



# एसजेवीएन लिमिटेड

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

## कार्यालय:

कार्यकारी निर्देशक,  
निगमित पर्यावरण विभाग,  
शक्ति सदन, शनान,  
जिला शिमला, हिमाचल प्रदेश -171006  
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संख्या: SJVN/CHQ/ENV/F24/2023-155

दिनांक: 28/11/2023

To

**Member Secretary,  
River Valley and Hydroelectric Projects,  
MoEF&CC, Govt. of India,  
Indira Paryavaran Bhawan, Jor Bagh,  
New Delhi - 110003  
E-mail: [yogendra78@nic.in](mailto:yogendra78@nic.in)**

**Sub: Six Monthly Monitoring Report on Compliance to Environmental Aspects (For period April, 2023 - September, 2023) i.r.o Luhri HEP Stage-I (210 MW), Himachal Pradesh.**

**Ref: EC Letter No.: J-12011/18/2015-IA-I(R), dated 17 March 2020; Proposal No.: IA/HP/RIV/29585/2015**

Sir,

Kind reference is invited to above referred endorsement vide which Luhri HEP Stage-I (210 MW) of SJVN in Shimla and Kullu Districts (Himachal Pradesh) was granted Environment Clearance by MoEF&CC. As per EIA Notification 2006, submission of six-monthly status of the stipulated environment condition is a mandatory requirement. Further, it is also 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 of April, 2023- September, 2023) is submitted for your kind information please.

**संलग्नक: यथोपरि।**

सधन्यवाद,

भवदीय,

एसजेवीएन लिमिटेड के लिए,

(कार्यकारी निर्देशक)

**प्रतिलिपि (केवल ईमेल के माध्यम से):**

1. Inspector General of Forests, MoEF&CC, IRO, Shimla, C.G.O. Complex, Shivalik Block, Longwood, Shimla – 171001, Himachal Pradesh, E-mail: [iro.shimla-mefcc@gov.in](mailto:iro.shimla-mefcc@gov.in)
2. Member Secretary, H.P. State Pollution Control Board, Him Parivesh, Phase-III, New Shimla-171009, E-mail: [msspcb-hp@nic.in](mailto:msspcb-hp@nic.in)
3. Deputy Director General of Forests (C), MoEF&CC, IRO, 25, Subhash Road, Dehradun – 248001, E-mail: [moef.ddn@gov.in](mailto:moef.ddn@gov.in)

Website: [www.sjvn.nic.in](http://www.sjvn.nic.in)

पंजीकृत एवं कॉर्पोरेट कार्यालय: एस जे वी एन लिमिटेड, शक्ति सदन, शनान, शिमला, हिमाचल प्रदेश-171006



**अनुलग्नक-I**

**Six Monthly Compliance Report of 210 MW Luhri HEP Stage-I (SJVN Limited)  
Submitted to Ministry of Environment & Forests (GoI)  
(01 April 2023 to 30 September 2023)**

A)		Name of Project	Luhri Stage-I Hydroelectric Project
		Type of Project	Hydropower
		Location	Districts Kullu and Shimla
		EC Letter no.	J-12011/18/2015-IA-I (R) Pt dated 17.03.2020
		Contact Address	
		a) Concerned Project Head	Head of Project, Luhri Stage-I HEP, SJVN Ltd., Bithal, PO Shamathala, Tehsil Kumarsain, District Shimla, Himachal Pradesh-172030, Contact No. 01782-222615
		b) Concerned Environment Division (Corporate)	Head (Environment), SJVN Corporate Headquarters, Shanan, Shimla, HP, PIN 171006 Contact No. 0177-2660180
Conditions imposed by the Ministry of Environment & Forests, GoI while granting environment clearance vide letter no. J-12011/18/2015-IA-I (R) Pt dated 17.03.2020			
Str. No.	Conditions	Status	

i	<p>The Environmental Management Plan (EMMP) shall be strictly adhered to and a sum of Rs.14860.57 lakhs the budgetary provisions for implementation of EMMP shall be fully utilized. In case of revision of the project cost or due to price level change the cost of EMMP shall also updated proportionately</p>		
S. No.	Management Plan	Cost in Lakh (INR)	Implementing status
1	Catchment Area Treatment Plan	5668.34	An amount of Rs. 58.68 crore had been deposited in Ad-hoc CAMPA on 29.11.2018. It is being implemented and executed by Himachal Pradesh State Forest Department.
2	Muck Management Plan	513.77	Upto September 2023, 15.08 lakh m <sup>3</sup> (with 45 % swelling factor) muck has been generated from project construction activities. Out of 15.08 lakh m <sup>3</sup> generated muck, 5.02 lakh m <sup>3</sup> has been utilized for construction of dyke, job facility platform, temporary roads, given to private land owners etc. and 10.06 lakh m <sup>3</sup> has been dumped in designated dumping sites. An amount of Rs. 26.80 lakh has incurred in protection of dumping site.
3	Compensatory Afforestation and Biodiversity Management Plan	1408.06	The Compensatory Afforestation fund of Rs. 14.61 crore had been deposited in Ad-hoc CAMPA (Cost of CA, NPV, additional CA, contingency charges)/ concerned DFOs (Cost of Departmental charges and cost of trees) on 29.11.2018. It is being implemented and executed by Himachal Pradesh State Forest Department.
4	Landscaping and Restoration *	80	An amount of Rs. 83.70 lakh has been used in protection works at site, staff camp, crusher site and labour colony.

