



# 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  
टेलीफोन न.: 0177-2660180  
ईमेल: [sjvn.ecfc@gmail.com](mailto:sjvn.ecfc@gmail.com)  
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संख्या: SJVN/CHQ/ENV/F24/ 2022 - 036

दिनांक: 30/05/2022

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 October, 2021 - March, 2022) 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 October 2021-March 2022) is submitted for your kind information, please.

संलग्नक: यथोपरि

सधन्यवाद,

भवदीय,

एसजेवीएन लिमिटेड के लिए,

  
(कार्यकारी निर्देशक)

प्रतिलिपि (केवल ईमेल के माध्यम से):

1. APCCF (C), Zonal Office, North Central Zone, MoEF&CC, 25 Subhash Road, Dehradun - 248001, E-mail: [moef.ddn@gmail.com](mailto:moef.ddn@gmail.com)
2. Deputy Director General Forest (C), Zonal Office, North Central Zone, MoEF&CC, 25 Subhash Road, Dehradun - 248001, E-mail: [moef.ddn@gmail.com](mailto:moef.ddn@gmail.com)
3. Member Secretary, Himachal Pradesh State Pollution Control Board, Him Parivesh, BCS, New Shimla - 171006, E-mail: [mspcb-hp@nic.in](mailto:mspcb-hp@nic.in)

CIN L40101HP1988GOI008409 website: [www.sjvn.nic.in](http://www.sjvn.nic.in)

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

**Six Monthly Compliance Report of 210 MW Luhri HEP Stage-I (SJVN Limited)  
Submitted to Ministry of Environment & Forests (GoI)  
(01 October 2021 to 31 March 2022)**

<b>A)</b>	<b>Name of Project</b>	<b>Luhri Stage-I Hydroelectric Project (210 MW)</b>
	<b>Type of Project</b>	<b>Hydropower</b>
	<b>Location</b>	<b>Districts Kullu and Shimla</b>
	<b>EC Letter no.</b>	<b>J-12011/18/2015-IA-I (R) Pt dated 17.03.2020</b>
	<b>Contact Address</b>	Contact No. 01782-222615
	<b>a) Concerned Project Head</b>	Head of Project, Luhri Stage-I HEP, SJVN Ltd., Bithal, PO Shamathala, Tehsil Kumarsain, District Shimla, Himachal Pradesh-172030,
	<b>b) Concerned Environment Division (Corporate)</b>	Head (Environment), SJVN Corporate Headquarters, Shanan, Shimla, HP, PIN 171006 Contact No. 0177-2660180

<b>Conditions imposed by the Ministry of Environment &amp; Forests, GoI while granting environment clearance vide letter no. J-12011/18/2015-IA-I (R) Pt dated 17.03.2020</b>					
<b>Sr. No.</b>	<b>Conditions</b>	<b>Status</b>			
I	The Environmental Management Plan (EMP) shall be strictly adhered to and a sum of Rs.14860.57 lakhs the budgetary provisions for implementation of EMP shall be fully utilized In case of revision of the project cost or due to price level change the cost of EMP shall also updated proportionately	<b>S. No.</b>	<b>Management Plan</b>	<b>Cost in Lakh (INR)</b>	<b>Implementing status</b>
		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 March 2022, 5.79 lakh m <sup>3</sup> (with 45 % swelling factor) muck has been generated from project construction activities. Out of 5.79 lakh m <sup>3</sup> generated muck, 2.24 lakh m <sup>3</sup> has been utilized for construction of dyke, job facility platform, temporary roads etc. and 3.55 lakh m <sup>3</sup> has been dumped in designated dumping sites. An amount of Rs. 5.05 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) on 29.11.2018. Work is being implemented and executed by Himachal Pradesh State Forest Department.
		4	Landscaping and Restoration *	80	An amount of Rs. 60.74 lakh has been used in protection works at site, staff camp and labour colony.
		5	Management plan for Air, Water and Noise Environment	25	An amount of Rs. 40.98 lakh has been used for various air water and noise quality management measures.
		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	Shall be ensured.
		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.
		10	Resettlement and Rehabilitation Plan #	6243.75	R&R plan of District Kullu was finalized on 04.01.2022, while of District Shimla is under finalization with HP Government. Further, an amount of Rs. 1500.00 lakh has been deposited in the account of Land acquisition Officer on 31.12.2021.
		11	Public Health Management Plan	185.4	An amount of 3.03 lakh has been incurred in procurement of ambulance and first aid boxes.
		12	Environment Monitoring	147.62	An amount of Rs. 24.36 lakh has been released to HP State Pollution Control Board for Environment monitoring charges/plan. Further, an amount of Rs. 3.92 lakh has been used in Environment Lab, Jhakri for purchase of chemicals etc. used for analysis of various ambient air and water quality parameters.
		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 32.7 lakh has been incurred for Drinking water supply scheme to Nirath Panchayat.
			<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 Septictanks (Rs165.0lakhs), Solar Street Lights (Rs67.5lakhs), Drip Irrigation System (Rs195.0lakhs), Rain shelters (Rs48.0lakhs) and Drinking Water Supply Scheme (Rs100.0lakhs). 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</p>	<p>Rs. 32.7 Lakh has been released to Jal Shakti Department, Rampur Bushahr, Himachal Pradesh for C/o Water Supply Scheme to village Nirath in Gram Panchayat Nirath, Tehsil Rampur Bushahr, Distt. Shimla.</p>

