

एसजेवीएन लिमिटेड
SJVN Limited

(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)

नवरत्न सी. पी. एस. ई.

A Navratna CPSE

CIN No : L40101HP1988GOI008409



संख्या: एसजेवीएन/का.मु./पर्या./एफ-27/2024-202

दिनांक: 13/11/2024

सेवा में,
अतिरिक्त प्रधान मुख्य वन संरक्षक (सी),
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
क्षेत्रीय कार्यालय (NCZ), 25, सुभाष रोड,
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मेल आईडी: moef.ddn@gov.in
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विषय: नैटवाड़ मोरी एचपीएस (60 मेगावाट), उत्तराखंड में पर्यावरणीय परिस्थितियों की अनुपालना पर
छमाही रिपोर्ट (अप्रैल, 2024 से सितंबर, 2024 तक की अवधि हेतु)।

संदर्भ: ईसी पत्र संख्या: जे-12011/16/2010/आईए.आई, 16 जून, 2016 (पर्यावरण, वन और जलवायु
परिवर्तन मंत्रालय द्वारा जारी)

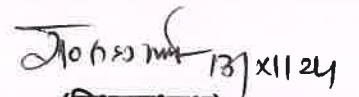
महोदय,

कृपया उक्त अनुमोदन का संदर्भ ग्रहण करें, जिसके अंतर्गत उत्तरकाशी जिले (उत्तराखंड) में एसजेवीएन
की नैटवाड़ मोरी जलविद्युत परियोजना (60 मेगावाट) को पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय
द्वारा पर्यावरण मंजूरी प्रदान की गई थी। ईआईए अधिसूचना 2006 के अनुसार, निर्धारित पर्यावरण
परिस्थितियों की छमाही स्थिति प्रस्तुत करना अनिवार्य है। इसके अलावा, दिनांक 26.11.2018 की
अधिसूचना के अनुसार अर्द्धवार्षिक अनुपालना रिपोर्ट सॉफ्ट कॉपी में भी प्रस्तुत करना वांछनीय है।
अतः पर्यावरणीय परिस्थितियों की अनुपालना पर छमाही रिपोर्ट (अप्रैल, 2024 से सितंबर, 2024 तक
की अवधि हेतु) आपके सूचनार्थ सादर प्रस्तुत की जा रही है।

संलग्नक: यथोपरि।

सधन्यवाद,

भवदीय,
एसजेवीएन लिमिटेड के लिए,


(विभागाध्यक्ष)

कारपोरेट मुख्यालय : शक्ति सदन, शनान,
शिमला-171006 (हि.प्र.) www.sjvn.nic.in
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एनबीसीसी कॉम्प्लेक्स, पूर्वी किदवाई नगर, नई दिल्ली-110023
दूरभाष : 011-61901919 फैक्स : 011-61901915

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अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

प्रतिलिपि (केवल ईमेल के माध्यम से):

1. क्षेत्रीय निदेशक, केंद्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी), आंचलिक कार्यालय (उत्तर), पीआईसीयूपी भवन विभूति खंड, गोमती नगर लखनऊ-226010, rdlucknow.cpcb@gov.in, cpcb.lucknow@gmail.com
2. सदस्य सचिव, उत्तराखंड प्रदूषण नियंत्रण बोर्ड, गौरा देवी भवन, 46 बी आईटी पार्क सहस्त्रधारा, देहरादून, उत्तराखंड- 248001, मेल आईडी: msukpcb@yahoo.com
3. सदस्य सचिव, नदी घाटी एवं जलविद्युत परियोजनाएँ, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, भारत सरकार, इंदिरा पर्यावरण भवन, जोरबाग, नई दिल्ली - 110003 मेल आईडी: yogendra78@nic.in

**Six Monthly Report on Compliance to Environmental Aspects
(For Period Ending September, 2024)**

A) Name of Project	Naitwar Mori Hydro Power Station (60 MW)
Type of the Project	Hydroelectric
Location	PO Mori, Tehsil Mori, District Uttarkashi, Uttarakhand.
ContactAddress	
(a) Concerned Project Head	Head of Project, PO Mori, Tehsil Mori, District Uttarkashi, Uttarakhand, PIN 249128
(b) Concerned Environment Division (Project)	Head (Environment), PO Mori, Tehsil Mori, District Uttarkashi, Uttarakhand, PIN 249128
(c) Concerned Environment Division (Corporate)	Head (Environment), SJVN Corporate Headquarters, Shanan, Shimla, HP, PIN 171006 Contact No. 0177-2660110
Environment Clearance	J-12011/16/2010/IA.I dated 16.06.16 and corrigendum issued vide even no. dated 07.08.18

PART – A: Specific Conditions

S.No.	Condition of Environment Clearance	Status
i.	The following Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report (Chapter – 1 in the EMP dated February, 2011) and mentioned vide letter no. SJVN/AGM/NMHEP/PEC/11-431 dated 02.09.2011 shall be strictly implemented in consultation with Uttarakhand Forest Department. Major works shall be completed before impounding. The financial allocation of Rs. 769 lakhs for CAT plan implementation shall not be diverted for any other purpose. As per plan, the area of CAT is 3995.28 ha.	The amount, i.e. Rs.12.9666 Crores against implementation of CAT plan has been deposited by SJVN in CAMPA fund. In this regard, about Rs. 531.86 lakh and Rs. 493.91 lakh has been spent by Tons Forest Division and Govind Wild Life Sanctuary & NP, Purola respectively till 31 September 2024 (total Rs. 1025.77 lakh). (Annexure-I&II)
ii.	The R&R Benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2010 of SJVNL as well as NRRP – 2007 whichever is higher. Adequate publicity of the compensation package of NRRP 2007/SJVNL R&R Policy 2010 shall be given in the affected villages. All R&R issues shall be completed before commissioning of the project.	R&R Plan of NMHEP is in line with the National Rehabilitation and Resettlement Policy (NRRP) – 2007. R&R Plan of NMHEP was notified in the Official Gazette of Uttarakhand on 04.11.2017 and the same was published in two daily newspapers in the local area before its implementation. Also, the same has been uploaded in the official website of District Uttarkashi. The copies

		of R&R Plan have also been provided in the office of SDM Purola, Tehsildar Mori, BDO Mori, Panchayat Pradhans and villagers.
iii.	A monitoring committee for R&R shall be constituted which must include representatives of project affected persons from SC/ST category and a women beneficiary.	The village-wise R&R/Grievance Redressal Committee has been constituted under the Chairmanship of ADM-cum-R&R Administrator, Uttarkashi comprising of SDM, BDO, SC/ST representative, Women representative, Panchayat Pradhan (representative of PAFs) and representatives of project management.
iv.	All the commitments made during the public hearing shall be fulfilled completely by the project proponent.	The commitments viz infrastructural development works, community development works, employment to the locals, hiring of local contractors, hiring of local vehicles, technical education to the local youth, merit scholarship schemes etc. made during public hearing have been included in R&R Plan of the project which being implemented through R&R administrator (i.e. ADM-Uttarkashi) appointed by Govt.
v.	Consolidation and compilation of the muck shall be carried out only in the designated muck dumping sites as submitted in the EIA/EMP Report & in the reply submitted in February, 2011. As per the proposed muck disposal plan, out of the 7,11,240m ³ muck generated 30-40% will be utilized as construction material and remaining 4,29,583 m ³ will be dumped at the 2 designated disposal areas in 4.5 ha. The identified muck dumping sites shall be at-least 30 m horizontally away from high flood level (HFL).	The total excavation carried out in the project is 8.41 lakh m ³ out of which around 5.30 lakh m ³ has been reutilized for development of construction material, roads, component backfill, protection works and facility areas etc. The total quantity of 4.35 lakh m ³ (considering the swelling factor) of muck has been dumped in two dumping sites. These dumping sites are located 30 m horizontally away from HFL of river Tons.
vi.	A minimum environmental flow of 3.55 cumecs i.e. average river discharge in the 4 consecutive leanest months in the 90% dependable year shall be have to be maintained. However, 5.0 cumecs shall be maintained as environmental flow during September – October and March – April months. Monsoon flow shall be 30% of the total Monsoon discharge.	The environment flow arrangement has been built in the barrage structure and specified environment flow is being maintained.
vii.	Continuous monitoring system for the flow rate measurement shall be installed and data be displaced at appropriate site for information of civil society and stakeholders. Six monthly results shall be submitted to the concerned Regional	The automation of different sensors is under process.

	Office of the Ministry and SPCB	
viii.	The Fishery Conservation & Management Plan as proposed in the EMP & in the reply submitted in August, 2011 shall be implemented completely in consultation with the Fisheries Department, Government of Uttarakhand. As proposed, the construction of fish ladder shall also be taken up and allocated budget of Rs. 1.00 Crore shall not be diverted for any other purpose.	Vertical slot type fish pass design has been finalized based upon recommendation of CIFRI. Accordingly, the Fish Ladder has been constructed in the barrage.
ix.	Real time telemetry and data acquisition system including all weather hydro meteorological stations shall be installed for in-flow monitoring and advance flood warning. Advance flood warning and advance communication systems shall be installed in consultation with the downstream authorities.	A hydro meteorological station has been set up at the SJVN Site Office near Barrage. It measures the ambient temperature, wind speed, relative humidity, wind direction, rainfall and dew point. Further, the procurement/installation of advance flood warning system (Early Warning System) at three location in the Catchment area is under process.
x.	As proposed in the EMP, the Compensatory Afforestation Programme on 79.76 ha of land with soil binding species @3000 plants/ha and broad leaved species @ 2000 plants/ha with the help of State Forest Department in the degraded forest area shall be strictly taken-up. The allocated grants of Rs.3.74 Crores shall not be diverted for any other purpose.	As part of diversion of forest land, compensatory afforestation over 80.00 ha of civil soyam and forest land has been proposed at a cost of Rs.1,84,24,160/-. The said amount has been deposited with Compensatory Afforestation Fund (CAF) Uttaranchal as part of compensatory levies for compliance to Stage – I Forest Clearance. The compensatory afforestation works have been completed on 80.00 hectare of land by Forest deptt. DFO, Tons Forest Division, Purola has submitted the progress report of CA for FY 2024-25 vide his letter No. 1084/3-2, dated 20.09.2024 (Annexure-I).
xi.	Greenbelt development along the approach roads, residential areas, office complex, barrage site and along the reservoir as proposed in the EIA/EMP with 50 different plant species shall be undertaken immediately and allocated grant of Rs. 44 lakhs shall not be diverted for any other purpose.	2430 nos. of various species of tree/grass saplings like, <i>jackranda</i> , <i>gulmohar</i> , <i>alstonia</i> , <i>silver oak</i> , <i>kachnar</i> , <i>deodar</i> , <i>pomegranate</i> , <i>local bamboo</i> , etc. have been planted in consultation with State Forest Department at appropriate locations in the project area. Plantation of remaining saplings is being taken up in synchronization with the completion of construction activities.
xii.	The Biodiversity Conservation and Management Plan shall be taken-up strictly as outlined in the EIA/EMP report and implemented in consultation with the	The detailed Biodiversity Conservation and Management Plan for Rs. 43.00 lakh has been prepared by CF Yamuna Circle, Dehradun & DFO, Tons Forest