5	Management plan for Air, Water and Noise Environment	25	An amount of Rs. 110.88 lakh has been used for following activities: 1- Septic tank and soak pit preparation in labour colony = 4.02 lakh, 2- Site septic tank preparation = 1.95 lakh, 3- Water tanker (4 no.) = 53.95 lakh, 4- PPE kits = 39.26 lakh, 5- Green nets = 1.94 lakh, 6- Awareness camp = 0.04 Lakh, 7- Automatic rotating sprinklers (30 no.) = 0.16 lakh, 8- Dust Mitigation Machine (Anti-Smog Gun)- 9.56 lakh
6	Labour, Energy Conservation Measures and Waste Management Plan	245	An amount of Rs. 0.236 lakh has been used in procurement of dustbins and Rs. 3.39 lakh has been used in installation of bio toilets (8 no.).
7	Reservoir Rim Treatment and Greenbelt Development Plan	108.63	...
8	Dam Break Analysis and Disaster Management Plan	143	...
9	Fisheries Management Plan	92	An amount of Rs. 105.00 lakhs has been deposited with H. P. Fisheries Department on 12.02.2021. It is being implemented and executed by Himachal Pradesh Fisheries Department. An amount of Rs. 30.0 lakh has been utilized by HP Fisheries Department for construction of fish landing center in Kol dam reservoir at Sunni, Shimla.
10	Resettlement and Rehabilitation Plan #	6243.75	R&R plan has been approved by concerned Divisional commissioner on 04.06.2022 and 04.01.2022 for Shimla and Kullu districts

				respectively. Further, an amount of Rs. 1500.00 lakh & 3292.00 lakh have been deposited in the account of Land Acquisition Officer on 31.12.2021 & 30.06.2022 for further disbursement to beneficiaries of district Shimla and Kullu. Further, resettlement of displaced families is under process.
11	Public Health Management Plan	185.4		An amount of Rs. 23.53 lakh has been incurred in ambulance, first aid boxes, medicines etc.
12	Environment Monitoring	147.62		An amount of Rs. 29.11 lakh has been released to HP State Pollution Control Board for monitoring charges/plan.
				An amount of Rs. 7.00 lakh has been incurred in Ecological Survey.
				Further, an amount of Rs. 10.31 lakh has used in Environment Lab, Jhagri regarding purchase of chemicals and other consumables etc.
A	<b>Cost of Management Plans</b>	<b>14860.57</b>		
B	<b>Corporate Environmental Responsibility (CER)</b>	<b>866.5</b>		An amount of Rs. 80.43 lakh has been incurred for Drinking water supply scheme to Nirath Panchayat.
				An amount of Rs. 3.74 lakh has been released for construction of stage at Government Senior Secondary School, Nither, Distt. Kullu.
				An amount of Rs. 3.50 lakh has been released for construction of play ground at Government Primary School, Koel, Distt. Kullu.

		<table border="1"> <tr> <td data-bbox="1157 750 1412 817"></td> <td data-bbox="1157 817 1412 1400"></td> </tr> <tr> <td data-bbox="1157 1400 1412 1467"><b>Grand Total (A+B)</b></td> <td data-bbox="1157 1467 1412 1534"><b>15727.07</b></td> </tr> </table>			<b>Grand Total (A+B)</b>	<b>15727.07</b>	<p>An amount of Rs. 6.90 lakh has been incurred for distribution of first aid, medical equipment etc in Public Health Centre Nither, Distt. Kullu &amp; Shamathala, Distt. Shimla and Public Health Sub Centre Nirath, Distt. Shimla &amp; Koel, Distt. Kullu.</p>
<b>Grand Total (A+B)</b>	<b>15727.07</b>						
ii	<p>The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No.22-65/2017 IA.III dated 1<sup>st</sup> May 2018 regarding Corporate Environment Responsibility Project proponent shall require to invest amount of Rs. 866.5 lakhs towards the Upgradation of Educational Facilities (Rs131.0lakhs), Upgradation of Public Health Centers (Rs85.0lakhs), Solid Waste Segregation and Collection Centre (Rs75lakhs), Sewerage/ drainage line and Septic tanks (R s165.0 lakhs), Solar Street Lights (Rs 67.5lakhs), Drip Irrigation System (Rs195.0 lakhs), Rain shelters (Rs</p>	<p># Exclusive of private land cost</p> <p>An amount of Rs. 80.43 lakh has been incurred for Drinking water supply scheme to Nirath Panchayat.</p> <p>An amount of Rs. 3.74 lakh has been released for construction of stage at Government Senior Secondary School, Nither, Distt. Kullu.</p> <p>An amount of Rs. 3.50 lakh has been released for construction of play ground at Government Primary School, Koel, Distt. Kullu.</p> <p>An amount of Rs. 6.90 lakh has been incurred for distribution of first aid, medical equipment etc in Public Health Centre Nither, Distt. Kullu &amp; Shamathala, Distt. Shimla and Public Health Sub Centre Nirath, Distt. Shimla &amp; Koel, Distt. Kullu.</p>					