	half-yearly compliance report and to a District Collector.	
III	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.	Shall be ensured
Iv	Necessary permission/ clearance to be obtained for quarrying construction materials for the project as per the EIA Notification, 2006 and subsequent amendments thereof.	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 & 15.07.2021 respectively. <b>(Copy enclosed as Annexure-A &amp; B).</b>
V	Solid waste generated, especially plastic waste, etc. should not be disposed of as landfill material. It should be treated with scientific approach and recycled. Use of single-use plastics may be discouraged	Being ensured
Vi	Wild life Conservation plan for all Schedules I species shall be implemented with the approval of	Being ensured

	the Competent Authority.	
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.	Noted.
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, asapplicable 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 ( <b>Copy enclosed as Annexure-C</b> ).
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 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).	The Site-Specific Conservation Plan & Wildlife Management Plan has been prepared and submitted on 28.01.2020 and revised plan was submitted on 12.11.2020. Recently forest department once again requested on 25.10.2021 for approval and implementation of plan.

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 application for renewal of CTE application has been submitted to HP State Pollution Control Board on 17.08.2021. Same is being processed.
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 approval letter was issued on 07.10.2016 by CWC.
vi	Necessary approval of CEA shall be obtained as the project cost is more than Rs.1,000 crore.	The CEA had accorded Concurrence 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 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	Monitoring reports are enclosed as <b>Annexure-D</b> .

	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, Cofferdams for both at the upstream and downstream are to be decommissioned as per EIA/EMP report so that once the project is commissioned; cofferdam should not create any adverse impact on water environment including the rock mass and muck used for the Cofferdam.	Shall be ensured
ii	As there would be fluctuation of water level during peaking period, efforts be made to reduce impact on aquatic life including impacts during spawning period	Shall be ensured

	both at the upstream and downstream of the project	
iii	Water depth sensors shall be installed at suitable locations to monitor flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharge data in the form of Excel Sheet be submitted to the Regional Office, MoEF&CC and to the CWC on weekly basis.	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. PPE kits worth Rs. 7.16 lakhs have been distributed among workers. Monitoring reports have been enclosed.
ii	The ambient noise levels should conform to the standards prescribed under E(P)ARules, 1986 viz. 75 dB (A) during day time and 70dB(A) during night time	Being ensured

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> </ul>
ii	Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various	Being ensured

	purposes as envisaged in the EIA / EMP reports .Efforts be made to avoid one time use of plastics.	
<b>VII</b>	<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>• An amount of Rs. 105.00 lakhs have 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> </ul>
ii	Wild life 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 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	Shall be ensured

	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 that will be implemented by State Fisheries Department.
<b>VIII</b>	<b>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. Further, an amount of Rs. 1500.00 lakh has been deposited in the account of Land acquisition Officer on 31.12.2021. R&R plan of District Kullu was finalized on 04.01.2022, while of District Shimla is under finalization with HP Government.
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. fuming and spraying of mosquito control shall be done in and around the labour colonies, affected villages, stagnated pools, etc.Provisions be made to not to create any stagnated pools to avoid creation of breeding grounds of the vector borne diseases.	Being ensured
Iv	Provision shall be made for the housing of construction labourwith in the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobileSTP, safe drinking water,medical health care, crèche etc.The housing may be in the form of temporary structures to be removed after the completion of the project.	Being ensured
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 Telemetricssystem shall be installed in the upper	Shall be ensured

	catchment area of the project for advance intimation of flood fore cast.	
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 Environment Responsibility</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	The SJVN has a well laid down environmental policy duly approve by the Board of Directors. <b>(Annexure-E)</b>

	<p>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&amp;CC as a part of six-monthly report</p>	
iv	<p>A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.</p>	<p>A separate Environment Cell at the project and company head quarter level with qualified personnel has already been established.</p>
V	<p>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</p>	<p>Being ensured</p>

	<p>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.</p>	
vi	<p>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.</p>	<p>Shall be ensured</p>
vii	<p>Multi-Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil Conservation, Fisheries, NGO, etc. to oversee implementation of various environmental safeguards proposed in EIA / EMP report during construction of the project. The monitoring report of the Committee shall be uploaded in the web site of the Company.</p>	<p>It was requested for constitution of MDC to MoEF&amp;CC vide letter dated 10.06.2021 and again requested on 25.10.2021 &amp; 21.03.2022. The constitution of MDC is under process in MoEF&amp;CC. <b>(Copy enclosed as Annexure-F)</b></p>
<b>X</b>	<p><b>Miscellaneous</b></p>	
I	<p>The project proponent shall make public the environmental clearance</p>	<ul style="list-style-type: none"> <li>• The Environment Clearance conditions and safeguards were advertised in two local news papers. Divya Himachal &amp; Amar Ujala on 24.03.2020.</li> </ul>

	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>• 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 therelevant offices of the Government who in turn has to display the same for 30days from the date of receipt.	<ul style="list-style-type: none"> <li>• The copy 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 have 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>
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	Being ensured. The previous six-monthly compliance report was submitted to MoEF&CC on <b>30.11.2021</b> and was uploaded on SJVN website.

	the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	
V	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environment Statement for Financial Year 2020-21 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 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>• Financial approval by CCEA: 20.11.2020</li> <li>• Date of Financial closure: 28.02.2022.</li> <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 attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
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	Noted.

	implement these conditions.	
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.	Noted.
Xiv	The above conditions shall be forced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and 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.	Noted.
Xv	Any appeal against this EC shall lie with the National Green	Noted.

