



एसजेवीएन लिमिटेड

मिनी-रत्न शिड्यूल 'A' पीएसयू
निगमित पर्यावरण विभाग
IS/ISO 9001:2015 Certified

कार्यालय:
कार्यकारी निदेशक,
निगमित पर्यावरण विभाग,
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संख्या: SJVN/CHQ/ENV/27/2022 - 125

दिनांक: 25/11/2022

सेवा में,

अतिरिक्त प्रधान मुख्य वन संरक्षक (सी),
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय,
क्षेत्रीय कार्यालय (NCZ), 25, सुभाष रोड,
देहरादून - 248001,
ई-मेल: moef.ddn@gmail.com

Sub: Six Monthly Monitoring Report on Compliance to Environmental Aspects (For period **APRIL**, 2022 - **SEPT.**, 2022) i.r.o Naitwar Mori HPS (60 MW), Uttarakhand.

Ref: EC letter No. J-12011/16/2010/IA.I, June 16, 2016 (Issued by MoEF&CC)

Sir,

Kind reference is invited to above referred endorsement vide which Naitwar Mori Hydroelectric Project (60 MW) of SJVN in Uttarkashi District (Uttarakhand) is granted Environment Clearance. Submission of six monthly compliance report is required by Environment Clearance. Further, it is desired vide notification dated 26.11.2018 to submit half yearly compliance reports in soft copies only.

Therefore, Six Monthly Monitoring Report on compliance to Environmental Aspects (for the period ending September 2022) is submitted for your kind information, please.

संलग्नक: यथोपरि।

सधन्यवाद,

भवदीय,
एसजेवीएन लिमिटेड के लिए,

Jm. (कार्यकारी निदेशक)

प्रतिलिपि (केवल ईमेल के माध्यम से):

- उप महानिदेशक वन (सी), पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय (NCZ), 25, सुभाष रोड, देहरादून - 248001, ई-मेल: moef.ddn@gov.in
- प्रभारी, केंद्रीय प्रदूषण नियंत्रण बोर्ड (सीपीसीबी), जोनल कार्यालय (उत्तर), पीआईसीयूपी भवन, विभूति खंड, गोमती नगर, लखनऊ - 226010 (यू.पी.). mscb.cpcb@nic.in, cpcb.lucknow@gmail.com
- सदस्य सचिव, उत्तराखंड पर्यावरण संरक्षण और प्रदूषण नियंत्रण बोर्ड (UEPPCB), 29/20, नेमी रोड, देहरादून - 248001 (उत्तराखंड). spsubudhi@gmail.com, msukpcb@gmail.com

Six Monthly Monitoring Report on Compliance to Environmental Aspects (For Period Ending September, 2022)

A) Name of Project	Naitwar Mori HEP (60 MW)
Type of the Project	Hydroelectric
Location	PO Mori, Tehsil Mori, District Uttarkashi, Uttarakhand.
Contact Address	
(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. 0177-2660198
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. 357.65 lakh and Rs. 375.28 lakh has been spent by Tons Forest Division and Govind Wild Life Sanctuary & NP, Purola respectively till date (total Rs. 732.93 lakh). Latest CAT Plan and CA fund utilization obtained from DFO, Tons Forest Division, Parole and Dy. Director, Govind Wild Life Sanctuary are attached (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	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

	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.	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 7,11,240 m 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).	Presently around 6.97 lakh m ³ of muck has been generated out of which around 2.62 lakh m ³ has been reutilized for development of construction material, roads and facility areas. Remaining 4.35 lakh m ³ 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 –	The environment flow arrangement has been built in the barrage structure and specified environment flow shall be maintained during operation stage of the project.

	April months. Monsoon flow shall be 30% of the total Monsoon discharge.	
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 Office of the Ministry and SPCB	Shall be ensured during operation stage of the project.
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 work for construction of Fish Ladder is in progress.
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. DFO, Tons Forest Division, Purola vide his letter No. 1255/3-2, dated 11/5.2022 has informed that all compensatory afforestation works have been completed on 80.00 hectare of land, 2 nd year maintenance has been done. An amount of about Rs. 76.67 lakh have been spent so far against compensatory afforestation works (Annexure-1).
xi.	Greenbelt development along the	2430 nos. of various species of

	<p>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.</p>	<p>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 construction work.</p>
xii.	<p>The Biodiversity Conservation and Management Plan shall be taken-up strictly as outlined in the EIA/EMP report and implemented in consultation with the 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.</p>	<p>The detailed Biodiversity Conservation and Management Plan for Rs. 43.00 lakh has been prepared by CF Yamuna Circle, Dehradun & DFO, Tons Forest Division, Purola. Accordingly, SJVN has deposited Rs. 43.00 lakh to DFO Tons, Forest Division, Purola on 22.10.2019 for implementation.</p> <p>DFO, Tons Forest Division, Purola vide his letter No. 1255/3-2, dated 05.11.2022 has informed that an amount of about Rs. 18.60 lakh have been spent so far against Biodiversity Conservation and Management Plan (Annexure-I).</p>
xiii.	<p>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.</p>	<p>Noise level data is got monitored by SJVN from Pollution Control Research Institute, BHEL, Haridwar 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.</p> <p>All high noise generating equipment's have been provided with mufflers as per manufacture's specification.</p> <p>Noise level data monitored on 26.06.2022 to 29.06.2022 by SJVN from Pollution Control Research Institute, BHEL, Haridwar is attached (Annexure-III).</p>
xiv.	<p>Any other clearance from any other organization/department, if required shall be obtained before commencing the project.</p>	<p>Condition is being complied with.</p>
xv.	<p>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</p>	<p>The Rehabilitation and Resettlement Plan of NMHEP, consisting of infrastructural and community development works is being implemented through R&R Administrator</p>