	<p>48.0 lakhs) and Drinking Water Supply Scheme (Rs 100.0 lakhs). The entire activities under CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half-yearly compliance report and to a District Collector.</p>	
iii	<p>Based on the recommendation of Cumulative Impact Assessment and Carrying capacity study of Satluj River Basin or as per the ToR conditions or minimum 15% of the average flow of four consecutive leanest months or as submitted in the EIA/EMP report, which ever value is higher, shall be released as environmental flow.</p>	<p>Shall be ensured</p>
iv	<p>Necessary permission/clearance to be obtained for quarrying construction materials for the project as per the EIA Notification, 2006 and sub sequent amendments thereof.</p>	<p>The Environment clearance for Moin and Koel Quarry sites have been issued by State Level Environment Impact Assessment Authority Himachal Pradesh on 03.07.2021 &amp; 15.07.2021 respectively.</p>
v	<p>Solid waste generated, especially plastic waste, etc. should not be disposed of as landfill material. It</p>	<p>Being ensured</p>

	should be treated with scientific approach and recycled. Use of single- use plastics may be discouraged	
vi	Wild life Conservation plan for all Schedules I species shall be implemented with the approval of the Competent Authority.	Being ensured
vii	Land acquired for the project shall be suitable compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provisions of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.	Being ensured
viii	The environmental clearance is valid for period of 10 years from the date of issue of this letter for commissioning of the project.	-
ix	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 under taken by an independent agency, decided in consultation with the Ministry.	Shall be ensured

x	Any other clearances /permissions/ approvals from any other organization/ department, as applicable to the project shall be taken.	Being ensured
<b>ANNEXURE-I</b>		
<b>Standard EC Condition for River valley and Hydro Electric Project</b>		
<b>I</b>	<b>Statutory Compliance</b>	
i	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1981, In case of the diversion of forest land for non-forest purpose involved in the project.	Forest Stage-II clearance for 98.1004 ha of forest land has been accorded by MoEF&CC on 28.03.2019. Further, additional forest land i.e. 0.9486 ha for Moin Quarry road's Forest Stage-I clearance accorded by MoEF&CC on 21.12.2020. The stage-II of Forest Clearance has been accorded on 13.10.2021 and office order from HP Government has been issued on 03.01.2022.
ii	The project proponent shall obtain clearance from the National Board for Wild life, if applicable.	NA
iii	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. There commendations of the approved Site-Specific Conservation Plan/ Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The	The Site-Specific Conservation Plan & Wildlife Management Plan has been prepared and submitted to Chief Wildlife Warden, Himachal Pradesh on 28.01.2020 and as per their suggestion/observation revised plan submitted on 12.11.2020. Further, it has been requested to Chief Wildlife Warden, Himachal Pradesh for approval and implementation of same on 25.10.2021, 30.09.2022, 16.03.2023 and 29.09.2023. Same is yet to be approved by Chief Wildlife Warden, Himachal Pradesh.

	implementation report shall be furnished along with the six-monthly compliance report. (in case of the presence of Schedule-I species in the study area).	
iv	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	The Consent to Establish (CTE) has been issued by HP State Pollution Control Board on 14.09.2019. The revised renewal of CTE has been issued on 01.07.2022 with validity upto 31.03.2023. The revised renewal of CTE application has been submitted on 07.02.2023 and currently replied in July 2023 regarding some observations on proposal. It is with HP State Pollution Control Board.
v	NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of CWC.	The NCSDP had approved the site specific design earthquake parameters report in its 31 <sup>st</sup> meeting held on 23.06.2016 and formal letter for approval issued by CWC on 07.10.2016.
vi	Necessary approval of CEA shall be obtained as the project cost is more than Rs.1,000 crore.	TEC accorded by CEA on 01.05.2018.
<b>II</b>	<b>Air Quality monitoring and preservation</b>	
i	Regular monitoring of various environmental parameters viz., Water Quality, Ambient Air Quality and Noise levels as per the CPCB guidelines at designated locations shall be carried out on	Monitoring reports are enclosed as <b>Annexure-A</b> .