	State Forest Department. The allocated grants of Rs. 43 lakhs shall not be diverted for any other purpose. A report of implementation shall be included in the six monthly compliance report to be submitted to the Ministry.	Division, Purola. Accordingly, SJVN has deposited Rs. 43.00 lakh to DFO Tons, Forest Division, Purola on 22.10.2019 for implementation. DFO, Tons Forest Division, Purola vide his letter No. 1084/3-2, dated 20.09.2024 has informed that a nil amount has been spent in FY 2024-25 against Biodiversity Conservation and Management Plan (Annexure-I). With this the total amount of ₹ 28.2 lakh has been spent so far against Biodiversity Conservation and Management Plan.
xiii.	Equipment likely to generate high noise levels shall 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, 1986 (EPA). For this necessary insulators etc. may be ensured.	Noise level data is got monitored by SJVN from various agencies like Noise Pollution Control Research Institute, BHEL, Haridwar & ECON Laboratory & Consultancy, Dehradun from 20.06.2018 onwards. The noise level data is being submitted to Regional Office, MoEF&CC Dehradun as part of six-monthly monitoring report. All high noise generating equipment's have been provided with mufflers as per manufacture's specification. Noise level data monitored on 16 & 17 September, 2024 by SJVN from ECON Laboratory & Consultancy, Dehradun is attached as Annexure-III .
xiv.	Any other clearance from any other organization/department, if required shall be obtained before commencing the project.	Condition is being complied with.
xv.	As outlined in the report submitted dated 29.12.2011 for an amount of Rs.6.26 crores shall be spent for the Local Area Development in the project	The Rehabilitation and Resettlement Plan of NMHEP, consisting of infrastructural and community development works is being implemented through R&R Administrator i.e. ADM Uttarkashi who is appointed by Govt. of Uttarakhand. In this regard, a budget of Rs.1445 lacs have been deposited with R&R Administrator, Uttarkashi out of which an amount of Rs. 1039.04 lacs have been incurred as follows: a) Rehabilitation grant – Rs.163.26 lacs b) Subsistence allowance – Rs.65.30 lacs c) Health care – Rs.163.21 lacs

		<p>d) Educational facilities – Rs.79.88 Lacs e) Recreational Facilities– Rs.2.35 Lacs. f) Widow Pension: 53.41 Lacs g) Infra & Community Development activity - Rs.450.25 Lacs. h) Income generation scheme- Rs 44.40 Lacs. i) Subsistence allowance- 16.98 Lacs</p>
xvi.	Two openings in the dam shall be kept to ensure environmental flow. One opening shall be for minimum environmental flow of 3.55 cumecs which will be un-gated and other will be gated which will be opened during the months when higher environmental flow of 5 cumecs is released. During the months of September – October and March – April, both the openings will discharge 5 cumecs.	Suitable provisions have been made in the Barrage structure to ensure environmental flow releases.
xvii.	Besides keeping environmental flows, fish hatcheries will be developed for stocking of fingerlings, both upstream and downstream of the dam site.	State Fisheries Department had been requested to provide a plan for development of fish hatcheries for stocking of fingerlings from 2009 onwards. In this regard, Director (Fisheries) vide letter dated 12.01.2018 and 23.03.19 and Asst. Director (Fisheries) vide letter no. 422 dated 27.10.2020 has communicated that they are in process of survey of land for Fish hatchery. The matter was also discussed in the 4 th MDC meeting held on 27.05.2023 at Dehradun wherein the Additional director state fisheries deptt informed that they are in discussion with the local population/ gram samiti in the nearby vicinity to provide land for such fish hatcheries.
xviii.	Pension for elderly widows shall be increased to Rs.1500 per month	The provision of yearly pension @Rs.18,000/- per year (Rs. 1500/- pm) has been kept in the R&R Plan of NMHEP for the vulnerable group family head residing in the affected village. In this regard, a total of 68 widow ladies have been covered under this provision and provided monthly pension of Rs. 1500/- pm w.e.f. Nov. 2017.
xix.	The public toilets (130 nos.) with septic tanks shall be provided and maintained in each of the affected villages. A sum of Rs.61 lakhs shall be kept separately for this purpose and shall not be diverted for any other purpose.	The list of beneficiaries for the construction of toilets in the Project Affected Villages have been finalized through BDO Mori and further submitted to ADM-cum-R&R Administrator, Uttarkashi. In this regard 84 nos. of eligible BPL

		families were benefited by constructed 84 nos of toilets in Project Affected villages i.e. Bainol, Naitwar & Gainchwangaon.
xx.	System and facility for solid waste management shall also be provided in the project affected villages.	Project has provided waste collection bins in the PAV i.e. <i>Bainol, Gainchwana & Naitwar</i> villages, amounting to around Rs. 1 lakh. Project had developed waste collection pits in Bainol Village (PAV) and Naitwar Village (PAV) and expenditure incurred are INR 58,000/- and INR 1,77,000/- respectively. Further, dustbins have been distributed in Project Affected Villages, Hospital, Tehsil Mori, Schools, Vendors of Mori Market, Forest Deptt. and SHO, Mori.
xxi.	Alternate sources for drinking water shall be provided to the affected villages and other villages in the vicinity, in case, natural springs are affected due to construction of the project. This shall be carried out in consultation with the State Irrigation and Public Health Department.	Noted. If it is technically established that the drinking water resources are dried up due to project works, the same shall be restored and water supply schemes shall be provided by SJVN on instructions of State Govt./Central Govt. through State Water Supply Dept. Nevertheless, drinking water supply schemes have already been provided in the Project Affected Villages viz. Bainol, Naitwar and Gainchwangaon as a CSR initiative through SJVN foundation.
xxii.	For planting of trees and other biological measures, indigenous and among them endemic tree species should be preferred. Turfing may be done by perennial grasses in consultation with a Horticulturist. Proponents themselves may take this responsibility under the guidance of a scientist/expert in vegetative propagation and mass multiplication (tissues culture)	Construction work at project site commenced in March 2018 and plantation and turfing activities depicted herein are being undertaken in consultation with scientists/experts. Work is in progress.
xxiii.	A specialist in reproduction biology of fishes, CIFRI should study the viable and feasible alternatives on the blocked migratory movement of fish species like <i>Schizothorax richardsonii</i> , <i>Tor putitora</i> , <i>Tor tor</i> , etc. due to construction of the dam so that these species would not become locally extinct.	The said study has been undertaken by CIFRI, Kolkatta. The final study on " <i>Viable and Feasible Alternatives on the Blocked Migratory Movement of Fish Species</i> " i.r.o. of NMHEP has been submitted by CIFRI and same has been shared with MoEF&CC (HQ) and Regional Office, Dehradun and also intimated vide six monthly report submitted as on 01 December 2021. The recommendations of study are being adopted by the project in the fish pass design.

PART – B: General Conditions

(i.)	Adequate arrangement for providing free fuel like kerosene/wood/LPG shall be made at project cost for the labour engaged in the construction work so that indiscriminate felling of trees is prevented.	To avoid indiscriminate felling of trees, canteen facility is being provided by Contractors to the labour force engaged in construction activity of the project.
(ii)	Medical facilities as well as recreational facilities shall also be provided to the labourers.	Dispensary has been provided at Contractor facility. Further, First Aid kits along-with trained staff provided at Barrage, Adit-1 and Power house.
(iii)	All the laborers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit.	Being complied.
(iv)	No fugitive dust emissions should be observed at the construction sites. Water sprinkling arrangements shall be made to suppress the fugitive emissions.	All measures suggested in the EIA/EMP report including sprinkling of water were undertaken at project site.
(v)	Potable drinking water and proper sanitary facilities should be provided for the labor force and the local area people.	The provision mentioned for said activity in the EMP is being taken care by main contractor as part of the contract agreement. Drinking water supply schemes have already been provided in the Project Affected Villages viz. Bainol, Naitwar and Gainchwangaon as a CSR initiative through SJVN foundation.
(vi)	Restoration of construction area including dumping site of excavated materials shall be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Construction work at project site has started in March 2018. Restoration work is being carried out in construction area and dumping sites. Plantation work is in progress at various locations.
(vii)	Financial provision shall be made in the total budget of the project for implementation of the above suggested safeguard measures.	Financial provision of Rs. 32.48 Crores towards implementation of Environment Management Plan were kept in the total budget of the project.
	Status on implementation of EMP? Budgetary provision on EMP for INR 32.48 crores shall be exclusively spent on the purpose.	Expenditure on EMP: INR 45.64 crores. Details on physical and financial progress on stipulated subheads of EMP is bulleted below,
	<ul style="list-style-type: none"> • CAT Plan (INR 7.69 crores) (Revised Cost: INR12.9666 crores)	Amount Deposited: INR 12.9666 crores. Utilization: State Forest Department has utilized approx. INR 1025.77 lakhs by Uttarakhand Forest Deptt. (Annexure-I&II) .

	<ul style="list-style-type: none"> R&R Plan (INR 13 crores) (Revised Cost: INR14.45 crores) 	Amount Deposited with ADM, Uttarkashi: INR 14.45 crores.
	<ul style="list-style-type: none"> CA and NPV for Forest Land Transfer (INR 3.74 crores) 	Amount deposited Against CA: INR1,84,24,160/- Against NPV: INR3,74,47,790/-
	<ul style="list-style-type: none"> Greenbelt, Landscape and Restoration Plan (INR 44 lakhs) 	<i>Expenditure done: INR 6.91 lakhs</i>
	<ul style="list-style-type: none"> Reservoir Rim Treatment Plan (INR 22.09 lakhs) 	INR 62.72 lakhs
	<ul style="list-style-type: none"> Fuel Management Plan (INR 3.5 lakhs) 	INR 13.821lakhs. Provided Solar Cocker to Project affected families.
	<ul style="list-style-type: none"> Fisheries Management Plan (Provision made in DPR) (INR 1 crores) 	Vertical slot type fish pass design has been finalized based upon recommendation of CIFRI. Accordingly, the work for construction of Fish Ladder having the contract price of Rs. 1.93 crore has been awarded on 08.09.2021.
	<ul style="list-style-type: none"> Water, Air and Noise Quality Management Plan (INR 20 lakhs) 	The provision mentioned for said activity in the EMP is being taken care by main contractor as part of the contract document No. II of IV, para 2.3.14.1- control of Air Pollution and para 2.3.14.2 – control of noise pollution.
	<ul style="list-style-type: none"> Muck Disposal Plan (INR 3.8780 crores) 	INR 8.86 crores.
	<ul style="list-style-type: none"> Health Management Plan (Provision made in R&R) (INR 40 lakhs) 	INR 125.01 lakh (One Ambulance and miscellaneous medical aids provided to PHC Mori) under Health Management Plan of R&R provision.
	<ul style="list-style-type: none"> Dam Break Modelling & Disaster Management Plan (INR 52.60 lakhs) 	Crisis Disaster Management and Emergency Action Plan of NMHPS have been prepared by National Safety Council, Mumbai.
	<ul style="list-style-type: none"> Environmental Awareness Plan (INR 9 lakhs) 	Expenditure done: INR 3.84 lakhs (approx.)
	<ul style="list-style-type: none"> Environmental Monitoring Plan (INR 36.50 lakhs) 	INR 34.62 lakhs. Details: Monitoring being done by M/s ECON Laboratory & Consultancy, Dehradun. Latest monitoring done in September,2024.
(viii)	The project proponent shall also submit six monthly compliance reports of the stipulated EC conditions (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC and State Pollution Control Board. Both monitoring report and compliance	Six-monthly compliance reports are being regularly submitted to MoEF&CC Regional Office (North-Central Zone), Dehradun, CPCB Zonal Office (North), Lucknow and Uttarakhand Environment Protection and Pollution Control Board, Dehradun and also uploaded on our

	report shall be up-loaded on the website of the Proponent.	website www.sjvn.nic.in . Yes, latest six-monthly report submitted by project to MoEF&CC on 21 May, 2024.
5.	The project proponent shall provide full cooperation and all required documents/data to the officials from concerned Regional Office of the Ministry who would be monitoring the implementation of environmental safeguards.	Full cooperation will be provided to officials from concerned Regional office of MoEF&CC during monitoring of the project.
6.	The responsibility of implementation of environmental safeguards rests fully with the M/s Satluj Jal Vidyut Nigam Ltd. And Government of Uttarakhand.	Noted
7.	Besides the above stated conditions, the project proponent and Government of Uttarakhand shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time.	All environmental safeguard measures proposed in the EIA/EMP report are being implemented.
8.	The Environmental Management Plan shall be strictly adhered to and a sum of Rs.32.48 crores, the budgetary provisions for implementation of EMP shall not be diverted for any other purpose.	Financial provision of Rs. 32.48 Crores towards implementation of Environment Management Plan shall not be diverted for any other purpose. At present a total of Rs. 45.64 crores have been spent so far on implementation of EMP.
9.	Any change in the scope of the project shall be intimated to the Ministry and fresh approval if required, shall be taken from the Ministry.	There is no change in the scope of the project.
10.	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including	Noted
11.	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.	The major work for the project has been awarded on 05.12.17 and construction activities have commenced from March 2018 onwards.
12.	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad/Municipal Corporation, Urban local body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the Proponent.	The condition has been complied with. The clearance letter is available on company website www.sjvn.nic.in .
13.	A multi-disciplinary committee for monitoring the implementation of environmental safeguards during construction shall be constituted by the	A Multi-Disciplinary Committee for Naitwar Mori HE Project has been constituted vide MoEF&CC letter no. J-12011/16/2010-IA.I dated 09.07.2018.