	Tribunal,if preferred,within a period of 30 days asprescribed under Section 16 of the National Green Tribunal Act, 2010.	
	<b>Additional conditions imposed by the Ministry of Environment &amp; Forests, GoIn 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 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	Being ensured
iii	Necessary consent shall be obtained from District Administration due to proposed	It has been intimated State Administration i.e. SDM, Rampur &Kumarsain vide letter dated 20.03.2021.

	change in private land use for dumping of muck.	
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# State Level Environment Impact Assessment Authority Himachal Pradesh

Ministry of Environment, Forest & Climate Change, Government of India,  
at Department of Environment Science & Technology,  
Paryavaran Bhawan, Near US Club, Shimla-1

Ph: 0177-2656559, 2659608 Fax: 2659609

Dated:

2021

F. No. HP SEIAA/2021/806

To

M/s Satluj Jal Vidyut Nigam Ltd.,  
Luhri Hydro Electric Project Stage-1, Bithal, P.O. Samahla,  
Tehsil-Kumarsain, District-Shimla, H.P.

**Subject:** Project proposal for Mining of Minerals – Environmental Clearance-reg.

Dear Sir/Madam,

This has a reference to your proposal submitted online for grant of Environment Clearance on dated 19/10/2020, accepted by the SEIAA secretariat on dated 02/02/2021. The proposal has been appraised as per prescribed procedure in the light of provisions under the Environment Impact Assessment Notification, dated 14<sup>th</sup> September 2006 on the basis of documents viz; Form-I, Pre-feasibility Report, EIA/EMP etc. by the State Expert Appraisal Committee constituted by the competent authority in its 79<sup>th</sup> Meeting held on 23 & 25 June, 2021. The said project involves following salient features:

- |   |   |  |
|---|---|--|
| a. Online Proposal No.  | : | SIA/HP/MIN/179322/2020<br>HP SEIAA/2021-806  |
| b. Project type   | : | Extraction/collection of Sand, Stone & Bajri.  |
| c. Project Location   | : | Tukra no. 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625 (Pvt. land) & tukra no. 7 (Govt. land) falling in Mauza/Mohal-Neethar, Sun-Tehsil-Neethar, District-Kullu, H.P. |
| d. Jamabandi  | : | Jamabandi for the year   |
| e. Land Status  | : | Govt. land   |
| f. Project Capacity   | : | 1,49,659 TPA.  |
| g. Mining Area  | : | 4-67 ha, Govt. land  |
| h. Leases within 500 mtrs. From periphery of the area applied | : | -  |
| i. Letter of Intent   | : | Extension of LOI dated 1.3.2021, valid for one year. (28.02.2021 to 27.02.2022)  |
| j. Working Plan   | : | Strictly as per Working-cum-Environment Management Plan approved by Geological Wing of Industries Department, Himachal Pradesh.  |
| k. EMP Costs  | : | Capital Cost: Rs.10.50 lakhs; Recurring cost: Rs. 3.07 lakhs PA  |
| l. CER Costs  | : | Capital Cost: Rs.20.50 lakhs; Recurring cost: Rs. 3.07 lakhs PA  |
| m. Institutional Mechanisms for Env. Protection               | : | The following will be responsible for maintenance of APCDs and Solid Waste Management sites:<br>i) Construction phase: Developer/ Project Proponent.<br>ii) Operational Phase: Developer/ Project Proponent.                                     |
| n. Validity period of EC                                      | : | 5 Years or upto the date of valid mining plan whichever is earlier.  |

The SEIAA examined the proposal in its 52<sup>nd</sup> meeting held on 29/6/2021 and considered the recommendations made by SEAC in its 79<sup>th</sup> Meeting held on 23 & 25 June, 2021. After considering the recommendations of the State Level Expert Appraisal Committee, the State level Environmental Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA Notification No. S.O. 1533 dated 14<sup>th</sup> September, 2006 of Ministry of Environment & Forests, GoI subject to strict compliance of terms and conditions as mentioned below. The Authority reserves the right to revise, revoke or impose additional condition at any stage.

**A. Statuary Compliance**

- 1 This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 2 The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- 3 The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- 4 This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- 5 This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- 6 Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- 7 The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- 8 The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- 9 The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled —Impact of mining activities on Habitations- Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area||.
- 10 The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- 11 A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- 12 State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- 13 The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.parivesh.nic.in](http://www.parivesh.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
- 14 The Project Proponent shall inform the SEIAA for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

#### **B. Air Quality Monitoring And Preservation**

1. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO<sub>2</sub>, CO<sub>2</sub> and SO<sub>2</sub> etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
2. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment's/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust

suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

**C. Water quality monitoring and preservation**

- 1 In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- 2 Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board & SEIAA
- 3 Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- 4 The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Regional Office, MOEFCC, SEIAA, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
- 5 Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- 6 Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC & SEIAA annually.
- 7 Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- 8 The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC, SEIAA and State Pollution Control Board/Committee.

**D. Noise and vibration monitoring and prevention**

1. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

2. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
3. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

**E. Mining plan**

1. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining working (viz. method of technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the SEIAA, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
2. The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology/Department of Industries as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change & SEIAA for record and verification.
3. The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the concerned Regional Office, MoEFCC & SEIAA.

**F. Land reclamation**

1. The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
2. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
3. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
4. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
5. The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC & SEIAA.
6. Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.

7. Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
8. The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.
9. The mining lease holders shall, after ceasing mining operations, undertake regressing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

#### G. Transportation

1. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
2. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

#### H. Green Belt

1. The Project Proponent shall develop greenbelt in 7.5 m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the SEIAA irrespective of the stipulation made in approved mine plan.
2. The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
3. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
4. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.