	monthly basis and a detailed database of the same shall be prepared and recorded. This shall be used as a base line data for post construction EIA/ Monitoring purposes.	
ii	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed standards.	Being ensured
iii	Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites	Being ensured
<b>III</b>	<b>Water quality monitoring and preservation</b>	
i	Before impounding of the water, Coffor dams for both at the upstream and downstream are to be decommissioned as per EIA/EMP report so that once the project is commissioned; coffordam should not create any adverse impact on water environment including the rock mass and muck used for the Coffor dam.	Shall be ensured
ii	As there would be fluctuation of	Shall be ensured

	water level during peaking period, efforts be made to reduce impact on aquatic life including impacts during spawning period both at the upstream and downstream of the project	
iii	Water depth sensors shall be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharged data in the form of Excel Sheet be submitted to the Regional Office, MoEF&CC and to the CWC on weekly basis.	Shall be ensured
<b>IV</b>	<b>Noise monitoring and prevention</b>	
i	All the equipment likely to generate high noise shall be appropriately enclosed or in built noise enclosures be provided so as to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.	Being ensured
ii	The ambient noise levels should conform to the standards prescribed under E(P)A Rules,	Being ensured

	1986 viz. 75 dB (A) during day time and 70dB(A) during night time	
V	<b>Catchment area Treatment Plan</b>	
i	Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be implemented in synchronization with the construction of the project.	<ul style="list-style-type: none"> <li>• Total outlay for CAT Plan: Rs. 56.68 crore</li> <li>• An amount of Rs. 56.68 crore had been deposited in Ad-hoc CAMPA on 29.11.2018.</li> <li>• CAT Plan is being implemented and executed by Himachal Pradesh State Forest Department.</li> </ul>
VI	<b>Waste Management</b>	
i	Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites are inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.	<ul style="list-style-type: none"> <li>• Due to change in location and area of dumping sites, the amendment in Environment Clearance has been issued by MoEF&amp;CC on 18.03.2021.</li> <li>• Upto 30<sup>th</sup> September 2023, muck generated is 15,08,605 m<sup>3</sup> (with 45% swelling factor) of which 5,02,451 m<sup>3</sup> has been utilized and 10,06,154 m<sup>3</sup> has been dumped at designated dumping site.</li> </ul>

ii	Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA / EMP reports. Efforts be made to avoid one time use of plastics.	Being ensured
VII	<b>Green Belt, EMP Cost, Fisheries and Wildlife Management</b>	
i	Detailed information on species composition particular to fish species from previous study/literature be inventoried and proper management plan shall be prepared for in-situ conservation in the streams, tributaries of river and the main river itself for which adequate budget provision be made and followed strictly.	<ul style="list-style-type: none"> <li>Total outlay for Fisheries Management Plan proposed in EIA/EMP report is Rs. 92.00 lakhs. This plan has been revised by HP Fisheries Department from Rs. 92.00 Lakhs to 105.00 lakh due to capacity enhancement of project from 184 MW to 210 MW.</li> <li>Accordingly, an amount of Rs. 105.00 lakhs has been deposited with H. P. Fisheries Department on 12.02.2021.</li> <li>Fisheries Management Plan is being implemented and executed by Himachal Pradesh Fisheries Department.</li> <li>An amount of Rs. 30.0 lakh has been utilized by HP Fisheries Department for construction of fish landing center in Kol dam reservoir at Summi, Shimla.</li> </ul>
ii	Wildlife Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department.	Shall be ensured
iii	To enrich the habitat of the project	Shall be ensured

	site, plantation shall be raised as envisaged in the EIAEMP report. Plantation to be developed along the periphery of the reservoir in multi-layers with local indigenous species in consultation with the local State Forest Department.	
iv	Compensatory afforestation programme shall be implemented as per the plan approved.	<ul style="list-style-type: none"> <li>• Total outlay for Compensatory afforestation programme in EIA/EMP Report: Rs. 13.03 crore</li> <li>• But it was revised to Rs. 14.61 Crore after Forest Stage-I Clearance due to additional 25 % for CA Scheme towards soil and moisture conservation.</li> <li>• An amount of Rs. 14.61 crore had been deposited in Ad-hoc CAMPA (Cost of CA, NPV, additional CA, contingency charges)/ concerned DFOs (Cost of Departmental charges and cost of trees) on 29.11.2018.</li> <li>• Compensatory afforestation programme is being implemented and executed by Himachal Pradesh State Forest Department.</li> </ul>
v	Fish ladder/ pass as envisaged in the EIAEMP report shall be provided for migration of fishes, if any. Regular monitoring of this facility be carried out to ensure its effectiveness.	Reservoir fishery has been proposed in EIA/EMP report.
<b>VIII Public hearing and Human health issues</b>		
i	Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.	Notification under Section-11 of The Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013 was issued for private land of Kullu District on 15.02.2020 and for private land Shimla district on 03.06.2020 by Government of Himachal Pradesh. R&R plan has been approved by concerned Divisional commissioner on 04.06.2022 and 04.01.2022 for Shimla and Kullu districts respectively.

