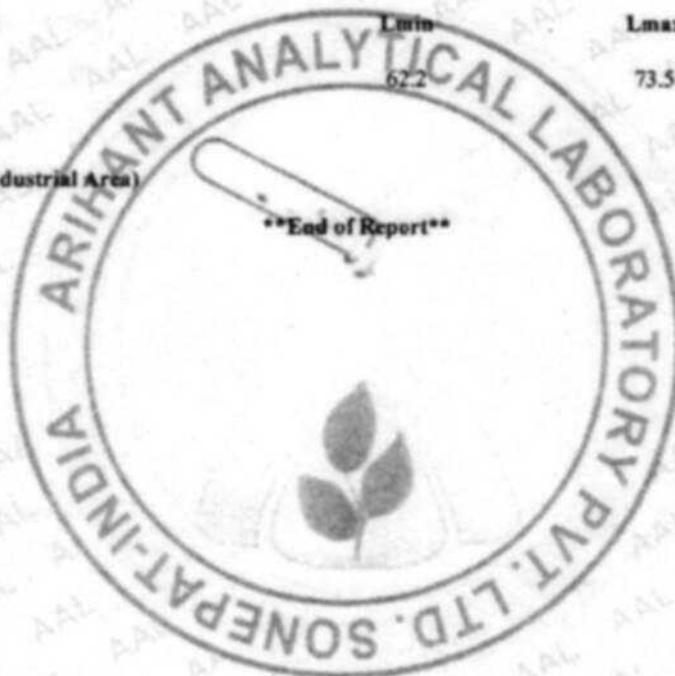
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Sample Description:	Noise Level Monitoring - Ambient Noise	Date of Reporting:	11/09/2025
Date of Sampling:	04/09/2025	Sampling Duration:	24 Hrs.
Sampling Coordinates:	Latitude: 30.421056 Longitude: 79.418261	Sampling Done By:	AALE

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Batching Plant	62.2	73.5	69.8
	Standards Limit (As per CPCB for Industrial Area)			75 Max.



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TEST REPORT

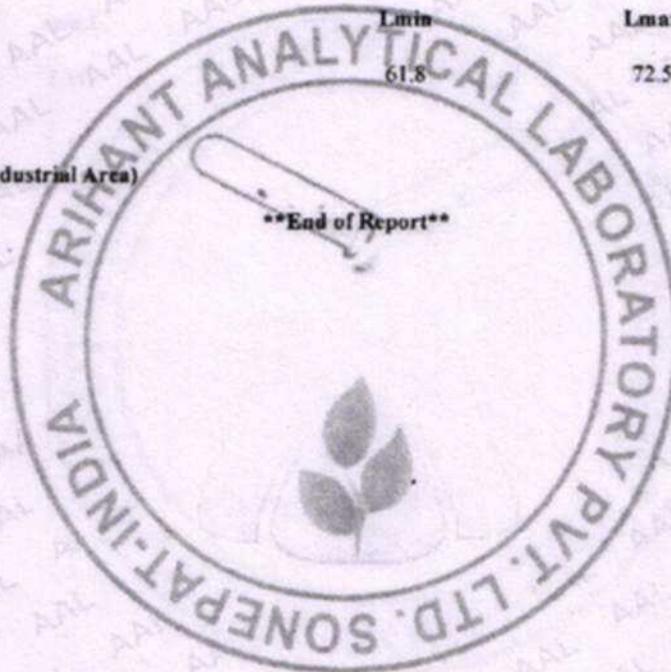
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Sample Description:	Noise Level Monitoring - Ambient Noise	Date of Reporting:	11/09/2025
Date of Sampling:	04/09/2025	Sampling Duration:	24 Hrs.
Sampling Coordinates:	Latitude: 30.426717 Longitude: 79.421678	Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Boiler Section	61.8	72.5	67.3
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****



ASHUTOSH SRIVASTAVA
Technical Manager
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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 04/09/2025

Sampling Coordinates: Latitude:30.415182 Longitude: 79.417845

Report No. AAL ENV-20250906030

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		L _{min}	L _{max}	Leq
1	Sampling Location↓ Near Main Office (Haat Village)	55.1	69.2	62.8
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****



ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 05/09/2025

Sampling Coordinates: Latitude: 30.519093

Longitude: 79.49614

Report No. AAL ENV-20250906031

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Main Office (Dam Site)	62.8	73.6	70.3
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Noise Level Monitoring – Ambient Noise

Date of Sampling: 05/09/2025

Sampling Coordinates: Latitude: 30.529851

Longitude: 79.507819

Report No. AAL ENV-20250906032

Date of Reporting: 11/09/2025

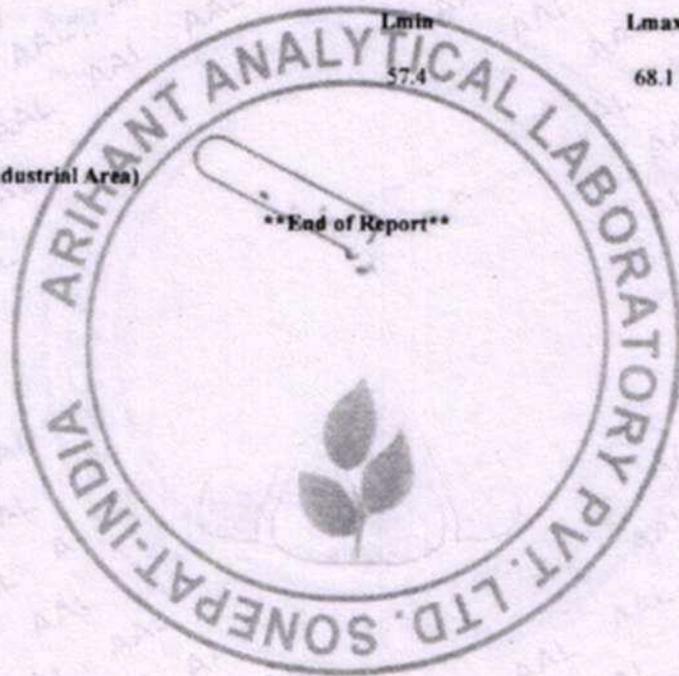
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Camp Helong	57.4	68.1	64.3
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****



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Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Noise Level Monitoring – Ambient Noise

Date of Sampling: 05/09/2025

Sampling Coordinates: Latitude:30.417497

Longitude: 79.41356

Report No. AAL ENV-20250906033

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		L _{min}	L _{max}	Leq
1	Sampling Location↓ Near Main Office (Power House)	55.8	68.6	65.3
	Standards Limit (As per CPCB for Industrial Area)			75 Max.



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Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Noise Level Monitoring – Ambient Noise

Date of Sampling: 05/09/2025

Sampling Coordinates: Latitude:30.426107 Longitude: 79.420963

Report No. AAL ENV-20250906034

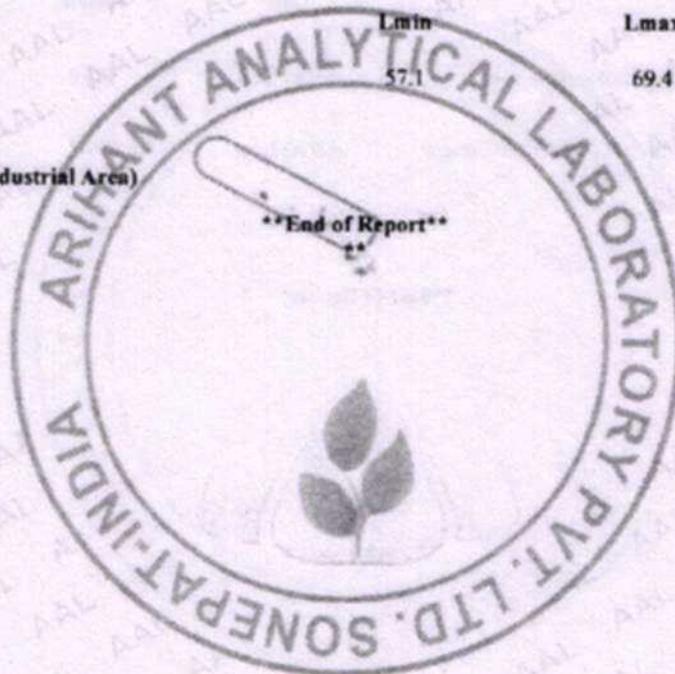
Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Haul Road	57.1	69.4	66.6
	Standards Limit (As per CPCB for Industrial Area)			75 Max.



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Dist. Chamoli – 242 472, Uttarakhand

Sample Description: D G Noise

Sampling Coordinates: Latitude 30.425484 Longitude: 79.419013

Capacity of DG Set: 2000 KVA - D G No.1

Date of Monitoring: 03/09/2025

Report No. AAL ENV-20250906007

Date of Reporting: 11/09/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open	dB(A) Leq.	100.4	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	74.6	-
	Insertion Loss	dB(A) Leq.	25.8	25 Min.

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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250906008

Sample Description: D G Noise

Date of Reporting: 11/09/2025

Sampling Coordinates: Latitude: 30.425484 Longitude: 79.419013

Capacity of DG Set: 2000 KVA - D G No.2

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open	dB(A) Leq.	99.8	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	73.5	-
	Insertion Loss	dB(A) Leq.	26.3	25 Min.

End of Report

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Report No. AAL ENV-20250906009

Date of Reporting: 11/09/2025

Sample Description: D G Noise

Sampling Coordinates: Latitude: 30.425484 Longitude: 79.419013

Capacity of DG Set: 2000 KVA - D G No.3

Sampling Done By: AAL

Date of Monitoring: 03/09/2025

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open	dB(A) Leq.	97.7	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	70.9	-
	Insertion Loss	dB(A) Leq.	26.8	25 Min.

****End of Report****

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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250906010

Date of Reporting: 11/09/2025

Sample Description: D G Noise

Sampling Coordinates: Latitude: 30.425484 Longitude: 79.419013

Capacity of DG Set: 2000 KVA - D G No.4

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open.	dB(A) Leq.	98.6	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	72.2	-
	Insertion Loss	dB(A) Leq.	26.4	25 Min.

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Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250906011

Date of Reporting: 11/09/2025

Sample Description: D G Noise

Sampling Coordinates: Latitude 30.425484 Longitude: 79.419013

Capacity of DG Set: 1010 KVA - D G No.5

Date of Monitoring: 03/09/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open.	dB(A) Leq.	99.1	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	73.2	-
	Insertion Loss	dB(A) Leq.	25.9	25 Min.

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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Work-zone Noise

Date of Sampling: 03/09/2025

Sampling Coordinates: Latitude: 30.425913 Longitude: 79.417828

Report No. AAL ENV-20250906019

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		L _{min}	L _{max}	Leq
1	Sampling Location↓ Inside TRT Tunnel	76.5	83.7	80.3
	Standards Limit (As per OSHA, No. - 1910.95)			90 Max.

****End of Report****



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Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli - 242 472, Uttarakhand	Report No.	AAI ENV-20250906020
Sample Description:	Noise Level Monitoring - Work-zone Noise	Date of Reporting:	11/09/2025
Date of Sampling:	03/09/2025	Sampling Duration:	24 Hrs.
Sampling Coordinates:	Latitude: 30.416515 Longitude: 79.409375	Sampling Done By:	AAI

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		L _{min}	L _{max}	Leq
1	Sampling Location↓ Inside MAT Tunnel	70.1	76.5	74.3
	Standards Limit (As per OSHA, No. - 1910.95)			90 Max.



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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Noise Level Monitoring – Work-zone Noise

Date of Sampling: 03/09/2025

Sampling Coordinates: Latitude 30.416521

Longitude: 79.409427

Report No. AAL ENV-20250906021

Date of Reporting: 11/09/2025

Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
	Sampling Location↓	Lmin	Lmax	Leq
1	Inside Ventilation Tunnel	74.2	83.7	80.1
	Standards Limit (As per OSHA, No. - 1910.95)			90 Max.

End of Report

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WASTE

WATER

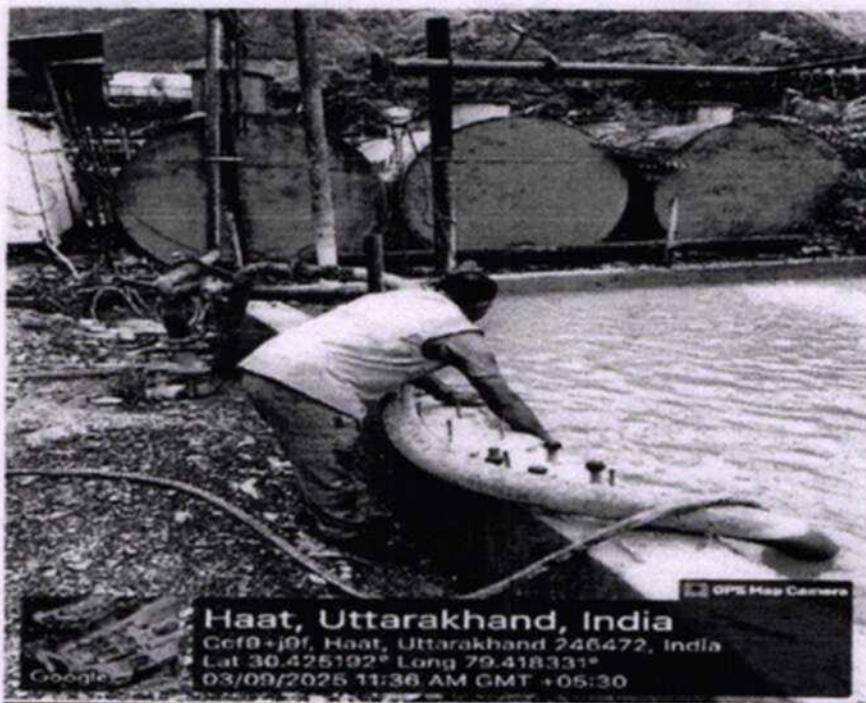
SAMPLES

ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
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WASTE WATER



WASTE WATER

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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 05/09/2025

Sampling Coordinates: Latitude: 30.502063

Longitude: 79.486244

Sample Location: Sedimentation Tank - Dam Site

Report No. AAL.WQT-20250906008

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.48	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	32.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days at 27°C)	mg/l	23.0	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	112.0	250 Max.	IS 3025(P-58)-2023

****End of Report****

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 05/09/2025

Sampling Coordinates: Latitude:30.518259 Longitude: 79.494272

Sample Location: Batching Plant Dam Site

Report No. AAL WQT-20250906009

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-V1 General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.72	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	29.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days @ 20°C)	mg/l	18.7	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	92.0	250 Max.	IS 3025(P-58)-2023

****End of Report****

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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TEST REPORT

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Sample Description:	Waste Water	Date of Receiving:	06/09/2025
Sample Collection Date:	05/09/2025	Date of Starting:	06/09/2025
Sampling Coordinates:	Latitude: 30.529198 Longitude: 79.507583	Date of Completion:	11/09/2025
Sample Location:	D P Mess Outlet Dam Site	Date of Reporting:	11/09/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.24	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	26.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days at 20°C)	mg/l	20.3	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	122.0	250 Max.	IS 3025(P-58)-2023

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Technical Manager
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Sample Description:	Waste Water	Date of Receiving:	06/09/2025
Sample Collection Date:	03/09/2025	Date of Starting:	06/09/2025
Sampling Coordinates:	Latitude: 30.421053 Longitude: 79.418255	Date of Completion:	11/09/2025
Sample Location:	Batching Plant Power House	Date of Reporting:	11/09/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAI.

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.44	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	30.4	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 20°C)	mg/l	19.2	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	93.0	250 Max.	IS 3025(P-58)-2023

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Sample Description:	Waste Water	Date of Receiving:	06/09/2025
Sample Collection Date:	03/09/2025	Date of Starting:	06/09/2025
Sampling Coordinates:	Latitude 30.413918 Longitude: 79.414649	Date of Completion:	11/09/2025
Sample Location:	Sedimentation Tank - Power House	Date of Reporting:	11/09/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAI.

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.54	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	42.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days at 20°C)	mg/l	23.2	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	126.0	250 Max.	IS 3025(P-58)-2023

****End of Report****

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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 04/09/2025

Sampling Coordinates: Latitude 30.425098

Longitude: 79.418245

Sample Location: WWTP Plant- Inlet

Report No. AAL WQT-20250906013

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	Odour		Agreable	IS 3025(P-5)-2018
2	pH Value	-	7.24	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	67.0	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days at 20°C)	mg/l	42.0	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	267.0	IS 3025(P-58)-2023

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Technical Manager
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Vishnugad Pipal Koti Hydro Electric Project.
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 04/09/2025

Sampling Coordinates: Latitude 30.425098 Longitude: 79.418245

Sample Location: WWTP Plant - Outlet

Report No. AAL WQT-20250906014

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Agreeable	-	IS 3025(P-5)-2018
2	pH Value	-	7.46	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	15.6	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	12.6	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	66.0	250 Max.	IS 3025(P-58)-2023

****End of Report****

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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 03/09/2025

Sampling Coordinates: Latitude: 30.426142 Longitude: 79.421087

Sample Location: Sedimentation Tank - Near Casting Yard

Report No. AAL WQT-20250906015

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.44	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	37.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	21.0	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	136.	250 Max.	IS 3025(P-58)-2023

End of Report

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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL WQT-20250906016

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

Sample Description: Waste Water

Sample Collection Date: 03/09/2025

Sampling Coordinates: Latitude:30.425923 Longitude: 79.417823

Sample Location: Sedimentation Tank - Crusher Plant

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.66	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	28.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	25.7	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	142.0	250 Max.	IS 3025(P-58)-2023

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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 04/09/2025

Sampling Coordinates: Latitude: 30.412934 Longitude: 79.413763

Sample Location: D P Mess Outlet Power House

Report No. AAL WQT-20250906017

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.82	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	30.6	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days @ 20°C)	mg/l	24.2	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	118.0	250 Max.	IS 3025(P-58)-2023

****End of Report****

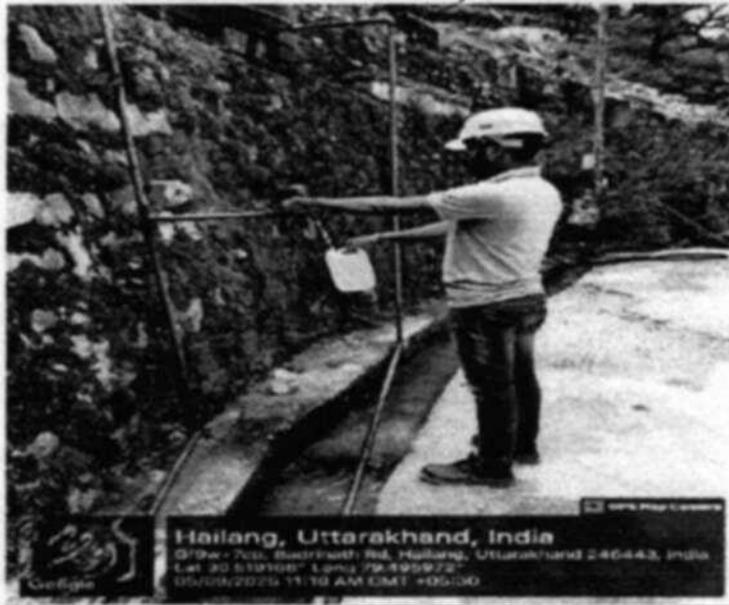
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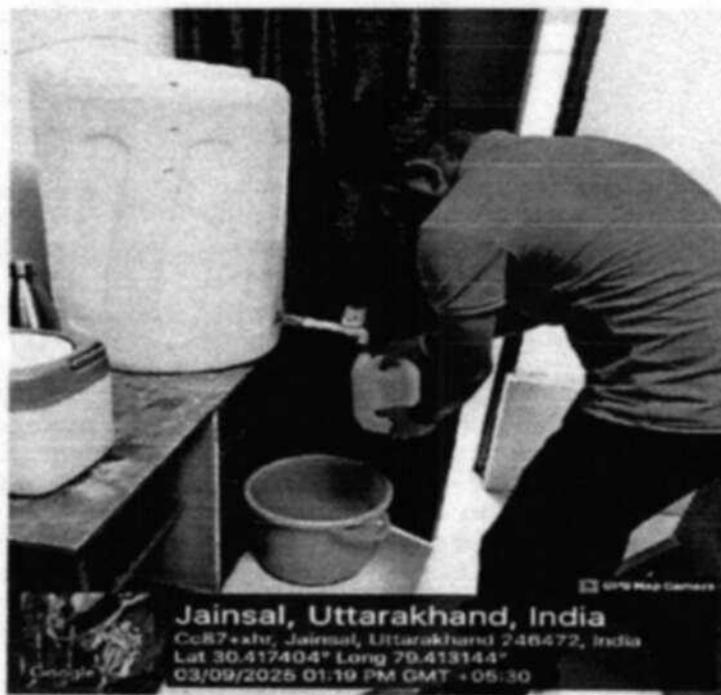
DRINKING WATER SAMPLES

ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

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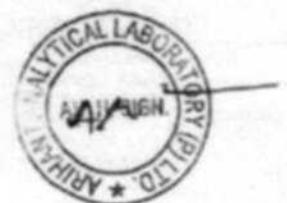


DRINKING WATER



DRINKING WATER

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Drinking Water
Sample Collection Date: 05/09/2025
Sampling Coordinates: Latitude 30.51921 Longitude: 79.496073
Sample Location: Near Office Dam Site

Report No. AAL WQT-20250906002

Date of Receiving: 06/09/2025
Date of Starting: 06/09/2025
Date of Completion: 11/09/2025
Date of Reporting: 11/09/2025
Sample Quantity: 2 Litre
Sample Packing Condition: Sterilized Bottle
Sample Collected By: AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	7.21	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	184.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (LOQ=0.05)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (LOQ=0.5)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as Soap)	mg/l	BLQ (LOQ=0.5)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (LOQ=0.10)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (LOQ=0.05)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	16.5	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	18.3	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (LOQ=0.05)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	7.2	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (LOQ=0.05)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BLQ (LOQ=0.05)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (LOQ=0.05)	0.04 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	5.8	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	78.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	83.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (LOQ=0.05)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (LOQ=0.05)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (LOQ=0.05)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (LOQ=0.05)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (LOQ=0.05)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (LOQ=0.05)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (LOQ=0.05)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (LOQ=0.05)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

****End of Report****

Viray Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli – 242 472, Uttarakhand	Report No.	AAL WQT-20250906003
Sample Description:	Drinking Water	Date of Receiving:	06/09/2025
Sample Collection Date:	05/09/2025	Date of Starting:	06/09/2025
Sampling Coordinates:	Latitude: 30.529842 Longitude: 79.507861	Date of Completion:	11/09/2025
Sample Location:	Dam Site Mess (B-2)	Date of Reporting:	11/09/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Sterilized Bottle
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour		Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value		7.24	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste		Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	166.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (0.00-0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (0.00-0.01)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as SDS)	mg/l	BLQ (0.00-0.01)	0.2 Max.	1.0 Max.	APHA 5540 C 24* E6-2023
10	Barium (as Ba)	mg/l	BLQ (0.00-0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (0.00-0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	13.0	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	14.5	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (0.00-0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24* E6-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	5.2	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (0.00-0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as CaCO ₃)	mg/l	BLQ (0.00-0.01)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	3.4	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	55.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	64.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (0.00-0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (0.00-0.01)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (0.00-0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (0.00-0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (0.00-0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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TEST REPORT

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Drinking Water

Sample Collection Date: 04/09/2025

Sampling Coordinates: Latitude: 30.417404 Longitude: 79.413144

Sample Location: Mess Power House

Report No. AAL WQT-20250906004

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sterilized Bottle

Sample Collected By: AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	≤5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	7.18	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	≤1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	140.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (0.02-0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (0.02-0.01)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as SDBS)	mg/l	BLQ (0.02-0.01)	0.2 Max.	1.0 Max.	APHA 5540 C 24 ^e Ed-2023
10	Barium (as Ba)	mg/l	BLQ (0.02-0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (0.02-0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	12.6	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	19.0	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (0.02-0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 ^e Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	7.2	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (0.02-0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	≤1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as CaO ₁₀)	mg/l	BLQ (0.02-0.01)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (0.02-0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	3.2	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	55.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	62.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (0.02-0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (0.02-0.01)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (0.02-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (0.02-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (0.02-0.01)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (0.02-0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (0.02-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (0.02-0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ=Below Limit of Quantification, LOQ=Limit of Quantification

****End of Report****

Vivek Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli - 242 472, Uttarakhand	Report No.	AAL WQT-20250906005
Sample Description:	Drinking Water	Date of Receiving:	06/09/2025
Sample Collection Date:	04/09/2025	Date of Starting:	06/09/2025
Sampling Coordinates:	Latitude 30.419837 Longitude 79.415104	Date of Completion:	11/09/2025
Sample Location:	PRWA Camp (Batula-2)	Date of Reporting:	11/09/2025
		Sample Quantity:	5 Litre
		Sample Packing Condition:	Sterilized Bottle
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour		Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value		7.15	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste		Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	170.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (0.00-0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (0.00-0.05)	0.5 Max.	No relaxation	IS 3025(P-34)Sec-1)-2023
9	Anionic Detergent (as SDS)	mg/l	BLQ (0.00-0.1)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (0.00-0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (0.00-0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	15.2	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	16.0	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (0.00-0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	7.3	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (0.00-0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34)Sec-1)-2023
20	Phenolic Compound (as CaSO ₄)	mg/l	BLQ (0.00-0.01)	0.001 Max.	0.002 Max.	IS 3025(P-43)Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	4.4	200 Max.	400 Max.	IS 3025(P-24)Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	79.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	88.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (0.00-0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (0.00-0.001)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (0.00-0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (0.00-0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (0.00-0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ-Below Limit of Quantification, LOD-Limit of Detection

****End of Report****

Vijay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli - 242 472, Uttarakhand	Report No.	AAL WQT-20250906006
Sample Description:	Drinking Water	Date of Receiving:	06/09/2025
Sample Collection Date:	03/09/2025	Date of Starting:	06/09/2025
Sampling Coordinates:	Latitude: 30.417488 Longitude: 79.413542	Date of Completion:	11/09/2025
Sample Location:	Office Pantry Power House	Date of Reporting:	11/09/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Sterilized Bottle
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	≤ 5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	6.97	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	115.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (0.00-0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (0.00-0.01)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as SDS)	mg/l	BLQ (0.00-0.01)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (0.00-0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (0.00-0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	7.3	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	11.0	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (0.00-0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	6.4	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (0.00-0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as C ₆ H ₅ OH)	mg/l	BLQ (0.00-0.01)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	<1.0	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	42.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	48.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (0.00-0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (0.00-0.01)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (0.00-0.01)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (0.00-0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (0.00-0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ = Below Limit of Quantification, LOD = Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Drinking Water

Sample Collection Date: 03/09/2025

Sampling Coordinates: Latitude: 30.412972 Longitude: 79.413751

Sample Location: DP Mess Power House

Report No. AAL WQT-20250906007

Date of Receiving: 06/09/2025

Date of Starting: 06/09/2025

Date of Completion: 11/09/2025

Date of Reporting: 11/09/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sterilized Bottle

Sample Collected By: AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	7.29	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	163.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (0.00-0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (0.00-0.01)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as S.M.D.S)	mg/l	BLQ (0.00-0.01)	0.2 Max.	1.0 Max.	APHA 5540 C 24* Ed-2023
10	Barium (as Ba)	mg/l	BLQ (0.00-0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (0.00-0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	13.2	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	14.5	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (0.00-0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24* Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	9.3	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (0.00-0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as CaCl ₂ O ₆)	mg/l	BLQ (0.00-0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (0.00-0.001)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	1.6	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	51.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	54.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (0.00-0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (0.00-0.00)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (0.00-0.00)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (0.00-0.00)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (0.00-0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (0.00-0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ-Below Limit of Quantification, LOQ=Limit of Quantification

****End of Report****

Viney Dixit
(Microbiologist)

Ashutosh Srivastava
Technical Manager
Authorised Signatory

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M/S HINDUSTAN CONSTRUCTION CO. LTD

Vishnugad Pipal Koti Hydro Electric Project,

Mayapur, PO Mayapur (Pipal Koti)

Distt. Chamoli, Uttarakhand-246472

HCEC

Environmental Monitoring

(APRIL TO JUNE-2025)

: Submitted By:

ARIHANT ANALYTICAL LABORATORY PVT. LTD.

Plot No.272, Phase-IV, Sector-57, HSIIDC,

Kundli, Sonipat - 131 028, Haryana

Email: aalkundli@gmail.com



Certificate

This is to certify that Environmental monitoring work carried out by M/s Arihant Analytical Laboratory Pvt. Ltd. for M/s Hindustan Construction Co. Ltd. (April to June 2025) in reference to Work Order No.16066669.

The Environmental Monitoring Report is meant for internal use of your organization and to submit concern government department for official use only.

Date: 07/07/2025

For Arihant Analytical Laboratory Pvt. Ltd.



(Authorized Signatory)

LIST OF CONTENT

1. EXECUTIVE SUMMARY
2. AMBIENT AIR QUALITY MONIORING
3. STACK EMISSION (DG SETS & BOILER)
4. INDOOR AIR QUALITY MONIORING
5. AIR EMISSION STONE CRUSHER MONITORING
6. NOISE LEVEL MONITIORNG
7. WASTE WATER SAMPLES
8. DRINKING WATER SAMPLES

EXECUTIVE

SUMMARY

EXECUTIVE SUMMARY REPORTS FOR ENVIRONMENTAL MONITORING

(APRIL TO JUNE 2025)

DISCUSSION OF RESULTS & CONCLUSION

1.0 Ambient Air Quality Monitoring

Ambient Air Quality was monitored at Four Locations for one month for parameters Respirable Suspended Particulate Matter (PM₁₀), Fine Particulate Matter (PM_{2.5}), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), and Found within the CPCB limits.

- Near HRT/TBM Portal
- TRT Road/Colony at Siyasin
- Power House at Haat/Harsari
- Near Crusher Area (Dam Site)
- Dam Site (Near Office)

2.0 Stack Emission (DG & Boiler):

Stack Emission was monitored for DG Sets & Boiler Stack. All the results were found with the prescribe limits as per CPCB Guidelines.

- DG No.1 (2000 KVA)
- DG No.2 (2000 KVA)
- DG No.3 (2000 KVA)
- DG No.4 (2000 KVA)
- DG No.5 (1010 KVA)
- Boiler Stack (850 kg/hr.)

3.0 Indoor Air Quality Monitoring

Indoor air quality was monitoring parameters Suspended Particulate Matter (SPM), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂), Carbon Dioxide (CO₂), Carbon Monoxide (CO), Silica Contents (SiO₂), Formaldehyde (HCHO), Methane (CH₄) and Found within the limits at 6 Locations.

- Inside MAT Tunnel
- Inside TRT Adit Tunnel
- Inside Ventilation Tunnel
- Inside Adit to HRT Tunnel
- Inside DT Tunnel
- Inside to Desilting Chamber (DC-03) Tunnel

4.0 Air Emission Stone Crusher Monitoring

Crusher Monitoring was done according to CPCB Standard and all the parameters were within the limits.

- Air Emission (Stone Crusher) – Power House

5.0 Noise Monitoring:

Noise Level was monitored according to CPCB standards parameters Leq and found within the limits at 21 Locations:

- DG No.1 - 2000 KVA
- DG No.2 - 2000 KVA
- DG No.3 - 2000 KVA
- DG No.4 - 2000 KVA
- DG No.5 - 1010 KVA
- Near Siyasin Colony
- Near Haat/Harsari Village
- Near Batula Village
- Near Workshop
- Near HRT & DC Tunnel
- Near Crusher Area
- Near Batching Plant
- Near Boiler Section
- Near Main Office (Haat Village)
- Near Main Office (Dam Site)
- Near Camp Helong
- Near Main Office (Power House)
- Near Haul Road
- Inside TRT Tunnel
- Inside MAT Tunnel
- Inside Ventilation Tunnel

6.0 Waste Water (ETP Outlet):

Effluent water Quality was analysed and all parameters were found under to limits as per CPCB. Location as mentioned below.

- Batching Plant Power House
- Batching Plant Near Casting Yard
- Sedimentation Tank-Power House
- Sedimentation Tank- Crusher Plant
- WTP Plant-Inlet
- WTP Plant-Outlet
- DP Mess Outlet Power House
- Batching Plant Dam Site
- DP Mess Outlet Dam Site
- Sedimentation Tank-Dam Site

7.0 Drinking Water:

Drinking water Quality was analysed and parameters were found as per IS 10500:2012 Drinking water specification. Drinking water was monitored at following 6 locations:

- DP Mess Power House
- Office Pantry Power House
- Mess Power House
- PRWA Camp (Batula-2)
- Dam Site Mess (B-2)
- Near Office Dam Site

**AMBIENT
AIR
QUALITY
MONITORING**

ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand



AMBIENT AIR



AMBIENT AIR

CONDUCTED BY
ARIHANT ANALYTICAL LABORATORY PVT. LTD.
PLOT NO.272, PHASE-IV, SECTOR-57, HSIIDC,
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TEST REPORT

Page 1 of 1

Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Ambient Air Quality Monitoring
(24 Hrs. for the Quarter of April to June 2025)

Sampling Location: Dam Site (Near Office)

Report No. AAL ENV- 20250701008

Date of Reporting: 07/07/2025

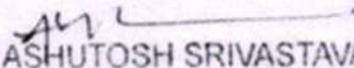
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters → Unit→ Date of Sampling↓	Particulate Matter PM ₁₀ (µg /m ³)	Particulate Matter PM _{2.5} (µg /m ³)	Sulphur Dioxide SO ₂ (µg /m ³)	Nitrogen Dioxide NO ₂ (µg /m ³)
1	01/06/2025	67.4	33.4	12.2	28.3
2	05/06/2025	68.2	32.1	14.5	26.1
3	08/06/2025	69.6	36.2	13.6	25.4
4	12/06/2025	65.8	38.7	12.5	23.2
5	15/06/2025	62.9	41.3	16.5	27.3
6	19/06/2025	67.3	35.5	11.9	26.8
7	22/06/2025	64.7	31.8	13.2	25.9
8	26/06/2025	65.1	36.6	14.6	24.2
	Minimum	62.9	31.8	11.9	23.2
	Maximum	69.6	41.3	16.5	28.3
	Average	66.3	35.7	13.6	25.9
	Standards Limit (As per NAAQ) Protocol/Method	100 Max. IS-5182(P-23) 2006	60 Max. IS-5182(P-24)-2019	80 Max. IS 5182(P-2/Sec-1)-2023	80 Max. IS-5182(P-6) 2006

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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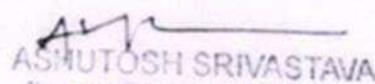
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Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli – 242 472, Uttarakhand	Report No.	AAL ENV- 20250701009
Sample Description:	Ambient Air Quality Monitoring (24 Hrs. for the Quarter of April to June 2025)	Date of Reporting:	07/07/2025
Sampling Location:	Near Crusher Area (Dam Site)	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters → Unit→ Date of Sampling↓	Particulate Matter PM ₁₀ (µg /m ³)	Particulate Matter PM _{2.5} (µg /m ³)	Sulphur Dioxide SO ₂ (µg /m ³)	Nitrogen Dioxide NO ₂ (µg /m ³)
1	01/06/2025	74.1	42.1	16.1	32.4
2	05/06/2025	76.9	43.5	19.3	31.9
3	08/06/2025	73.2	42.9	15.4	27.6
4	12/06/2025	77.8	47.3	21.5	28.5
5	15/06/2025	76.9	44.5	19.6	29.9
6	19/06/2025	74.2	38.3	17.8	26.2
7	22/06/2025	76.3	45.6	13.6	24.5
8	26/06/2025	75.1	44.2	13.2	26.4
	Minimum	73.2	38.3	13.2	24.5
	Maximum	77.8	47.3	21.5	32.4
	Average	75.5	43.5	17.6	28.4
	Standards Limit (As per NAAQ) Protocol/Method	100 Max. IS-5182(P-23) 2006	60 Max. IS-5182(P-24)-2019	80 Max. IS 5182(P-2/Sec-1)-2023	80 Max. IS-5182(P-6) 2006

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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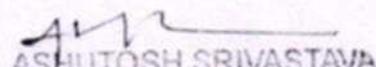
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Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli – 242 472, Uttarakhand	Report No.	AAL ENV- 20250701010
Sample Description:	Ambient Air Quality Monitoring (24 Hrs. for the Quarter of April to June 2025)	Date of Reporting:	07/07/2025
Sampling Location:	Power House at Haat/Harsari	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters → Unit→ Date of Sampling↓	Particulate Matter PM ₁₀ (µg /m ³)	Particulate Matter PM _{2.5} (µg /m ³)	Sulphur Dioxide SO ₂ (µg /m ³)	Nitrogen Dioxide NO ₂ (µg /m ³)
1	02/06/2025	70.1	40.3	14.3	23.9
2	06/06/2025	72.3	41.2	16.4	26.4
3	09/06/2025	75.6	44.6	15.6	28.3
4	13/06/2025	71.2	42.5	13.4	25.6
5	16/06/2025	68.4	36.9	12.5	23.8
6	20/06/2025	67.5	37.5	11.6	27.6
7	23/06/2025	67.2	39.2	14.8	28.2
8	27/06/2025	71.6	42.4	16.2	22.5
	Minimum	67.2	36.9	11.6	22.5
	Maximum	75.6	44.6	16.4	28.3
	Average	70.4	40.5	14.3	25.7
	Standards Limit (As per NAAQ) Protocol/Method	100 Max. IS-5182(P-23) 2006	60 Max. IS-5182(P-24)-2019	80 Max. IS 5182(P-2/Sec-1)-2023	80 Max. IS-5182(P-6) 2006

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Ambient Air Quality Monitoring
(24 Hrs. for the Quarter of April to June 2025)

Sampling Location: TRT Road/Colony at Siyasin

Report No. AAL ENV- 20250701011

Date of Reporting: 07/07/2025

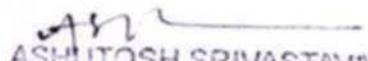
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters → Unit→ Date of Sampling↓	Particulate Matter PM ₁₀ (µg /m ³)	Particulate Matter PM _{2.5} (µg /m ³)	Sulphur Dioxide SO ₂ (µg /m ³)	Nitrogen Dioxide NO ₂ (µg /m ³)
1	02/06/2025	66.4	33.2	13.6	20.1
2	06/06/2025	64.2	31.9	12.9	24.2
3	09/06/2025	68.5	35.6	12.7	22.3
4	13/06/2025	69.2	38.3	15.8	23.2
5	16/06/2025	63.5	34.1	11.2	21.5
6	20/06/2025	64.6	37.2	11.8	22.6
7	23/06/2025	65.8	35.4	13.3	19.5
8	27/06/2025	64.1	36.3	12.7	25.1
	Minimum	63.5	31.9	11.2	19.5
	Maximum	69.2	38.3	15.8	25.1
	Average	65.7	35.2	13.0	22.3
	Standards Limit (As per NAAQ)	100 Max.	60 Max.	80 Max.	80 Max.
	Protocol/Method	IS-5182(P-23) 2006	IS-5182(P-24)-2019	IS 5182(P-2/Sec-1)-2023	IS-5182(P-6) 2006