5. And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry & SEIAA

**I. Public hearing and human health issues**

1. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carry out Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office, SEIAA and DGMS on half-yearly basis.
2. The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carry out base line HRA for all the category of workers and thereafter every five years.
3. The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 × 14 inches and of good quality).
4. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC & SEIAA annually along with details of the relief and compensation paid to workers having above indications.
5. The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
6. Project Proponent shall make provision for the housing for workers/labours or shall construct labour camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
7. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry, SEIAA along with District Administration.

**J. Corporate Environment Responsibility (CER)**

1. The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC & SEIAA annually along with audited statement.
2. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEFCC and its concerned Regional Office & SEIAA.

**K. Miscellaneous**

1. The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEFCC & SEIAA
2. The Project Authorities should inform to the Regional Office & SEIAA regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
3. The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, SEIAA, Central Pollution Control Board and State Pollution Control Board.
4. A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC & SEIAA.
5. The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) & competent Authority by furnishing the requisite data / information / monitoring reports.

**L. Additional Conditions**

1. The project proponent shall provide four plastic waste shredder, four plastic waste baling machine & four compactor to the concerned ULBs/ PRIs through Department of Environment, Science & Technology, GoHP.
2. The project proponent shall provide 20 solar light under CER through DEST.

  
Member Secretary

State Level Environment Impact Assessment Authority  
Himachal Pradesh

Endst. No. As Above. - 715-722

Dated: 03 July, 2021. g/c

Copy to following for further necessary action:

1. The Secretary (Environment), Ministry of Environment, Forests & Climate Change (MoEF&CC), Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003
  2. The Chairman, Central Pollution Control Board, Him Parivesh Bhawan, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032.
  3. The Chairman, Himachal Pradesh State Pollution Control Board, Shimla-171009.
  4. The Director (Environment, Science & Technology) to the GoHP, Shimla-171001.
  5. The Adviser (IA), MoEF&CC, Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003.
  6. The APCCF (C), Ministry of Env., Forest and Climate Change, Regional Office (NCZ), 25, Subhash Road, Dehradun - 248001
  7. The Monitoring Cell, MoEF&CC, Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003
8. Record File.

  
Member Secretary

State Level Environment Impact Assessment Authority  
Himachal Pradesh

g/c



सत्यमेव जयते

# State Level Environment Impact Assessment Authority Himachal Pradesh

Ministry of Environment, Forest & Climate Change, Government of India,  
at Department of Environment Science & Technology,  
Paryavaran Bhawan, Near US Club, Shimla-1

Ph: 0177-2656559, 2659608 Fax: 2659609

F. No. HPSEIAA/2021/807 - 968-975

Dated: 15<sup>th</sup> July, 2021

To

M/s Satluj Jal Vidyut Nigam Ltd.,  
Luhri Hydro Electric Project Stage-1, Bithal, P.O. Samahla,  
Tehsil-Kumarsain, District-Shimla, H.P. (Koel site)

**Subject:** Project proposal for Mining of Minerals – Environmental Clearance-reg.

Dear Sir/Madam,

This has a reference to your proposal submitted online for grant of Environment Clearance on dated 19/10/2020, accepted by the SEIAA secretariat on dated 02/02/2021. The proposal has been appraised as per prescribed procedure in the light of provisions under the Environment Impact Assessment Notification, dated 14<sup>th</sup> September 2006 on the basis of documents viz; Form-I, Pre-feasibility Report, EIA/EMP etc. by the State Expert Appraisal Committee constituted by the competent authority in its 80<sup>th</sup> Meeting held on 8<sup>th</sup> & 9<sup>th</sup> July, 2021. The said project involves following salient features:

- |   |   |  |
|---|---|--|
| a. Online Proposal No.  | : | SIA/HP/MIN/179300/2020<br>HPSEIAA/2021/807   |
| b. Project type   | : | Extraction/collection of Sand, Stone & Bajri.  |
| c. Project Location   | : | Tukra no. 2 falling in Mauza/Mohal-Gadej, Sun-Tehsil-Neethar, District-Kullu, H.P.   |
| d. Jamabandi  | : | Jamabandi for the year   |
| e. Land Status  | : | Govt. land   |
| f. Project Capacity   | : | 99,750 TPA.  |
| g. Mining Area  | : | 3-65 ha, Govt. land  |
| h. Leases within 500 mtrs. From periphery of the area applied | : | -  |
| i. Letter of Intent   | : | Extension of LOI dated 1.3.2021, valid for one year. (28.02.2021 to 27.02.2022)  |
| j. Working Plan   | : | Strictly as per Working-cum-Environment Management Plan approved by Geological Wing of Industries Department, Himachal Pradesh.  |
| k. EMP Costs  | : | Capital Cost: Rs. 3.10 lakhs; Recurring cost: Rs. 0.40 lakhs/PA  |
| l. CER Costs  | : | Capital Cost: Rs. 12.20 lakhs; Recurring cost: Rs. 2.40 lakhs/PA   |
| m. Institutional Mechanisms for Env. Protection               | : | The following will be responsible for maintenance of APCDs and Solid Waste Management sites:<br>i) Construction phase: Developer/ Project Proponent.<br>ii) Operational Phase: Developer/ Project Proponent. |
| n. Validity period of EC                                      | : | 5 Years or upto the date of valid mining plan whichever is earlier.  |

The SEIAA examined the proposal in its 53<sup>rd</sup> meeting held on 12/7/2021 and considered the recommendations made by SEAC in its 80<sup>th</sup> Meeting held on 8<sup>th</sup> & 9<sup>th</sup> July, 2021. After considering the recommendations of the State Level Expert Appraisal Committee, the State level Environmental Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA Notification No. S.O. 1533 dated 14<sup>th</sup> September, 2006 of Ministry of Environment & Forests, GoI subject to strict compliance of terms and conditions as mentioned below. The Authority reserves the right to revise, revoke or impose additional condition at any stage.