		<p>i.e. ADM Uttarkashi who is appointed by Govt. of Uttarakhand.</p> <p>In this regard, a budget of Rs.1445 lacs have been deposited with R&R Administrator, Uttarkashi out of which an amount of Rs. 773.67 lacs have been incurred as follows:</p> <p>a) Rehabilitation grant – Rs.163.26 lacs b) Subsistence allowance – Rs.65.30 lacs c) Health care – Rs.124.00 lacs d) Educational facilities – Rs.61.19 Lacs e) Recreational Facilities– Rs.2.35 Lacs. f) Widow Pension: 37.69 Lacs g) Infra & Community Development activity - Rs.302.97 Lacs. h) Income generation scheame-29.70 Lacs. i) Subsistence allowance- 16.97 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 are being 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.
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, 43 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 BOD Mori and further submitted to ADM-cum-R&R Administrator, Uttarkashi. ADM-cum-R&R Administrator, Uttarkashi has further instructed Rural Works Dept. Uttarkashi. At present 88 toilets have been completed and remaining are in process.
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, Gainchwan & 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 1,53,268/- 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 Gainchwan gaon 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 work is in progress. Plantation and turfing activities depicted herein shall be undertaken in consultation with scientists/experts after completion of the construction activities of the Project.
xxiii.	A specialist in reproduction biology of	The said study has been undertaken by

	<p>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.</p>	<p>CIFRI, Kolkatta.</p> <p>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.</p>
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PART – B: General Conditions

(i.)	<p>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.</p>	<p>To avoid indiscriminate felling of trees, canteen facility is being provided by Contractors to the labour force engaged in construction activity of the project.</p>
(ii)	<p>Medical facilities as well as recreational facilities shall also be provided to the labourers.</p>	<p>Dispensary has been provided at Contractor facility. Further, First Aid kits along-with trained staff provided at Barrage, Adit-1 and Power house.</p>
(iii)	<p>All the labourers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit.</p>	<p>Being complied.</p>
(iv)	<p>No fugitive dust emissions should be observed at the construction sites. Water sprinkling arrangements shall be made to suppress the fugitive emissions.</p>	<p>All measures suggested in the EIA/EMP report including sprinkling of water are being undertaken at project site.</p>
(vi)	<p>Potable drinking water and proper sanitary facilities should be provided for the labour force and the local area people.</p>	<p>The provision mentioned for said activity in the EMP is being taken care by main contractor as part of the contract agreement.</p> <p>Drinking water supply schemes have already been provided in the Project Affected Villages viz. Bainol, Naitwar and Gainchwan gaon as a CSR initiative through SJVN foundation.</p>
(vii)	<p>Restoration of construction area including dumping site of excavated materials shall be ensured by leveling, filling up of burrow pits, landscaping etc.</p>	<p>Construction work at project site has started in March 2018 and work is in progress at various locations.</p> <p>Restoration of construction area and</p>

	The area should be properly treated with suitable plantation.	dumping sites shall be done after completion of project components and in synchronization with construction activities.
(viii)	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 has been 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 45.44 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 732.93 lakhs by Uttarakhand Forest Deptt. (Annexure 10)
	<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: INR 3,74,47,790/-
	<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) 	Work is being taken up in synchronization with barrage construction.
	<ul style="list-style-type: none"> Fuel Management Plan (INR 3.5 lakhs) 	INR 13.821 lakhs. 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 is in progress
	<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 implemented at site.
	<ul style="list-style-type: none"> Muck Disposal Plan (INR 3.8780 crores) 	INR 8.86 crore expenditure incurred
	<ul style="list-style-type: none"> Health Management Plan (Provision made in R&R) (INR 40 lakhs) 	INR 124.00 lakh (One Ambulance and miscellaneous medical aids provided to PHC Mori) under Health Management Plan of R&R provision spent.
	<ul style="list-style-type: none"> Dam Break Modelling & Disaster Management Plan (INR 52.60 lakhs) 	Early warning system is being planned to be set up at project