	Proponent in consultation with the Ministry. The proponent shall suggest the members for approval of the Ministry. Proponent shall organize six monthly meetings of the Committee and submit the monitoring report to the Ministry.	The 4 th meeting of MDC was held on 27.05.2023.
14.	The proponent should advertise at least two local newspapers widely circulated in the region around the project. One of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letter area available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment, Forest Climate Change at http://www.envfor.nic.in	Complied
15.	After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.	Condition shall be complied during operation stage of the project.
16.	The proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitoring data (both in hard copies as well as e-mail) to the respective Regional office of MoEF&CC and Zonal office of CPCB and the SPCB.	Six-monthly compliance reports are being regularly submitted to MoEF&CC Regional Office (North-Central Zone), Dehradun, CPCB Zonal Office (North), Lucknow and Uttarakhand Environment Protection and Pollution Control Board, Dehradun and also uploaded on our website www.sjvn.nic.in . The last compliance report for the period ending March, 2024 was submitted on 21.05.2024. Environment Monitoring results carried out during the period of compliance are enclosed as Annexure-III .
17.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if referred, within a period of 30 days from the date of issue, as prescribed under Section – 10 of the National Green Tribunal Act, 2010.	To the best of our knowledge, no such appeal has been made with National Green Tribunal against Environment Clearance issued to Naitwar Mori HE Project.



कार्यालय, प्रभागीय वनाधिकारी, टौन्स वन प्रभाग, पुरोला

E-Mail:- dfo_tons@yahoo.co.in, Tel:- 01373223328



भारत सरकार
GOVERNMENT OF INDIA

पत्रांक- 1084

/3-2 दिनांक, पुरोला,

20/09/2024

सेवा में,

उप-महाप्रबन्धक (सिविल/पर्यावरण);
नैटवाड़-मोरी जल विद्युत परियोजना, (60 मेगावाट)
यमुना परिसर, बैनोल उत्तरकाशी।

विषय :- नैटवाड़ मोरी जल विद्युत परियोजना की कैचमेंट कैचमेंट उपचार योजना, जैव विविधता प्रबन्धन योजना एवं क्षतिपूरक वनीकरण की अर्द्धवार्षिक प्रगति आख्या के सम्बन्ध में।

सन्दर्भ :- आपका पत्रांक-एसजेवीएन/एनएमएचईपी/पर्यावरण/24-128 दिनांक 02.09.2024।

महोदय,

उपरोक्त विषयक सन्दर्भित पत्र के क्रम में इस वन प्रभाग से नैटवाड़ मोरी जल विद्युत परियोजना के अन्तर्गत कैचमेंट उपचार योजना, जैव विविधता योजना, क्षतिपूरक वनीकरण एवं देवता रेंज भासला कक्ष सं0 1, 2 एवं 3 खनन क्षेत्र तथा सान्द्रा रेंज बैनोल कक्ष संख्या 15 एवं 16 खनन क्षेत्र के सापेक्ष वृक्षारोपण कार्य की प्रगति सूचना संलग्न कर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

संलग्न-उपरोक्तानुसार।

भवदीय,

(डी0पी0 बलूनी)

प्रभागीय वनाधिकारी,
टौन्स वन प्रभाग, पुरोला।

टौन्स वन प्रभाग, पुरोला में नैटवाड़-मोरी जल विद्युत परियोजना में कैट प्लान योजना के अन्तर्गत किये गये कार्यों का विवरण। (वित्तीय वर्ष 2024-25)

क्र०सं	योजना का नाम	कार्य का नाम	प्राप्त धनराशि	इकाई	भौतिक	व्यय धनराशि	अभ्युक्ति
0	नाम						
1	2	3	4	5	6	7	8
1	सतलुज जल विद्युत परियोजना के अन्तर्गत सान्द्रा रेंज के तटीय परियोजना (वर्ष 2024-25) के अन्तर्गत 15 व 16 बकर जोन के आस-पास वन पचायत ग्राम समारोह पर 7000 पौधों का वृक्षारोपण कार्य	सतलुज जल विद्युत परियोजना के अन्तर्गत सान्द्रा रेंज के तटीय परियोजना (वर्ष 2024-25) के अन्तर्गत 15 व 16 बकर जोन के आस-पास वन पचायत ग्राम समारोह पर 7000 पौधों का वृक्षारोपण कार्य	897,000	पौध संख्या	वन पचायत सरपंच सारस को यावत 70% सफलता से वृक्षारोपण के प्रथम वर्ष-अनुसूचना 2024-25 (7000 पौधे रोपण)	890,800	--
2	जैव विविधता के अन्तर्गत प्रात	जैव विविधता के अन्तर्गत प्रात	1,860,228	पौध संख्या	जैव विविधता वर्गीकरण के अन्तर्गत किये गये पौधों की देख-रेख व अनुसूचना कार्य करने का पारिश्रमिक (20 हे०)	381,066	
3	नैटवाड़-मोरी जल विद्युत परियोजना के निर्माण एवं विकास कार्य के अन्तर्गत टौन्स वन प्रभाग, पुरोला द्वारा तिलली पार्क के समीप निर्मित शो-मालाय की व्यवस्था कार्य किये जाने हेतु	नैटवाड़-मोरी जल विद्युत परियोजना के निर्माण एवं विकास कार्य के अन्तर्गत टौन्स वन प्रभाग, पुरोला द्वारा तिलली पार्क के समीप निर्मित शो-मालाय की व्यवस्था कार्य किये जाने हेतु	20,000	-	देवता रेंज के अन्तर्गत तिलली पार्क के समीप निर्मित शो-मालाय की व्यवस्था	20,000	
4	नैटवाड़-मोरी जल विद्युत परियोजना के निर्माण एवं विकास के अन्तर्गत खनन युगान क्षेत्र देवता रेंज के भासला-1, 2 व 3 के बकर जोन के आस-पास क्षेत्रों में वृक्षारोपण कार्य।	नैटवाड़-मोरी जल विद्युत परियोजना के निर्माण एवं विकास के अन्तर्गत खनन युगान क्षेत्र देवता रेंज के भासला-1, 2 व 3 के बकर जोन के आस-पास क्षेत्रों में वृक्षारोपण कार्य।	179,800	पौध संख्या	वन पचायत देवती को 2000 पौधारोपण का भुगतान	179,800	
5	सतलुज जल विद्युत परियोजना (सी०ए०) अनुसूचना परम वर्ष	Thadung-3a (Puroila Range) Thadung-12 (Puroila Range) Dalhu-8 (Puroila Range) Ludraia Soyam (Singloor Range) Benol-4 (Sandra Range)	253000 253000 253000 114000 139000	ha ha ha ha ha	20.00 20.00 20.00 9.00 11.00	0 0 0 0 0	108977 108,977 1580643
Total :-			1012000		80.00		
G. Total :-			3969028				

प्रभोगीस वनाधिकारी,
टौन्स वन प्रभाग, पुरोला।

Format-1
Compensatory Afforestation

Name of Forest Division:- Tons														Financial Year: 2024-25	
S. No	Name of Forest Land Transfer Case	Area of Forest Land Transferred (Ha)	Sanction letter No. with the date	Activit y(s)	Unit	Plants/ Ha	Proposed Target		Achieved Target		Location		Block/ Compartment	Remark	
							Phy	Fin	Phy	Fin	Foest Range	GPS ordinates			
1	जनपद उतारकाशी	107.52	प्र. सं. 8बी / 20/सो/0/0	160	Ha	8000	4.0	1.09	0	0	Devtā	30 57' 37.55"	Bhakarwar-4	15	
2	विद्यासखर, मोरी में नैदाड-जल विद्युत परियोजना- 60 मेगावाट के विद्यासखर क्षेत्र से स्टेसन तक 220 केवीओ डबल सर्किट पारंपर लाईन निर्माण हेतु 107.52 है० वन भूमि का गैर वारिकी करार हेतु एरओवो/एनो वि० को लीज हेतु अर्थात् वन शक्तिरक्त जमा की जाने वाली धनराशि का भंग प्रया प्रस्ताव सं०-FU/UK/TRANS/145533/2021		प्र. सं. 4/11/2022/ए. सं. /1690 दिनांक 07.03.2022		Ha	8000	4.0	1.09	0	0	Devtā	30 57' 30.84"	Bhakarwar-4		
3					Ha	10000	5.0	1.36	0	0	Devtā	30 57' 22.37"	Bhakarwar-4		
4					Ha	30000	15.0	4.07	0	0	Devtā	30 57' 26.07"	Kukrera-5		
5					Ha	20000	10.0	2.72	0	0	Devtā	30 57' 35.04"	Kukrera-5		
6					Ha	10000	5.0	1.36	0	0	Kotigad	31.067' 81.7"	Jakuli-1		
7					Ha	40000	20.0	5.43	0	0	Kotigad	31.076' 29.7"	Jakuli-2b		
8					Ha	20000	10.0	2.72	0	0	Kotigad	31.066' 33.7"	Jakuli-3a		
9					Ha	20000	10.0	2.72	0	0	Kotigad	31.069' 59.5"	Jakuli-3a		
10					Ha	12000	6.0	1.63	0	0	Kotigad	31.104' 90.0"	Saridhar-1		
11					Ha	20000	10.0	2.72	0	0	Kotigad	31.099' 41.6"	Saridhar-1		
12					Ha	10000	5.0	1.36	0	0	Kotigad	31.907' 26.4"	Saridhar-1		
13					Ha	10000	5.0	1.36	0	0	Kotigad	31.007' 78.2"	Sisan-2		
14					Ha	32000	16.0	4.35	0	0.62	Singtoor	30 58' 51.51"	Aura-1b		

Plantation Maintenance (year)

15					Ha	20000	10.0	2.72	10	0.40	Singtoor	30 58' 47.4"	Aura-1c	
16					Ha	10000	5.0	1.36	0	0.20	Singtoor	78 08' 04.1"	Lodhala-1a	
17					Ha	20000	10.0	2.72	0	0	Puroia	31 01' 49.232"	Dalhu-7b	
					Total :-	300000	150	40.74	10	1.22		078 06' 15.57"		
					Ha	20000	10.0	5.33	10	2.09	Kotigad	30 54' 0.59"	Jakuh-1	
					Total :-	20000	10.0	5.33	10	2.09		78 0' 15.25"		
					G.Total :-	320000	160	46.07	20	3.31		31.074' 475"		Plantation

प्रभागीय वनधिकारी,
 क्षेत्र वन प्रभाग, पुरोला।

कैट प्लान कार्यों की भौतिक प्रगति का कैट प्लानवार /प्रभागवार /मदवार विवरण
प्रपत्र-1