## A. Statuary Compliance

- 1 This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.

- 2 The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- 3 The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- 4 This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- 5 This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- 6 Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- 7 The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- 8 The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- 9 The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled —Impact of mining activities on Habitations— Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area]].
- 10 The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- 11 A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- 12 State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- 13 The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.parivesh.nic.in](http://www.parivesh.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
- 14 The Project Proponent shall inform the SEIAA for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

#### **B. Air Quality Monitoring And Preservation**

1. The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz PM10, PM2.5, NO<sub>2</sub>, CO<sub>2</sub> and SO<sub>2</sub> etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/1, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
2. Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment's/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

#### **C. Water quality monitoring and preservation**

- 1 In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- 2 Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board & SEIAA
- 3 Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- 4 The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Regional Office, MOEFCC, SEIAA, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.
- 5 Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- 6 Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC & SEIAA annually.
- 7 Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- 8 The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC, SEIAA and State Pollution Control Board/Committee.

**D. Noise and vibration monitoring and prevention**

1. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
2. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure

that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.

3. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

#### E. Mining plan

1. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the SEIAA, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
2. The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology/Department of Industries as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change & SEIAA for record and verification.
3. The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the concerned Regional Office, MoEFCC & SEIAA.

#### F. Land reclamation

1. The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
2. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
3. The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
4. The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
5. The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC & SEIAA.
6. Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
7. Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum

discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.

8. The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.
9. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

#### G. Transportation

1. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
2. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

#### H. Green Belt

1. The Project Proponent shall develop greenbelt in 7.5 m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the SEIAA irrespective of the stipulation made in approved mine plan.
2. The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.
3. The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
4. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.
5. And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry & SEIAA

I. Public hearing and human health issues

1. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office, SEIAA and DGMS on half-yearly basis.
2. The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.
3. The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x 14 inches and of good quality).
4. The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC & SEIAA annually along with details of the relief and compensation paid to workers having above indications.
5. The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
6. Project Proponent shall make provision for the housing for workers/labours or shall construct labour camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.
7. The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry, SEIAA along with District Administration.

J. Corporate Environment Responsibility (CER)

1. The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude

- & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC & SEIAA annually along with audited statement.
2. Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEFCC and its concerned Regional Office & SEIAA.

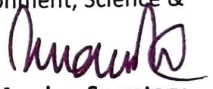
**K. Miscellaneous**

1. The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEFCC & SEIAA
2. The Project Authorities should inform to the Regional Office & SEIAA regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
3. The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, SEIAA, Central Pollution Control Board and State Pollution Control Board.
4. A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC & SEIAA.
5. The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) & competent Authority by furnishing the requisite data / information / monitoring reports.

**L. Additional Conditions**

The project proponent shall submit compliance of the following CER condition within 3 months from the issuance of EC letter, failing which EC will be withdrawn:

1. The project proponent shall provide five plastic shredders, five plastic waste baling machines & five compactor to the concerned ULBs/ PRIs through Department of Environment, Science & Technology, GoHP.
2. The project proponent shall provide 8 solar lights under CER through Department of Environment, Science & Technology, GoHP.

  
**Member Secretary**

State Level Environment Impact Assessment Authority  
Himachal Pradesh

Dated: 15<sup>th</sup> July, 2021.

Endst. No. As Above. 968-975  
Copy to following for further necessary action:

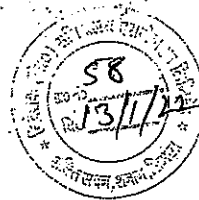
1. The Secretary (Environment), Ministry of Environment, Forests & Climate Change (MoEF&CC), Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003
2. The Chairman, Central Pollution Control Board, Him Parivesh Bhawan, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032.
3. The Chairman, Himachal Pradesh State Pollution Control Board, Shimla-171009.
4. The Director (Environment, Science & Technology) to the GoHP, Shimla-171001.
5. The Adviser (IA), MoEF&CC, Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003.
6. The APCCF (C), Ministry of Env., Forest and Climate Change, Regional Office (NCZ), 25, Subhash Road, Dehradun - 248001
7. The Monitoring Cell, MoEF&CC, Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003
8. Record File.

  
**Member Secretary**

State Level Environment Impact Assessment Authority  
Himachal Pradesh



HOP & HEP, Bithal  
Diary No. 4463  
Date 18-01-22



Annexure - B

Chh

CMD

DCC - out of station

HOP/HEP/

हिमाचल प्रदेश सरकार  
वन विभाग

No:- FFE-B-F(2)-7/2021

Dated Shimla-171002, the

03 January, 2022

**ORDER**

Sub:-

Proposal for seeking prior approval under Forest (Conservation) Act, 1980 for non-forestry use of 0.9486 ha (in addition to the already diverted 98.1004 ha.) additional forest land in favour of SJVN Ltd. for Luhri HEP Stage-I for approach road under the Jurisdiction of Ani at Luhri Forest Division and District Kullu, Himachal Pradesh (Online Proposal No. FP/HP/HYD/39709/2019)/-regarding.