		Further, an amount of Rs. 1500.00 lakh & 3292.00 lakh have been deposited in the account of Land acquisition Officer on 31.12.2021 & 30.06.2022 for further disbursement to beneficiaries of district Shimla and Kullu. Further, resettlement of displaced families is under process.
ii	Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.	Being ensured
iii	Preventive measures viz. fumig and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools, etc. Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases.	Being ensured
iv	Provision shall be made for the housing of construction labour with in the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be	Being ensured

	removed after the completion of the project.	
v	Labour force to be engaged for construction works shall be examined thoroughly and adequately treated before issuing them work permit Medical facilities shall be provided at the construction s	Workers are issued work permit by the contractors only after medical fitness certificate.
vi	Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.	Shall be ensured
vii	Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Dam Break Analysis	Shall be ensured
<b>IX</b>	<b>Corporate Responsibility</b> <b>Environment</b>	
i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/ 2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	Being ensured

ii	Skill mapping be under taken for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their long time livelihood generation.	Being ensured
iii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements /deviation/ violation of the environmental /forest/ wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wild life norms / conditions and / or shareholder's / stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report	The SJVN has a well laid down environmental policy duly approved by the Board of Directors.
iv	A separate Environmental Cell both at the project and company head quarter level, with qualified	A separate Environment Cell at the project and company head quarter level with qualified personnel has already been established.

	personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	
v	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	Being ensured
vi	Post EIA and SIA be prepared for the project through a third party and evaluation report be submitted to the Ministry after five years of commissioning of the project.	Shall be ensured
vii	Multi-Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil	It was requested for constitution of MDC to MoEF&CC vide letter dated 10.06.2021 and again requested on 25.10.2021, 21.03.2022, 21.06.2022, 02.08.2022, 30.09.2022, 16.03.2023 & 28.09.2023. The constitution of MDC is under process by MoEF&CC.

	Conservation, Fisheries, NGO, etc. to oversee implementation of various environmental safeguards proposed in EIA / EMP report during construction of the project. The monitoring report of the Committee shall be uploaded in the web site of the Company.	
<b>X</b>	<b>Miscellaneous</b>	
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	<ul style="list-style-type: none"> <li>The Environment Clearance conditions and safeguards were advertised in two local news paper ie. Divya Himachal &amp; Amar Ujala on 24.03.2020.</li> <li>Further, copy of Environment clearance is also displayed permanently at SJVN website <a href="http://www.sjvn.nic.in">www.sjvn.nic.in</a>.</li> </ul>
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government	<ul style="list-style-type: none"> <li>The copies of environment clearance has been submitted to concerned Gram Pradhans, Chairperson BDCs &amp; Chairperson Zila Parishad on 23.03.2020 for their information.</li> <li>Further, copies of environment clearance has also been sent to concerned Deputy Commissioner, SDM &amp; HP State Pollution Control Board for displaying of same for 30 days for public information on 23.03.2020.</li> </ul>

	who in turn has to display the same for 30days from the date of receipt.	
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half- yearly basis.	Being ensured
iv	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being ensured
v	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the web site of the company.	Environment Statement for Financial Year 2022-23 has been submitted to HP State Pollution Control Board.
vi	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial	<ul style="list-style-type: none"> <li>• Date of Financial closure: 28.02.2022.</li> <li>• Financial approval by CCEA: 20.11.2020</li> </ul>

	closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.	<ul style="list-style-type: none"> <li>• Start of land development work: Work awarded on 24.11.2020 and actual work has been started from March 2021.</li> <li>• Start of production operation: It shall be informed (Expected by April 2026).</li> </ul>
vii	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Being ensured
viii	The project proponent shall abide by all the commitments and recommendations made in the EIA/ EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Shall be complied
ix	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Shall be complied
x	Concealing factual data or submission of false/ fabricated data may result in revocation of this environmental clearance and	Noted

	attract action under the provisions of Environment (Protection) Act, 1986.	
xi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
xiii	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data information/ monitoring reports.	Being ensured
xiv	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes	Being ensured

	(Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	
xv	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
	<b>Additional conditions imposed by the Ministry of Environment &amp; Forests, GoI in environment clearance amendment vide letter no. J-12011/18/2015-IA-I (R) Pt dated 18.03.2021</b>	
i	Necessary control measures such as water sprinkling arrangement at all the construction and muck disposal sites and construction of paved roads leading to muck disposal sites shall be made to arrest fugitive dust and proper institutional mechanism be prepared for supervising this activity during operation & maintenance stage of the project.	Being ensured
ii	Stabilization of muck disposal sites using biological and engineering measures shall be	Being ensured

<p>taken up to ensure that muck does not roll down the slopes and shall be disposed safely and that it does not pollute the natural streams and water bodies in surrounding area. The engineering measures for the muck disposal arrangement be evolved after carrying out required slope stability analysis</p>	
<p>iii Necessary consent shall be obtained from District Administration due to proposed change in private land use for dumping of muck.</p>	<p>It has been intimated State Administration i.e. SDM, Rampur &amp; Kumarsain vide letter dated 20.03.2021.</p>