माह अगस्त 2024 (धनराशि लाख में)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
कैट प्लान का नाम	वृत्त का नाम	प्रभाग/पी.एम.यू.	कोड सं०	कार्य विवरण	प्रस्तावित कार्य	कीलकाम/अनुसार भौतिक कार्यों की मात्रा	वित्तीय वर्ष 2019-20 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि	वित्तीय वर्ष 2020-21 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि	वित्तीय वर्ष 2021-22 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि	वित्तीय वर्ष 2022-23 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि	वित्तीय वर्ष 2023-24 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि	वित्तीय वर्ष 2024-25 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1.3 प्रशासनिक खर्च																		
1.3.1 पूर्वागत खर्च																		
1.1.1.1 पूर्वागत खर्च																		
उपकरण/आपूर्ति तथा सामग्री की खपत तथा क्षीय भू/रहित मरम्मत																		
1.1.1.2 पूर्वागत खर्च																		
गहन या कम गहराई एवं दूरवर्षीय																		
1.1.2.1 अग्रणी कार्य																		
सिंचित खेत तथा शान प्रकृत से सिंचन																		
1.1.2.2 अग्रणी कार्य																		
वन कर्मचारियों को देखरेखित करना/मानव संसाधन का रखरखाव व मरम्मत तथा सिंचित एवं शान सिंचितों का रखरखाव व मरम्मत																		
1.1.2.3 अग्रणी कार्य																		
वर्षा कालांतर धारा																		
1.1.2.4 अग्रणी कार्य																		
कामगारों के अग्रणी मरम्मत/अन्य सिंचित																		
1.1.2.6 अग्रणी कार्य																		
कुल योग-																		
1.2 अग्रणी कार्य																		
अनुसंधान एवं नवप्रवर्धन (R&D)																		
कुल योग-																		
2.1 संस्थागत प्रदर्शनी का विकास																		
2.1.1 संस्थागत विकास एवं स्थापना																		
संस्थागत विकास एवं स्थापना (डेपॉजिट/अन्य में प्रदर्शित संस्थागत के माध्यम से अधिग्रहण किए जाने हैं)																		
2.1.2 प्रदर्शनी कार्य																		
2.1.2.1 प्रदर्शनी कार्य																		
नदी/नाला की सफाई/सुधार/संरक्षण का कार्य																		
2.1.2.2 प्रदर्शनी कार्य																		
नदी/नाला/सिंचित क्षेत्र का सिंचन																		
2.1.2.3 प्रदर्शनी कार्य																		
सिंचित क्षेत्र सुधार/संरक्षण/सिंचन																		
2.1.2.4 प्रदर्शनी कार्य																		
सुधार/संरक्षण का सुधार/संरक्षण																		

परियोजनावार/मदवार उपलब्ध धनराशि एवं इसके विरुद्ध क्रमिक वित्तीय प्रगति का विवरण (धनराशि लाख में)

प्रपत्र-5

अगस्त-2024

कैट प्लान का नाम	वृत्त का नाम	प्रभाग/पी0ए म0यू0 का नाम	घटक/उपघटक का नाम	सकल उपलब्ध धनराशि	उपलब्ध धनराशि	भौतिक उपलब्धि	उपलब्ध धनराशि के सापेक्ष क्रमिक वित्तीय प्रगति	समाधित धनराशि धनराशि (e-8)
1	2	3	4	5	6	7	8	9
मोरी-नैटवाड जल विद्युत परियोजना	यमुना वृत्त	टॉस वन प्रभाग, पुरोला	1. परियोजना प्रबन्धन 2. तैयारी का फंड 3. कंवोन्ट उपचार कार्य 4. समेकन फंड 5. आक्रामिक व्यय योग	7.68000 3.56000 51.52000 0.00000 4.83000 67.59000	0.00000 0.00000 10.00000 0.00000 0.00000 10.00000	L.S L.S L.S L.S	0.00000 0.00000 3.72020 0.00000 0.00000 3.72020	0.00000 0.00000 6.27980 0.00000 0.00000 6.27980

प्रभोगीय प्रभोगीय,
टॉस वन प्रभाग, पुरोला



एसजेवीएन लिमिटेड

(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)

नैटवाड - मोरी जल विद्युत स्टेशन (60 मेगावाट)

यमुना परिसर, बैनोल, उत्तरकाशी (उत्तराखण्ड) 249128

पत्रांक एसजेवीएन/एनएमएचपीएस/ पर्यावरण/ 24-128

दिनांक 02-09-2024

सेवा में,

प्रभागीय वनाधिकारी

टौंस वन प्रभाग

पुरोला, जनपद- उत्तरकाशी (उत्तराखण्ड)

टौंस वन प्रभाग, पुरोला
रजिस्टर सं०..... 1127
प्लॉट सं०..... 12
सेक सं०..... 1
दिनांक 12/09/2024

विषय:- नैटवाड मोरी जल विद्युत परियोजना की कैचमेंट उपचार योजना, जैव विविधता प्रबन्धन योजना एवं क्षतिपूरक वनीकरण की अर्द्धवार्षिक प्रगति आख्या के सम्बन्ध में।

महोदय/ महोदया,

पर्यावरण वन एवं जलवायु परिवर्तन, मंत्रालय, भारत सरकार द्वारा नैटवाड-मोरी जल विद्युत परियोजना को पर्यावरण स्वीकृति प्रदान की गयी है। पर्यावरण स्वीकृति में वर्णित शर्तों के अनुसार, पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय, केन्द्रीय प्रदूषण नियंत्रण बोर्ड एवं उत्तराखण्ड राज्य प्रदूषण बोर्ड को परियोजना द्वारा प्रत्येक वर्ष 1 जून एवं 1 दिसम्बर तक पर्यावरण प्रबन्धन की अर्द्धवार्षिक प्रगति आख्या से अवगत कराना होता है।

अतः उपरोक्त के क्रम में महोदय से अनुरोध है कि पर्यावरण की अनुपालना हेतु नैटवाड मोरी जल विद्युत परियोजना की कैचमेंट उपचार योजना, जैव विविधता योजना, क्षतिपूरक वनीकरण एवं देवता रेंज-भासला कक्ष संख्या 1, 2 व 3 खनन क्षेत्र तथा सांद्रा रेंज-बैनोल कक्ष संख्या - 15 व 16 खनन क्षेत्र के सापेक्ष वृक्षारोपण कार्य के सम्बन्ध में दिनांक 30 सितम्बर 2024 को समाप्त होने जा रही वित्तीय वर्ष 2024-2025 तक की अर्द्धवार्षिक भौतिक एवं वित्तीय प्रगति आख्या इस कार्यालय को प्रेषित करने की महती कृपा करें, ताकि पर्यावरण स्वीकृति शर्त की अनुपालना समय पर की जा सके।

धन्यवाद।

भवदीय

(मुकेश तोमर)

उप-महाप्रबन्धक (सिविल/पर्यावरण)

प्रतिलिपि: मुख्य महाप्रबन्धक/ परियोजना प्रमुख, नैमोजविप महोदय को सादर सूचनार्थ।



कार्यालय-उपनिदेशक, गोविन्द वन्यजीव विहार एवं राष्ट्रीय पार्क, पुरोला।

पुरोला, दूरभाष नं० 01373-223433, Email- gwlspurola@gmail.com

पत्रांक:- 631/3-19 पुरोला: दिनांक 18.10.2024

सेवा में
उप-महाप्रबन्धक (सिविल/पर्यावरण)
एस.जे.वी.एन. लिमिटेड,
नैटवाड़ मोरी, उत्तरकाशी।

विषय:- नैटवाड़ मोरी जल विद्युत परियोजना की कैचमेंट उपचार योजना, जैव विविधता प्रबन्धन योजना एवं क्षतिपूरक वनीकरण की अर्द्धवार्षिक प्रगति आख्या के सम्बन्ध में।

सन्दर्भ:- आपका पत्रांक एसजेवीएन/एनएमएचपीएस/पर्यावरण/24-129 दिनांक 02.09.2024

महोदय
उपरोक्त विषयक सन्दर्भित पत्र के क्रम में गोविन्द वन्यजीव विहार एवं राष्ट्रीय पार्क के अन्तर्गत वर्तमान वित्तीय वर्ष 2024-25 हेतु नैटवाड़-मोरी जल विद्युत परियोजना के अन्तर्गत अर्द्धवार्षिक प्रगति सूचना निम्नानुसार प्रेषित है-

Naltwar Mori CAT Plan Expenditure Details for First Half of FY 2024-25			
S.No.	Particulars	Released Amount	Expendiure
1	Project Management	0.00	0.00
2	Preparatory Phase	0.00	0.00
3	Catchment Area Treatment	20.00	0.76
4	Consolidated Phase	0.00	0.00
5	Contingency Phase	0.0	0.00
	Total:-	20.00	0.76

पत्रांक / समदिनांकित।
प्रतिलिपि- प्रभागीय वनाधिकारी/नोडल अधिकारी, टॉस वन प्रभाग, पुरोला को सूचनार्थ प्रेषित।

भुवदीय,
उप निदेशक,
गोविन्द वन्य जीव विहार एवं राष्ट्रीय पार्क,
पुरोला, उत्तरकाशी

उप निदेशक,
गोविन्द वन्य जीव विहार एवं राष्ट्रीय पार्क,
पुरोला, उत्तरकाशी



ECON LABORATORY & CONSULTANCY

(ISO: 9001, 14001 & 45001 Certified & MOEF & CC Recognized Laboratory)

Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client:	ULR No:	TC550724000007555F
DGM (Civil/Environment) Naitwar, Mori, Hydro Electric Project Bahdol, Mori, Uttarkashi, Uttarakhand Pin-249128	Reporting Date:	20/09/2024
	Receipt Date:	17/09/2024
	Period of Testing:	18-20/09/2024
	Format No:	7.8 F-01
	Party Reference No:	By Mail

SAMPLE DESCRIPTION: AMBIENT AIR QUALITY MONITORING

General Information

Sample Collected by	: Lab Representative
Sampling Location	: Near Bairaj Area
Instrument Used	: RDS with PM _{2.5} Attachment
Instrument Code	: ECON/RDS/01
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 16/09/2024 – 17/09/2024
Time of Monitoring	: 11.00 AM-11.00 AM
Ambient Temperature (°C)	: Min.25.00, Max.35.00
Surrounding activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if any	: No
Sampling & Analysis Protocol	: IS-5182
Parameters Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Test Methods	Test Results	Units	NAAQS#
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23), 2006, RA2017, (Cyclonic Method)	76.3	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	IS:5182 (P-24), 2019, (Gravimetric method)	34.0	µg/m ³	60
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-2):2001, RA2017	13.7	µg/m ³	80
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-6):2006, RA2017	28.8	µg/m ³	80
5.	Ammonia (NH ₃)	IS:5182 (P-25), 2018	1.42	µg/m ³	400
6.	Carbon Monoxide (CO)	IS:5182 (P-10), 1999 RA 2019	0.55	mg/m ³	4
7.	Benzene (C ₆ H ₆)	IS:5182 (Part-11), 2006, RA 2017	ND**	µg/m ³	5
8.	Benzo(a)pyrene,	IS:5182 (Part-12):2004, RA:2019	ND**	ng/m ³	1
9.	Lead (Pb)	IS:5182 (P-22), Air Acetylene Method, 2004, RA:2019	ND**	µg/m ³	1
10.	Arsenic (As)	IS:5182 (Part-22), 2020	ND**	ng/m ³	6
11.	Nickel (Ni)	IS:5182 (P-26), 2020 Air Acetylene Method	ND**	ng/m ³	20
12.	Ozone (O ₃)	IS:5182 (P-9), 1974, RA:2019 Colorimetric Method,	18.6	µg/m ³	180

Note-# NAAQS-National Ambient Air Quality Standard: Schedule-VII, [Rule 3 (3B)], [Part-II-Sec.-3(i) 16.