भारत सरकार पर्यावरण, वन एवं जलवायु परिवर्तन मन्त्रालय, नई दिल्ली, द्वारा वन (संरक्षण) अधिनियम 1980 की धारा-2 के अर्न्तगत जारी स्वीकृति पत्र संख्या 8-48/2018-FC (Vol.) दिनांक 13/10/2021 के परिणामस्वरूप, राज्यपाल, हिमाचल प्रदेश उपरोक्त विषय में दर्शित 0.9486 हे० (in addition to 98.1004 ha forest area already diverted vide letter No. 8-48/2018-FC) dated 28-03-2019) वन भूमि के उपयोग के लिए स्वीकृति निम्नलिखित शर्तों पर प्रदान करते हैं :-

**A. Conditions which need to be complied after Handling Over of forest land to the user agency by the State Forest Department**

- The State Forest Department shall ensure that the User Agency (UA) will implement bio-engineering measures up to 100 meters on either side of the proposed road as per the report at the cost of the UA and the measures will promote greenery in the area.
- The State Forest Department shall co-ordinate with the Ministry of Agriculture & Farmers Welfare to explore possibility for finding appropriate support for bamboo plantation in the designated plan area.
- The State Forest Department shall ensure the complete compliance of FRA, 2006; It should also be ensured that the FRA certificate issued by the District collector is complete with letter number, date, name, signature and official seal, as required in the certificate;
- The User Agency shall implement the R&R Plan as per the R & R policy of State Government in consonance with National R&R policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF&CC along with indicators for monitoring and expected observable milestones.
- The State Forest Department shall ensure that the boundary of the diverted forest land, shall be demarcated on ground at the project cost, by erecting four

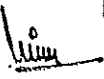
17/01/22

Deputy Commr  
Dm CPD  
17/01/22

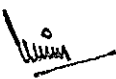
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17/01/22

- vi The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required.
- B. **Conditions which need to be complied after Handling Over of forest land to the user agency by the State Forest Department.**
- i Legal status of the forest land shall remain unchanged.
  - ii The State Department shall ensure that the minimum number of tree/plants/poles in any case not more than mentioned in the applied forest area will be removed and the trees should be felled under strict supervision of the State Forest Department;
  - iii The proposed forest land i.e. 0.9486 ha shall be handed over to the User Agency only after when the User Agency has acquired the required non-forest land, if any, for the project;
  - iv The Compensatory Afforestation shall be taken up by the State Forest Department over 1.89 ha. Degraded forest land at the cost of the User Agency. As far as practicable a mixture of local indigenous species will be planted and monoculture of a species has to be avoided;
  - v The User Agency shall pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.
  - vi User Agency shall raise strip plantation on both sides and central verge of the road as per the IRC norms.
  - vii Speed regulation signage will be erected along the road at regular intervals in the Protected Areas/Forests Areas.
  - viii The User Agency shall provide suitable under /over pass in Protected Area/Forest Area as per recommendations of CWLW/NBWL/FAC/REC.
  - ix The layout plan of the proposal shall not be changed without prior approval of Central Government;
  - x No labour camps shall be set up inside the forest area.
  - xi The sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternative fuel;
  - xii The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the User Agency or the project life, whichever is less;
  - xiii No damage to the flora and fauna of the area shall be caused;
  - xiv The forest land shall not be used for any purpose other than the specified in the project proposal;
- 

- xv The concerned Divisional Forest Officer, will monitor and take necessary mitigation measures to ensure that there is no adverse impact on the forests in the surrounding area;
- xvi The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies; department or person without prior approval of Govt. of India.
- xvii The H.P. Forest Department shall ensure that the Compliance Report of this approval is uploaded on e-portal(<http://parivesh.nic.in/>);
- xviii The H.P. Forest Department shall ensure that the violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as per the para 1.21 of comprehensive guidelines issued vide Ministry F.No. 5-2/2017-FC dated 28th March, 2019.
- xix Any other condition that the Ministry of Environment, Forests & Climate Change may stipulate from time to time in the interest of conservation, protection and development of forests & wildlife shall be carried with by the H.P. Forest Department and User Agency ; and
- xx The H.P. Forest Department and User Agency shall ensure compliance to all conditions stipulated in the Stage-I approval letter dated 21.12.2020 for which undertakings have been obtained from the User Agency and also the provisions of all Acts, Rules, Regulations and Guidelines, relevant Hon'ble Court Order(s) and NGT Order (s), if any, pertaining to this project for the time being in force, as applicable to the project.
- xxi Lease deed shall be executed by the User Agency with the Collector-cum-Deputy Commissioner, Kullu, Himachal Pradesh.



By Order

Nisha Singh  
Addl. Chief Secretary (Fts.) to the  
Government of Himachal Pradesh

Endst. No FFE-B-F(2)-9/2021

Dated, Shimla-171001 the, 03 January, 2022

Copy forwarded for information and necessary action to :-

3. Additional Director General of Forests, MoEF, Indira Paryavaran Bhawan, Aliganj, Jorbagh Road, New Delhi - 110003.
2. Asstt. Inspector General (Forests), Ministry of Environment, Forests & CC, Integrated Regional Office, Shimla, C.G.O Complex, Shivalik Khand, Longwood, Shimla-171001 Himachal Pradesh.
3. The Pr.CCF (HoFF) with the request to ensure compliance of all conditions contained in the above order.
4. The Nodal Officer-cum- APCCF(FCA), O/o HPFD HQ Talland, Shimla-01 for similar necessary action.
5. The Deputy Commissioner, Kullu, Distt. Kullu, Himachal Pradesh.
6. The Chief Managing Director, SJVN Ltd. Shakti Sadan, Corporate Office Shanan, Shimla, H.P.
7. Divisional Forest Officer, Ani Forest Division, Distt., <sup>Kullu</sup> Mandi, H.P.
8. Guard File.