**H.P. STATE POLLUTION CONTROL BOARD**  
**REPORT BY STATE BOARD ANALYST**  
**(Stack/Ambient Air) Monitoring Report**

Report No: 10807765/A-9608

11/10/2023

**ISSUED TO:** LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

**Point of collection:** Dam/Power House site (left bank R. Satluj)

**Date of collection:** 14/09/2023

**Time of collection:** 09:00

**Collected by :** Lokesh Kumar, JEE

**Date of receipt:** 04/10/2023

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	PM 10	97.74	microgrammes/m <sup>3</sup>	NA	NA



Rajender Kumar , SO  
RL Shimla



**H.P.STATE POLLUTION CONTROL BOARD  
REPORT BY STATE BOARD ANALYST  
(Stack/Ambient Air) Monitoring Report**

Report No: 10807768/A-9607

11/10/2023

**ISSUED TO:** LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

Point of collection: **Dam/Power House site (right bank R. Satluj)**  
Date of collection: **14/09/2023**  
Time of collection: **09:30**  
Collected by : **Lokesh Kumar, JEE**  
Date of receipt. **04/10/2023**

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	PM 10	92.01	microgrammes/m <sup>3</sup>	NA	NA



Rajender Kumar , SO  
RL Shimla



**H.P.STATE POLLUTION CONTROL BOARD  
REPORT BY STATE BOARD ANALYST  
(Stack/Ambient Air) Monitoring Report**

Report No: 10807762/A-9609

11/10/2023

**ISSUED TO:** LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

**Point of collection:** Main Office site, Bithal Village

**Date of collection:** 13/09/2023

**Time of collection:** 09:30

**Collected by :** Lokesh Kumar, JEE

**Date of receipt:** 04/10/2023

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	PM 10	45.45	microgrammes/m <sup>3</sup>	NA	NA



Rajender Kumar ,SO  
RL Shimla



**H.P.STATE POLLUTION CONTROL BOARD  
REPORT BY STATE BOARD ANALYST  
(Stack/Ambient Air) Monitoring Report**

Report No: 10807770/A-9606

11/10/2023

**ISSUED TO:** LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

**Point of collection:** Near Nirath Village

**Date of collection:** 16/09/2023

**Time of collection:** 09:00

**Collected by :** Lokesh Kumar, JEE

**Date of receipt.** 04/10/2023

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	PM 10	41.49	microgramm es/m3	NA	NA



Rajender Kumar , SO  
RL Shimla



## H.P.STATE POLLUTION CONTROL BOARD REPORT BY STATE BOARD ANALYST

Report No: 9351492/W-7548

12/05/2023

ISSUED TO: LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

Sample received on: 29/04/2023

Description of sample: River Satluj TRT of LHEP

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	DO	9.2	mg/L	NA	NA
2	Fecal Coliform	9.2	MPN/100ml	NA	NA
3	BOD	0.6	mg/L	NA	NA
4	Turbidity	4.8	NTU	NA	NA
5	pH	7.26		NA	NA
6	Conductivity	146.9	microsiemens	NA	NA
7	TSS	5	mg/L	NA	NA
8	Fluoride	0.21	mg/L	NA	NA
9	Boron	0.16	mg/L	NA	NA
10	Sodium	3.91	mg/L	NA	NA
11	TDS	79.0	mg/L	NA	NA
12	Potassium	2.05	mg/L	NA	NA
13	COD	3.2	mg/L	NA	NA
14	Sulphate	6.71	mg/L	NA	NA
15	Total Phosphate	0.0	mg/L	NA	NA
16	Ca <sup>++</sup>	16.83	mg/L	NA	NA
17	Nitrate-N	0.76	mg/L	NA	NA
18	Nitrite-N	0.01	mg/L	NA	NA
19	Ammonical Nitrogen	0.0	mg/L	NA	NA







## H.P.STATE POLLUTION CONTROL BOARD REPORT BY STATE BOARD ANALYST

Report No: 9351438/W-7547

12/05/2023

ISSUED TO: LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

Sample received on: 29/04/2023

Description of sample: River Satluj U/s Dam Luhri HEP

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	Ammonical Nitrogen	0.0	mg/L	NA	NA
2	pH	7.34		NA	NA
3	Conductivity	117.9	microsiemens	NA	NA
4	DO	9.2	mg/L	NA	NA
5	Fecal Coliform ,	6.8	MPN/100ml	NA	NA
6	BOD	0.7	mg/L	NA	NA
7	Turbidity	3.2	NTU	NA	NA
8	TSS	12.5	mg/L	NA	NA
9	Fluoride	0.18	mg/L	NA	NA
10	Sodium	4.01	mg/L	NA	NA
11	TDS	70.0	mg/L	NA	NA
12	Potassium	2.14	mg/L	NA	NA
13	COD	2.8	mg/L	NA	NA
14	Sulphate	13.38	mg/L	NA	NA
15	Total Phosphate	0.0	mg/L	NA	NA
16	Ca++	16.83	mg/L	NA	NA
17	Nitrate-N	0.69	mg/L	NA	NA
18	Nitrite-N	0.01	mg/L	NA	NA
19	Boron	0.14	mg/L	NA	NA