**ND:Not Detected

End of Report

CHECKED BY :

AUTHORISED SIGNATORY :

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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client:	ULR No:	TC550724000007556F
DGM (Civil/Environment) Naitwar, Mori, Hydro Electric Project Bahdol, Mori, Uttarkashi, Uttarakhand Pin-249128	Reporting Date:	20/09/2024
	Receipt Date:	17/09/2024
	Period of Testing:	18-20/09/2024
	Format No:	7.8 F-01
	Party Reference No:	By Mail

SAMPLE DESCRIPTION: AMBIENT AIR QUALITY MONITORING

General Information

Sample Collected by	: Lab Representative
Sampling Location	: Near D.G. Area
Instrument Used	: RDS with PM _{2.5} Attachment
Instrument Code	: ECON/RDS/02
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 16/09/2024 - 17/09/2024
Time of Monitoring	: 11.30 AM-11.30 AM
Ambient Temperature (°C)	: Min.25.00, Max.35.00
Surrounding activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if any	: No
Sampling & Analysis Protocol	: IS-5182
Parameters Required	: As per Work Order

TEST RESULTS

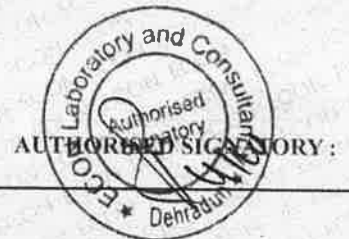
S. No.	Parameters	Test Methods	Test Results	Units	NAAQS#
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23), 2006, RA2017, (Cyclonic Method)	81.4	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	IS:5182 (P-24), 2019, (Gravimetric method)	30.1	µg/m ³	60
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-2):2001, RA2017	15.7	µg/m ³	80
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-6):2006, RA2017	31.8	µg/m ³	80
5.	Ammonia (NH ₃)	IS:5182 (P-25), 2018	1.15	µg/m ³	400
6.	Carbon Monoxide (CO)	IS:5182 (P-10), 1999 RA 2019	0.87	mg/m ³	4
7.	Benzene (C ₆ H ₆)	IS:5182 (Part-11), 2006, RA 2017	ND**	µg/m ³	5
8.	Benzo(a)pyrene,	IS:5182 (Part-12):2004, RA:2019	ND**	ng/m ³	1
9.	Lead (Pb)	IS:5182 (P-22), Air Acetylene Method, 2004, RA:2019	ND**	µg/m ³	1
10.	Arsenic (As)	IS:5182 (Part-22), 2020	ND**	ng/m ³	6
11.	Nickel (Ni)	IS:5182 (P-26), 2020 Air Acetylene Method	ND**	ng/m ³	20
12.	Ozone (O ₃)	IS:5182 (P-9), 1974, RA:2019 Colorimetric Method,	20.7	µg/m ³	180

Note-# NAAQS-National Ambient Air Quality Standard: Schedule-VII, [Rule 3 (3B)], [Part-II-Sec.-3(i) 16.

**ND:Not Detected

End of Report

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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client: DGM (Civil/Environment) Naitwar, Mori, Hydro Electric Project Bahdol, Mori, Uttarkashi, Uttarakhand Pin-249128	ULR No:	TC550724000007557F
	Reporting Date:	20/09/2024
	Receipt Date:	17/09/2024
	Period of Testing:	18-20/09/2024
	Format No:	7.8 F-01
	Party Reference No:	By Mail

SAMPLE DESCRIPTION: AMBIENT AIR QUALITY MONITORING

General Information

Sample Collected by	: Lab Representative
Sampling Location	: Guest House Near Main Gate
Instrument Used	: RDS with PM _{2.5} Attachment
Instrument Code	: ECON/RDS/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 16/09/2024 – 17/09/2024
Time of Monitoring	: 11.50 AM-11.00 PM
Ambient Temperature (°C)	: Min.25.00, Max.35.00
Surrounding activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if any	: No
Sampling & Analysis Protocol	: IS-5182
Parameters Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Test Methods	Test Results	Units	NAAQS#
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23), 2006, RA2017, (Cyclonic Method)	73.2	µg/m ³	100
2.	Particulate Matter (PM _{2.5})	IS:5182 (P-24), 2019, (Gravimetric method)	28.6	µg/m ³	60
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-2):2001, RA2017	15.2	µg/m ³	80
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-6):2006, RA2017	24.7	µg/m ³	80
5.	Ammonia (NH ₃)	IS:5182 (P-25), 2018	0.93	µg/m ³	400
6.	Carbon Monoxide (CO)	IS:5182 (P-10), 1999 RA 2019	0.23	mg/m ³	4
7.	Benzene (C ₆ H ₆)	IS:5182 (Part-11), 2006, RA 2017	ND**	µg/m ³	5
8.	Benzo(a)pyrene,	IS:5182 (Part-12):2004, RA:2019	ND**	ng/m ³	1
9.	Lead (Pb)	IS:5182 (P-22), Air Acetylene Method, 2004, RA:2019	ND**	µg/m ³	1
10.	Arsenic (As)	IS:5182 (Part-22), 2020	ND**	ng/m ³	6
11.	Nickel(Ni)	IS:5182 (P-26), 2020 Air Acetylene Method	ND**	ng/m ³	20
12.	Ozone (O ₃)	IS:5182 (P-9), 1974, RA:2019 Colorimetric Method,	17.8	µg/m ³	180

Note-# NAAQS-National Ambient Air Quality Standard: Schedule-VII, [Rule 3 (3B)], [Part-II-Sec.-3(i) 16.

**ND:Not Detected

End of Report

CHECKED BY:



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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client:	ULR No.:	TC550724000007558F
DGM (Civil/Environment) Naitwar, Mori, Hydro Electric Project Bahdol, Mori, Uttarkashi, Uttarakhand Pin-249128	Reporting Date:	20/09/2024
	Receipt Date:	17/09/2024
	Format No.:	7.8-F-01
	Party Reference:	By Mail

SAMPLE DESCRIPTION: AMBIENT NOISE MONITORING

General Information:

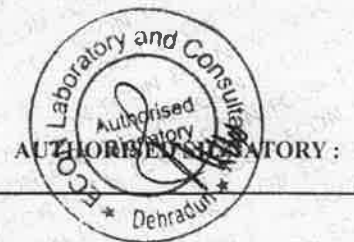
Sample Collected by	: Lab. Representative
Sampling Location	: Near Bairaj Area
Instrument Used	: Sound Level Meter
Instrument Code	: ECON/SLM/01
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 16/09/2024 – 17/09/2024
Time of Monitoring	: 12.00 PM - 12.00 PM
Ambient Temperature (°C)	: Min. 25.00, Max. 35.00
Surrounding activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if any	: No
Sampling & Analysis Protocol	: CPCB Guideline & IS:9989:1981, RA:2014
Parameters Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Results	Unit
1.	Equivalent Noise Level(6.00 AM to 10.00 PM)Day Time	50.8	dB
2.	Equivalent Noise Level(10.00 PM to 06.00 AM)Night Time	43.6	dB
Requirement as per CPCB Guideline			
		Day	Night
1.	Industrial Area, dB	75	70
2.	Commercial Area, dB	65	55
3.	Residential Area, dB	55	45
4.	Silence Area, dB	50	40

End of Report

CHECKED BY:



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(ISO: 9001, 14001 & 45001 Certified & MOEF & CC Recognized Laboratory)

Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client:	ULR No:	TC550724000007559F
DGM (Civil/Environment) Naitwar, Mori, Hydro Electric Project Bahdol, Mori, Uttarkashi, Uttarakhand Pin-249128	Reporting Date:	20/09/2024
	Receipt Date:	17/09/2024
	Format No:	7.8-F-01
	Party Reference:	By Mail

SAMPLE DESCRIPTION: AMBIENT NOISE MONITORING

General Information:

Sample Collected by	: Lab.Representative
Sampling Location	: Near D.G. Area
Instrument Used	: Sound Level Meter
Instrument Code	: ECON/SLM/02
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 16/09/2024 – 17/09/2024
Time of Monitoring	: 12.30 PM - 12.30 PM
Ambient Temperature (°C)	: Min.25.00, Max.35.00
Surrounding activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if any	: No
Sampling & Analysis Protocol	: CPCB Guideline & IS:9989:1981,RA:2014
Parameters Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Results	Unit
1.	Equivalent Noise Level(6.00 AM to 10.00 PM)Day Time	53.2	dB
2.	Equivalent Noise Level(10.00 PM to 06.00 AM)Night Time	42.6	dB
Requirement as per CPCB Guideline			
		Day	Night
1.	Industrial Area, dB	75	70
2.	Commercial Area, dB	65	55
3.	Residential Area, dB	55	45
4.	Silence Area, dB	50	40

End of Report

CHECKED BY:

AUTHORISED SIGNATORY:



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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client:	ULR No:	TC550724000007560F
DGM (Civil/Environment) Naitwar, Mori, Hydro Electric Project Bahnol, Mori, Uttarkashi, Uttarakhand Pin-249128	Reporting Date:	20/09/2024
	Receipt Date:	17/09/2024
	Format No:	7.8-F-01
	Party Reference:	By Mail

SAMPLE DESCRIPTION: AMBIENT NOISE MONITORING

General Information:

Sample Collected by	: Lab. Representative
Sampling Location	: Guest House Near Main Gate
Instrument Used	: Sound Level Meter
Instrument Code	: ECON/SLM/03
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 16/09/2024 – 17/09/2024
Time of Monitoring	: 12.50 PM - 12.50 PM
Ambient Temperature (°C)	: Min.25.00, Max.35.00
Surrounding activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if any	: No
Sampling & Analysis Protocol	: CPCB Guideline & IS:9989:1981,RA:2014
Parameters Required	: As per Work Order

TEST RESULTS

S. No.	Parameters	Results	Unit
1.	Equivalent Noise Level(6.00 AM to 10.00 PM)Day Time	51.5	dB
2.	Equivalent Noise Level(10.00 PM to 06.00 AM)Night Time	40.4	dB
Requirement as per CPCB Guideline			
		Day	Night
1.	Industrial Area, dB	75	70
2.	Commercial Area, dB	65	55
3.	Residential Area, dB	55	45
4.	Silence Area, dB	50	40

End of Report

CHECKED BY:



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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client:		ULR No:	TC550724000007561F
DGM (Civil/Environment)		Reporting Date:	28/09/2024
Naitwar, Mori, Hydro Electric Project		Date of Sampling:	23/09/2024
Bahdol, Mori, Uttarkashi, Uttarakhand		Receipt Date:	23/09/2024
Pin-249128		Period of Testing:	24/09/2024-28/09/2024
		Sample Collected By:	Lab. Rep.
		Sampling Type:	Grab
Sample Description:	Surface Water	Preservation:	Refrigerated
Sampling Location:	UP Stream (Bairaj Storage)	Format No:	7.8F-01
Sampling Protocol:	ECON/STP/WATER	Party Reference No:	By Mail
Sample Quantity:	10 Ltr.	Parameter Required:	As Per Work Order

TEST RESULTS

S. No.	Parameters	Test-Methods	Results	Units	Limit of IS: 10500-2012	
					Desirable Limits (Max)	Permissible Limits the absence of Alternate Source (Max.)
1.	General Parameters					
2.	pH (at 25°C)	IS 3025 (Part-11) 1983, RA 2017, Electrometric Method	7.02	-	6.5 to 8.5	No relaxation
3.	Turbidity	IS 3025 (Part-10) 1984, RA 2017, Nephelometric method	<1.0	NTU	1	5
4.	Total Hardness as CaCO ₃	IS 3025 (Part-21) 2009, RA 2019, (a) Ethylenediamine tetra acetic acetate acid (EDTA) method	34.6	mg/l	200	600
5.	Calcium as Ca	IS 3025 (Part-40) 1991, RA2019, (a) EDTA titrimetric method.	13.7	mg/l	75	200
6.	Alkalinity as CaCO ₃	IS 3025 (Part-23) .1986, Amend.1&2 RA:2019 Titrametric Method	10.4	mg/l	200	600
7.	Free Residual Chlorine	IS: 3025 (P-26):2021	BDL (DL-0.1)	mg/l	0.2	1.0
8.	Chloride as Cl	IS 3025 (Part-32) .1988, RA 2019 Argentometric Method	12.4	mg/l	250	1000
9.	Magnesium as Mg	IS 3025 (Part-46) 1994, RA2019, Volumetric method using EDTA	6.9	mg/l	30	100
10.	Total Dissolved Solids	IS 3025 (Part-16),1984, RA 2017, Gravimetric method	72.0	mg/l	500	2000
11.	Sulphate as SO ₄	IS 3025 (Part-24), 1986, RA2019, Turbidity method.	6.1	mg/l	200	400
12.	Fluoride as F	APHA 23 rd Edi.2017, 4500 F-D SPADNS Method	BDL (DL-0.05)	mg/l	1.0	1.5