	<ul style="list-style-type: none"> • Environmental Awareness Plan (INR 9 lakhs) 	Expenditure done: INR 3.34 lakhs (approx.)
	<ul style="list-style-type: none"> • Environmental Monitoring Plan (INR 36.50 lakhs) 	<p>INR 16.52 lakhs.</p> <p>Details: Monitoring being done by M/s Pollution Control Research Institute (BHEL), Haridwar. Latest monitoring done in June, 2022 (Annexure-III)</p>
	<p>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 report shall be up-loaded on the website of the Proponent.</p>	<p>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.</p> <p>Yes, latest six-monthly report submitted by project to MoEF&CC on May 26, 2022.</p>
5.	<p>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.</p>	<p>Full cooperation will be provided to officials from concerned Regional office of MoEF&CC during monitoring of the project.</p>
6.	<p>The responsibility of implementation of environmental safeguards rests fully with the M/s Satluj Jal Vidyut Nigam Ltd. And Government of Uttarakhand.</p>	Noted
7.	<p>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.</p>	<p>All environmental safeguard measures proposed in the EIA/EMP report are being implemented.</p>
8.	<p>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.</p>	<p>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. 45.44 crores have been spent so far on implementation of EMP.</p>
9.	<p>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.</p>	<p>There is no change in the scope of the project.</p>
10.	<p>The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to</p>	Noted

	take action including	
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, Zila Parishad/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 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.	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. The 3 rd meeting of MDC was held on 21.08.2021 and finalization of dates of 4 th MDC is awaited.
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	Six-monthly compliance reports are being regularly submitted to MoEF&CC Regional Office (North-Central Zone), Dehradun, CPCB Zonal Office (North),

	<p>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.</p>	<p>Lucknow and Uttarakhand Environment Protection and Pollution Control Board, Dehradun and also uploaded on our website www.sjvn.nic.in.</p> <p>The last compliance report for the period ending March 2022 was submitted on 26.05.2022</p> <p>Environment Monitoring results carried out during the period of compliance are enclosed as (Annexure-III)</p>
17.	<p>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.</p>	<p>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.</p>

ANNEXURE - 1

कार्यालय उप वन संरक्षक, टौंस वन प्रभाग, पुरोला (उत्तरकाशी)

Email- dfo_tons@yahoo.co.in Fax:- 01373- 223328

पत्रांक 1255 / 3-2 दिनांक, पुरोला, उत्तरकाशी 5-11-2022

सेवामें,

वरिष्ठ प्रबन्धक (पर्यावरण),
नैटवाड-मोरी जल विद्युत परियोजना,
पर्यावरण विभाग, बैनोल उत्तरकाशी।

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

सन्दर्भ :- आपका पत्रांक-एसजेवीएन/एनएमएचईपी/पर्यावरण/22 दिनांक 28.09.2022।

महोदय,

उपरोक्त विषयक सन्दर्भित पत्र के क्रम में इस वन प्रभाग से नैटवाड 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,

(सुबोध कुमार काला)

उप वन संरक्षक,

टौंस वन प्रभाग, पुरोला।

प्रपत्र

टौन्स वन प्रभाग, पुरोला में नैटवाड़-मोरी जल विद्युत परियोजना में कैंट प्लान योजना के अन्तर्गत किये गये कार्यों का विवरण।

(धनराशि रु। में)

क्र०सं०	योजना का नाम	कार्य का नाम	प्राप्त धनराशि	इकाई	शीतिक	व्यय धनराशि
1	2	3	4	5	6	7
1	सतलुज जल विद्युत परियोजना (वन जमा)	सतलुज जल विद्युत परियोजना के अन्तर्गत सान्द्रा रेंज के बैनोल क०सं०- 15 व 16 बफर जोन के आस-पास वन पंचायत ग्राम सभा रिक्त भूमि पर 7000 पीघों का वृक्षारोपण कार्यत	897,000	पीघ संख्या	बैनोल-15 व 16 में 7000 पीघ रोपण कार्य	689,000
2		जैव विविधता के अन्तर्गत प्राप्त	4,300,000		त्यास-6	1,860,228
3		नैटवाड़-मोरी जल विद्युत परियोजना के निर्माण एवं विकास कार्य के अन्तर्गत टौन्स वन प्रभाग, पुरोला द्वारा तितली पार्क के समीप निर्मित शौचालय की व्यवस्था कार्य किये जाने हेतु	20,000	-	देवता रेंज के अन्तर्गत तितली पार्क के समीप निर्मित शौचालय की व्यवस्था	20,000
4		नैटवाड़-मोरी जल विद्युत परियोजना के निर्माण एवं विकास के अन्तर्गत खनन चुगान क्षेत्र देवता रेंज के भासला-1,2 व 3 के बफर जोन के आस-पास क्षेत्रों में वृक्षारोपण कार्य।	179,800	पीघ संख्या	वन पंचायत देवती को 2000 पीघरोपण का भुगतान	179,800
5	सतलुज जल विद्युत परियोजना (सी०ए०)	Thadung-3a (Purola Range)	1894144	ha	20.00	1894144
		Thadung-12 (Purola Range)	1894744	ha	20.00	1894744
		Dalnu-8 (Purola Range)	1894141	ha	20.00	1894141
		Ludrala Soyam (Singtoor Range)	843240	ha	9.00	843240
		Benol-4 (Sandra Range)	1056060	ha	11.00	1056060
Total :-			12,979,129			10,331,357

(मुकुंध कुमार काला)