**Rajender Kumar ,SO  
RL Shimla**



## H.P.STATE POLLUTION CONTROL BOARD REPORT BY STATE BOARD ANALYST

Report No: 9351550/W-7549

12/05/2023

ISSUED TO: LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

Sample received on: 29/04/2023  
Description of sample: Handpump Nirath

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	pH	8.24		NA	NA
2	Conductivity	324.2	microsiemens	NA	NA
3	DO	9.1	mg/L	NA	NA
4	Fecal Coliform	17.0	MPN/100ml	NA	NA
5	BOD	0.7	mg/L	NA	NA
6	Turbidity	5.2	NTU	NA	NA
7	Ca <sup>++</sup>	40.88	mg/L	NA	NA
8	TSS	5	mg/L	NA	NA
9	Fluoride	0.20	mg/L	NA	NA
10	Boron	0.17	mg/L	NA	NA
11	Sodium	19.64	mg/L	NA	NA
12	TDS	220.0	mg/L	NA	NA
13	Potassium	18.99	mg/L	NA	NA
14	COD	4.0	mg/L	NA	NA
15	Sulphate	30.72	mg/L	NA	NA
16	Total Phosphate	0.0	mg/L	NA	NA
17	Nitrate-N	0.21	mg/L	NA	NA
18	Nitrite-N	0.0	mg/L	NA	NA
19	Ammonical Nitrogen	0.0	mg/L	NA	NA



Rajender Kumar ,SO  
RL Shimla



## H.P.STATE POLLUTION CONTROL BOARD REPORT BY STATE BOARD ANALYST

Report No: 9351586/W-7550

12/05/2023

ISSUED TO: LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

Sample received on: 29/04/2023

Description of sample: River Satluj before conf. with Bhera Khad

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	Ammonical Nitrogen	0.0	mg/L	NA	NA
2	pH	8.28		NA	NA
3	Conductivity	122.2	microsiemens	NA	NA
4	DO	9.1	mg/L	NA	NA
5	Fecal Coliform	9.2	MPN/100ml	NA	NA
6	BOD	0.8	mg/L	NA	NA
7	Turbidity	2.4	NTU	NA	NA
8	TSS	7.5	mg/L	NA	NA
9	Fluoride	0.20	mg/L	NA	NA
10	Boron	0.16	mg/L	NA	NA
11	Sodium	4.06	mg/L	NA	NA
12	TDS	74.0	mg/L	NA	NA
13	Potassium	2.14	mg/L	NA	NA
14	COD	2.4	mg/L	NA	NA
15	Sulphate	12.62	mg/L	NA	NA
16	Total Phosphate	0.0	mg/L	NA	NA
17	Ca++	16.43	mg/L	NA	NA
18	Nitrate-N	0.60	mg/L	NA	NA
19	Nitrite-N	0.01	mg/L	NA	NA







## H.P.STATE POLLUTION CONTROL BOARD REPORT BY STATE BOARD ANALYST

Report No: 9351639/W-7551

12/05/2023

ISSUED TO: LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

Sample received on: 29/04/2023  
Description of sample: Bhera Khad

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	Fecal Coliform	6.8	MPN/100ml	NA	NA
2	Turbidity	4.2	NTU	NA	NA
3	Boron	0.17	mg/L	NA	NA
4	Sodium	2.93	mg/L	NA	NA
5	TDS	93.0	mg/L	NA	NA
6	Potassium	3.90	mg/L	NA	NA
7	pH	8.23		NA	NA
8	Conductivity	144.7	microsiemens	NA	NA
9	DO	9.5	mg/L	NA	NA
10	BOD	0.7	mg/L	NA	NA
11	TSS	4	mg/L	NA	NA
12	Nitrate-N	0.84	mg/L	NA	NA
13	Fluoride	0.22	mg/L	NA	NA
14	COD	2.4	mg/L	NA	NA
15	Sulphate	6.71	mg/L	NA	NA
16	Total Phosphate	0.0	mg/L	NA	NA
17	Ca++	22.04	mg/L	NA	NA
18	Nitrite-N	0.0	mg/L	NA	NA
19	Ammonical Nitrogen	0.0	mg/L	NA	NA







## H.P.STATE POLLUTION CONTROL BOARD REPORT BY STATE BOARD ANALYST

Report No: 9351687/W-7552

12/05/2023

ISSUED TO: LUHRI HEP Stage I  
Village Bithal P.O .Samathala, Tehsil Kumhersain, District Shimla, Kumarsain  
Distt.Shimla Rampur, H.P.172030