****End of Report****


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Deputy Technical Manager
Authorised Signatory

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TEST REPORT

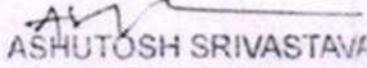
Page 1 of 1

Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli - 242 472, Uttarakhand	Report No.	AAL ENV- 20250701012
Sample Description:	Ambient Air Quality Monitoring (24 Hrs. for the Quarter of April to June 2025)	Date of Reporting:	07/07/2025
Sampling Location:	Near HRT/TBM Portal	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters → Unit→ Date of Sampling↓	Particulate Matter PM ₁₀ (µg /m ³)	Particulate Matter PM _{2.5} (µg /m ³)	Sulphur Dioxide SO ₂ (µg /m ³)	Nitrogen Dioxide NO ₂ (µg /m ³)
1	03/06/2025	68.9	38.4	16.4	25.3
2	07/06/2025	66.2	33.3	14.2	24.1
3	10/06/2025	69.4	38.5	12.7	26.3
4	14/06/2025	63.5	36.4	15.6	27.6
5	17/06/2025	66.4	32.1	11.8	19.5
6	21/06/2025	71.3	38.6	14.7	24.6
7	24/06/2025	68.4	39.2	11.3	22.7
8	28/06/2025	68.5	41.3	15.1	24.8
	Minimum	63.5	32.1	11.3	19.5
	Maximum	71.3	41.3	16.4	27.6
	Average	67.8	37.2	13.6	23.3
	Standards Limit (As per NAAQ) Protocol/Method	100 Max. IS-5182(P-23) 2006	60 Max. IS-5182(P-24)-2019	80 Max. IS 5182(P-2/Sec-1)-2023	80 Max. IS-5182(P-6) 2006

****End of Report****

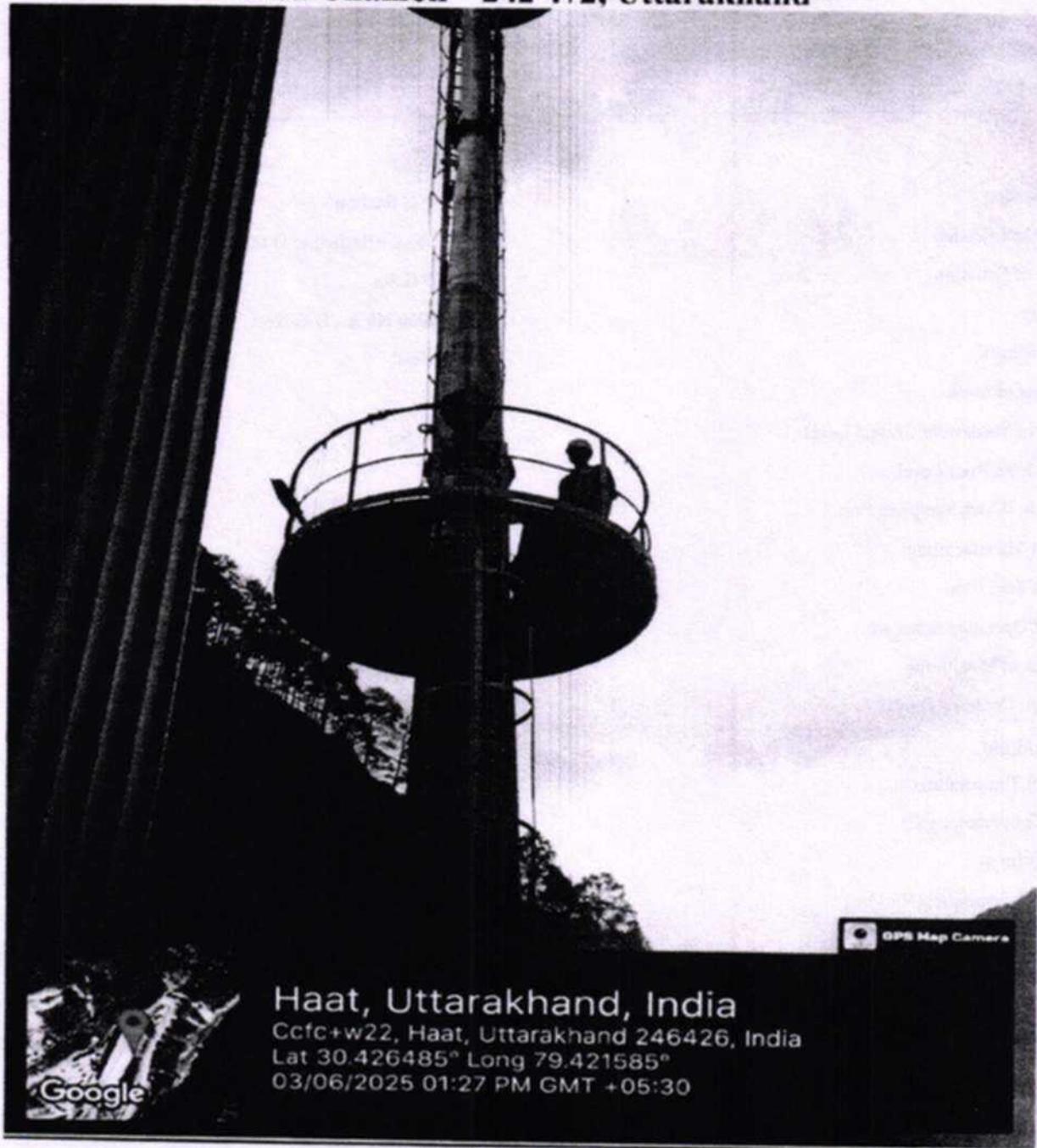

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Deputy Technical Manager
Authorised Signatory

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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli – 242 472, Uttarakhand



STACK EMISSION

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250607053

Date of Reporting: 14/06/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/06/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Capacity : 2000 KVA - D G No.1
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

Observations

Ambient Temperature(°C) : 34
Stack Temperature (°C) : 348
Velocity (m/s) : 14.28
Quantity of emission (Nm³/hr.) : 5796.98

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	55.3	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	192.6	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15%O ₂	mg/Nm ³	59.8	150	IS 13270- 1992
4	Non Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	34.7	100	AAL/SOP/ENV/032-2022

CPCB - Central Pollution Control Board

****End of Report****

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Report No. AAL ENV-20250607054

Date of Reporting: 14/06/2025

Sampling Done By: AAL

Issued To: **M/s Hindustan Construction Co. Ltd.**
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: **D G Stack Emission**

Date of Monitoring: 03/06/2025

TEST RESULT

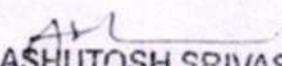
Plant/Section : **D G Section**
Stack Identification : **Stack Attached to D G**
Source of Emission : **D G Set**
Capacity : **2000 KVA - D G No.2**
Type of Stack : **Metal**
Diameter of Stack : **12"**
Height of Stack from Ground Level : **12.5m**
Height from Roof Level : **-**
Height at Which Sampling Port : **6m**
Product Manufacturing : **Construction Works**
Type of Fuel Used : **HSD**
Normal Operating Schedule : **As per requirement**
Duration of Monitoring : **45 min.**
Emission Control (if any) : **Nil**

Observations
Ambient Temperature (°C) : **34**
Stack Temperature (°C) : **328**
Velocity (m/s) : **15.78**
Quantity of emission (Nm³/hr.) : **6156.98**

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	45.2	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	190.4	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15% O ₂	mg/Nm ³	52.7	150	IS 13270- 1992
4	Non Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	32.4	100	AAL/SOP/ENV/032-2022

CPCB - Central Pollution Control Board

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
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TEST REPORT

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250607055

Date of Reporting: 14/06/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/06/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Capacity : 2000 KVA - D G No.3
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

Observations

Ambient Temperature (°C) : 35
Stack Temperature (°C) : 342
Velocity (m/s) : 16.90
Quantity of emission (Nm³/hr.) : 6062.77

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	45.3	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	189.2	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15%O ₂	mg/Nm ³	53.7	150	IS 13270- 1992
4	Non Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	27.3	100	AAL/SOP/ENV/032-2022

CPCB - Central Pollution Control Board

****End of Report****

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Authorised Signatory

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Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250607056

Date of Reporting: 14/06/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/06/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Capacity : 2000 KVA - D G No.4
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

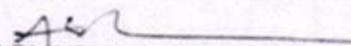
Observations

Ambient Temperature (°C) : 34
Stack Temperature (°C) : 340
Velocity (m/s) : 15.10
Quantity of emission (Nm³/hr.) : 5871.69

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	41.3	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	176.5	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15%O ₂	mg/Nm ³	58.2	150	IS 13270- 1992
4	Non Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	36.4	100	AAL/SOP/ENV/032-2022

CPCB - Central Pollution Control Board

****End of Report****


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Deputy Technical Manager
Authorised Signatory

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Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250607057

Date of Reporting: 14/06/2025

Sample Description: D G Stack Emission

Date of Monitoring: 03/06/2025

Sampling Done By: AAL

TEST RESULT

Plant/Section : D G Section
Stack Identification : Stack Attached to D G
Source of Emission : D G Set
Capacity : 1010 KVA - D G No.5
Type of Stack : Metal
Diameter of Stack : 12"
Height of Stack from Ground Level : 12.5m
Height from Roof Level : -
Height at Which Sampling Port : 6m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : Nil

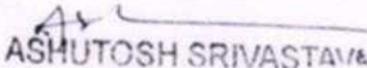
Observations

Ambient Temperature (°C) : 34
Stack Temperature (°C) : 332
Velocity (m/s) : 13.90
Quantity of emission (Nm³/hr.) : 5469.23

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM) At 15% O ₂	mg/Nm ³	47.3	75	IS 11255(P-1)-1985
2	Oxide of Nitrogen (as NO _x) At 15% O ₂	ppmv	190.5	710	IS 11255(P-7)-2005
3	Carbon Monoxide (as CO) At 15%O ₂	mg/Nm ³	55.2	150	IS 13270- 1992
4	Non Methane Hydrocarbon (as C) At 15% O ₂	mg/Nm ³	33.6	100	AAL/SOP/ENV/032-2022

CPCB-Central Pollution Control Board

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Deputy Techno
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TEST REPORT

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Report No. AAL ENV-20250607063

Date of Reporting: 14/06/2025

Sampling Done By: AAL.

Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Boiler Stack Emission

Date of Monitoring: 03/06/2025

TEST RESULT

Plant/Section : Boiler Section
Stack Identification : Stack attached to Boiler
Source of Emission : Boiler Stack
Capacity : 850 Kg/Hr.
Type of Stack : Metal
Diameter of Stack : 0.5m
Height of Stack from Ground Level : 30m
Height from Roof Level : -
Height at Which Sampling Port : 10m
Product Manufacturing : Construction Works
Type of Fuel Used : HSD
Normal Operating Schedule : As per requirement
Duration of Monitoring : 45 min.
Emission Control (if any) : -

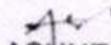
Observations

Ambient Temperature(°C) : 35
Stack Temperature (°C) : 150
Average Stack Velocity (m/s) : 10.30
Quantity of emission (Nm³/sec.) : 4974.2

S. No.	Test Parameters	Unit	Results	Limits as per CPCB Guidelines	Test Methods
1	Particulate Matter (as PM)	mg/Nm ³	51.2	500	IS 11255(P-1)-1985
2	Sulphur Dioxide (as SO ₂)	mg/Nm ³	29.6	600	IS 11255(P-2)-1985
3	Oxide of Nitrogen (as NO _x)	mg/Nm ³	94.5	300	IS 11255(P-7)-2005
4	Carbon Monoxide (as CO)	%v/v	BLQ (L.O.Q = 0.2)	1.0	IS 13270-1992

NS-Not Specified,
BLQ-Below Limit of Quantification, L.O.Q- Limit of Quantification

****End of Report****


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Deputy Technical Manager
Authorised Signatory

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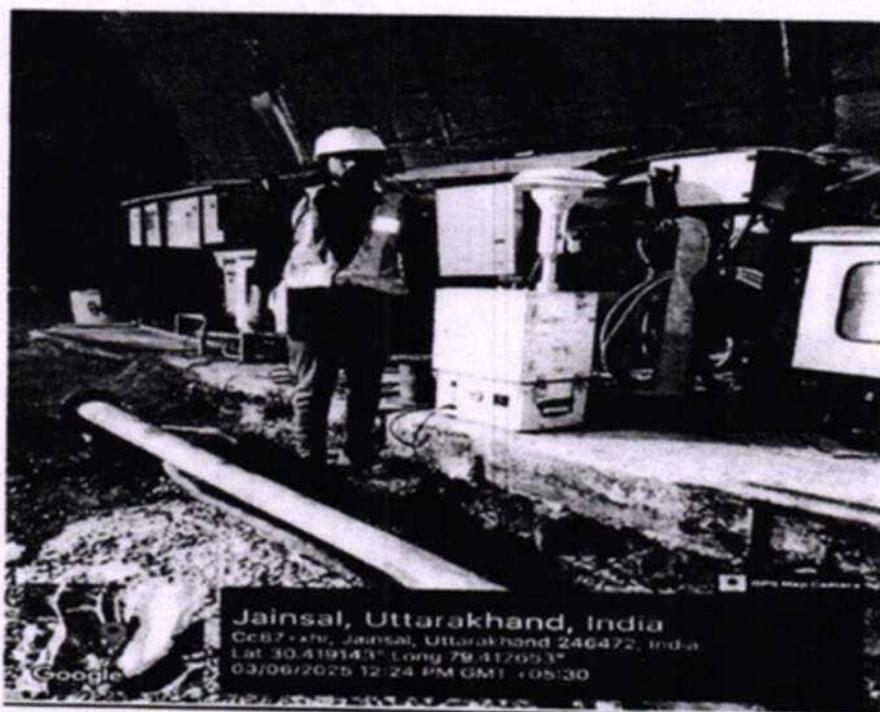
ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand



Jainsal, Uttarakhand, India
Coc7+pmf, Jainsal, Uttarakhand 246426, India
Lat: 30.420972° Long: 79.413043°
03/06/2025 10:00 AM GMT +05:30

INDOOR AIR



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Coc87+phf, Jainsal, Uttarakhand 246472, India
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INDOOR AIR

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TEST REPORT

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 01/06/2025

Report No. AAL ENV-20250607064

Date of Reporting: 14/06/2025

Sampling Done By: AAL

TEST RESULTS

Sampling Details:

Sampling Location : Inside Desilting Chamber (DC-03) Tunnel

Actual Time of Sampling (Hrs.) : 08:00

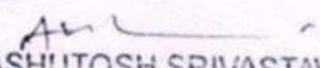
Average flow Rate for particulate matter (LPM) : 1.0

Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.792	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.018	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.042	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.21	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	1121	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	10.6	(50 MAX.-As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 MAX.-As per OSHA)	By GC

NIOSH- National Institute for Occupational Safety and Health
ND-Not Detected, NS-Not Specified

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250607065

Date of Reporting: 14/06/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 03/06/2025

Sampling Done By: AAL

TEST RESULTS

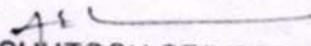
Sampling Details:

Sampling Location : Inside MAT Tunnel
Actual Time of Sampling (Hrs.) : 08:00
Average flow Rate for particulate matter (LPM) : 1.0
Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.7491	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.030	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.040	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.32	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	1040	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	10.6	(50 MAX.-As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 MAX.-As per OSHA)	By GC

NIOSH- National Institute for Occupational Safety and Health
ND-Not Detected, NS-Not Specified

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250607066

Date of Reporting: 14/06/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 03/06/2025

Sampling Done By: AAL

TEST RESULTS

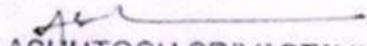
Sampling Details:

Sampling Location : Inside TRT Adit Tunnel
Actual Time of Sampling (Hrs.) : 08:00
Average flow Rate for particulate matter (LPM) : 1.0
Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.794	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.020	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.042	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.29	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	1055	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	11.9	(50 Max.-As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 Max.-As per OSHA)	By GC

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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL ENV-20250607067

Date of Reporting: 14/06/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 03/06/2025

Sampling Done By: AAL

TEST RESULTS

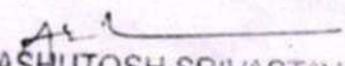
Sampling Details:

Sampling Location : Inside Ventilation Tunnel
Actual Time of Sampling (Hrs.) : 08:00
Average flow Rate for particulate matter (LPM) : 1.0
Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.812	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.020	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.040	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.28	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	1110	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	11.9	(50 Max. -As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 Max. -As per OSHA)	By GC

NIOSH- National Institute for Occupational Safety and Health
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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 04/06/2025

Report No. AAL ENV-20250607068

Date of Reporting: 14/06/2025

Sampling Done By: AAL

TEST RESULTS

Sampling Details:

Sampling Location : Inside DT Tunnel

Actual Time of Sampling (Hrs.) : 08:00

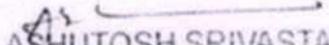
Average flow Rate for particulate matter (LPM) : 1.0

Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.724	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.020	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.030	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.25	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	998	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	11.7	(50 MAX.-As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 MAX.-As per OSHA)	By GC

NIOSH- National Institute for Occupational Safety and Health
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****End of Report****


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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250607069

Date of Reporting: 14/06/2025

Sample Description: Indoor Air Quality Monitoring

Date of Monitoring: 05/06/2025

Sampling Done By: AAL

TEST RESULTS

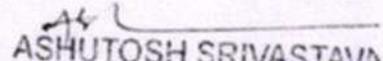
Sampling Details:

Sampling Location : Inside Adit to HRT Tunnel
Actual Time of Sampling (Hrs.) : 08:00
Average flow Rate for particulate matter (LPM) : 1.0
Total Volume of air sampled for particulate matter (L) : 480.0

S. No.	Test Parameters	Unit	Results	Limit as per Factory Act 1948, Schedule-II, Section-41F	Test Methods
1	Suspended Particulate Matter (SPM)	mg/m ³	1.492	NS	NIOSH Manual: 500-1994
2	Sulphur Dioxide (as SO ₂)	mg/m ³	0.027	5	IS-5182 (P-2/Sec-1)-2023
3	Oxide of Nitrogen (as NO ₂)	mg/m ³	0.030	6	IS-5182(P-6)-2006
4	Carbon Monoxide (as CO)	mg/m ³	1.21	40	IS-5182(P-10)-1999
5	Carbon Dioxide (as CO ₂)	mg/m ³	874	NS	AAL/SOP/ENV/027-2017
6	Formaldehyde (HCHO)	mg/m ³	ND	NS	NIOSH-3500:1994
7	Silica Content	µg/m ³	8.9	(50 Max.-As per OSHA)	By Air APHA
8	Methane	mg/m ³	ND	(736 Max.-As per OSHA)	By GC

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****End of Report****


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AIR EMISSION

STONE CRUSHER

MONITORING

(POWER HOUSE)



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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Air Emission (Stone Crusher)

Date of Monitoring: 04/06 /2025

Report No. AAL ENV-20250607052

Date of Reporting: 14/06/2025

Sampling Done By: AAL

TEST RESULT

Sampling Details:

Sampling Location : Power House

Type of Sample : Air Emission (Stone Crusher- Inward & Outward)

Average flow Rate for particulate matter (m³/minute) : **Inward** **Outward**

1.16 1.18

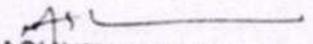
Total Volume of air sampled for particulate matter (m³) : 69.6 70.8

Sampling Duration, Minutes : 60 60

Wind Direction : NNE (31°C) NE (55°C)

S. No.	Test Parameter	Unit	Results			Standard Limits	Test Methods
			Inward	Outward	Final Result		
1	Suspended Particulate Matter (SPM)	µg/m ³	1068.3	1528.6	460.3	600	IS-5182(P-4) 1999

****End of Report****


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NOISE

LEVEL

MONITORING



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Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: D G Noise

Capacity of DG Set: 2000 KVA - D G No.2

Date of Monitoring: 03/06/2025

Report No. AAL ENV-20250607059

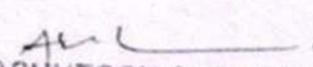
Date of Reporting: 14/06/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open.	dB(A) Leq.	100.4	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	73.9	-
	Insertion Loss	dB(A) Leq.	26.5	25 Min.