उप वन संरक्षक,

टौन्स वन प्रभाग, पुरोला।

1	2	3	कोड सं०	कार्य विवरण	प्रस्तावित कार्य	डी०पी०आर 0 अनुसार नैतिक कार्यों की मदवार कल 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	
4	5	6	7	8	9	10	11	12	13	
कोड सं०	कार्य विवरण	प्रस्तावित कार्य	डी०पी०आर 0 अनुसार नैतिक कार्यों की मदवार कल 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 2021-22 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि	वित्तीय वर्ष 2021-22 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि	वित्तीय वर्ष 2021-22 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि	
3.1.3.2	धारा / नौला संवर्धन / पेयजल मरम्मत	धारा / नौला संवर्धन / पेयजल मरम्मत	6	-	-	-	-	5	9.70	
3.1.3.3	चाल खाल चरी	चाल खाल चरी निर्माण	111	-	-	15	3.00	44	9.50	
		कुल योग मूदा एवं जल संरक्षण-					12.93		68.10	
3.1.3 इकोसिस्टम सर्विसेज										
3.1.3.1	इकोसिस्टम सर्विसेज	संस्थागत श्रेणी के तहत पुरुस्कार हेतु प्रावधान	ल०र०	-	-	-	-	-	-	
3.1.3.2		व्यक्तिगत श्रेणी के तहत पुरुस्कार हेतु प्रावधान	ल०र०	-	-	-	-	-	-	
3.1.3.3		विशिष्ट श्रेणी के तहत पुरुस्कार हेतु प्रावधान	ल०र०	-	-	-	-	-	-	
		कुल योग इकोसिस्टम सर्विसेज-								
3.1.4.1	वन्यजीव प्रवर्धन	वन्य जीवों के प्राकृतिक आवास सुधार हेतु उपाय	3	-	-	2	1.00	1	0.33	
3.1.4.2		वन्य जीव सुरक्षा हेतु सतर्कता बढ़ाने सम्बन्धी उपाय	ल०र०	-	-	-	-	ल०र०	2.80	
3.1.4.3		मानव वन्यजीव संघर्ष सेकथान हेतु उपाय	ल०र०	-	-	-	-	ल०र०	2.91	
3.1.4.4		ग्रामीण वन रक्षक हेतु मानदेय तथा प्रशिक्षण का व्यय	6	-	-	3	0.50	2	0.61	
		कुल योग इकोसिस्टम सर्विसेज-							6.65	
3.1.5 वैकल्पिक ऊर्जा										
3.1.5.1	इकोसिस्टम सर्विसेज	सार्वजनिक सोलर स्ट्रीट लाइट / लालटेन	67	-	-	-	-	490	4.90	
3.1.5.2		उत्पन्नता योजना के साथ कन्वर्जन्स के माध्यम से एल०पी०जी०	222	-	-	-	-	-	4.90	
		कुल योग वैकल्पिक ऊर्जा-								
3.2 संरक्षण लक्षित आजीविका संवर्धन										
3.2.1 कृषि विकास										
3.2.1.1	कृषि विकास चारापत्ती	कृषि यानिकी विकास	13	-	-	-	-	-	-	

1	2	3	4	5	6	7	8	9	10	11		
कैट प्लान का नाम	वृत्त का नाम	प्रभाग/पी.एम.यू.	कोड सं०	कार्य विवरण	प्रस्तावित कार्य	डीपीआर अनुसार भौतिक कार्यों की मदवार कर 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 2021-22 में प्रस्तावित लक्ष्यों के सापेक्ष अद्यतन उपलब्धि		
						भौतिक लक्ष्य	उपलब्धि	भौतिक लक्ष्य	उपलब्धि	भौतिक लक्ष्य	उपलब्धि	
			3.2.1.2	जीविक कृषि उत्पादन पद्धतियों का प्रदर्शन	जीविक कृषि उत्पादन पद्धतियों का प्रदर्शन	86	-	-	-	-	86	3.87
					अ) कैंजुआ/नाडेप खाद गड़दा निर्माण	5	-	-	-	-	5	1.27
					ब) कैंजुआ उत्पादन हेतुशु. निर्माण (कालस्टर स्तर)	26	-	-	-	-	-	-
					स) जीविक कृषि प्रदर्शन							5.14
			3.2.1.2	उन्नत कृषि तकनीक	कामन फेसिलिटी केन्द्र का स्थापना तथा संचालन करना	5	-	-	-	-	-	5.14
			3.2.2.1	औद्योगिकी	औद्योगिकी	4842	-	-	-	-	-	-
					अ) फल पौध विवरण	61	-	-	-	-	-	-
					ब) मौनपालन प्रदर्शन	10	-	-	-	-	-	-
					स) मशरूम उत्पादन प्रदर्शन	0	-	-	L.S.	1.00	490	4.80
					द) विपणन हेतु पैकेजिंग सहायता							4.80
			3.2.3.1	पशुपालन	पशुपालन	303	-	-	-	-	-	-
					अ) चारा सिमीकट प्रदर्शन	27	-	-	27	1.00	30	0.20
					ब) चारा नाद का निर्माण/चारा टब							
					स) प्रसंस्करण हेतु सहायता					2.00		0.20
			3.2.4.1	गैर कृषि सेक्टर	गैर कृषि सेक्टर	0	-	-	-	-	-	-
					अ) इको टूरिज्म हेतु आधारभूत संरचनाओं-सोम स्टे का विकास	ल0स0	-	-	ल0स0	0.50	55	2.06
					ब) इस्तरिख्त विकास-टूलस, कच्चे माल के क्रय आदि हेतु	0	-	-	-	-	-	-
					स) विपणन हेतु प्रचार प्रसार आदि सहायता							