*Sat Pal Dhiman*  
(Sat Pal Dhiman) 3-1-2022

Additional Secretary (Forests) to the  
Government of Himachal Pradesh

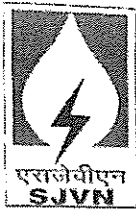
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Test Report					
Lab Code.	EL260222AA10				
Site Location	Maintenance Office, Rampur HPS township, New Nirsu				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP Of LHEP-I				
Issued to	LHEP-I, Environment Department ( On March 03, 2022)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	February 25, 2022				
Date of Receipt	February 26, 2022				
Date of Test/Analysis	March 01, 2022				
Remarks and Observation	1) Weather condition – Cloudy 2) Wind condition - Moderate winds 3) Traffic flow – Low 4) Major Construction work – LHEP-I Dumping Area at 250 meter approx.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	66.40	100	Gravimetric

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LHEP STAGE-I  
Jhakri, Shimla-172201  
Email: environment.lab@sjvn.nic.in

Test Report					
Lab Code.	EL260222AA09				
Site Location	At Old PIC-Rampur HPS, Bayal Village				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP-I				
Issued to	LHEP-I, Environment Department (On March 03, 2022)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	February 25, 2022				
Date of Receipt	February 26, 2022				
Date of Test/Analysis	March 01, 2022				
Remarks and Observation	1) Weather condition – Cloudy 2) Wind condition - Moderate wind 3) Traffic flow – Low 4) Major Construction work- LHEP-I Dumping Area at 500 meter approx.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	41.81	100	Gravimetric

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Test Report					
Lab Code.		EL260222AA08			
Site Location		Aanas Village, District Kullu			
Reference No.		SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP Of LHEP-I			
Issued to		LHEP-I, Environment Department ( On March 03, 2022)			
Mode of Collection of Sample		From Site by SJVNL Environment Laboratory			
Type of Sample		Air Sample			
Quantity of Sample		24 hours			
Date of Sampling		February 24, 2022			
Date of Receipt		February 26, 2022			
Date of Test/Analysis		March 01, 2022			
Remarks and Observation		1) Weather condition – Light rain 2) Wind condition - Moderate wind 3) Traffic flow – Low 4) Major construction work – LHEP-I Dam and NH5 construction work in progress.			
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	42.32	100	Gravimetric

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**Email: environment.lab@sjvn.nic.in**

<b>Test Report</b>					
Lab Code.		EL260222AA07			
Site Location		Koyal Village, District Kullu			
Reference No.		SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP-I			
Issued to		LHEP-I, Environment Department (On March 03, 2022)			
Mode of Collection of Sample		From Site by SJVNL Environment Laboratory			
Type of Sample		Air Sample			
Quantity of Sample		24 hours			
Date of Sampling		February 24, 2022			
Date of Receipt		February 26, 2022			
Date of Test/Analysis		March 01, 2022			
Remarks and Observation		1) Weather condition – Light rain 2) Wind condition - Moderate wind 3) Traffic flow – Low 4) Major construction work – LHEP-I dumping area at 500 meter approx. & LHEP-1 Switch yard work in progress nearby 150 meter.			
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	20.74	100	Gravimetric

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Test Report					
Lab Code.	EL260222AA06				
Site Location	Bhadrash Village, District Shimla				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP Of LHEP-I				
Issued to	LHEP-I, Environment Department (On March 03, 2022)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	February 23, 2022				
Date of Receipt	February 26, 2022				
Date of Test/Analysis	March 01, 2022				
Remarks and Observation	1) Weather condition – Partially Cloudy with rain at midnight 2) Wind condition - Moderate wind 3) Traffic flow – Heavy 4) Major construction work – Construction works of private buildings nearby.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	84.12	100	Gravimetric

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<b>Test Report</b>					
Lab Code.		EL260222AA05			
Site Location		Naula Village, Samanthla Panchayat			
Reference No.		SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP Of LHEP-I			
Issued to		LHEP-I, Environment Department (On March 03, 2022)			
Mode of Collection of Sample		From Site by SJVNL Environment Laboratory			
Type of Sample		Air Sample			
Quantity of Sample		24 hours			
Date of Sampling		February 23, 2022			
Date of Receipt		February 26, 2022			
Date of Test/Analysis		March 01, 2022			
Remarks and Observation		1) Weather condition – Partially Cloudy with rain at midnight 2) Wind condition – Moderate windy 3) Traffic flow – No 4) Major Construction work – LHEP-I Dam construction & NH-05 work in progress.			
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	40.02	100	Gravimetric

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Test Report					
Lab Code.	EL260222AA04				
Site Location	Moin Village, Kullu District				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP Of LHEP-I				
Issued to	LHEP-I, Environment Department ( On March 03, 2022)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	February 22, 2022				
Date of Receipt	February 26, 2022				
Date of Test/Analysis	March 01, 2022				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition - Moderate wind 3) Traffic flow – Medium 4) Major Construction work – LHEP-I Dam & NH-05 construction work in progress. Private Crusher running nearby. House construction work nearby.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	<b>102.60</b>	100	Gravimetric