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Report No. AAL ENV-20250607060

Date of Reporting: 14/06/2025

Sample Description: D G Noise

Capacity of DG Set: 2000 KVA - D G No.3

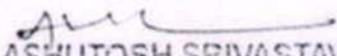
Date of Monitoring: 03/06/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open.	dB(A) Leq.	99.8	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	73.1	-
	Insertion Loss	dB(A) Leq.	26.7	25 Min.

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: D G Noise

Capacity of DG Set: 2000 KVA - D G No.4

Date of Monitoring: 03/06/2025

Report No. AAL ENV-20250607061

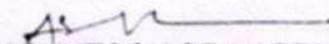
Date of Reporting: 14/06/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open.	dB(A) Leq.	100.1	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	73.2	-
	Insertion Loss	dB(A) Leq.	26.9	25 Min.

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: D G Noise

Capacity of DG Set: 1010 KVA - D G No.5

Date of Monitoring: 03/06/2025

Report No. AAL ENV-20250607062

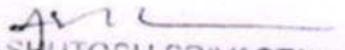
Date of Reporting: 14/06/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open.	dB(A) Leq.	98.7	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	71.6	-
	Insertion Loss	dB(A) Leq.	27.1	25 Min.

****End of Report****


ASHUTOSH SRIVASTAVA
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Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: D G Noise

Capacity of DG Set: 2000 KVA - D G No.1

Date of Monitoring: 03/06/2025

Report No. AAL ENV-20250607058

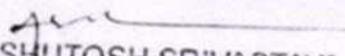
Date of Reporting: 14/06/2025

Sampling Done By: AAL

TEST RESULT

S. No.	Location	Unit	Result	Permissible Limit dB(A) Leq.
1.	Noise level when acoustic enclosure is open.	dB(A) Leq.	99.9	-
2.	Noise level when acoustic enclosure is closed at a distance of 0.5 meter.	dB(A) Leq.	73.7	-
	Insertion Loss	dB(A) Leq.	26.2	25 Min.

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand



WORKZONE NOISE



WORKZONE NOISE

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PLOT NO.272, PHASE-IV, SECTOR-57, HSIIDC,
KUNDLI, SONIPAT, HARYANA
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TEST REPORT

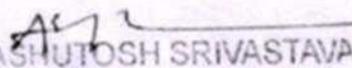
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Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli - 242 472, Uttarakhand	Report No.	AAL ENV-20250607070
Sample Description:	Noise Level Monitoring - Work-zone Noise	Date of Reporting:	14/06/2025
Date of Sampling:	03/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Inside TRT Tunnel	74.2	81.2	78.6
	Standards Limit (As per OSHA, No. - 1910.95)			90 Max.

****End of Report****


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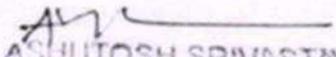
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Sample Description:	Noise Level Monitoring - Work-zone Noise	Date of Reporting:	14/06/2025
Date of Sampling:	03/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Inside MAT Tunnel	72.3	80.8	75.9
	Standards Limit (As per OSHA, No. - 1910.95)			90 Max.

****End of Report****


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Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Noise Level Monitoring – Work-zone Noise

Date of Sampling: 03/06/2025

Report No. AAL ENV-20250607072

Date of Reporting: 14/06/2025

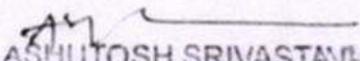
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Inside Ventilation Tunnel	71.7	82.5	77.8
	Standards Limit (As per OSHA, No. - 1910.95)			90 Max.

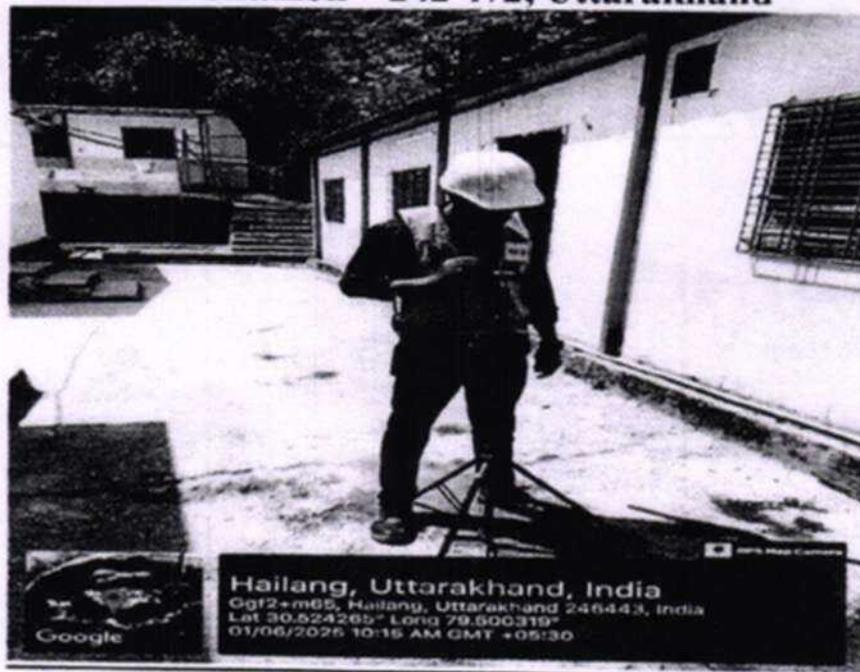
****End of Report****


ASHUTOSH SRIVASTAVA
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Authorised Signatory

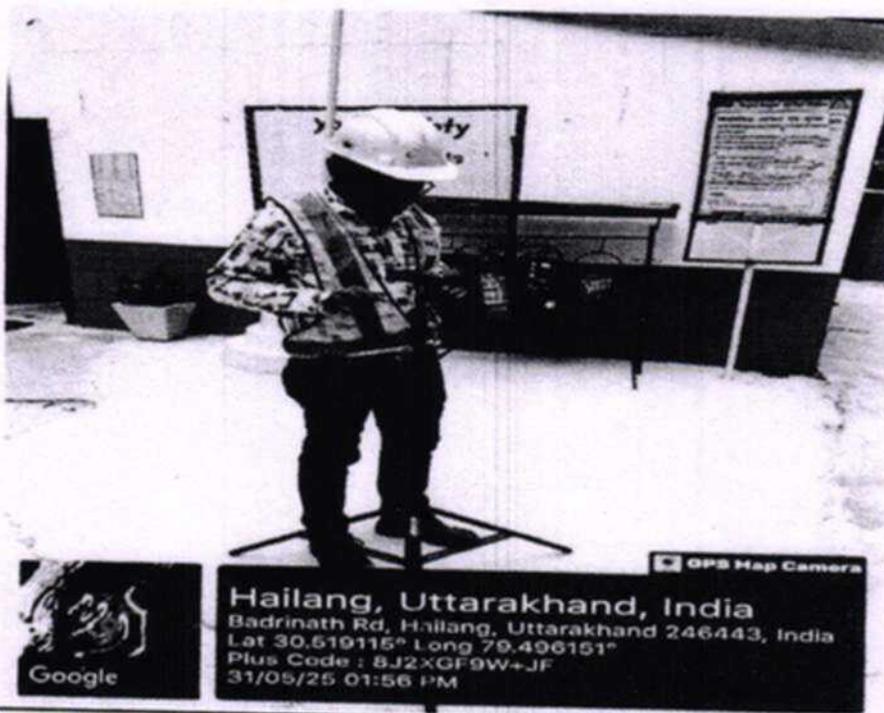
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AMBIENT NOISE



AMBIENT NOISE

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Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 02/06/2025

Report No. AAL ENV-20250607073

Date of Reporting: 14/06/2025

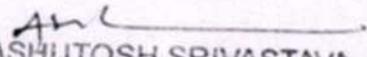
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Siyasin Colony	42.6	53.9	49.2
	Standards Limit (As per CPCB for Residential Area)			55 Max.

****End of Report****


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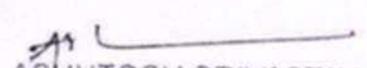
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Sample Description:	Noise Level Monitoring – Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	02/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Haat/Harsari Village	40.1	51.8	47.8
	Standards Limit (As per CPCB for Residential Area)			55 Max.

****End of Report****


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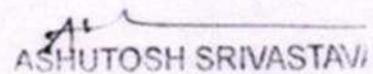
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Sample Description:	Noise Level Monitoring – Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	02/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Near Batula Village	38.9	52.7	47.4
	Standards Limit (As per CPCB for Residential Area)			55 Max.

****End of Report****


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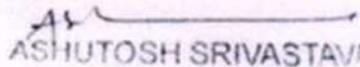
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Sample Description:	Noise Level Monitoring - Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	02/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Work Shop	47.2	69.7	59.4
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 01/06/2025

Report No. AAL ENV-20250607077

Date of Reporting: 14/06/2025

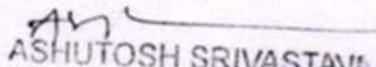
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Near HRT & D C Tunnel	54.6	63.2	59.1
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


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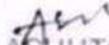
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Sample Description:	Noise Level Monitoring – Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	04/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Near Crusher Area	55.9	61.7	59.4
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


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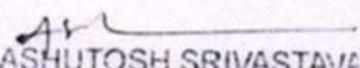
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Sample Description:	Noise Level Monitoring - Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	04/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Near Batching Plant	59.2	72.7	66.4
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


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TEST REPORT

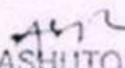
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Sample Description:	Noise Level Monitoring - Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	04/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Boiler Section	58.6	69.2	64.2
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


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TEST REPORT

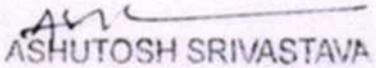
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Sample Description:	Noise Level Monitoring – Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	05/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Main Office (Haat Village)	51.4	66.2	59.9
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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TEST REPORT

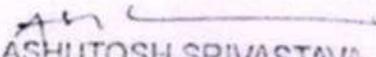
Page 1 of 1

Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli - 242 472, Uttarakhand	Report No.	AAL ENV-20250607082
Sample Description:	Noise Level Monitoring - Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	01/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Near Main Office (Dam Site)	60.2	71.4	66.9
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


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Deputy Technical Manager
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Noise Level Monitoring - Ambient Noise

Date of Sampling: 01/06/2025

Report No. AAL ENV-20250607083

Date of Reporting: 14/06/2025

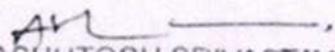
Sampling Duration: 24 Hrs.

Sampling Done By: AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Camp Helong	54.8	70.2	62.9
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


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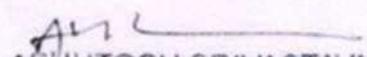
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Sample Description:	Noise Level Monitoring – Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	05/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Main Office (Power House)	53.7	66.8	63.9
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

****End of Report****


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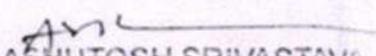
Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli – 242 472, Uttarakhand	Report No.	AAL ENV-20250607085
Sample Description:	Noise Level Monitoring – Ambient Noise	Date of Reporting:	14/06/2025
Date of Sampling:	05/06/2025	Sampling Duration:	24 Hrs.
		Sampling Done By:	AAL

TEST RESULT

S/N	Test Parameters & Unit→	Noise Level - dB(A)		
		Lmin	Lmax	Leq
1	Sampling Location↓ Near Haul Road	54.6	70.9	65.8
	Standards Limit (As per CPCB for Industrial Area)			75 Max.

End of Report

**


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WASTE

WATER

SAMPLES

ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand



Haat, Uttarakhand, India
Ccf9+j9f, Haat, Uttarakhand 246426, India
Lat 30.425038° Long 79.418148°
Plus Code : 8J2XCCG9+27
04/06/2025 12:12 PM

WASTE WATER



Haat, Uttarakhand, India
Ccf9+j9f, Haat, Uttarakhand 246426, India
Lat 30.425038° Long 79.418148°
04/06/2025 11:46 AM GMT +05:30

WASTE WATER

CONDUCTED BY
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Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL WQT-20250607035

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

Sample Description: Waste Water

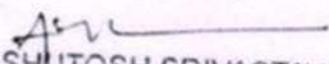
Sample Collection Date: 01/06/2025

Sample Location: Sedimentation Tank – Dam Site

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.60	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	38.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days at 27°C)	mg/l	25.6	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	128.0	250 Max.	IS 3025(P-58)-2023

****End of Report****


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Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 01/06/2025

Sample Location: Batching Plant Dam Site

Report No. AAL WQT-20250607036

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

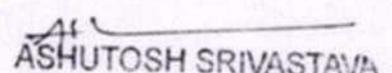
Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL.

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.60	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	24.2	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	16.4	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	82.0	250 Max.	IS 3025(P-58)-2023

****End of Report****


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Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL WQT-20250607037

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

Sample Description: Waste Water

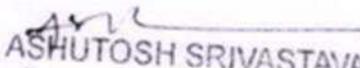
Sample Collection Date: 01/06/2025

Sample Location: D P Mess Outlet Dam Site

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.30	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	32.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days at 27°C)	mg/l	26.4	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	132.0	250 Max.	IS 3025(P-58)-2023

****End of Report****


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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 03/06/2025

Sample Location: Batching Plant Power House

Report No. AAL WQT-20250607038

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

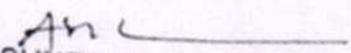
Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.50	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	25.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	17.6	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	88.0	250 Max.	IS 3025(P-58)-2023

****End of Report****


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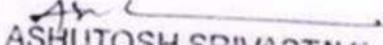
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Sample Description:	Waste Water	Date of Receiving:	07/06/2025
Sample Collection Date:	03/06/2025	Date of Starting:	07/06/2025
Sample Location:	Sedimentation Tank – Power House	Date of Completion:	14/06/2025
		Date of Reporting:	14/06/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.80	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	49.2	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	26.4	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	134.0	250 Max.	IS 3025(P-58)-2023

****End of Report****


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Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL WQT-20250607040

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

Sample Description: Waste Water

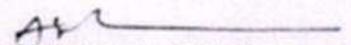
Sample Collection Date: 04/06/2025

Sample Location: WWTP Plant- Inlet

TEST RESULT

S. No.	Test Parameters	Unit	Results	Test Methods
1	Odour	-	Odourful	IS 3025(P-5)-2018
2	pH Value	-	7.32	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	130.0	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	2.9	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	101.0	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	390.0	IS 3025(P-58)-2023

****End of Report****


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Vishnugad Pipal Koti Hydro Electric Project,
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Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 04/06/2025

Sample Location: WWTP Plant - Outlet

Report No. AAL WQT-20250607041

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

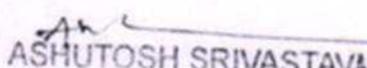
Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.80	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	30.2	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	22.0	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	110.3	250 Max.	IS 3025(P-58)-2023

****End of Report****


ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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TEST REPORT

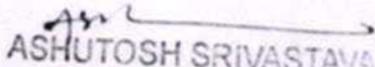
Page 1 of 1

Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli – 242 472, Uttarakhand	Report No.	AAL WQT-20250607042
Sample Description:	Waste Water	Date of Receiving:	07/06/2025
Sample Collection Date:	04/06/2025	Date of Starting:	07/06/2025
Sample Location:	Sedimentation Tank – Near Casting Yard	Date of Completion:	14/06/2025
		Date of Reporting:	14/06/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Plastic Bottle
		Sample Collected By:	AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.56	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	28.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days at 27°C)	mg/l	18.0	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	90.0	250 Max.	IS 3025(P-58)-2023

****End of Report****


ASHUTOSH SRIVASTAVA
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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Report No. AAL WQT-20250607043

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

Sample Description: Waste Water

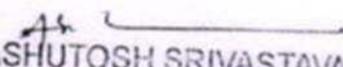
Sample Collection Date: 04/06/2025

Sample Location: Sedimentation Tank - Crusher Plant

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.21	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	33.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 3 days at 27°C)	mg/l	20.2	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	101.3	250 Max.	IS 3025(P-58)-2023

****End of Report****


ASHUTOSH SRIVASTAVA
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Authorised Signatory

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Waste Water

Sample Collection Date: 05/06/2025

Sample Location: D P Mess Outlet Power House

Report No. AAL WQT-20250607044

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

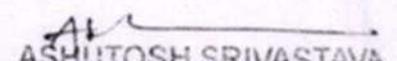
Sample Packing Condition: Plastic Bottle

Sample Collected By: AAL

TEST RESULT

S. No.	Test Parameters	Unit	Results	Limits as per Environment (Protection) Rules, 1986 Schedule-VI General Standards for Discharge Inland Surface Water	Test Methods
1	Odour	-	Odourless	-	IS 3025(P-5)-2018
2	pH Value	-	7.60	5.5 - 9.0	IS 3025(P-11)-2022
3	Total Suspended Solids	mg/l	38.0	100 Max.	IS 3025(P-17)-2022
4	Oil & Grease	mg/l	<2.0	10 Max.	IS 3025(P-39)-2021
5	Biochemical Oxygen Demand (BOD - 5 days at 27°C)	mg/l	27.6	30 Max.	IS 3025(P-44)-2023
6	Chemical Oxygen Demand (COD)	mg/l	138.0	250 Max.	IS 3025(P-58)-2023

****End of Report****


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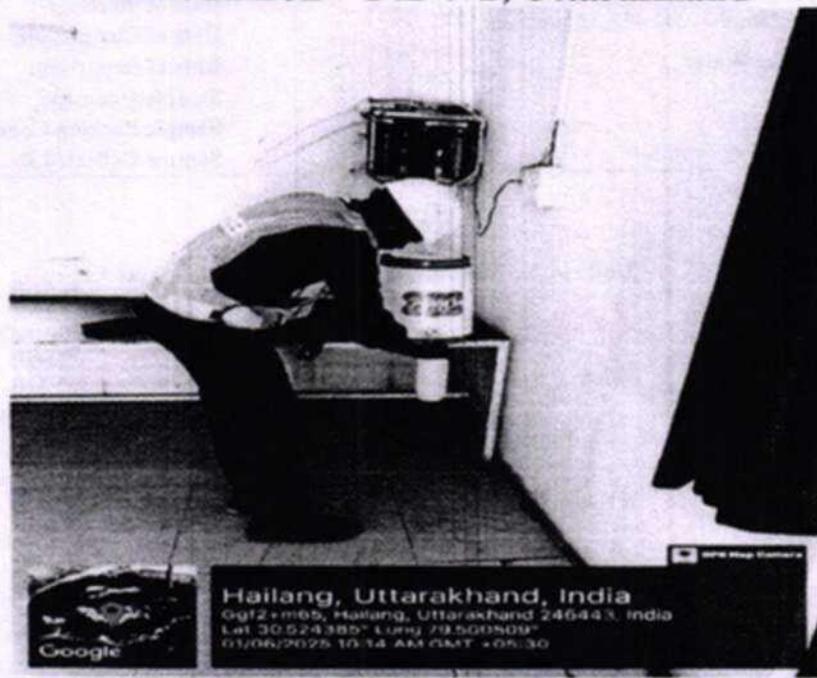
DRINKING