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TEST REPORT

ULR No: TC550724000007561F

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
13.	Nitrate as NO ₃	IS 3025 (P-34) 1988, RA 2019, (a)Chromotropic acid method	BDL (DL-0.05)	mg/l	45	No relaxation
14.	Iron as Fe	IS 3025 (P-53) 2003, RA 2019, 1,10 Phenanthroline Method	BDL (DL-0.05)	mg/l	1.0	No relaxation
15.	Copper as Cu	IS 3025 (Part-42) 1992, RA2019, (b)Atomic Absorption Method	BDL (DL-0.02)	mg/l	0.05	1.5
16.	Manganese as Mn	IS 3025 (Part-59) 2006, RA2019, (b)Atomic Absorption Method	BDL (DL-0.10)	mg/l	0.1	0.3
17.	Mercury as Hg	IS: 3025 (P-48):1994.R.A: 2019	BDL (DL-0.5)	mg/l	0.001	No Relaxation
18.	Cadmium as Cd	IS: 3025 (P-41): 1992.R.A.:2019	BDL (DL-0.05)	mg/l	0.003	No Relaxation
19.	Selenium as Se	IS:3025 (P-56) :2003.R.A;2019	BDL (DL-0.001)	mg/l	0.01	No Relaxation
20.	Arsenic as As	IS 3025 (Part-37) 2022, (b)Atomic Absorption Method	BDL (DL-0.001)	mg/l	0.01	0.05
21.	Lead as Pb	IS 3025 (Part-47) 1994, RA2019, (b)Atomic Absorption Method	BDL (DL-0.05)	mg/l	0.01	No Relaxation
22.	Zinc as Zn	IS 3025 (Part-49) 1994, RA2019, (b)Atomic Absorption Method	BDL (DL-0.05)	mg/l	5	15
23.	Cyanide as CN	IS 3025 (Part-27) 1986, RA 2019	BDL (DL-0.02)	mg/l	0.05	No relaxation
24.	Aluminum as Al	IS 3025 (P-55) 2003	BDL (DL-0.01)	mg/l	0.03	0.2
25.	Boron as B	IS 3025 (P-57), 2021 (b) Colorimetric curcumin method,	BDL (DL-0.02)	mg/l	0.5	2.4
26.	Color	IS 3025 (Part-4) 2021, Platinum cobalt (visual comparison method)	<1.0	Hazen	5	15

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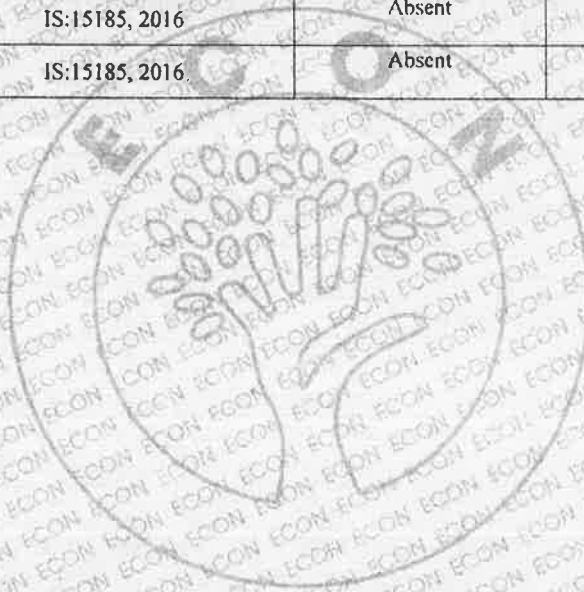
Vill.: Khaharwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

ULR No: TC550724000007561F

27.	Odour	IS 3025 (Part-5) 2018	Agreeable	-	Agreeable	Agreeable
28.	Taste	IS 3025 (Part-7) 2017	Agreeable	-	Agreeable	Agreeable
29.	Ammonia(as N)	IS:3025(Part-34)	BDL (DL-0.1)	mg/l	0.5	No Relaxation
30.	Nickel as Ni	IS:3025 (P-54);2003.R.A.2019	BDL (DL-0.05)	mg/l	0.02	No Relaxation
31.	Total Chromium as Cr	IS:3025 (P-52);2003.R.A.2019	BDL (DL-0.25)	mg/l	0.05	No Relaxation
32.	Sulphide(as H ₂ S)	IS:3025(Part-29)	BDL (DL-0.01)	mg/l	0.05	No Relaxation
Microbiological Parameter						
33.	Total Coliform	IS:15185, 2016	Absent	NA	Should be Absent in any 100 ml sample	
34.	E. Coli	IS:15185, 2016	Absent	NA	Should be Absent in any 100 ml sample	



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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003

TEST REPORT

Report No. : ECON/SW/2409/7561

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
34.	Phenolic Compound	APHA 23 rd Edition 2017, 5530 D	BDL (DL-0.001)	mg/l	0.001	0.002
36.	Mineral Oil	Clause 6 IS:3025(Part-39), 2021	BDL(DL-0.001)	mg/l	1.0	No Relaxation
37.	Barium as Ba	ECON/STP/B/03	BDL (DL-0.1)	mg/l	0.7	No Relaxation
38.	Silver as Ag	ECON/STP/Ag/03	BDL (DL-0.1)	mg/l	0.1	No Relaxation
39.	Molybdenum as Mo	ECON/STP/Mo/03	BDL (DL-0.1)	mg/l	0.07	No Relaxation
40.	Anionic Detergent(as MBAS)	Annex.K of IS:13428:2005	BDL (DL-0.1)	mg/l	0.2	1.0
41.	Chloramine(as Cl ₂)	IS:3025(Part-26)	BDL (DL-1.0)	mg/l	4.0	No Relaxation

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TEST REPORT

Report No.: ECON/SW/2409/7561

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
42.	Pesticide Residue					
43.	Polynuclear Aromatic Hydrocarbons (as PAH)	ECON/STP/PEST/01	BDL (DL-0.00001)	mg/l	0.0001	No Relaxation
44.	Polychlorinated biphenyls(as PCB)	ECON/STP/PEST/01	BDL (DL-0.00001)	mg/l	0.0005	No Relaxation
45.	Alachlor	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	20	NA
46.	Atrazine	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA
47.	Aldrin	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.03	NA
48.	Alpha HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.01	NA
49.	Beta HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.04	NA
50.	Gamma HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA
51.	Delta HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.04	NA
52.	Butachlor	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	125	NA
53.	Chlorpyrifos	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	30	NA
54.	2-4 D	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	30	NA
55.	2,4 -DDT	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
56.	4,4-DDT	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
57.	2,4 -DDD	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
58.	4,4-DDD	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
59.	2,4 -DDE	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
60.	4,4-DDE	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
61.	Alpha Endosulphan	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA
62.	Beta Endosulphan	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA

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TEST REPORT

					Report No. : ECON/SW/2409/7561	
63.	Endosulfan Sulphate	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA
64.	Ethion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	3.0	NA
65.	Isoproturon	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	9.0	NA
66.	Malathion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	190	NA
67.	Methyl Parathion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.3	NA
68.	Monocrotophos	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
69.	Phorate	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA

** Below Detected limit #DL-Detection Limit.

End of Report

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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client:		ULR No:	TC550724000007562F
DGM (Civil/Environment)		Reporting Date:	28/09/2024
Naitwar, Mori, Hydro Electric Project		Date of Sampling:	23/09/2024
Bahanol, Mori, Uttarkashi, Uttarakhand		Receipt Date:	23/09/2024
Pin-249128		Period of Testing:	24/09/2024-28/09/2024
		Sample Collected By:	Lab. Rep.
		Sampling Type:	Grab
Sample Description:	Surface Water	Preservation:	Refrigerated
Sampling Location:	Down Stream (Bairaj Storage)	Format No:	7.8F-01
Sampling Protocol:	ECON/STP/WATER	Party Reference No:	By Mail
Sample Quantity:	10 Ltr.	Parameter Required:	As Per Work Order

TEST RESULTS

S. No.	Parameters	Test--Methods	Results	Units	Limit of IS: 10500-2012	
					Desirable Limits (Max)	Permissible Limits the absence of Alternate Source (Max.)
1.	General Parameters					
2.	pH (at 25°C)	IS 3025 (Part-11) 1983, RA 2017, Electrometric Method	7.14	-	6.5 to 8.5	No relaxation
3.	Turbidity	IS 3025 (Part-10) 1984, RA 2017, Nephelometric method	<1.0	NTU	1	5
4.	Total Hardness as CaCO ₃	IS 3025 (Part-21) 2009, RA 2019, (a) Ethylenediamine tetra acetic acetate acid (EDTA) method	39.5	mg/l	200	600
5.	Calcium as Ca	IS 3025 (Part-40) 1991, RA2019, (a) EDTA titrimetric method,	14.2	mg/l	75	200
6.	Alkalinity as CaCO ₃	IS 3025 (Part-23) .1986, Amend. I&2 RA:2019 Titrametric Method	10.4	mg/l	200	600
7.	Free Residual Chlorine	IS: 3025 (P-26):2021	BDL (DL-0.1)	mg/l	0.2	1.0
8.	Chloride as Cl	IS 3025 (Part-32) .1988, RA 2019 Argentometric Method	7.4	mg/l	250	1000
9.	Magnesium as Mg	IS 3025 (Part-46) 1994, RA2019, Volumetric method using EDTA	7.2	mg/l	30	100
10.	Total Dissolved Solids	IS 3025 (Part-16),1984, RA 2017, Gravimetric method	78.0	mg/l	500	2000
11.	Sulphate as SO ₄	IS 3025 (Part-24), 1986, RA2019, Turbidity method.	5.2	mg/l	200	400
12.	Fluoride as F	APHA 23 rd Edi.2017, 4500 F-D SPADNS Method	BDL (DL-0.05)	mg/l	1.0	1.5

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TEST REPORT

ULR No: TC550724000007562F

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
13.	Nitrate as NO ₃	IS 3025 (P-34) 1988, RA 2019, (a)Chromotropic acid method	BDL (DL-0.05)	mg/l	45	No relaxation
14.	Iron as Fe	IS 3025 (P-53) 2003, RA 2019, 1,10 Phenanthroline Method	BDL (DL-0.05)	mg/l	1.0	No relaxation
15.	Copper as Cu	IS 3025 (Part-42) 1992, RA2019, (b)Atomic Absorption Method	BDL (DL-0.02)	mg/l	0.05	1.5
16.	Manganese as Mn	IS 3025 (Part-59) 2006, RA2019, (b)Atomic Absorption Method	BDL (DL-0.10)	mg/l	0.1	0.3
17.	Mercury as Hg	IS: 3025 (P-48):1994:R.A.: 2019	BDL (DL-0.5)	mg/l	0.001	No Relaxation
18.	Cadmium as Cd	IS: 3025 (P-41): 1992:R.A.:2019	BDL (DL-0.05)	mg/l	0.003	No Relaxation
19.	Selenium as Se	IS:3025 (P-56) :2003:R.A.:2019	BDL (DL-0.001)	mg/l	0.01	No Relaxation
20.	Arsenic as As	IS 3025 (Part-37) 2022, (b)Atomic Absorption Method	BDL (DL-0.001)	mg/l	0.01	0.05
21.	Lead as Pb	IS 3025 (Part-47) 1994, RA2019, (b)Atomic Absorption Method	BDL (DL-0.05)	mg/l	0.01	No Relaxation
22.	Zinc as Zn	IS 3025 (Part-49) 1994, RA2019, (b)Atomic Absorption Method	BDL (DL-0.05)	mg/l	5	15
23.	Cyanide as CN	IS 3025 (Part-27) 1986, RA 2019	BDL (DL-0.02)	mg/l	0.05	No relaxation
24.	Aluminum as Al	IS 3025 (P-55) 2003	BDL (DL-0.01)	mg/l	0.03	0.2
25.	Boron as B	IS 3025 (P-57), 2021 (b) Colorimetric curcumin method,	BDL (DL-0.02)	mg/l	0.5	2.4
26.	Color	IS 3025 (Part-4) 2021, Platinum cobalt (visual comparison method)	<1.0	Hazen	5	15