ANNEXURE - II



कार्यालय-उपनिदेशक, गोविन्द वन्य जीव विहार/राष्ट्रीय पार्क, पुरोला।

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

पत्रांक 2263 / 3-3 (कैट प्लान) पुरोला:

दिनांक 13/3/2022

सेवा में,

परियोजना प्रमुख,
एसओजेवीएन,
मोरी, नैटवाड, उत्तरकाशी।

विषय:- प्रभागान्त कियानवित कैट प्लान (मोरी नैटवाड जल विद्युत परियोजना) के अन्तर्गत प्रगति आख्या के संबंध में।

महोदय,

उपरोक्त विषयक पत्र के अनुपालन में गोविन्द वन्य जीव विहार/राष्ट्रीय पार्क, पुरोला के अन्तर्गत कियानवित कैट प्लान (मोरी नैटवाड जल विद्युत परियोजना) के तहत वर्ष 2019-20 से वर्ष 2021-22 तक किये गये मदवार व्यय का विवरण निम्नानुसार प्रेषित है।

CAT Plan Mori Naitwar Expenditure Data From 2019-20 to 2021-22				
S. No	Head Wise	Financial Year		
		2019-20	2020-21	2021-22
1	2	3	4	5
1	Project Management	0.25	2.00	5.23
2	Preparatory Phase	15.85	5.60	16.71
3	Watershed Management	0.00	161.64	168.0
Total-		16.10	169.24	189.94

• All Financial Figures are taken From Uttarakhand Campa MIS Data Portal

भवदीय
(डी०पी०ब०ल०नी)

उप निदेशक
गोविन्द वन्य जीव विहार/राष्ट्रीय पार्क
पुरोला, उत्तरकाशी।

पू०सं० 2263 / 3-3 समदिनांकित।

प्रतिलिपि:-प्रभागीय वनाधिकारी, टॉस वन प्रभाग, पुरोला उत्तराखण्ड, देहरादून को सूचनार्थ प्रेषित।

उप निदेशक
गोविन्द वन्य जीव विहार/राष्ट्रीय पार्क
पुरोला, उत्तरकाशी।

ANNEXURE - III



प्रदूषण नियंत्रण अनुसंधान संस्थान
भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड) - 249403
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)

TEST REPORT AMBIENT AIR MONITORING

Lab. Ref.: PCRI-Air & Noise-2022-23-451
Date: 30-08-2022

A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori, District- Uttarkashi (Uttarakhand)
2.	Work Order No.	:	22-0037-0-691
3.	Date of sampling	:	26.06.2022 to 27.06.2022
4.	Location of Sampling	:	Barrage Office (Site)
5.	Method of Sampling	:	IS:5182 (Part-II-2001, Part-23-2006, Part-VI-2006), 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}	$\mu\text{g}/\text{m}^3$	30	100
2.	Particulate Matter less than 2.5 μm or $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	13	60
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	BDL	80
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	BDL	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)	$\mu\text{g}/\text{m}^3$	52	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

Issued by

Avinash
20/8/22

(Avinash Kumar)

अविनाश कुमार (AVINASH) Kumari

प्रबन्धक/Manager

Pollution Control Research Institute

BHEL, Ranipur, Haridwar

- Remarks :- (1) This report refers only to the particular sample/job submitted for testing.
(2) This report is not to be reproduced wholly or partly and can not be used as an evidence in any advertising media without our special permission in writing.
(3) Samples will be disposed off after one month from the date of issue of Test Certificate



प्रदूषण नियंत्रण अनुसंधान संस्थान
भारत हेवी इलेक्ट्रिकल्स लिमिटेड, रानीपुर, हरिद्वार (उत्तराखण्ड) - 249403
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)

TEST REPORT
AMBIENT AIR MONITORING

Lab. Ref.: PCRI Air & Noise: 2022-23-351
Date: 30-08-2022

A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori, District- Uttarkashi (Uttarakhand)
2.	Work Order No.	:	20-0179-0-691
3.	Date of sampling	:	26.06.2022 to 27.06.2022
4.	Location of Sampling	:	Near Stone Crusher (Site)
5.	Method of Sampling	:	IS:5182 (Part-II-2001, Part-23-2006, Part-VI-2006), 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}	$\mu\text{g}/\text{m}^3$	96	100
2.	Particulate Matter less than 2.5 μm or $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	43	60
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	BDL	80
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	BDL	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)	$\mu\text{g}/\text{m}^3$	56	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

Issued by

Avinash
20/8/22
(Avinash Kumar)