WATER

SAMPLES

ENVIRONMENTAL MONITORING PHOTOGRAPHS SITE

M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand



DRINKING WATER



DRINKING WATER

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Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli – 242 472, Uttarakhand	Report No.	AAL WQT-20250607029
Sample Description:	Drinking Water	Date of Receiving:	07/06/2025
Sample Collection Date:	01/06/2025	Date of Starting:	07/06/2025
Sample Location:	Near Office Dam Site	Date of Completion:	14/06/2025
		Date of Reporting:	14/06/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Sterilized Bottle
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	7.49	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	170.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (0.00-0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (0.00-0.5)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as MBAS)	mg/l	BLQ (0.00-0.1)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (0.00-0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (0.00-0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	18.0	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	15.0	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (0.00-0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	6.8	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (0.00-0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as CaCO ₃)	mg/l	BLQ (0.00-0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	4.2	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	65.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	72.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (0.00-0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (0.00-0.005)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (0.00-0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (0.00-0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (0.00-0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli - 242 472, Uttarakhand

Sample Description: Drinking Water

Sample Collection Date: 01/06/2025

Sample Location: Dam Site Mess (B-2)

Report No. AAL WQT-20250607030

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sterilized Bottle

Sample Collected By: AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	7.56	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	150.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (0.00-0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (0.00-0.5)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as MBAS)	mg/l	BLQ (0.00-0.1)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (0.00-0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (0.00-0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	18.0	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	16.0	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (0.00-0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	6.8	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (0.00-0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as C ₁₂ H ₁₀ O)	mg/l	BLQ (0.00-0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	2.8	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	63.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	69.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (0.00-0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (0.00-0.003)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (0.00-0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (0.00-0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (0.00-0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

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TEST REPORT

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Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli – 242 472, Uttarakhand	Report No.	AAL WQT-20250607031
Sample Description:	Drinking Water	Date of Receiving:	07/06/2025
Sample Collection Date:	02/06/2025	Date of Starting:	07/06/2025
Sample Location:	Mess Power House	Date of Completion:	14/06/2025
		Date of Reporting:	14/06/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Sterilized Bottle
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	7.40	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	175.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (LOQ=0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (LOQ=0.5)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as MBAS)	mg/l	BLQ (LOQ=0.1)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (LOQ=0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (LOQ=0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	18.0	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	17.2	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (LOQ=0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	8.8	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (LOQ=0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as CaCO ₃)	mg/l	BLQ (LOQ=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	5.9	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	69.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	78.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (LOQ=0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (LOQ=0.001)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (LOQ=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (LOQ=0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (LOQ=0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

****End of Report****

Vijay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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Website : www.aalkundli.com

TEST REPORT

Page 1 of 1

Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli - 242 472, Uttarakhand	Report No.	AAL WQT-20250607032
Sample Description:	Drinking Water	Date of Receiving:	07/06/2025
Sample Collection Date:	02/06/2025	Date of Starting:	07/06/2025
Sample Location:	PRWA Camp (Batula-2)	Date of Completion:	14/06/2025
		Date of Reporting:	14/06/2025
		Sample Quantity:	5 Litre
		Sample Packing Condition:	Sterilized Bottle
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	7.20	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	158.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (LOQ=0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (LOQ=0.5)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as MBAS)	mg/l	BLQ (LOQ=0.1)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (LOQ=0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (LOQ=0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	17.2	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	12.4	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (LOQ=0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	5.8	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (LOQ=0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as CaLOR)	mg/l	BLQ (LOQ=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	2.4	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	67.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	72.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (LOQ=0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (LOQ=0.001)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (LOQ=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (LOQ=0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (LOQ=0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To: M/s Hindustan Construction Co. Ltd.
Vishnugad Pipal Koti Hydro Electric Project,
Mayapur, PO-Mayapur (Pipal Koti)
Dist. Chamoli – 242 472, Uttarakhand

Sample Description: Drinking Water

Sample Collection Date: 06/06/2025

Sample Location: Office Pantry Power House

Report No. AAL WQT-20250607033

Date of Receiving: 07/06/2025

Date of Starting: 07/06/2025

Date of Completion: 14/06/2025

Date of Reporting: 14/06/2025

Sample Quantity: 2 Litre

Sample Packing Condition: Sterilized Bottle

Sample Collected By: AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	6.84	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	123.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (LOQ=0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (LOQ=0.5)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as MBAS)	mg/l	BLQ (LOQ=0.1)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (LOQ=0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (LOQ=0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	8.2	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	9.8	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (LOQ=0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	7.1	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (LOQ=0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as C ₁₂ H ₁₀ O)	mg/l	BLQ (LOQ=0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	1.9	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	56.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	58.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (LOQ=0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (LOQ=0.001)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (LOQ=0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (LOQ=0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (LOQ=0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (LOQ=0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

ASHUTOSH SRIVASTAVA
Deputy Technical Manager
Authorised Signatory

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TEST REPORT

Page 1 of 1

Issued To:	M/s Hindustan Construction Co. Ltd. Vishnugad Pipal Koti Hydro Electric Project, Mayapur, PO-Mayapur (Pipal Koti) Dist. Chamoli - 242 472, Uttarakhand	Report No.	AAL WQT-20250607034
Sample Description:	Drinking Water	Date of Receiving:	07/06/2025
Sample Collection Date:	06/06/2025	Date of Starting:	07/06/2025
Sample Location:	DP Mess Power House	Date of Completion:	14/06/2025
		Date of Reporting:	14/06/2025
		Sample Quantity:	2 Litre
		Sample Packing Condition:	Sterilized Bottle
		Sample Collected By:	AAL

TEST RESULTS

S. No.	Test Parameters	Unit	Results	Requirements As per IS: 10500-2012		Test Methods
				Acceptable Limit	Permissible Limit	
1	Colour	Hazen	<5.0	5 Max.	15 Max.	IS 3025(P-4)-2021
2	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(P-5)-2018
3	pH Value	-	7.32	6.5-8.5	No relaxation	IS 3025(P-11)-2022
4	Taste	-	Agreeable	Agreeable	Agreeable	IS 3025(P-8)-2023
5	Turbidity	NTU	<1.0	1 Max.	5 Max.	IS 3025(P-10)-2023
6	Total Dissolved Solids	mg/l	178.0	500 Max.	2000 Max.	IS 3025(P-16)-2023
7	Aluminium (as Al)	mg/l	BLQ (0.00-0.01)	0.03 Max.	0.2 Max.	IS 3025(P-2)-2019
8	Ammonia (as total ammonia-N)	mg/l	BLQ (0.00-0.5)	0.5 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
9	Anionic Detergent (as MBAS)	mg/l	BLQ (0.00-0.1)	0.2 Max.	1.0 Max.	APHA 5540 C 24 th Ed-2023
10	Barium (as Ba)	mg/l	BLQ (0.00-0.01)	0.7 Max.	No relaxation	IS 3025(P-2)-2019
11	Boron (as B)	mg/l	BLQ (0.00-0.01)	0.5 Max.	2.4 Max.	IS 3025(P-2)-2019
12	Calcium (as Ca)	mg/l	15.6	75 Max.	200 Max.	IS 3025(P-2)-2019
13	Chlorides (as Cl)	mg/l	13.8	250 Max.	1000 Max.	IS 3025(P-32)-1988
14	Copper (as Cu)	mg/l	BLQ (0.00-0.01)	0.05 Max.	1.5 Max.	IS 3025(P-2)-2019
15	Fluoride (as F)	mg/l	<0.1	1 Max.	1.5 Max.	APHA 4500 F D 24 th Ed-2023
16	Iron (as Fe)	mg/l	<0.1	1.0 Max.	No relaxation	IS 3025(P-2)-2019
17	Magnesium (as Mg)	mg/l	8.6	30 Max.	100 Max.	IS 3025(P-2)-2019
18	Manganese (as Mn)	mg/l	BLQ (0.00-0.01)	0.1 Max.	0.3 Max.	IS 3025(P-2)-2019
19	Nitrate (as NO ₃)	mg/l	<1.0	45 Max.	No relaxation	IS 3025(P-34/Sec-1)-2023
20	Phenolic Compound (as CaCO ₃)	mg/l	BLQ (0.00-0.001)	0.001 Max.	0.002 Max.	IS 3025(P-43/Sec-1)-2022
21	Selenium (as Se)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-56)-2003
22	Sulphate (as SO ₄)	mg/l	2.2	200 Max.	400 Max.	IS 3025(P-24/Sec-1)-2022
23	Total Alkalinity (as CaCO ₃)	mg/l	58.0	200 Max.	600 Max.	IS 3025(P-23)-2023
24	Total Hardness (as CaCO ₃)	mg/l	60.0	200 Max.	600 Max.	IS 3025(P-21)-2009
25	Zinc (as Zn)	mg/l	BLQ (0.00-0.01)	5 Max.	15 Max.	IS 3025(P-2)-2019
26	Cadmium (as Cd)	mg/l	BLQ (0.00-0.001)	0.003 Max.	No relaxation	IS 3025(P-2)-2019
27	Lead (as Pb)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
28	Nickel (Ni)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-2)-2019
29	Mercury (as Hg)	mg/l	BLQ (0.00-0.001)	0.001 Max.	No relaxation	IS 3025(P-48)-1994
30	Molybdenum (as Mo)	mg/l	BLQ (0.00-0.01)	0.07 Max.	No relaxation	IS 3025(P-2)-2019
31	Total Arsenic (as As)	mg/l	BLQ (0.00-0.01)	0.01 Max.	No relaxation	IS 3025(P-37)-2022
32	Total Chromium (as Cr)	mg/l	BLQ (0.00-0.01)	0.05 Max.	No relaxation	IS 3025(P-2)-2019
33	E. Coli	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016
34	Total Coliform	Per 100ml	Absent	Shall not be detectable in any 100 ml sample		IS 15185-2016

BLQ-Below Limit of Quantification, LOQ-Limit of Quantification

****End of Report****

Vinay Dixit
(Microbiologist)

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रानीपुर, हरिद्वार -249403 (उत्तराखण्ड)
Bharat Heavy Electricals Limited
Pollution Control Research Institute
Ranipur, Haridwar - 249 403, Uttarakhand, India
Phone: 01334 -284029
E-mail: avinash_k@bhel.in; msachan@bhel.in;



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संदर्भ संख्या: हरि:प्र.नि.अनु.सं: 2569
दिनांक: 29.07.2025

M/s DGM(Mech.)
THDC India Ltd., Chamoli
Vishnugad Pipalkoti
Hydro Electric Project Pipalkoti
CHAMOLI-246472
Uttarakhand

विषय: टेस्ट रिपोर्ट के संदर्भ में

संदर्भ: आपके पत्र की संदर्भ संख्या : THDCIL/VPHEP/Envt./F-37/84 दिनांक: 18.07.2024
प्र.नि.अनु.सं. के पत्र की संदर्भ संख्या/ ई. मेल/ वर्क आर्डर सं: 24-0074-O-691

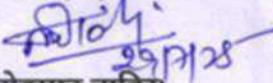
महोदय,

उपरोक्त विषयांक एवं संदर्भ संख्या में किये गये कार्य जल परीक्षण की की टेस्ट रिपोर्ट सं. TL250187 to TL250190 दिनांक:23.07.2025 और PCRI:Air&Noise:2025-26:0083 to 0094 दिनांक: 23.07.2025 और इसके साथ किये गये कार्य की इन्वॉयस संख्या: PCAT2500015 दिनांक: 28.07.2025 को भी प्राप्त करें जो कि इस पत्र के साथ आवश्यक कार्यवाही हेतु संलग्न है।

अतः आप से विनम्र अनुरोध है कि उपरोक्त इन्वॉयस संख्या से सम्बंधित भुगतान को अति शीघ्र कराने की कृपा।

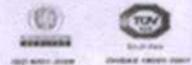
धन्यवाद,

भवदीय,


(मोहम्मद ताहिर)

अभियंता

प्रदूषण नियंत्रण अनुसंधान संस्थान
भेल हरिद्वार, उत्तराखण्ड





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POLLUTION CONTROL RESEARCH INSTITUTE

(A Govt. of India - UNDP / UNIDO Project)
BHARAT HEAVY ELECTRICALS LIMITED
RANIPUR, HARIDWAR (U.K.) - 249 403

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultancy by NABET, QCI)

TEST REPORT
AMBIENT AIR MONITORING

Lab. Ref.: PCRI: Air & Noise: 2025-26 :0083

Date: 23-07-2025

A. GENERAL INFORMATION:

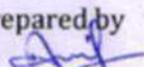
1.	Name and address of Plant	:	M/s THDC India Ltd, Vishnugad Pipalkoti Hydro Electric Project, District-Chamoli (Uttarakhand)
2.	Work Order No.	:	24-0074-O-691
3.	Date of sampling	:	25.06.2025 to 26.06.2025
4.	Location of Sampling	:	Batching Plant DAM
5.	Method of Sampling	:	IS:5182 (Part-II-2001, Part-23-2006, Part-VI-2006), FID, NDIR & Gas Detection System, IS-5182 (Part-9), AAS, PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, BHEL, Ranipur, Haridwar-249403 (UK)

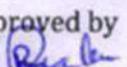
B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	NAAQ Standards*
1.	Particulate Matter less than 10 μm or PM_{10}	$\mu\text{g}/\text{m}^3$	65	100
2.	Particulate Matter less than 2.5 μm or $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	31	60
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	BDL	80
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	8	80
5.	Carbon Monoxide (CO)	mg/m^3	BDL	4
6.	Lead (Pb)	$\mu\text{g}/\text{m}^3$	BDL	1
7.	Ammonia (NH_3)	$\mu\text{g}/\text{m}^3$	BDL	400
8.	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	45	180
9.	Benzene (C_6H_6)	$\mu\text{g}/\text{m}^3$	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m^3	BDL	1
11.	Arsenic (As)	ng/m^3	BDL	6
12.	Nickel (Ni)	ng/m^3	BDL	20

BDL: Below Detectable Limit,

*: National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009 for Industrial, Residential and Rural Areas

Prepared by

Anil Kumar Yadav
Manager (PCRI)

Approved by

R S Yadav
Manager (PCRI)

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(Approved Lab under Environment (Protection) Act, 1986; EIA Consultancy by NABET, QCI)

TEST REPORT
AMBIENT AIR MONITORING

Lab. Ref.: PCRI: Air & Noise: 2025-26 :0084

Date: 23-07-2025

A. GENERAL INFORMATION:

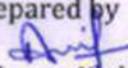
1.	Name and address of Plant	:	M/s THDC India Ltd, Vishnugad Pipalkoti Hydro Electric Project, District-Chamoli (Uttarakhand)
2.	Work Order No.	:	24-0074-0-691
3.	Date of sampling	:	26.06.2025 to 27.06.2025
4.	Location of Sampling	:	Batching Plant -Power House (PH)
5.	Method of Sampling	:	IS:5182 (Part-II-2001, Part-23-2006, Part-VI-2006), FID, NDIR & Gas Detection System, IS-5182 (Part-9), AAS, PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, BHEL, Ranipur, Haridwar-249403 (UK)

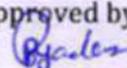
B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	NAAQ Standards*
1.	Particulate Matter less than 10 μm or PM ₁₀	$\mu\text{g}/\text{m}^3$	63	100
2.	Particulate Matter less than 2.5 μm or PM _{2.5}	$\mu\text{g}/\text{m}^3$	30	60
3.	Sulphur Dioxide (SO ₂)	$\mu\text{g}/\text{m}^3$	BDL	80
4.	Nitrogen Dioxide (NO ₂)	$\mu\text{g}/\text{m}^3$	7	80
5.	Carbon Monoxide (CO)	mg/m^3	BDL	4
6.	Lead (Pb)	$\mu\text{g}/\text{m}^3$	BDL	1
7.	Ammonia (NH ₃)	$\mu\text{g}/\text{m}^3$	BDL	400
8.	Ozone (O ₃)	$\mu\text{g}/\text{m}^3$	43	180
9.	Benzene (C ₆ H ₆)	$\mu\text{g}/\text{m}^3$	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m^3	BDL	1
11.	Arsenic (As)	ng/m^3	BDL	6
12.	Nickel (Ni)	ng/m^3	BDL	20

BDL: Below Detectable Limit,

*: National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009 for Industrial, Residential and Rural Areas

Prepared by

Anil Kumar Yadav
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Approved by

R S Yadav
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TEST REPORT
AMBIENT AIR MONITORING

Lab. Ref.: PCRI: Air & Noise: 2025-26 :0085

Date: 23-07-2025

A. GENERAL INFORMATION:

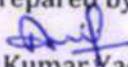
1.	Name and address of Plant	:	M/s THDC India Ltd, Vishnugad Pipalkoti Hydro Electric Project, District-Chamoli (Uttarakhand)
2.	Work Order No.	:	24-0074-0-691
3.	Date of sampling	:	25.06.2025 to 26.06.2025
4.	Location of Sampling	:	Dam site Fabrication Yard
5.	Method of Sampling	:	IS:5182 (Part-II-2001, Part-23-2006, Part-VI-2006), FID, NDIR & Gas Detection System, IS-5182 (Part-9), AAS, PM2.5 Sampler
6.	Duration of Sampling	:	24 Hours
7.	Sample collection by	:	PCRI, BHEL, Ranipur, Haridwar-249403 (UK)

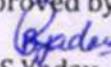
B. RESULTS OF AMBIENT AIR MONITORING:

Sl. No.	Parameter	Unit	Obtained Value	NAAQ Standards*
1.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	68	100
2.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	31	60
3.	Sulphur Dioxide (SO ₂)	µg/m ³	BDL	80
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	8	80
5.	Carbon Monoxide (CO)	mg/m ³	BDL	4
6.	Lead (Pb)	µg/m ³	BDL	1
7.	Ammonia (NH ₃)	µg/m ³	BDL	400
8.	Ozone (O ₃)	µg/m ³	45	180
9.	Benzene (C ₆ H ₆)	µg/m ³	BDL	5
10.	Benzo(a)pyrene (BaP)	ng/m ³	BDL	1
11.	Arsenic (As)	ng/m ³	BDL	6
12.	Nickel (Ni)	ng/m ³	BDL	20

BDL: Below Detectable Limit,

*: National Ambient Air Quality Standards as per CPCB Notification N. Delhi, the 18 Nov. 2009 for Industrial, Residential and Rural Areas

Prepared by

Anil Kumar Yadav
Manager (PCRI)

Approved by

R S Yadav
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TEST REPORT
INDOOR AIR MONITORING

Lab. Ref.: PCRI: Air & Noise: 2025-26 :0086
Date: 23-07-2025

A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s THDC India Ltd, Vishnugad Pipalkoti Hydro Electric Project, District-Chamoli (Uttarakhand)
2.	Work Order No.	:	24-0074-O-691
3.	Date of sampling	:	25.06.2025
4.	Location of Sampling point	:	Fabrication Workshop at DAM site
5.	Method of Sampling	:	IS:5182 (Part-II-2001, Part-23-2006, Part-VI-2006), FID, NDIR & Gas Detection System, IS-5182 (Part-9)
6.	Duration of Sampling	:	8 Hours
7.	Sample collection by	:	PCRI, BHEL, Ranipur, Haridwar-249403 (UK)

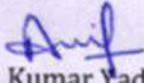
B. RESULTS OF WORKPLACE AIR MONITORING:

Sl.No.	Parameter	Unit	Obtained Value	Adopted Values TLV-TWA (ACGIH)*
1.	Particulate Matter less than 10 µm or PM ₁₀	µg/m ³	61	-
2.	Particulate Matter less than 2.5 µm or PM _{2.5}	µg/m ³	30	-
3.	Sulphur Dioxide (SO ₂)	mg/m ³	BDL	5.2
4.	Nitrogen Dioxide (NO ₂)	mg/m ³	0.012	5.6
5.	Carbon Monoxide (CO)	ppm	7	25
6.	Carbon Dioxide (CO ₂)	ppm	379	5000
7.	Hydro Carbons (HC)	ppm	BDL	-
8.	Acid Mist	mg/m ³	BDL	-