Sample received on: 29/04/2023

Description of sample: River Satluj after Conf. with Bhera Khad

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	pH	8.28		NA	NA
2	Conductivity	126.8	microsicmen s	NA	NA
3	DO	9.1	mg/L	NA	NA
4	Fecal Coliform	9.2	MPN/100ml	NA	NA
5	BOD	0.6	mg/L	NA	NA
6	Turbidity	7.2	NTU	NA	NA
7	TSS	12	mg/L	NA	NA
8	Fluoride	0.21	mg/L	NA	NA
9	Sodium	3.98	mg/L	NA	NA
10	TDS	83.0	mg/L	NA	NA
11	Potassium	2.10	mg/L	NA	NA
12	COD	2.8	mg/L	NA	NA
13	Sulphate	15.26	mg/L	NA	NA
14	Total Phosphate	0.0	mg/L	NA	NA
15	Nitrate-N	0.60	mg/L	NA	NA
16	Nitrite-N	0.0	mg/L	NA	NA
17	Ammonical Nitrogen	0.0	mg/L	NA	NA
18	Boron	0.16	mg/L	NA	NA
19	Ca <sup>++</sup>	17.23	mg/L	NA	NA



Rajender Kumar ,SO  
RL Shimla



**SJVN ENVIRONMENT LABORATORY**  
**LHEP STAGE-I**  
 Jhakri, Shimla-172201  
 Email: [environment.lab@sjvn.nic.in](mailto:environment.lab@sjvn.nic.in)

<b>Test Report</b>			
Lab Code.		EL270523AN02	
Site Location		Dam Site/DT, Nirath	
Reference No.		EMP of LHEP Stage-I	
Issued to		Environment Dept., LHEP Stage-I (On June 05, 2023)	
Mode of Sampling		Sound Level Meter	
Date of Sampling		May 27, 2023	
Date of Receipt of Data		May 27, 2023	
Remarks and Observation		<ul style="list-style-type: none"> <li>• NH5 in vicinity with high traffic.</li> <li>• Project construction activities ongoing.</li> </ul>	
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Industrial (Day time)
1.	SPL	74.4	-
2.	Leq	72.3	75
3.	Lmax	76.4	-
4.	Lmin	66.2	-
5.	SEL	100.7	-

**NOTE:**

1. This Report is meant for internal use at SJVN only and shall not be reproduced externally/at any court of law/authority.
2. Results exceeding permissible/acceptable limits are highlighted in bold.



**SJVN ENVIRONMENT LABORATORY**  
**LHEP STAGE-I**  
**Jhakri, Shimla-172201**  
**Email: [environment.lab@sjvn.nic.in](mailto:environment.lab@sjvn.nic.in)**

<b>Test Report</b>			
Lab Code.		EL260923AN01	
Site Location		Nither Market area, District Kullu	
Reference No.		EMP of LHEP Stage-I	
Issued to		Environment Dept., LHEP Stage-I (On October 06, 2023)	
Mode of Sampling		Sound Level Meter	
Date of Sampling		September 26, 2023	
Date of Receipt of Data		September 26, 2023	
Remarks and Observation		<ul style="list-style-type: none"> <li>• Low traffic.</li> <li>• Market open.</li> <li>• Anthropogenic activities observed in nearby habitations.</li> </ul>	
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Commercial (Day time)
1	SPL	60.4	-
2	Leq	63.2	65
3	Lmax	85.3	-
4	Lmin	41.4	-
5	SEL	99.5	-

**NOTE:**

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 Email: [environment.lab@sjvn.nic.in](mailto:environment.lab@sjvn.nic.in)

<b>Test Report</b>			
Lab Code.	EL230923AN01		
Site Location	Dumping Area, Behra Khad		
Reference No.	EMP of LHEP Stage-I		
Issued to	Environment Dept., LHEP Stage-I (On October 06, 2023)		
Mode of Sampling	Sound Level Meter		
Date of Sampling	September 23, 2023		
Date of Receipt of Data	September 23, 2023		
Remarks and Observation	<ul style="list-style-type: none"> <li>NH5 in vicinity with high traffic.</li> <li>Project construction work in Progress.</li> </ul>		
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Industrial (Day time)
1.	SPL	82.2	-
2.	Leq	70.2	75
3.	Lmax	82.9	-
4.	Lmin	44.8	-
5.	SEL	87.4	-

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Test Report			
Lab Code.	EL230923AN03		
Site Location	Plant Mixture, Nirath, District Shimla		
Reference No.	EMP of LHEP Stage-I		
Issued to	Environment Dept., LHEP Stage-I (On October 06, 2023)		
Mode of Sampling	Sound Level Meter		
Date of Sampling	September 23, 2023		
Date of Receipt of Data	September 23, 2023		
Remarks and Observation	<ul style="list-style-type: none"> <li>NH5 in vicinity with high traffic.</li> <li>Project construction work in Progress.</li> <li>Plant Mixture is off.</li> </ul>		
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Industrial (Day time)
1.	SPL	74.6	-
2.	Leq	63.5	75
3.	Lmax	81.1	-
4.	Lmin	52.5	-
5.	SEL	100.3	-

**NOTE:**

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