Manager (PCRI)

प्रबंधक/Manager

Pollution Control Research Institute
प्रदूषण नियंत्रण अनुसंधान संस्थान
BHEL, Ranipur, Haridwar

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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)

TEST REPORT
AMBIENT AIR MONITORING

Lab. Ref.: PCRI: Air & Noise: 2022-23 : 352
Date: 30-08-2022

A. GENERAL INFORMATION:

1.	Name and address of Plant	:	M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori, District- Uttarkashi (Uttarakhand)
2.	Work Order No.	:	22-0037-0-691
3.	Date of sampling	:	27.06.2022 to 28.06.2022
4.	Location of Sampling	:	Near Bainol Village
5.	Method of Sampling	:	IS:5182 (Part-II-2001, Part-23-2006, Part-VI-2006), 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}	$\mu\text{g}/\text{m}^3$	86	100
2.	Particulate Matter less than 2.5 μm or $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	36	60
3.	Sulphur Dioxide (SO_2)	$\mu\text{g}/\text{m}^3$	BDL	80
4.	Nitrogen Dioxide (NO_2)	$\mu\text{g}/\text{m}^3$	BDL	80
5.	Carbon Monoxide (CO)	mg/m^3	0.10	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)	$\mu\text{g}/\text{m}^3$	51	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

Issued by

Avinash
20/8/22
(Avinash Kumar)
Manager (PCRI)

अविवेक/प्रबंधक Avinash Kumar

प्रबंधक/Manager

Pollution Control Research Institute
प्रदूषण नियंत्रण अनुसंधान संस्थान
BHEL, Ranipur, Haridwar

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BHARAT HEAVY ELECTRICALS LIMITED
RANIPUR, HARIDWAR (U.K.) - 249 403
(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT
AMBIENT NOISE MONITORING

Lab. Ref.: PCRI: Air & Noise: 2022-23 : 355-359
Date: 30-08-2022

A. GENERAL INFORMATION:

1	Name and address of Plant	:	M/s SJVN Limited, Naitwar-Mori Hydro Electric Project, Mori, District- Uttarkashi, Uttarakhand
2	Work Order No.	:	22-0037-O-691
3	Date of sampling	:	26.06.2022 & 29.06.2022
4	Instrument used	:	Sound Level Meter
5	Measurement carried out by	:	PCRI, BHEL, Ranipur, Haridwar-249403 (UK)

B. RESULTS OF NOISE MEASUREMENT:

All measurement in dB (A)

Sl. No.	Location	Measured Values	Allowable Limit (Day Time) * Leq.
1.	Barrage Site Office	67	75 dB (A)
2.	Near Stone Crusher	66	
3.	Near Bainol Village	57	
4.	Near Sandra Range Quarry	64	
5.	Near Devta Range Quarry	56	

Leq. : Equivalent Sound Pressure Level

*Allowable Noise Limit: Ambient Air Quality Standards in respect of Noise: Environmental (Protection) Rule, 1986-Schedule-III for Industrial Area

Issued by
Avinash
20/8/22
(Avinash Kumar)
Manager (PCRI)
अविनाश कुमार/Avinash Kumar
प्रबन्धक/Manager
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BHEL, Ranipur, Haridwar

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PCRI 051

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BHARAT HEAVY ELECTRICALS LIMITED

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

(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

Lab Reference No: TL220194 **Date:** 29.08.2022
Indentor: M/s SJVN LIMITED, (A Joint Venture of Govt. of India & Govt. of Himachal Pradesh), Naitwar-Mori Hydro Electric Project, Mori, Distt. Uttarkashi, Uttarakhand-249128
Customer's Ref. No.: PO SJVN/NMHEP/PCD-151/22-80-82 Dated 19.05.2022
Work Order No.: 22-0037-O-691
Sample Collected by: PCRI Staff **Collection Date:** 28.06.2022
Sample/Job: Water Sample of Tones River (Upstream)

PARAMETER	UNIT	OBTAINED VALUE
Ammonical Nitrogen	mg/L	ND
Free Ammonia	mg/L	ND
Arsenic	mg/L	ND
BOD ₅ at 27°C	mg/L	3
Cadmium	mg/L	ND
COD	mg/L	12
Dissolved Phosphate	mg/L	3.67
Hexavalent Chromium	mg/L	ND
Chromium Total	mg/L	ND
Colour	Hazen	10
Copper	mg/L	0.01
Cynide	mg/L	ND
Fluoride	mg/L	ND
Iron (as Fe)	mg/L	0.20
Lead	mg/L	ND
Manganese (as Mn)	mg/L	0.03
Mercury	mg/l	ND
Nickel	mg/L	0.01
Odour		Agreeable

Contd..2

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RANIPUR, HARIDWAR (U.K.) - 249 403
(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

- 2 -

Lab Reference No:

TL220194

Date : 29.08.2022

PARAMETER	UNIT	OBTAINED VALUE
Nitrate (as NO ₃)	mg/L	1.67
Mineral Oil (Oil & Grease)	mg/l	ND
pH	-	8.1
Phenol	mg/L	ND
Residual Chlorine	mg/L	ND
Selenium	mg/L	ND
Sulphides	mg/L	ND
Temperature	°C	16.9
Total Kjeldal Nitrogen (TKN)	mg/L	ND
Total Dissolved Solids	mg/L	180
Total Suspended Solids	mg/L	86
Vanadium	mg/L	ND
Zinc	mg/L	0.01

ND-Not Detectable

Shailendra Kumar
Dy General Manager (PCRI)

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CRI/051

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BHARAT HEAVY ELECTRICALS LIMITED
RANIPUR, HARIDWAR (U.K.) - 249 403
(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

Lab Reference No: TL220195 **Date:** 29.08.2022
Indenter M/s SJVN LIMITED, (A Joint Venture of Govt. of India & Govt. of Himachal Pradesh), Naitwar-Mori Hydro Electric Project, Mori, Distt. Uttarkashi, Uttarakhand-249128
Customer's Ref. No.: PO SJVN/NMHEP/PCD-151/22-80-82 Dated 19.05.2022
Work Order No.: 22-0037-O-691
Sample Collected by: PCRI Staff **Collection Date:** 28.06.2022
Sample/Job: Water sample of downstream of Tones River (Downstream) after Chibra Gad

PARAMETER	UNIT	OBTAINED VALUE
Ammonical Nitrogen	mg/L	ND
Free Ammonia	mg/L	ND
Arsenic	mg/L	ND
BOD ₅ at 27°C	mg/L	2
Cadmium	mg/L	ND
COD	mg/L	10
Dissolved Phosphate	mg/L	4.65
Hexavalent Chromium	mg/L	ND
Chromium Total	mg/L	ND
Colour	Hazen	15
Copper	mg/L	ND
Cynide	mg/L	ND
Fluoride	mg/L	ND
Iron (as Fe)	mg/L	0.19
Lead	mg/L	ND
Manganese (as Mn)	mg/L	0.03
Mercury	mg/L	ND
Nickel	mg/L	0.01
Odour		Agreeable

Contd..2

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BHARAT HEAVY ELECTRICALS LIMITED
RANIPUR, HARIDWAR (U.K.) - 249 403
(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

- 2 -

Lab Reference No:

TL220195

Date : 29.08.2022

PARAMETER	UNIT	OBTAINED VALUE
Nitrate (as NO ₃)	mg/L	1.74
Mineral Oil (Oil & Grease)	mg/L	ND
pH	-	8.1
Phenol	mg/L	ND
Residual Chlorine	mg/L	ND
Selenium	mg/L	ND
Sulphides	mg/L	ND
Temperature	°C	17.0
Total Kjeldal Nitrogen (TKN)	mg/L	ND
Total Dissolved Solids	mg/L	178
Total Suspended Solids	mg/L	58
Vanadium	mg/L	ND
Zinc	mg/L	0.01

ND-Not Detectable

Shailendra Kumar
Dy General Manager (PCRI)

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BHARAT HEAVY ELECTRICALS LIMITED

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

(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

Lab Reference No: TL220196 **Date:** 29.08.2022
Indentor: M/s SJVN LIMITED, (A Joint Venture of Govt. of India & Govt. of Himachal Pradesh), Naitwar Mori Hydro Electric Project, Mori, Distt. Uttarkashi, Uttarakhand-249128
Customer's Ref. No.: PO SJVN/NMHEP/PCD-151/22-80-82 Dated 19.05.2022
Work Order No.: 22-0037-O-691
Sample Collected by: PCRI Staff **Collection Date:** 28.06.2022
Sample/Job: Water sample of Tones River (Before confluence to Mia Gad)

PARAMETER	UNIT	OBTAINED VALUE
Ammonical Nitrogen	mg/L	ND
Free Ammonia	mg/L	ND
Arsenic	mg/L	ND
BOD ₅ at 27°C	mg/L	3
Cadmium	mg/L	ND
COD	mg/L	15
Dissolved Phosphate	mg/L	3.76
Hexavalent Chromium	mg/L	ND
Chromium Total	mg/L	ND
Colour	Hazen	10
Copper	mg/L	0.01
Cynide	mg/L	ND
Fluoride	mg/L	ND
Iron (as Fe)	mg/L	0.18
Lead	mg/L	ND
Manganese (as Mn)	mg/L	0.03
Mercury	mg/L	ND
Nickel	mg/L	0.01
Odour		Agreeable

Contd..2

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(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

- 2 -

Lab Reference No:

TL220196

Date : 29.08.2022

PARAMETER	UNIT	OBTAINED VALUE
Nitrate (as NO ₃)	mg/L	1.81
Mineral Oil (Oil & Grease)	mg/L	ND
pH	-	8.2
Phenol	mg/L	ND
Residual Chlorine	mg/L	ND
Selenium	mg/L	ND
Sulphides	mg/L	ND
Temperature	°C	17.1
Total Kjeldal Nitrogen (TKN)	mg/L	ND
Total Dissolved Solids	mg/L	176
Total Suspended Solids	mg/L	104
Vanadium	mg/L	ND
Zinc	mg/L	0.01