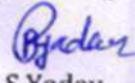
BDL: Below Detectable Limit

TLV-TWA (ACGIH): Threshold limit Value-Time Weighted Average (ACGIH)

Prepared by


Anil Kumar Yadav
Manager (PCRI)

Approved by


R S Yadav
Manager (PCRI)

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TEST REPORT
INDOOR AIR MONITORING

Lab. Ref.: PCRI: Air & Noise: 2025-26 :0087
Date: 23-07-2025

A. GENERAL INFORMATION:

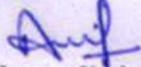
1.	Name and address of Plant	:	M/s THDC India Ltd, Vishnugad Pipalkoti Hydro Electric Project, District-Chamoli (Uttarakhand)
2.	Work Order No.	:	24-0074-O-691
3.	Date of sampling	:	27.06.2025
4.	Location of Sampling point	:	Fabrication Workshop at PH site
5.	Method of Sampling	:	IS:5182 (Part-II-2001, Part-23-2006, Part-VI-2006), FID, NDIR & Gas Detection System, IS-5182 (Part-9)
6.	Duration of Sampling	:	8 Hours
7.	Sample collection by	:	PCRI, BHEL, Ranipur, Haridwar-249403 (UK)

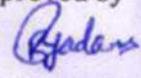
B. RESULTS OF WORKPLACE AIR MONITORING:

Sl.No.	Parameter	Unit	Obtained Value	Adopted Values TLV-TWA (ACGIH)*
1.	Particulate Matter less than 10 μm or PM_{10}	$\mu\text{g}/\text{m}^3$	64	-
2.	Particulate Matter less than 2.5 μm or $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	29	-
3.	Sulphur Dioxide (SO_2)	mg/m^3	BDL	5.2
4.	Nitrogen Dioxide (NO_2)	mg/m^3	0.011	5.6
5.	Carbon Monoxide (CO)	ppm	8	25
6.	Carbon Dioxide (CO_2)	ppm	375	5000
7.	Hydro Carbons (HC)	ppm	BDL	-
8.	Acid Mist	mg/m^3	BDL	-

BDL: Below Detectable Limit

*TLV-TWA (ACGIH): Threshold limit Value-Time Weighted Average (ACGIH)

Prepared by

Anil Kumar Yadav
Manager (PCRI)

Approved by

R S Yadav
Manager (PCRI)

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TEST REPORT
WORKPLACE AIR MONITORING

Lab. Ref.: PCRI: Air & Noise: 2025-26 :0088
Date: 23-07-2025

A. GENERAL INFORMATION:

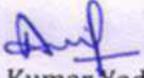
1.	Name and address of Plant	:	M/s THDC India Ltd, Vishnugad Pipalkoti Hydro Electric Project, District-Chamoli (Uttarakhand)
2.	Work Order No.	:	24-0074-O-691
3.	Date of sampling	:	25.06.2025
4.	Location of Sampling point	:	Irritant Gases from UPS Batteries Room -Near Finance Office
5.	Method of Sampling	:	Workplace Sampler and Gas Detection System
6.	Duration of Sampling	:	8 Hours
7.	Sample collection by	:	PCRI, BHEL, Ranipur, Haridwar-249403 (UK)

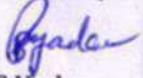
B. RESULTS OF WORKPLACE AIR MONITORING:

Sl.No.	Parameter	Unit	Obtained Value	Adopted Values TLV-TWA (ACGIH)*
1.	Hydrogen Sulphide	ppm	0.13	1
2.	Metallic fumes (Pb)	mg/m ³	BDL	0.05
3.	Ammonia	ppm	BDL	25
4.	Acid Mist	mg/m ³	BDL	-

BDL: Below Detectable Limit

*TLV-TWA (ACGIH): Threshold limit Value-Time Weighted Average (ACGIH)

Prepared by

Anil Kumar Yadav
Manager (PCRI)

Approved by

R S Yadav
Manager (PCRI)

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PCRI/051

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भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखंड)

POLLUTION CONTROL RESEARCH INSTITUTE

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BHARAT HEAVY ELECTRICALS LIMITED

RANIPUR, HARIDWAR (U.K.) - 249 403

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultancy by NABET, QCI)

TEST REPORT

Lab Reference No: TL250188 **Date :** 23.07.2025
Indentor THDC India Ltd., Vishnugad Pipalkoti Hydro Electric Project,
Alaknanda Puram, Siyasain, Pipalkoti, Chamoli (Uttarakhand)
Customer's Ref. No.: THDCIL/VPHEP/Env. /F-37/84 Dated:18.07.2024
Work Order No.: 24-0074-O-691
Sample Collected by: PCRI Staff **Collection Date:** 28.06.2025
Sample/Job: River Water Sample from 3 Km D/s of TRT Outlet

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS (IS 10500:2012)	
			Acceptable	Permissible
Alkalinity	mg/L	64	200	600
Aluminium (as Al)	mg/L	ND	0.03	0.2
Ammonia (as Total Ammonia – N)	mg/L	0.42	0.5	NR
Arsenic (as As)	mg/L	ND	0.01	0.05
Barium	mg/L	ND	0.7	NR
BOD at 27°C	mg/L	1.2	-	-
Boron (as B)	mg/L	ND	0.5	1.0
Cadmium (as Cd)	mg/L	0.008	0.003	NR
Calcium (as Ca)	mg/L	18.44	75	200
Chloride (as Cl)	mg/L	7	250	1000
Chromium Total (as Cr)	mg/L	ND	0.05	NR
Colour	Hazen	84	5	15
Copper (as Cu)	mg/L	0.01	0.05	1.5
Dissolved Oxygen (DO)	mg/L	8.1	-	-
Fluoride (as F)	mg/L	0.38	1.0	1.5
Hardness (as CaCO ₃)	mg/L	72	200	600
Iron (as Fe)	mg/L	2.22	0.3	NR
Lead (as Pb)	mg/L	0.05	0.01	NR
Magnesium (as Mg)	mg/L	6.30	30	100
Manganese (as Mn)	mg/L	0.11	0.1	0.3
Mercury (as Hg)	mg/L	ND	0.001	NR

Contd..2

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PCRI/051

प्रदूषण नियंत्रण अनुसंधान संस्थान
भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखंड)
POLLUTION CONTROL RESEARCH INSTITUTE
(A Govt. of India - UNDP / UNIDO Project)
BHARAT HEAVY ELECTRICALS LIMITED
RANIPUR, HARIDWAR (U.K.) - 249 403

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultancy by NABET, QCI)

TEST REPORT

-Page 2-

Lab Reference No:

TL250188

Date : 23.07.2025

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS (IS 10500:2012)	
			Acceptable	Permissible
Mineral Oil (as Oil & Grease)	mg/L	ND	0.5	NR
Nickel (as Ni)	mg/L	0.01	0.02	NR
Nitrate (as NO ₃)	mg/L	2.44	45	NR
Odour	-	Agreeable	Agreeable	NR
pH	-	8.51	6.5-8.5	NR
Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	ND	0.001	0.002
Selenium (as Se)	mg/L	ND	0.01	NR
Silver (as Ag)	mg/L	ND	0.1	NR
Sulphate (as SO ₄)	mg/L	8.80	200	400
Sulphide (as S)	mg/L	1.6	0.05	NR
Total Coliform	MPN/100 mL	15	Absent	NR
Total Dissolved Solids	mg/L	78	500	2000
Total Residual Chlorine	mg/L	0.13	0.2	1.0
Total Suspended Solids	mg/L	13091	-	-
Turbidity	NTU	281	1	5
Zinc (as Zn)	mg/L	1.36	5	15

ND - Not Detectable

NR - No Relaxation

Prepared by

Ankur Mohan
Sr. Engineer (PCRI)

Approved by

Shivam Saran
Manager (PCRI)

- Remarks :-
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PCRI/051

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RANIPUR, HARIDWAR (U.K.) - 249 403

(Approved Lab under Environment (Protection) Act, 1986; EIA Consultancy by NABET, QCI)

TEST REPORT

Lab Reference No: TL250189 **Date:** 23.07.2025
Indentor: THDC India Ltd., Vishnugad Pipalkoti Hydro Electric Project,
Alaknanda Puram, Siyasain, Pipalkoti, Chamoli (Uttarakhand)
Customer's Ref. No.: THDCIL/VPHEP/Envnt. /F-37/84 Dated:18.07.2024
Work Order No.: 24-0074-O-691
Sample Collected by: PCRI Staff **Collection Date:** 25.06.2025
Sample/Job: River Water Sample from 1 Km U/s of Dam

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS (IS 10500:2012)	
			Acceptable	Permissible
Alkalinity	mg/L	60	200	600
Aluminium (as Al)	mg/L	ND	0.03	0.2
Ammonia (as Total Ammonia - N)	mg/L	0.39	0.5	NR
Arsenic (as As)	mg/L	ND	0.01	0.05
Barium	mg/L	ND	0.7	NR
BOD at 27°C	mg/L	1.4	-	-
Boron (as B)	mg/L	ND	0.5	1.0
Cadmium (as Cd)	mg/L	0.009	0.003	NR
Calcium (as Ca)	mg/L	16.83	75	200
Chloride (as Cl)	mg/L	6	250	1000
Chromium Total (as Cr)	mg/L	ND	0.05	NR
Colour	Hazen	57	5	15
Copper (as Cu)	mg/L	0.01	0.05	1.5
Dissolved Oxygen (DO)	mg/L	7.6	-	-
Fluoride (as F)	mg/L	0.23	1.0	1.5
Hardness (as CaCO ₃)	mg/L	72	200	600
Iron (as Fe)	mg/L	1.50	0.3	NR
Lead (as Pb)	mg/L	0.04	0.01	NR
Magnesium (as Mg)	mg/L	7.28	30	100
Manganese (as Mn)	mg/L	0.12	0.1	0.3
Mercury (as Hg)	mg/L	ND	0.001	NR

Contd..2

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PCRI/051

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TEST REPORT

-Page 2-

Lab Reference No:

TL250189

Date : 23.07.2025

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS (IS 10500:2012)	
			Acceptable	Permissible
Mineral Oil (as Oil & Grease)	mg/L	ND	0.5	NR
Nickel (as Ni)	mg/L	0.01	0.02	NR
Nitrate (as NO ₃)	mg/L	2.30	45	NR
Odour	-	Agreeable	Agreeable	NR
pH	-	8.55	6.5-8.5	NR
Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	ND	0.001	0.002
Selenium (as Se)	mg/L	ND	0.01	NR
Silver (as Ag)	mg/L	ND	0.1	NR
Sulphate (as SO ₄)	mg/L	10.04	200	400
Sulphide (as S)	mg/L	1.6	0.05	NR
Total Coliform	MPN/100 mL	8	Absent	NR
Total Dissolved Solids	mg/L	80	500	2000
Total Residual Chlorine	mg/L	0.12	0.2	1.0
Total Suspended Solids	mg/L	13705	-	-
Turbidity	NTU	294	1	5
Zinc (as Zn)	mg/L	1.37	5	15

ND - Not Detectable

NR - No Relaxation

Prepared by

Ankur Mohan
Sr. Engineer (PCRI)

Approved by

Shivam Saran
Manager (PCRI)

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RANIPUR, HARIDWAR (U.K.) - 249 403

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TEST REPORT

Lab Reference No: TL250190 **Date:** 23.07.2025
Indentor: THDC India Ltd., Vishnugad Pipalkoti Hydro Electric Project,
Alaknanda Puram, Siyasain, Pipalkoti, Chamoli (Uttarakhand)
Customer's Ref. No.: THDCIL/VPHEP/Env. /F-037/84 Dated:18.07.2024
Work Order No.: 24-0074-O-691
Sample Collected by: PCRI Staff **Collection Date:** 26.06.2025
Sample/Job: River Water Sample Between Dam & Power House Site

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS (IS 10500:2012)	
			Acceptable	Permissible
Alkalinity	mg/L	60	200	600
Aluminium (as Al)	mg/L	ND	0.03	0.2
Ammonia (as Total Ammonia - N)	mg/L	0.42	0.5	NR
Arsenic (as As)	mg/L	ND	0.01	0.05
Barium	mg/L	ND	0.7	NR
BOD at 27°C	mg/L	0.8	-	-
Boron (as B)	mg/L	ND	0.5	1.0
Cadmium (as Cd)	mg/L	0.006	0.003	NR
Calcium (as Ca)	mg/L	15.23	75	200
Chloride (as Cl)	mg/L	8	250	1000
Chromium Total (as Cr)	mg/L	ND	0.05	NR
Colour	Hazen	45	5	15
Copper (as Cu)	mg/L	ND	0.05	1.5
Dissolved Oxygen (DO)	mg/L	6.5	-	-
Fluoride (as F)	mg/L	0.47	1.0	1.5
Hardness (as CaCO ₃)	mg/L	70	200	600
Iron (as Fe)	mg/L	1.03	0.3	NR
Lead (as Pb)	mg/L	0.02	0.01	NR
Magnesium (as Mg)	mg/L	7.76	30	100
Manganese (as Mn)	mg/L	0.05	0.1	0.3
Mercury (as Hg)	mg/L	ND	0.001	NR

Contd..2

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TEST REPORT

-Page 2-

Lab Reference No:

TL250190

Date : 23.07.2025

PARAMETER	UNIT	OBTAINED VALUE	STANDARD LIMITS (IS 10500:2012)	
			Acceptable	Permissible
Mineral Oil (as Oil & Grease)	mg/L	ND	0.5	NR
Nickel (as Ni)	mg/L	0.01	0.02	NR
Nitrate (as NO ₃)	mg/L	2.70	45	NR
Odour	-	Agreeable	Agreeable	NR
pH	-	8.43	6.5-8.5	NR
Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	ND	0.001	0.002
Selenium (as Se)	mg/L	ND	0.01	NR
Silver (as Ag)	mg/L	ND	0.1	NR
Sulphate (as SO ₄)	mg/L	10.68	200	400
Sulphide (as S)	mg/L	0.8	0.05	NR
Total Coliform	MPN/100 mL	11	Absent	NR
Total Dissolved Solids	mg/L	84	500	2000
Total Residual Chlorine	mg/L	0.07	0.2	1.0
Total Suspended Solids	mg/L	9696	-	-
Turbidity	NTU	310	1	5
Zinc (as Zn)	mg/L	0.56	5	15

ND - Not Detectable

NR - No Relaxation

Prepared by

Ankur Mohan
Sr. Engineer (PCRI)

Approved by

Shivam Saran
Manager (PCRI)

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Daily Quaterly AQMS Data (From Sep. 2025)

Date & Time	PM 2.5	PM 10	CO	O3	NO2	SO2	A.Q.I	Battery Voltage
DD/MM/YYYY - HH:MM	µg/mtr³	µg/mtr³	PPM	PPM	PPM	PPM		Volts
01/09/ 2024 - 00:00	24	26	0.5	0.02	0.03	0	67	13.2
02/09/ 2024 - 00:00	19	22	0.5	0.02	0.03	0	57	13.1
03/09/ 2024 - 00:00	24	26	0.5	0.02	0.03	0	67	13.2
04/09/ 2024 - 00:00	27	31	0.5	0.02	0.03	0	73	13.2
05/09/ 2024 - 00:00	27	30	0.5	0.03	0.03	0	73	13.2
06/09/ 2024 - 00:00	24	26	0.5	0.04	0.03	0	67	13.2
07/09/ 2024 - 00:00	32	36	0.5	0.02	0.03	0	83	13.1
08/09/ 2024 - 00:00	26	28	0.5	0.02	0.03	0	71	13.1
09/09/ 2024 - 00:00	24	26	0.5	0.02	0.03	0	67	13.1
10/09/ 2024 - 00:00	24	26	0.5	0.02	0.03	0	67	13.1
11/09/ 2024 - 00:00	34	38	0.5	0.02	0.03	0	87	13.1
12/09/ 2024 - 00:00	31	34	0.5	0.02	0.03	0	81	13.1
13/09/ 2024 - 00:00	50	56	0.5	0.02	0.03	0	119	12.9
14/09/ 2024 - 00:00	45	49	0.5	0.02	0.03	0	109	13
15/09/ 2024 - 00:00	35	39	0.5	0.02	0.03	0	89	13
16/09/ 2024 - 00:00	12	14	0.5	0.06	0.03	0	39	13.2
17/09/ 2024 - 00:00	9	9	0.5	0.02	0.03	0	29	13.2
18/09/ 2024 - 00:00	31	34	0.5	0.02	0.03	0	81	13.1
19/09/ 2024 - 00:00	26	29	0.5	0.02	0.03	0	71	13.1
20/09/ 2024 - 00:00	15	16	0.5	0.02	0.03	0	49	13.1
21/09/ 2024 - 00:00	17	18	0.5	0.02	0.03	0	53	13.2
22/09/ 2024 - 00:00	18	21	0.5	0.02	0.03	0	55	13.1
23/09/ 2024 - 00:00	27	30	0.5	0.02	0.03	0	73	13.1
24/09/ 2024 - 00:00	12	14	0.5	0.02	0.03	0	39	13.1
25/09/ 2024 - 00:00	18	19	0.5	0.02	0.03	0	55	13.1

Daily Quaterly AQMS Data (From Sep. 2025)

Date & Time	PM 2.5	PM 10	CO	O3	NO2	SO2	A.Q.I	Battery Voltage
DD/MM/YYYY - HH:MM	µg/mtr³	µg/mtr³	PPM	PPM	PPM	PPM		Volts
26/09/ 2024 - 00:00	15	16	0.5	0.02	0.03	0	49	13.1
27/09/ 2024 - 00:00	17	18	0.5	0.02	0.03	0	53	13.1
28/09/ 2024 - 00:00	30	33	0.5	0.02	0.03	0	79	13.1
29/09/ 2024 - 00:00	20	23	0.5	0.02	0.03	0	59	13.1
30/09/ 2024 - 00:00	31	34	0.5	0.02	0.03	0	81	13.1
31/09/ 2024 - 00:00	18	19	0.5	0.02	0.03	0	55	13.1

VPHEP Equipemet list (April to Septemeber 2025)		
Sr.No	Equipment	Object Description
1	A0500291	500 Kva Diesel Generating Set
2	A0500306	75 Kva Diesel Generating Set P
3	A0500376	75 Kva Diesel Generating Set P
4	A0500404	500 Kva Diesel Generating Set
5	A0500417	30 Kva Diesel Generating Set P
6	A0500426	15 Kva Diesel Generating Set P
7	A0500443	30 Kva Diesel Generating Set S
8	A0500446	30 Kva Diesel Generating Set S
9	A0500485	500 Kva Diesel Generating Set
10	A0500486	500 Kva Diesel Generating Set
11	A0500520	500 Kva Diesel Generating Set
12	A0500525	500 Kva Diesel Generating Set
13	A0500544	320 Kva Diesel Generating Set
14	A0500546	40 Kva Diesel Generating Set P
15	A0500548	320 Kva Diesel Generating Set
16	A0500637	500 Kva Diesel Generating Set
17	A0500643	500 Kva Diesel Generating Set
18	A0500653	500 KVA Diesel Generating Set
19	A0500662	500 KVA Diesel Generating Set
20	A0500663	320 KVA Diesel Generating Set
21	A0500667	2000 KVA Prime Power DG Set T
22	A0500668	2000 KVA Prime Power DG Set T
23	A0500669	2000 KVA Prime Power DG Set T
24	A0500670	2000 KVA Prime Power DG Set T
25	A0500681	1010 Kva Diesel Generating Set
26	A0500683	1010 Kva Diesel Generating Set
27	A0500688	2000 KVA DG Set Caterpillar 35
28	A0600135	1250KVA 11/0.43KV Power Trans.
29	A0600138	250KVA 11/0.43KV Power Trans.G
30	A0600155	315KVA 11/0.43KV Power Trans.G
31	A0600158	500KVA 11/0.43KV Power Trans
32	A0600194	2500KVA 11/433V Power Trans.Vi
33	A0600250	500KVA 11/0.43KV Power Trans.V
34	A0600254	250KVA 22/11/0.43KV Power Tran
35	A0600256	1600KVA 11/0.43KV Power Trans.
36	A0600260	750KVA 33-11/0.43KV Power Tran
37	A0600263	1500KVA 11/0.43KV Power Trans.
38	A0600288	750KVA 11/0.43KV Power Trans.V
39	A0600290	500KVA 11/0.43KV Power Trans.V
40	A0600297	100KVA 11/0.43KV Power Trans.V
41	A0600302	1000KVA 11/0.44KV Power Trans
42	A0600304	750KVA 11/0.43KV Power Trans.V
43	A0600305	2000KVA Power Transformer Univ
44	A0600320	315 KVA Power transformer
45	A0600324	315 KVA Power transformer
46	A0600326	750 KVA Power Transformer