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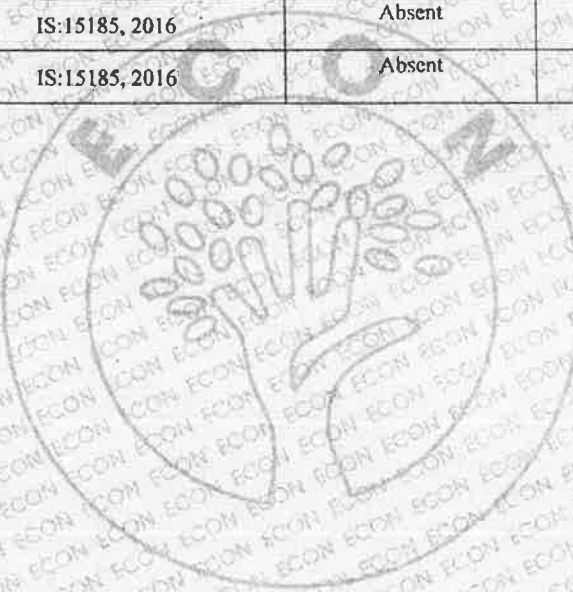
Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

ULR No: TC550724000007562F

27.	Odour	IS 3025 (Part-5) 2018	Agreeable	-	Agreeable	Agreeable
28.	Taste	IS 3025 (Part-7) 2017	Agreeable	-	Agreeable	Agreeable
29.	Ammonia(as N)	IS:3025(Part-34)	BDL (DL-0.1)	mg/l	0.5	No Relaxation
30.	Nickel as Ni	IS:3025 (P-54);2003:R.A.2019	BDL (DL-0.05)	mg/l	0.02	No Relaxation
31.	Total Chromium as Cr	IS:3025 (P-52);2003:R.A.2019	BDL (DL-0.25)	mg/l	0.05	No Relaxation
32.	Sulphide(as H ₂ S)	IS:3025(Part-29)	BDL (DL-0.01)	mg/l	0.05	No Relaxation
Microbiological Parameter						
33.	Total Coliform	IS:15185, 2016	Absent	NA	Should be Absent in any 100 ml sample	
34.	E. Coli	IS:15185, 2016	Absent	NA	Should be Absent in any 100 ml sample	



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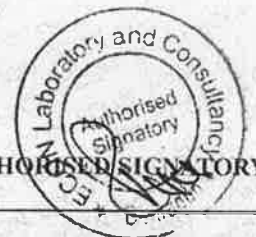
TEST REPORT

Report No. : ECON/SW/2409/7562

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
34.	Phenolic Compound	APHA 23 rd Edition 2017, 5530 D	BDL (DL-0.001)	mg/l	0.001	0.002
36.	Mineral Oil	Clause 6 IS:3025(Part-39), 2021	BDL(DL-0.001)	mg/l	1.0	No Relaxation
37.	Barium as Ba	ECON/STP/B/03	BDL (DL-0.1)	mg/l	0.7	No Relaxation
38.	Silver as Ag	ECON/STP/Ag/03	BDL (DL-0.1)	mg/l	0.1	No Relaxation
39.	Molybdenum as Mo	ECON/STP/Mo/03	BDL (DL-0.1)	mg/l	0.07	No Relaxation
40.	Anionic Detergent(as MBAS)	Annex.K of IS:13428:2005	BDL (DL-0.1)	mg/l	0.2	1.0
41.	Chloramine(as Cl ₂)	IS:3025(Part-26)	BDL (DL-1.0)	mg/l	4.0	No Relaxation

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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003

TEST REPORT

Report No. : ECON/SW/2409/7562

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
42.	Pesticide Residue					
43.	Polynuclear Aromatic Hydrocarbons (as PAH)	ECON/STP/PEST/01	BDL (DL-0.00001)	mg/l	0.0001	No Relaxation
44.	Polychlorinated biphenyls(as PCB)	ECON/STP/PEST/01	BDL (DL-0.00001)	mg/l	0.0005	No Relaxation
45.	Alachlor	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	20	NA
46.	Atrazine	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA
47.	Aldrin	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.03	NA
48.	Alpha HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.01	NA
49.	Beta HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.04	NA
50.	Gamma HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA
51.	Delta HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.04	NA
52.	Butachlor	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	125	NA
53.	Chlorpyrifos	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	30	NA
54.	2-4 D	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	30	NA
55.	2,4 -DDT	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
56.	4,4-DDT	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
57.	2,4 -DDD	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
58.	4,4-DDD	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
59.	2,4 -DDE	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
60.	4,4-DDE	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
61.	Alpha Endosulphan	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA
62.	Beta Endosulphan	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA

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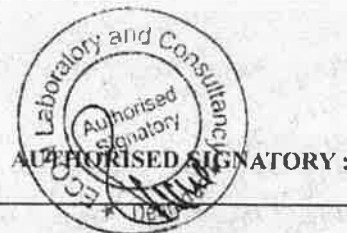
TEST REPORT

						Report No. : ECON/SW/2409/7562
63.	Endosulfan Sulphate	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA
64.	Ethion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	3.0	NA
65.	Isoproturon	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	9.0	NA
66.	Malathion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	190	NA
67.	Methyl Parathion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.3	NA
68.	Monocrotophos	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
69.	Phorate	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA

** Below Detected limit #DL-Detection Limit.

End of Report

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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

Name & Address of Client:		ULR No:	TC550724000007563F
DGM (Civil/Environment)		Reporting Date:	28/09/2024
Naitwar, Mori, Hydro Electric Project		Date of Sampling:	23/09/2024
Bahanol, Mori, Uttarkashi, Uttarakhand		Receipt Date:	23/09/2024
Pin-249128		Period of Testing:	24/09/2024-28/09/2024
		Sample Collected By:	Lab. Rep.
		Sampling Type:	Grab
Sample Description:	Surface Water	Preservation:	Refrigerated
Sampling Location:	TRT Outsource	Format No:	7.8F-01
Sampling Protocol:	ECON/STP/WATER	Party Reference No:	By Mail
Sample Quantity:	10 Ltr.	Parameter Required:	As Per Work Order

TEST RESULTS

S. No.	Parameters	Test-Methods	Results	Units	Limit of IS: 10500-2012	
					Desirable Limits (Max)	Permissible Limits the absence of Alternate Source (Max.)
1.	General Parameters					
2.	pH (at 25°C)	IS 3025 (Part-11) 1983, RA 2017, Electrometric Method	7.08	-	6.5 to 8.5	No relaxation
3.	Turbidity	IS 3025 (Part-10) 1984, RA 2017, Nephelometric method	<1.0	NTU	1	5
4.	Total Hardness as CaCO ₃	IS 3025 (Part-21) 2009, RA 2019, (a) Ethylenediamine tetra acetic acetate acid (EDTA) method	24.7	mg/l	200	600
5.	Calcium as Ca	IS 3025 (Part-40) 1991, RA2019, (a) EDTA titrimetric method.	10.6	mg/l	75	200
6.	Alkalinity as CaCO ₃	IS 3025 (Part-23) 1986, Amend.1&2 RA:2019 Titrametric Method	10.4	mg/l	200	600
7.	Free Residual Chlorine	IS: 3025 (P-26):2021	BDL (DL-0.1)	mg/l	0.2	1.0
8.	Chloride as Cl	IS 3025 (Part-32) 1988, RA 2019 Argentometric Method	9.9	mg/l	250	1000
9.	Magnesium as Mg	IS 3025 (Part-46) 1994, RA2019, Volumetric method using EDTA	7.2	mg/l	30	100
10.	Total Dissolved Solids	IS 3025 (Part-16), 1984, RA 2017, Gravimetric method	54.0	mg/l	500	2000
11.	Sulphate as SO ₄	IS 3025 (Part-24), 1986, RA2019, Turbidity method.	0.3	mg/l	200	400
12.	Fluoride as F	APHA 23 rd Edi. 2017, 4500 F-D SPADNS Method	BDL (DL-0.05)	mg/l	1.0	1.5

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TEST REPORT

ULR No: TC550724000007563F

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
13.	Nitrate as NO ₃	IS 3025 (P-34) 1988, RA 2019, (a)Chromotropic acid method	BDL (DL-0.05)	mg/l	45	No relaxation
14.	Iron as Fe	IS 3025 (P-53) 2003, RA 2019, 1,10 Phenanthroline Method	BDL (DL-0.05)	mg/l	1.0	No relaxation
15.	Copper as Cu	IS 3025 (Part-42) 1992, RA2019, (b)Atomic Absorption Method	BDL (DL-0.02)	mg/l	0.05	1.5
16.	Manganese as Mn	IS 3025 (Part-59) 2006, RA2019, (b)Atomic Absorption Method	BDL (DL-0.10)	mg/l	0.1	0.3
17.	Mercury as Hg	IS: 3025 (P-48):1994;R.A: 2019	BDL (DL-0.5)	mg/l	0.001	No Relaxation
18.	Cadmium as Cd	IS: 3025 (P-41): 1992;R.A.:2019	BDL (DL-0.05)	mg/l	0.003	No Relaxation
19.	Selenium as Se	IS:3025 (P-56) :2003;R.A;2019	BDL (DL-0.001)	mg/l	0.01	No Relaxation
20.	Arsenic as As	IS 3025 (Part-37) 2022, (b)Atomic Absorption Method	BDL (DL-0.001)	mg/l	0.01	0.05
21.	Lead as Pb	IS 3025 (Part-47) 1994, RA2019, (b)Atomic Absorption Method	BDL (DL-0.05)	mg/l	0.01	No Relaxation
22.	Zinc as Zn	IS 3025 (Part-49) 1994, RA2019, (b)Atomic Absorption Method	BDL (DL-0.05)	mg/l	5	15
23.	Cyanide as CN	IS 3025 (Part-27) 1986, RA 2019	BDL (DL-0.02)	mg/l	0.05	No relaxation
24.	Aluminum as Al	IS 3025 (P-55) 2003	BDL (DL-0.01)	mg/l	0.03	0.2
25.	Boron as B	IS 3025 (P-57), 2021 (b) Colorimetric curcumin method,	BDL (DL-0.02)	mg/l	0.5	2.4
26.	Color	IS 3025 (Part-4) 2021, Platinum cobalt (visual comparison method)	<1.0	Hazen	5	15

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TEST REPORT

ULR No: TC550724000007563F

27.	Odour	IS 3025 (Part-5) 2018	Agreeable	-	Agreeable	Agreeable
28.	Taste	IS 3025 (Part-7) 2017	Agreeable	-	Agreeable	Agreeable
29.	Ammonia(as N)	IS:3025(Part-34)	BDL (DL-0.1)	mg/l	0.5	No Relaxation
30.	Nickel as Ni	IS:3025 (P-54);2003:R.A.2019	BDL (DL-0.05)	mg/l	0.02	No Relaxation
31.	Total Chromium as Cr	IS:3025 (P-52);2003:R.A.2019	BDL (DL-0.25)	mg/l	0.05	No Relaxation
32.	Sulphide(as H ₂ S)	IS:3025(Part-29)	BDL (DL-0.01)	mg/l	0.05	No Relaxation
Microbiological Parameter						
33.	Total Coliform	IS:15185, 2016	Absent	NA	Should be Absent in any 100 ml sample	
34.	E. Coli	IS:15185, 2016	Absent	NA	Should be Absent in any 100 ml sample	