ND-Not Detectable

Shailendra Kumar
Dy General Manager (PCRI)

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

(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

Lab Reference No: TL220197 **Date:** 29.08.2022
Indentor: M/s SJVN LIMITED, (A Joint Venture of Govt. of India & Govt. of Himachal Pradesh), Naitwar-Mori Hydro Electric Project, Mori, Distt. Uttarkashi, Uttarakhand-249128
Customer's Ref. No.: PO SJVN/NMHEP/PCD-151/22-80-82 Dated 19.05.2022
Work Order No.: 22-0037-O-691
Sample Collected by: PCRI Staff **Collection Date:** 28.06.2022
Sample/Job: Water sample of Tones River (After confluence to Mia Gad)

PARAMETER	UNIT	OBTAINED VALUE
Ammonical Nitrogen	mg/L	ND
Free Ammonia	mg/L	ND
Arsenic	mg/L	ND
BOD ₃ at 27°C	mg/L	3
Cadmium	mg/L	ND
COD	mg/L	14
Dissolved Phosphate	mg/L	2.88
Hexavalent Chromium	mg/L	ND
Chromium Total	mg/L	ND
Colour	Hazen	10
Copper	mg/L	ND
Cynide	mg/L	ND
Fluoride	mg/L	ND
Iron (as Fe)	mg/L	0.07
Lead	mg/L	0.01
Manganese (as Mn)	mg/L	0.02
Mercury	mg/L	ND
Nickel	mg/L	0.01
Odour	-	Agreeable

Contd..2

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BHARAT HEAVY ELECTRICALS LIMITED
RANIPUR, HARIDWAR (U.K.) - 249 403
(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

- 2 -

Lab Reference No:

TL220197

Date : 29.08.2022

PARAMETER	UNIT	OBTAINED VALUE
Nitrate (as NO ₃)	mg/L	1.68
Mineral Oil (Oil & Grease)	mg/L	ND
pH	-	8.6
Phenol	mg/L	ND
Residual Chlorine	mg/L	ND
Selenium	mg/L	ND
Sulphides	mg/L	ND
Temperature	°C	17.1
Total Kjeldal Nitrogen (TKN)	mg/L	ND
Total Dissolved Solids	mg/L	160
Total Suspended Solids	mg/L	72
Vanadium	mg/L	ND
Zinc	mg/L	0.01

ND-Not Detectable

Shailendra Kumar
Dy General Manager (PCRI)

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(A Govt. of India - UNDP / UNIDO Project)

BHARAT HEAVY ELECTRICALS LIMITED

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

(Approved Lab under Environment (Protection) Act, 1986)

TEST REPORT

Lab Reference No.: TL220198 **Date:** 29.08.2022
Indentor: M/s SJVN LIMITED, (A Joint Venture of Govt. of India & Govt. of Himachal Pradesh), Naitwar-Mori Hydro Electric Project, Mori, Distt. Uttarkashi, Uttarakhand-249128
Customer's Ref. No.: PO SJVN/NMHEP/PCD-151/22-80-82 Dated 19.05.2022
Work Order No.: 22-0037-O-691
Sample Collected by: PCRI Staff **Collection Date:** 28.06.2022
Sample/Job: Water Sample of Tones River (Downstream to Power House)

PARAMETER	UNIT	OBTAINED VALUE
Ammonical Nitrogen	mg/L	ND
Free Ammonia	mg/L	ND
Arsenic	mg/L	ND
BOD ₅ at 27°C	mg/L	4
Cadmium	mg/L	ND
COD	mg/L	20
Dissolved Phosphate	mg/L	3.78
Hexavalent Chromium	mg/L	ND
Chromium Total	mg/L	ND
Colour	Hazen	20
Copper	mg/L	ND
Cynide	mg/L	ND
Fluoride	mg/L	ND
Iron (as Fe)	mg/L	0.03
Lead	mg/L	ND
Manganese (as Mn)	mg/L	0.02
Mercury	mg/L	ND
Nickel	mg/L	0.01
Odour		Agreeable

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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)

TEST REPORT

- 2 -

Lab Reference No: TL220198

Date : 29.08.2022

PARAMETER	UNIT	OBTAINED VALUE
Nitrate (as NO ₃)	mg/L	1.71
Mineral Oil (Oil & Grease)	mg/L	ND
pH	-	8.6
Phenol	mg/L	ND
Residual Chlorine	mg/L	ND
Selenium	mg/L	ND
Sulphides	mg/L	ND
Temperature	°C	17.3
Total Kjeldal Nitrogen (TKN)	mg/L	ND
Total Dissolved Solids	mg/L	174
Total Suspended Solids	mg/L	136
Vanadium	mg/L	ND
Zinc	mg/L	0.01

ND-Not Detectable



Shailendra Kumar
Dy General Manager (PCRI)

Remarks - (1) This report refers only to the particular sample/job submitted for testing
 (2) This report is not to be reproduced wholly or partly and can not be used as an evidence in the court of law and should not be used in any advertising media without our special permission in writing
 (3) Samples will be disposed off after one month from the date of issue of Test Certificate