[Signature]

(Balv hadoge)
(Sr. Manger - Mechanical)

VPHEP Equipemet list
(April to Septemeber 2025)

Sr.No	Equipment	Object Description
47	A0600328	1500 KVA Power Transformer
48	A0600329	1500 KVA Power Transformer
49	A0600330	5 MVA Power Transformer EMCO
50	A0600331	5 MVA Power Transformer EMCO
51	A0600338	160 KVA Power Transformer Vive
52	A0600345	315 KVA Power Transformer Vive
53	A0600346	315 KVA Power Transformer Vive
54	A0600358	2500 KVA Power Transformer
55	A0600344	500 KVA Power Transformer Vive
56	A1400002	Synchronizing Panel
57	B0500131	Wagon Drill Atlas Copco BBC 12
58	B0600100	Crawler Drill Atlas Copco ROC
59	B0600107	Crawler Drill Atlas Copco ROC
60	B0600108	Crawler Drill Atlas Copco ROC
61	B0600114	Crawler Drill Atlas Copco ROC
62	B0600133	Crawler Drill Atlas Copco ROC
63	B0600134	Crawler Drill Atlas Copco ROC
64	B0600136	Crawler Drill Atlas Copco ROC
65	B0600147	Crawler Drill Atlas Copco ROC
66	B0600151	Crawler Drill Atlas Copco ROC
67	B0600162	Crawler Drill Atlas Copco ROC
68	B0600169	Crawler Drill Atlas Copco ROC
69	B0600172	Hydraulic Surface drill Sandvi
70	B0600179	Hydraulic Surface drill Sandvi
71	B0600180	Hydraulic Surface drill Sandvi
72	B0600181	Hydraulic Surface drill Sandvi
73	B0600182	Hydraulic Surface drill Sandvi
74	B0900039	Hyd.2 boom drilling Jumbo Atla
75	B0900058	Hyd.2 boom drilling Jumbo AXER
76	B0900061	Hyd.2 boom drilling Jumbo AXER
77	B0900068	Hyd.2 boom drilling Jumbo AXER
78	B0900069	Hyd.2 boom drilling Jumbo AXER
79	B0900074	Hyd.2 boom drilling Jumbo AXER
80	B0900075	Hyd.2 boom drilling Jumbo AXER
81	B0900085	Hyd.2 boom drilling Jumbo DT 8
82	B0900086	Hyd.2 boom drilling Jumbo DT 8
83	B0900091	Hyd.2 Boom Drilling Jumbo Atla
84	B0900093	Hyd.2 Boom Drilling Jumbo Atla
85	B0900097	Hyd.2 Boom Drilling Jumbo Atla
86	B0900109	Hyd.2 Boom Drilling Jumbo EPIR
87	B1200069	Hyd.Rock Breaker Atlascopco HB
88	C0100207	600 Cfm Atlas Copco Diesel Air
89	C0100218	600 cfm Atlas Copco Diesel Com
90	C0100232	600 cfm Atlas Copco Diesel Com
91	C0100272	600 cfm Atlas Copco Diesel Com
92	C0100280	600 cfm Atlas Copco Diesel Com

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VPHEP Equipemet list
(April to Septemeber 2025)

Sr.No	Equipment	Object Description
93	C0100282	600 cfm Atlas Copco Diesel Com
94	C0100290	600 cfm Atlascopco Diesel Com
95	C0100299	300 cfm Compressor Atlascopco
96	C0100309	600 cfm Atlas copco Diesel Com
97	C0200159	585 cfm Atlas Copco Electric C
98	C0200167	816 cfm Atlas Copco Belgium Gr
99	C0200186	587 cfm Atlas Copco Electric C
100	C0200190	572 cfm Elect.Compressor Atlas
101	C0200195	572 cfm Elect.Compressor Atlas
102	C0200204	572 cfm Elect.Compressor Atlas
103	C0200206	572 cfm Elect.Compressor Atlas
104	C0200208	572 cfm Elect.Compressor Atlas
105	C0200209	572 cfm Elect.Compressor Atlas
106	C0200210	572 cfm Elect.Compressor Atlas
107	C0200214	572 cfm Elect.Compressor Atlas
108	C0200215	572 cfm Elect.Compressor Atlas
109	C0200216	572 cfm Elect.Compressor Atlas
110	C0200223	600 Cfm Compressor Atlascopco
111	C0200224	600 Cfm Compressor Atlascopco
112	C0200225	600 cfm Compressor Atlascopco
113	C0200227	600 cfm Compressor Atlascopco
114	D0300044	35 TPH Vertical Cement Screw
115	D0300058	25 TPH Vertical Cement Screw C
116	D0300062	20 TPH Verticle Cement Screw C
117	D0400057	120 M3 Simem Wetbeton 120 Batc
118	D0400058	120 M3 Simem Wetbeton 120 Batc
119	D0400071	60M3 Schwing Stetter H 1.25 Ba
120	D0400077	25 M3 Siemem WB 25 Batching Pl
121	D0400084	25 M3 Siemem WB 25 Batching Pl
122	D0500037	42 M3 HR.BP-1800 HDR D Portabl
123	D0500050	30 M3 Concrete Pump BP 350 E G
124	D0500085	30 M3 Concrete Pump Schwing st
125	D0500087	42 M3 Concrete Pump BP1800 HDR
126	D0500096	30 M3 Concrete Pump S.Stetter
127	D0500100	30 M3 Concrete Pump S.Stetter
128	D0500117	30 M3 Concrete Pump BP 350 EXT
129	D0500123	79 m3 Concrete Pump SP 3500 HE
130	D0500124	79 m3 Concrete Pump SP 3500 HE
131	D0500126	30 M3 Concrete Pump BP 350 EXT
132	D0500127	30 M3 Concrete Pump BP 350 EXT
133	D0500132	60 M3 Concrete Pump SP1800
134	D0500133	60 M3 Concrete Pump SP1800
135	D1100064	6M ³ Transit Mixer Schwing Stet
136	D1100076	6M ³ Transit Mixer Schwing Stet
137	D1100079	6M ³ Transit Mixer Schwing Stet
138	D1100125	6M ³ Transit Mixer Schwing Stet

VPHEP Equipemet list
(April to Septemeber 2025)

Sr.No	Equipment	Object Description
139	D1100127	6M ³ Transit Mixer Schwing Stet
140	D1100130	6M ³ Transit Mixer Schwing Stet
141	D1100135	6M ³ Transit Mixer Schwing Stet
142	D1100188	6M ³ Transit Mixer Schwing Stet
143	D1100233	6M ³ Transit Mixer Schwing Stet
144	D1100235	6M ³ Transit Mixer Schwing Stet
145	D1100248	6M ³ Transit Mixer Schwing Stet
146	D1100249	6M ³ Transit Mixer Schwing Stet
147	D1100267	6M ³ Transit Mixer S.Stetter AM
148	D1100286	4M ³ Transit Mixer Sch.stetter
149	D1100289	4M ³ Transit Mixer Sch.stetter
150	D1100290	4M ³ Transit Mixer Sch.stetter
151	D1100293	6M ³ Transit Mixer S.Stetter AM
152	D1100296	6M ³ Transit Mixer S.Stetter AM
153	D1100329	6M ³ Transit Mixer S.Stetter AM
154	D1100330	6M ³ Transit Mixer S.Stetter AM
155	D1400007	90 M3 Mobile Concrete Placer B
156	D1600002	Design, Engineering AND Comple
157	D1600018	Tunnel Form Work CIFA
158	E0100046	20 M3 Cifa PCS 209 Wet Shotcr
159	E0100057	30 M3 Wet Shortcrete M/C With
160	E0100062	20 M3 Cifa PCS 209 Wet Shotcr
161	E0100072	20 M3 Dry Shotcrete Machine
162	E0100079	5-7 M3 Wet Shotcrete Machine
163	E0100083	30 M3 Wet Shortcrete M/C With
164	E0100100	30 M3 Wet Shortcrete M/C With
165	E0100102	30 M3 Wet Shortcrete M/C With
166	E0100113	30 M3 Wet Shortcrete M/C With
167	E0100115	20 M3 Wet Shotcrete M/C with r
168	E0100127	Wet shotcrete Machine TSR 30.1
169	E0100128	Wet shotcrete Machine TSR 30.1
170	E0700007	0-200 Lpm Atlas Copco Gr.Syste
171	E0700008	Atlas Copco Grouting Equipment
172	E0700036	Uni Grout E 200 100 - 12 H
173	E0700045	Grouting Equipment Unigrout E
174	E0700056	Grout Pump Atascopco Mai M400
175	E0700057	Uni Grout Pump 100-12 EH
176	E0700083	Mai Grout Pump Atlascopco M 40
177	E0700105	Mai Grout Pump Atlas Copco M 4
178	E0700107	Mai Grout Pump Atlas Copco M 4
179	E0700108	Mai Grout Pump Atlas Copco M 4
180	E0700109	Mai Grout Pump Atlas Copco M 4
181	E0700118	Mai Grout Pump Atlas Copco M 4
182	E0700127	Mai Grout Pump Atlas Copco M 4
183	E0700128	Mai Grout Pump Atlas Copco M 4
184	E0700129	Mai Grout Pump Atlas Copco M 4

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VPHEP Equipemet list
(April to Septemeber 2025)

Sr.No	Equipment	Object Description
185	E0700130	Mai Grout Pump Atlas Copco M 4
186	E0700131	GROUT PUMP TECNIWELL MOD. GP9H
187	E0700132	GROUT PUMP TECNIWELL MOD. GP9H
188	G0200052	12.50 Ton Electromech Gantry C
189	G0200085	20 Ton Gantry Crane Anupam spa
190	G0200087	20 Ton EOT Crane Anupam span 2
191	G0200088	5 Ton EOT Crane Anupam span 25
192	G0200093	30 Ton Gantry Crane for pressu
193	G0200102	5 Ton Electromech Gantry Crane
194	G0200109	5 Ton Gantry Crane Span 14M Hu
195	G0200114	10 Ton Electromech Gantry Cran
196	G0200115	35 Ton Gantry Crane
197	G0200123	D/G 30T Gantry Crane w/o Crab
198	G0300081	10T @40M Shirke Potain Tower C
199	G0700032	Articulated crane mounted on L
205	G0700066	Articulated Crane mounted on L
206	G0700077	4T Manitou Telehandler MT-X-14
209	H0100084	Crawler Dozer 165HP Hindustan
210	H0100116	Crawler Dozer 165HP Shanghai P
211	H0100125	Crawler Dozer 104HP Komatsu D4
212	H0100129	Crawler Dozer 180 HP D 65E-12
216	H0500264	0.93 M3 Hydraulic Excavator L&
217	H0500265	0.93 M3 Hydraulic Excavator L&
218	H0500294	Zero Tail Swing Hyd.Excavator
219	H0600045	65 Ton Crawler Crane Sumitomo
220	H0600062	80 Ton Crawler Crane Fushun AC
221	H0800068	3 M3 Wheel Loader Liugong CLG
222	H0800135	1.80 M3 F.End Loader 432ZX Wit
234	J0100086	175 TPH Jaw Crusher Nawa Engg.
235	J0100091	250 TPH Jaw Crusher Metso C100
236	J0100096	175 TPH Jaw Crusher JM 1108
237	J0300022	250 TPH Cone Crusher Svedala A
238	J0300051	175 TPH Hydrocone Crusher Sand
239	J0300059	150 TPH Cone Crusher GP100 SC
240	J0500011	200 TPH Vertical Shaft Impacto
241	J0500022	Vertical Shaft Impactor (METSO
242	J0500031	Verticle Shaft Impactor MetsoN
243	J0500035	150TPH METSO VSI Barmac B9000
244	J0800018	200 TPH Crushing Plant
245	J0800025	100 Ton Crushing Plant (assemb
246	K0100111	150 TPH Vibrating Screen Metso
247	K0100121	300 TPH Vibrating Screen Metso
248	K0100140	22 KW Vibrating Screen PVS 155
249	K0100146	Vibrating Screen III Deck SS1
250	K0100147	Vibrating Screen III Deck TS-
251	K0100153	Vibratory Screen Metso CVB1845

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VPHEP Equipemet list
(April to Septemeber 2025)

Sr.No	Equipment	Object Description
252	K0100155	Tripple Deck Screen RIPLFLO 48
253	K0100156	Tripple Deck Screen RIPLFLO 48
254	K0500046	210 TPH Svedala Vibrating Feed
255	K0500047	210 TPH Svedala Vibrating Feed
256	K0500052	200 TPH Svedala Vibrating Feed
257	K0500102	300 TPH Metso Minerals Vmot 46
258	K0500128	225 TPH Vibrating Feeder-Metso
259	K0500129	225 TPH Vibrating Feeder-Metso
260	K0500131	225 TPH Vibrating Feeder-Metso
261	K0500166	VIBRATING FEEDER (VMO 20/10)
262	K0500168	Vibrating Feeder (VMO 17.5/8)
263	K0500170	250 TPH Grizzly Vibrating Feed
264	K0500171	250 TPH Grizzly Vibrating Feed
265	K0500180	Grizzly Feeder GF 1246
266	K0500195	Feeder With Screen DF 2012 P
267	K0500203	Metso Grizzley Feeder VMOT 46/
268	K0600008	Screw Classifier Soc, General
269	K0600011	Screw Classifier AAR TECH SERV
270	K0600016	Screw Classifier Metso Mineral
271	K0600018	Screw Classifier Metso Sand Tr
272	K1300002	Shuttle Conveyor 200 TPH Cobit
273	K1300005	Shuttle Conveyor 200 TPH Cobit
274	L0100026	36 MM P 36 Bar Bending Machine
275	L0100086	42 MM Bar Bending Machine IP 4
276	L0100087	52 MM Bar Bending Machine Icar
277	L0200062	55 MM Dia Bar Cutting Machine
278	L0200080	42 MM Bar Cutting Machine Icar
279	L0200100	42 MM Bar Cutting Machine Icar
280	M0100100	1 M. MYSORE KIRLOSKAR ENTERPRI
281	M0100124	Lathe machine Atlas supercut
282	M0100135	Lathe Machine Atlas Super cut
283	M0200096	32 MM Radial Drilling Machine
284	M0200100	32 MM Radial Drilling Machine
285	M0200103	38 MM Radial Drilling Machine
286	M0500029	630 MM Shaping Machine Parkson
287	M0500039	630 MM Shaping Machine Sagar S
288	P0101397	75 HP; 900 LPM @ 200 M HEAD KI
289	P0101582	ET14 MATHER & PLATT 1000 LPM @
290	P0101620	3000 LPM @ 100 M HEAD MATHER &
291	P0101628	Centrifugal Pump 500 LPM @ 60
292	P0101629	Centrifugal Pump 500 LPM @ 60
293	P0101630	Centrifugal Pump 500 LPM @ 60
294	P0101686	Centrifugal Pump ET 20 L, 20 H
295	P0101687	Centrifugal Pump ET 20 L, 20 H
296	P0101717	90 KW Centrifugal Pump M&P 150
297	P0101735	20 HP Centrifugal pump PN 17,

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VPHEP Equipemet list
(April to Septemeber 2025)

Sr.No	Equipment	Object Description
298	P0101736	20 HP Centrifugal pump PN 17,
299	P0101737	20 HP Centrifugal pump PN 17,
300	P0101738	20 HP Centrifugal pump PN 17,
301	P0101739	20 HP Centrifugal pump PN 17,
302	P0101740	20 HP Centrifugal pump PN 17,
303	P0101741	20 HP Centrifugal pump PN 17,
304	P0101745	90 KW Centrifugal Pump M&P 150
305	P0101760	90KW Centrifugal Pump M.& Plat
306	P0101761	90KW Centrifugal Pump M.& Plat
307	P0101772	180 HP Centrifugal Pump M & PI
308	P0101773	180 HP Centrifugal Pump M & PI
309	P0200151	75.50 HP Well Point Pump Diese
310	P0200153	75.50 HP Well Point Pump Diese
311	P0200154	75.50 HP Well Point Pump Diese
312	P0900578	10 HP; 1900 LPM @ 15 M HEAD MO
313	P0900579	10 HP; 1900 LPM @ 15 M HEAD MO
314	P0900667	25 HP; 3750 LPM @ 20 M HEAD MO
315	P0900858	25 HP Submersible Pump G 802T,
316	P0900886	35 HP Submersible Pump Hitec H
317	P0900887	35 HP Submersible Pump Hitec H
318	P0900888	35 HP Submersible Pump Hitec H
319	P0900889	35 HP Submersible Pump Hitec H
320	P0900890	35 HP Submersible Pump Hitec H
321	P0900892	35 HP Submersible Pump Hitec H
322	P0900911	35 HP Submersible Pump Hitec H
323	P0900912	35 HP Submersible Pump Hitec H
324	P0900917	35 HP Submersible Pump Hitec H
325	P0900932	35 HP Submersible Pump HD35H
326	P0900934	35 HP Submersible Pump HD35H
327	P0900936	35 HP Submersible Pump HD35H
328	P0900937	75HP submersible Pump HD 75
329	P0900962	35 HP Submersible Pump HD35H
330	P0900963	35 HP Submersible Pump HD35H
331	P0900964	35 HP Submersible Pump HD35H
332	P0900965	75HP submersible Pump HD 75
333	P0900966	75HP submersible Pump HD 75
334	P0900968	75HP submersible Pump HD 75
335	P0900988	35 HP Submersible Pump HD35H
336	P0900991	35 HP Submersible Pump HD35H
337	P0900992	35 HP Submersible Pump HD35H
338	P0901001	35 HP Submersible Pump HD35H
339	P0901002	35 HP Submersible Pump HD35H
340	P0901004	50HP Submersible Pump HD50H
341	P0901005	50HP Submersible Pump HD50H
342	P0901009	50HP Submersible Pump HD50H
343	P0901015	35 HP Submersible Pump HD35H

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**VPHEP Equipemet list
(April to Septemeber 2025)**