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TEST REPORT

Report No. : ECON/SW/2409/7563

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
34.	Phenolic Compound	APHA 23 rd Edition 2017, 5530 D	BDL (DL-0.001)	mg/l	0.001	0.002
36.	Mineral Oil	Clause 6 IS:3025(Part-39), 2021	BDL(DL-0.001)	mg/l	1.0	No Relaxation
37.	Barium as Ba	ECON/STP/B/03	BDL (DL-0.1)	mg/l	0.7	No Relaxation
38.	Silver as Ag	ECON/STP/Ag/03	BDL (DL-0.1)	mg/l	0.1	No Relaxation
39.	Molybdenum as Mo	ECON/STP/Mo/03	BDL (DL-0.1)	mg/l	0.07	No Relaxation
40.	Anionic Detergent(as MBAS)	Annex.K of IS:13428:2005	BDL (DL-0.1)	mg/l	0.2	1.0
41.	Chloramine(as Cl ₂)	IS:3025(Part-26)	BDL (DL-1.0)	mg/l	4.0	No Relaxation

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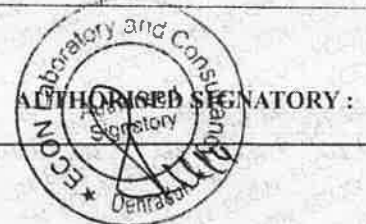
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TEST REPORT

Report No.: ECON/SW/2409/7563

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
42.	Pesticide Residue					
43.	Polynuclear Aromatic Hydrocarbons (as PAH)	ECON/STP/PEST/01	BDL (DL-0.00001)	mg/l	0.0001	No Relaxation
44.	Polychlorinated biphenyls(as PCB)	ECON/STP/PEST/01	BDL (DL-0.00001)	mg/l	0.0005	No Relaxation
45.	Alachlor	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	20	NA
46.	Atrazine	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA
47.	Aldrin	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.03	NA
48.	Alpha HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.01	NA
49.	Beta HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.04	NA
50.	Gamma HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA
51.	Delta HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.04	NA
52.	Butachlor	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	125	NA
53.	Chlorpyrifos	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	30	NA
54.	2-4 D	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	30	NA
55.	2,4 -DDT	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
56.	4,4-DDT	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
57.	2,4 -DDD	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
58.	4,4-DDD	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
59.	2,4 -DDE	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
60.	4,4-DDE	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
61.	Alpha Endosulphan	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA
62.	Beta Endosulphan	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA

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TEST REPORT

					Report No. :	ECON/SW/2409/7563
63.	Endosulfan Sulphate	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA
64.	Ethion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	3.0	NA
65.	Isoproturon	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	9.0	NA
66.	Malathion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	190	NA
67.	Methyl Parathion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.3	NA
68.	Monocrotophos	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
69.	Phorate	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA

** Below Detected limit #DL-Detection Limit

End of Report

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TEST REPORT

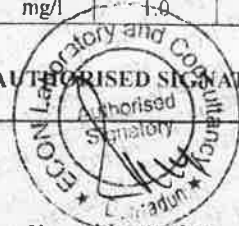
Name & Address of Client:		ULR No:	TC550724000007564F
DGM (Civil/Environment)		Reporting Date:	28/09/2024
Naitwar, Mori, Hydro Electric Project		Date of Sampling:	23/09/2024
Bahdol, Mori, Uttarkashi, Uttarakhand		Receipt Date:	23/09/2024
Pin-249128		Period of Testing:	24/09/2024-28/09/2024
		Sample Collected By:	Lab. Rep.
		Sampling Type:	Grab
Sample Description:	Surface Water	Preservation:	Refrigerated
Sampling Location:	Down Stream STP Plant (Tons River)	Format No:	7.8F-01
Sampling Protocol:	ECON/STP/WATER	Party Reference No:	By Mail
Sample Quantity:	10 Ltr.	Parameter Required:	As Per Work Order

TEST RESULTS

S. No.	Parameters	Test --Methods	Results	Units	Limit of IS: 10500-2012	
					Desirable Limits (Max)	Permissible Limits the absence of Alternate Source (Max.)
1.	General Parameters					
2.	pH (at 25°C)	IS 3025 (Part-11) 1983, RA 2017, Electrometric Method	7.10	-	6.5 to 8.5	No relaxation
3.	Turbidity	IS 3025 (Part-10) 1984, RA 2017, Nephelometric method	<1.0	NTU	1	5
4.	Total Hardness as CaCO ₃	IS 3025 (Part-21) 2009, RA 2019, (a) Ethylenediamine tetra acetic acetate acid (EDTA) method	44.5	mg/l	200	600
5.	Calcium as Ca	IS 3025 (Part-40) 1991, RA2019, (a) EDTA titrimetric method,	8.1	mg/l	75	200
6.	Alkalinity as CaCO ₃	IS 3025 (Part-23) .1986, Amend.1&2 RA:2019 Titrametric Method	5.2	mg/l	200	600
7.	Free Residual Chlorine	IS: 3025 (P-26):2021	BDL (DL-0.1)	mg/l	0.2	1.0
8.	Chloride as Cl	IS 3025 (Part-32) .1988, RA 2019 Argentometric Method	9.9	mg/l	250	1000
9.	Magnesium as Mg	IS 3025 (Part-46) 1994, RA2019, Volumetric method using EDTA	2.1	mg/l	30	100
10.	Total Dissolved Solids	IS 3025 (Part-16), 1984, RA 2017, Gravimetric method	68.0	mg/l	500	2000
11.	Sulphate as SO ₄	IS 3025 (Part-24), 1986, RA2019, Turbidity method.	0.3	mg/l	200	400
12.	Fluoride as F	APHA 23 rd Edi.2017, 4500 F-D SPADNS Method	BDL (DL-0.05)	mg/l	1.0	1.5

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Vill.: Khabarwala, P.O.: Jaintanwala, Near Garhi Cantt., Dehradun, Uttarakhand - 248003



TEST REPORT

ULR No: TC550724000007564F

S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
13.	Nitrate as NO ₃	IS 3025 (P-34) 1988, RA 2019, (a)Chromotropic acid method	BDL (DL-0.05)	mg/l	45	No relaxation
14.	Iron as Fe	IS 3025 (P-53) 2003, RA 2019, 1,10 Phenanthroline Method	BDL (DL-0.05)	mg/l	1.0	No relaxation
15.	Copper as Cu	IS 3025 (Part-42) 1992, RA2019, (b)Atomic Absorption Method	BDL (DL-0.02)	mg/l	0.05	1.5
16.	Manganese as Mn	IS 3025 (Part-59) 2006, RA2019, (b)Atomic Absorption Method	BDL (DL-0.10)	mg/l	0.1	0.3
17.	Mercury as Hg	IS: 3025 (P-48):1994;R.A: 2019	BDL (DL-0.5)	mg/l	0.001	No Relaxation
18.	Cadmium as Cd	IS: 3025 (P-41): 1992;R.A.:2019	BDL (DL-0.05)	mg/l	0.003	No Relaxation
19.	Selenium as Se	IS:3025 (P-56) :2003;R.A;2019	BDL (DL-0.001)	mg/l	0.01	No Relaxation
20.	Arsenic as As	IS 3025 (Part-37) 2022, (b)Atomic Absorption Method	BDL (DL-0.001)	mg/l	0.01	0.05
21.	Lead as Pb	IS 3025 (Part-47) 1994, RA2019, (b)Atomic Absorption Method	BDL (DL-0.05)	mg/l	0.01	No Relaxation
22.	Zinc as Zn	IS 3025 (Part-49) 1994, RA2019, (b)Atomic Absorption Method	BDL (DL-0.05)	mg/l	5	15
23.	Cyanide as CN	IS 3025 (Part-27) 1986, RA 2019	BDL (DL-0.02)	mg/l	0.05	No relaxation
24.	Aluminum as Al	IS 3025 (P-55) 2003	BDL (DL-0.01)	mg/l	0.03	0.2
25.	Boron as B	IS 3025 (P-57), 2021 (b) Colorimetric curcumin method,	BDL (DL-0.02)	mg/l	0.5	2.4
26.	Color	IS 3025 (Part-4) 2021, Platinum cobalt (visual comparison method)	<1.0	Hazen	5	15

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TEST REPORT

						ULR No:	TCSS0724000007564F
27.	Odour	IS 3025 (Part-5) 2018	Agreeable	-	Agreeable	Agreeable	
28.	Taste	IS 3025 (Part-7) 2017	Agreeable	-	Agreeable	Agreeable	
29.	Ammonia(as N)	IS:3025(Part-34)	BDL (DL-0.1)	mg/l	0.5	No Relaxation	
30.	Nickel as Ni	IS:3025 (P-54);2003:R.A.2019	BDL (DL-0.05)	mg/l	0.02	No Relaxation	
31.	Total Chromium as Cr	IS:3025 (P-52);2003:R.A.2019	BDL (DL-0.25)	mg/l	0.05	No Relaxation	
32.	Sulphide(as H ₂ S)	IS:3025(Part-29)	BDL (DL-0.01)	mg/l	0.05	No Relaxation	
Microbiological Parameter							
33.	Total Coliform	IS:15185, 2016	Absent	NA	Should be Absent in any 100 ml sample		
34.	E. Coli	IS:15185, 2016	Absent	NA	Should be Absent in any 100 ml sample		

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TEST REPORT

S. No.	Parameters	Test Methods	Results	Units	Report No. : ECON/SW/2409/7564	
					Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
34.	Phenolic Compound	APHA 23 rd Edition 2017, 5530 D	BDL (DL-0.001)	mg/l	0.001	0.002
36.	Mineral Oil	Clause 6 IS:3025(Part-39), 2021	BDL(DL-0.001)	mg/l	1.0	No Relaxation
37.	Barium as Ba	ECON/STP/B/03	BDL (DL-0.1)	mg/l	0.7	No Relaxation
38.	Silver as Ag	ECON/STP/Ag/03	BDL (DL-0.1)	mg/l	0.1	No Relaxation
39.	Molybdenum as Mo	ECON/STP/Mo/03	BDL (DL-0.1)	mg/l	0.07	No Relaxation
40.	Anionic Detergent(as MBAS)	Annex.K of IS:13428:2005	BDL (DL-0.1)	mg/l	0.2	1.0
41.	Chloramine(as Cl ₂)	IS:3025(Part-26)	BDL (DL-1.0)	mg/l	4.0	No Relaxation

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S. No.	Parameters	Test Methods	Results	Units	Limit of IS 10500-2012	
					Desirable Limits (Max.)	Permissible Limits the absence of Alternate Source (Max.)
42.	Pesticide Residue					
43.	Polynuclear Aromatic Hydrocarbons (as PAH)	ECON/STP/PEST/01	BDL (DL-0.00001)	mg/l	0.0001	No Relaxation
44.	Polychlorinated biphenyls(as PCB)	ECON/STP/PEST/01	BDL (DL-0.00001)	mg/l	0.0005	No Relaxation
45.	Alachlor	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	20	NA
46.	Atrazine	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA
47.	Aldrin	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.03	NA
48.	Alpha HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.01	NA
49.	Beta HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.04	NA
50.	Gamma HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA
51.	Delta HCH	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.04	NA
52.	Butachlor	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	125	NA
53.	Chlorpyrifos	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	30	NA
54.	2-4 D	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	30	NA
55.	2,4 -DDT	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
56.	4,4-DDT	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
57.	2,4 -DDD	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
58.	4,4-DDD	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
59.	2,4 -DDE	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
60.	4,4-DDE	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
61.	Alpha Endosulphan	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA
62.	Beta Endosulphan	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA

Report No. : ECON/SW/2409/7564

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63.	Endosulfan Sulphate	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.4	NA
64.	Ethion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	3.0	NA
65.	Isoproturon	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	9.0	NA
66.	Malathion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	190	NA
67.	Methyl Parathion	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	0.3	NA
68.	Monocrotophos	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	1.0	NA
69.	Phorate	ECON/STP/PEST/01	BDL (DL-0.00001)	µg/l	2.0	NA

** Below Detected limit #DL-Detection Limit.

End of Report

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