Sr.No	Equipment	Object Description
344	P0901016	35 HP Submersible Pump HD35H
347	R0100074	200 TR Chilling Plant Eu Indus
348	R0100077	160 TR Chilling Plant Eu Indus
349	R0100104	50 TR Chilled Water Plant EU
350	R0100107	20 TPD Ice Plant Geoflair Gree
351	R0100108	20 TPD Ice Plant Geoflair Gree
352	R0100109	20 TPD Ice Plant Geoflair Gree
353	R0300116	75 KW x 2 Ventilation fan Zitr
354	R0300144	75 KW Ventilation fan Zitron Z
355	R0300152	132 KW Ventilation Fan Zitron
356	R0300163	75 KW Ventilation fan Zitron Z
357	R0300169	75 KW Ventilation fan Zitron Z
358	R0300176	75 KW Ventilation fan Zitron Z
359	R0300185	250 KW Ventilation fan Zitron
360	R0300192	250 KW Ventilation fan Zitron
361	R0300193	250 KW Ventilation fan Zitron
362	R0300194	250 KW Ventilation fan Zitron
363	R0300208	250 KW Ventilation fan ZVN-1-1
364	R0300217	132KW Ventilation Fan ZVN-16-1
365	R0300218	132 KW Ventilation Fan ZVN -16
366	R0300221	132 KW Ventilation Fan ZVN -16
367	R0300228	75 KW Ventilation fan gEL9-75
368	R0300242	75 KW Ventilation fan gEL9-75
369	R0300250	355 KW Ventilation fan ZVN-1-1
370	R0300251	355 KW Ventilation fan ZVN-1-1
371	S0700152	Auto compressor TS 10 120 H
372	S0700153	Auto compressor TS 10 120 H
373	S1700015	Mobile Service Container
374	S1700024	Maintainance Container(MSU)o
375	S1700029	Service Container for Boomer
376	S1700030	Service Container for Boomer
377	S1900014	9000 LTR. Diesel Bowser
378	S2900005	12 HP Jet Cleaning Machine
379	T0300174	25 Ton Trailer Semi Low Bed Sa
380	T1100013	Rail Mounted Motorised Trolley
381	V1600161	Total Station Trimble
382	V1800015	2 Sec. Tunnel Profiler TCRM 12
383	V1800022	1 Sec. Tunnel Profiler TCRA 12
384	W0100233	400 AMP Diesel Welding Set Esa
385	W0100234	400 AMP Diesel Welding Set Esa
386	W0200230	320 AMP Welding Generator Ador
387	X0500003	2500 KG. MAX. STATIC LOAD BORE
388	X0500004	2500 KG. STATIC LOAD BORETEC S
389	X0600034	100 T Electroni Mobile Weig Es
390	X0600054	150 Ton Satorius Weigh Bridge
391	X1500018	Hydraulic sissor lift

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VPHEP Equipemet list
(April to Septemeber 2025)

Sr.No	Equipment	Object Description
392	X1500021	Hyd.Scissor lift 2 ton
393	X1500030	5 Ton Scissor Lift Jaypee 8 mt
394	X1600009	Tunnel Boring M/C TERRATEC T-4
395	X2000001	Waste Water Clarification Plan
396	X2000002	Waste Water Treatment Plant 1
397	B0900052	Hyd.2 boom drilling Jumbo AXER
398	B0900092	Hyd.2 Boom Drilling Jumbo Atla
399	E0100078	30 M3 Wet Shortcrete M/C With
400	E0700060	Mai Grout Pump M 400 NT
401	V1600192	Total station TCA 1201
402	X0600048	150 T Weigh Bridge Electronic
403	X0600083	100T Weigh Bridge Avery (Used)
404	X1500019	Hyd. Scissor lift 2 ton
405	X1700003	Steam Boiler make Fuelpac FWH
406	X1700006	Boiler make Fuel Pac FWH - 40
407	A0600215	500KVA 11/0.43KV Power Trans.V
408	B0900082	Hyd.2 boom drilling Jumbo Atla
409	G0200033	15 Ton Magna Engineers E.O.T.C
410	G0300049	10 T @20M Shirke Potain Tower
411	G0300055	10 T@40M Shirke Potain Tower C
412	G0300058	10 T@30M Shirke Potain Tower
413	G0400308	3 Ton Winch for Passenger Hois
414	G0700037	Electric Forklift GX 300E Godr
415	G1200001	Two Segment Lifter 5 Ton Sciss
416	P0101457	3000 LPM @ 100 M HEAD MATHER &
417	P0200152	75.50 HP Well Point Pump Diese
418	R0300184	250 KW Ventilation fan Zitron
419	R0300198	355 KW Ventilation fan ZVN-1-1
420	R0300240	355 KW Ventilation fan ZVN-1-1
421	R0300241	355 KW Ventilation fan ZVN-1-1
422	R0300252	355 KW Ventilation fan ZVN-1-1
423	R0300254	355 KW Ventilation fan ZVN-1-1
424	A0500664	500 KVA Diesel Generating Set
425	A0600347	315 KVA Power Transformer Vive
426	A0600351	750 KVA Power Transformer Viv
427	B0600109	Crawler Drill Atlas Copco ROC
428	B0600137	Hydraulic Crawler drill DX 70
429	B0600138	Hydraulic Crawler drill DX 70
430	B0600153	Crawler Drill Atlas Copco ROC
431	B0600173	Hydraulic Surface drill ROC T2
432	E0100108	30 M3 Wet Shortcrete M/C With
433	G0700028	Furukawa Unic Crane URV 504 TR
434	H0100109	Crawler Dozer 165HP Shanghai P
435	H0100118	Crawler Dozer 320HP Shanghai P
436	H0400075	Back Hoe Loader JCB 4DX
437	H0500285	2.10 M3 Hydraulic Excavator L&

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VPHEP Equipemet list
(April to Septemeber 2025)

Sr.No	Equipment	Object Description
438	H0800118	2.7 M3 Wheel Loader CLG 856 Si
439	H0900086	25 Ton Mobile Crane Kato KR 25
440	H0900094	30 Ton Hyd.Mobile Crane RT 630
441	R0300124	75 KW Ventilation fan Zitron Z
442	R0300209	250 KW Ventilation fan ZVN-1-1
443	T0600407	Tata Safari Dicor 2.2 VTT 4x4
444	T0901436	25 ton Volvo Tipper Rock body
445	T0901522	16 Ton Rock Body Scoop Tipper
446	V1600162	Total Station Trimble



List of Vehicles used at VPHEP (April to September 2025)

S.No.	Equipment	Log No	Registration No
1	Tata Mobile 207	T0500352	UK11CA 0685
2	Hyva LPK 2516	T0900926	UK09CA 0292
3	Ambulance	T0500191	UK11PA 0124
4	Transit Mixer	T0100856	UK11CA 0682
5	TATA Bus 709 32 Seater	T0500220	UK11PA 0122
6	Hyva LPK 1613	T0901345	UK11CA 0680
7	Flat Bed Truck LPK 1613	T0100828	UK11CA 0738
8	Flat Bed Truck LPK 1613	T0100731	UK11CA 0673
9	Scissor lift mounted on LPK 1613	T0100956	UK11CA 0739
10	Flat Bed Truck LPK 1613	T0100929	UK11CA 0684
11	Transit Mixer	T0100922	UK11CA 0671
12	TATA 407	T0500322	UK11CA 0737
13	Transit Mixer	T0100923	UK11CA 0674
14	Ambulance	T0500326	UK11PA 0121
15	Diesel Bowser	T0100926	UK11CA 0672
16	Hydra Crane 10 Ton	H0900070	UK11CA 0686
17	Hydra Crane 14 Ton	H0900106	UK11CA 0710
18	Tata Safari	T0600407	UK11 6974
19	Back Hoe Loader JCB 4DX	H0400074	UK11CA 0627
20	Back Hoe Loader JCB 4DX	H0400075	UK11CA 0625
21	Hydraulic Excavator Loader	H0400076	UK11CA 0626
22	Water Tanker	T0100939	UK11CA 0683
23	Scissor lift mounted on LPK 1613	T0100941	UK11CA 0705
24	Vibratory Compactors	Q0500104	UK11 6947
25	Transit Mixer	T0100659	UK09CA 0283
26	Truck Close Body (Service Van)	T0100687	UK11CA 0690
27	Truck Close Body	T0101013	UK11CA 0694
28	Hyva LPK 2523	T0901534	UK11CA 0733
29	Hyva LPK 2523	T0901533	UK11CA 0754
30	Hyva LPK 2523	T0901507	UK11CA 0732
31	Vibratory Compactors	Q0500100	UK11CA 0706
32	Transit Mixer	T0100649	UK11CA 0709
33	Water Tanker	T0100790	UK11CA 0740
34	Volvo Tipper 25 Ton	T0901418	UK11CA 0766
35	Volvo Tipper 25 Ton	T0901423	UK11CA 0770
36	Volvo Tipper 25 Ton	T0901422	UK11CA 0765
37	Volvo Tipper 25 Ton	T0901438	UK11CA 0764
38	Volvo Tipper 25 Ton	T0901437	UK11CA 0763
39	Volvo Tipper 25 Ton	T0901432	UK11CA 0771
40	Hyva LPK 2516	T0900979	UK11CA 0768
41	Hyva LPK 2516	T0901509	UK11CA 0759
42	Hyva LPK 2516	T0901506	UK11CA 0758
43	Hyva LPK 2516	T0901508	UK11CA 0762
44	Transit Mixer	T0100648	UK11CA 0757
45	Hyva LPK 2516	T0901511	UK11CA 0760
46	2.7 M3 Wheel Loader CLG 856	H0800118	UK11CA 0773
47	Transit Mixer	T0101018	UK11CA 0831



List of Vehicles used at VPHEP (April to September 2025)

S.No.	Equipment	Log No	Registration No
48	Transit Mixer	T0101017	UK11CA 0832
49	Water Tanker	T0100783	UK11CA 0834
50	Back Hoe Loader JCB 4DX	H0400053	UK11CA 0837
51	1.80 M3 JCB Loader 432 ZX	H0800147	UK11CA 0838
52	Hyva LPK 2516	T0901091	NL02N0129
53	Hyva LPK 2516	T0900958	NL02N0128
54	Hyva LPK 2516	T0900976	NL02L8402
55	Hyva LPK 2516	T0901093	NL02L8283
56	Hyva LPK 2516	T0900963	NL02N0830
57	Volvo Tipper 25 Ton	T0901436	UK11CA 0865
58	Truck Close Body (Service Van)	T0100758	UK11CA 0870
59	Innova	T0600368	UK11A 0198
60	Crane Mounted on TATA 1613	T0100932	AS09C 1355
61	Maniscopic Telehandler 3.5 Ton	G0700043	NL03A 7831
62	Ambulance	T0500320	UK11PA 0165
63	Transit Mixer	T0101091	UK14CA 2996
64	Transit Mixer	T0101092	UK14CA 2997
65	2.7 M3 Wheel Loader CLG 856	H0800163	UK11CA 1335
66	Tata Chasis for Jet Pump	T0100575	RJ20GB 7096
67	Bharat Benz Dumper 2528	T0901559	UK14CA 3056
68	Bharat Benz Dumper 2528	T0901560	UK14CA 3057
69	2.7 M3 Wheel Loader CLG 856	H0800164	UK11CA 1336
70	Telehandler JCB 3Ton	G0700078	UK07DX 1901
71	Telehandler JCB 3Ton	G0700079	UK07DX 1902
72	Diesel Bowser	T0500361	UK11CA 1752
73	Water Tanker	T0101022	UK11CA 1753
74	Transit Mixer	T0100816	UK11CA 1733
75	Transit Mixer	T0101052	UK11B 2901
76	Transit Mixer	T0101043	UK11CA 1734
77	Scissor lift mounted	T0100887	UK09CA 0296
78	Scorpio	T0600402	UK11B 1368
79	Innova	T0600369	UK11B 0808
80	TIL Crane Tyre mounted	H0900095	UK11B 3343
81	Trailer	T0200140	UK11CA 1791
82	Diesel Bowser	T0101014	UK11CA 1789
83	Diesel Bowser	T0100589	UK11CA 1790
84	Hyva LPK 2518	T0901521	UK11CA 1726
85	Hyva LPK 2518	T0901522	UK11CA 1727
86	Hyva LPK 2518	T0901480	UK11CA 1728
87	Hyva LPK 2518	T0901468	UK11CA 1843
88	Hyva LPK 2518	T0901495	UK11CA 1844
89	Hyva LPK 2518	T0901516	UK11CA 1864
90	Water Tanker	T0101020	UK11CA 1842
91	Crane	H0900065	UK11CA 2078
92	Transit Mixer	T0100910	Under Process
93	Crane	T0101041	UK11CA 1863
94	LPT1616 Flat Body(Open body)	T0101033	UK11CA 1841



List of Vehicles used at VPHEP (April to September 2025)

S.No.	Equipment	Log No	Registration No
95	LPT1616 Half Body Truck	T0101042	UK11CA 1839
96	Hyva LPK 2518	T0901481	UK11CA 2012
97	Hyva LPK 2518	T0901482	UK11CA 2010
98	Hyva LPK 2518	T0901515	UK11CA 1952
99	Transit Mixer	T0101065	UK11B 5904
100	Transit Mixer	T0100993	UK11CA 1956
101	Hydra Crane	H0900107	UK11CA 1949
102	Crane RT30	H0900116	UK11B 5855
103	Scorpio	T0600425	AR01D 6139
104	Hyva LPK 2518	T0901470	UK11CA 1950
105	Hyva LPK 2518	T0901494	UK11CA 1951
106	TIL Crane Tyre mounted	H0900098	UK11CA 2080
107	Bharat Benz Dumper 2528	T0901561	UK11CA 1953
108	Transit Mixer	T0101064	UK11B 7282
109	Transit Mixer	T0101066	UK11B 7281
110	Volvo Tipper 25 Ton	T0901416	AP31TU 7978
111	Volvo Tipper 25 Ton	T09001408	KA20C 2692
112	Transit Mixer	T0101067	UK11CA 2027
113	Maruti Jimny	T0600445	UK11B 4004
114	Cifa Boom Placer	T0100574	MH06AL 9166
115	Scorpio	T0600395	UK09B1135



List of Hire Equipment at VPHEP - (April To September 2025)

Sr. No.	Log No.	Equipment Description	Model
1	H040052H	JCB 3DX	JCB 3DX
2	H050213H	Excavator	Hyundai - PC 360L
3	H050212H	Excavator with breaker	JCB-205
4	H050233H	Excavator with breaker	TATA HITACHI-200
5	H050210H	Excavator with breaker	Hyundai-150
6	H050249H	Excavator	JCB-205
7	H050194H	Excavator	JCB-140
8	H050095H	Excavator	TATA EX-70
9	H050096H	Excavator	PC-200/PC-140
10	H050112H	Excavator with breaker	Hyundai 215 L
11	H050234H	Excavator with breaker	JCB-215
12	H050169H	Excavator	JCB 205
13	H050186H	Excavator	JS 150
14	H050251H	Excavator	JS-215
15	H050261H	Excavator with breaker	Tata Jaxis-140
16	H050239H	Excavator with breaker	Hyundai 215 L
17	H050242H	Excavator with breaker	Hyundai 215 L
18	T010074H	Water Tanker	Mahindra DI
19	D110031H	7 M3 Transit Mixer	TATA 2823
20	D110033H	7 M3 Transit Mixer	TATA 2823
21	T090117H	Dumper 16 Ton	LPK1618 TC
22	T090118H	Dumper 16 Ton	LPK1618 TC
23	T090119H	Dumper 16 Ton	LPK1618 TC
24	T090316H	Dumper 25 Ton	Bharat Banz 2523C
25	T090317H	Dumper 25 Ton	Bharat Banz 2523C
26	T090334H	Dumper 25 Ton	Bharat Banz 2523C
27	T090333H	Dumper 25 Ton	Bharat Banz 2523C
28	T090331H	Dumper 25 Ton	Bharat Banz 2523C
29	T090332H	Dumper 25 Ton	Bharat Banz 2523C
30	T090336H	Dumper 25 Ton	Mahindra Blazo 2828
31	T090337H	Dumper 25 Ton	Mahindra Blazo 2828
32	T090362H	Dumper 25 Ton	Tata Signa 2825K
33	T090398H	Dumper 25 Ton	Tata Signa 2825K
34	T090413H	Dumper 25 Ton	Tata Signa 2823C
35	T090429H	Dumper 25 Ton	Tata Signa 2823C
36	T090167H	Dumper 25 Ton	Tata Signa 2823 C
37	T090411H	Dumper 25 Ton	Tata Signa 2823 C
38	T090466H	Dumper 25 Ton	Bharat Benz 2828
39	T090467H	Dumper 25 Ton	Eicher 2823
40	T090420H	Dumper 25 Ton	Bharat Benz 2828C
41	T090414H	Dumper 25 Ton	Tata Signa 2823 C
42	T090418H	Dumper 25 Ton	Mahindra Blazo 2828
43	T090431H	Dumper 25 Ton	AMW 2523 TP
44	T090432H	Dumper 25 Ton	Mahindra 2515
45	T090433H	Dumper 25 Ton	Tata LPK 2518
46	T090434H	Dumper 25 Ton	Mahindra Blazo 2828
47	T090233H	Dumper 16 Ton	LPK1618 TC
48	T090234H	Dumper 16 Ton	LPK1618 TC
49	D150001H	ROTEC CRETER CRANE	CC-200-24
50	H050097H	Excavator	TATA PC-200
51	H050098H	Excavator	Hyundai - PC 350
52	H050100H	Excavator	PC-215
53	H050092H	Excavator	PC-215
54	H050107H	Excavator	JCB-150
55	H050214H	Excavator	Tata PC-200
56	H050244H	Excavator	JCB-205
57	H050248H	Excavator with breaker	Hyundai-215L
58	H050235H	Excavator with breaker	Tata 210
59	H090112H	Hydra Crane	Hydra 14
60	T010120H	6 M3 Transit Mixer	TATA 2823
61	T010101H	6 M3 Transit Mixer	AL-2518
62	T010100H	6 M3 Transit Mixer	AL-2518
63	T010121H	6 M3 Transit Mixer	TATA 2823
64	T010122H	6 M3 Transit Mixer	TATA 2823
65	T010123H	6 M3 Transit Mixer	TATA 2823

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List of Hire Equipment at VPHEP - (April To September 2025)

Sr. No.	Log No.	Equipment Description	Model
66	D110032H	6 M3 Transit Mixer	TATA 2823
67	T090114H	Dumper 16 Ton	TATA 1618
68	T090322H	Dumper 16 Ton	TATA 1618
69	T090298H	Dumper 16 Ton	TATA 1618
70	T090364H	Dumper 16 Ton	TATA 1618
71	T090277H	Dumper 25 Ton	Ashok Leyland 2523
72	T090358H	Dumper 25 Ton	Tata 2523
73	T090379H	Dumper 16 Ton	TATA 1618
74	T090300H	Dumper 25 Ton	Ashok Leyland 2523
75	T090315H	Dumper 25 Ton	Bharat Banz 2523C
76	T090326H	Dumper 25 Ton	Ashok Leyland 2523
77	T090327H	Dumper 25 Ton	Ashok Leyland 2523
78	T090314H	Dumper 25 Ton	Bharat Banz 2523C
79	T090131H	Dumper 25 Ton	Ashok Leyland 2523
80	T090357H	Dumper 25 Ton	Bharat Banz 2523C
81	T090360H	Dumper 25 Ton	Bharat Banz 2523C
82	T090361H	Dumper 25 Ton	Bharat Banz 2523C
83	T090421H	Dumper 25 Ton	Bharat Benz 2828C
84	T090430H	Dumper 25 Ton	Bharat Benz 2828C
85	T090299H	Dumper 25 Ton	Bharat Banz 2523C
86	T090412H	Dumper 25 Ton	Tata Signa 2823C
87	T090410H	Dumper 25 Ton	Bharat Benz 2828C
88	T090468H	Dumper 25 Ton	Bharat Benz 2828C
89	T090469H	Dumper 25 Ton	Bharat Benz 2828C
90	T090347H	Dumper 25 Ton	Ashok Leyland 2523
91	T090381H	Dumper 25 Ton	Ashok Leyland 2523
92	T090348H	Dumper 25 Ton	Ashok Leyland 2523
93	T090350H	Dumper 16 Ton	TATA 1618

(Signature)

(Balu Inadige)
(Sr. Manager - Mech.)