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Test Report					
Lab Code.	EL260222AA03				
Site Location	LHEP-I Office, Bithal Village				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/ EMP Of LHEP-I				
Issued to	LHEP-I, Environment Department (On March 03, 2022)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	February 22, 2022				
Date of Receipt	February 26, 2022				
Date of Test/Analysis	March 01, 2022				
Remarks and Observation	1) Weather condition – Sunny and Dry 2) Wind condition - Moderate wind 3) Traffic flow – Light & Heavy Vehicle Movement on NH5 4) Major Construction work – LHEP-I Dumping site at 250 meter approx.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	156.14	100	Gravimetric

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Test Report					
Lab Code.	EL260222AA02				
Site Location	LHEP- I Dam Site, Nirath				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP Of LHEP-I				
Issued to	LHEP-I, Environment Department ( On March 03, 2022)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	February 21, 2022				
Date of Receipt	February 26, 2022				
Date of Test/Analysis	March 01, 2022				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition – Moderate wind 3) Traffic flow – Heavy traffic on NH5 and dumper movement in vicinity 4) Construction work – LHEP-I Dam site construction & NH5 construction nearby.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	<b>174.39</b>	100	Gravimetric
2	PM <sub>2.5</sub>	µg/m <sup>3</sup>	<b>23.43</b>	60	Gravimetric

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<b>Test Report</b>					
Lab Code.	EL260222AA01				
Site Location	Panchayat Ghar, Nirath Village				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP-I				
Issued to	LHEP-I, Environment Department (On March 03, 2022)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	February 21 , 2022				
Date of Receipt	February 26, 2022				
Date of Test/Analysis	March 01, 2022				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition – Moderate wind 3) Traffic flow – No 4) Major construction work – LHEP-I Dam site construction work & NH5 construction activity in progress at 800 meter approx.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM <sub>10</sub>	µg/m <sup>3</sup>	88.69	100	Gravimetric

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Test Report			
Lab Code.		EL210222AN01	
Site Location		Nither Market area, District Kullu	
Reference No.		EMP of LHEP Stage-I	
Issued to		Environment Dept., LHEP Stage-I (On March 03, 2022)	
Mode of Sampling		Sound Level Meter	
Date of Sampling		February 21, 2022	
Date of Receipt of Data		February 21, 2022	
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	59.2	-
2	Leq	64.4	65
3	Lmax	73.9	-
4	Lmin	40.6	-
5	SEL	92.9	-

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<b>Test Report</b>			
Lab Code.		EL240222ANN01	
Site Location		Nirath Bus Stop/NH-5, District Shimla	
Reference No.		EMP of LHEP Stage-I	
Issued to		Environment Dept., LHEP Stage-I (On March 03, 2022)	
Mode of Sampling		Sound Level Meter	
Date of Sampling		February 24, 2022	
Date of Receipt of Data		February 24, 2022	
Remarks and Observation		<ul style="list-style-type: none"><li>NH5 with high 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	83.5	-
2	Leq	<b>75.9</b>	65
3	Lmax	83.9	-
4	Lmin	56.8	-
5	SEL	103.6	-

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<b>Test Report</b>			
Lab Code.		EL240222AN02	
Site Location		Plant Mixture, Nirath, District Shimla	
Reference No.		EMP of LHEP Stage-I	
Issued to		Environment Dept., LHEP Stage-I(On March 03, 2022)	
Mode of Sampling		Sound Level Meter	
Date of Sampling		February 24, 2022	
Date of Receipt of Data		February 24, 2022	
Remarks and Observation		<ul style="list-style-type: none"><li>• NH5 in vicinity with high traffic.</li><li>• Project construction activities ongoing.</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	67.7	-
2.	Leq	65.4	75
3.	Lmax	80.9	-
4.	Lmin	53.6	-
5.	SEL	103.3	-

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Test Report			
Lab Code.		EL240222AN03	
Site Location		Dumping Area, Behra Khad	
Reference No.		EMP of LHEP Stage-I	
Issued to		Environment Dept., LHEP Stage-I (On March 03, 2022)	
Mode of Sampling		Sound Level Meter	
Date of Sampling		February 24, 2022	
Date of Receipt of Data		February 24, 2022	
Remarks and Observation		<ul style="list-style-type: none"><li>NH5 in vicinity with high traffic.</li><li>No dumping activity observed.</li></ul>	
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Industrial (Day time)
1.	SPL	74.7	-
2.	Leq	71.4	75
3.	Lmax	82.3	-
4.	Lmin	59.4	-
5.	SEL	94.1	-

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<b>Test Report</b>			
Lab Code.		EL240222AN04	
Site Location		Dam Site/DT, Nirath	
Reference No.		EMP of LHEP Stage-I	
Issued to		Environment Dept., LHEP Stage-I (On March 03, 2022)	
Mode of Sampling		Sound Level Meter	
Date of Sampling		February 24, 2022	
Date of Receipt of Data		February 24, 2022	
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	82.8	-
2.	Leq	<b>76.3</b>	75
3.	Lmax	84.0	-
4.	Lmin	56.1	-
5.	SEL	102.1	-

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### Test Report

Lab Code.	EL210222R01				
Site Location	U/s of Proposed LHEP-I Dam Site at Bhadrash				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on March 03, 2022)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	River Water				
Quantity of Sample	1 litre				
	February 21, 2022				
Date of Receipt	February 21, 2022				
Date of Test/Analysis	February 24, 2022				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Permissible Limit (As per IS2296) For E Class	Test Methods
1.	pH	-	8.38	6.0-8.5	pH meter
2.	Temperature	°C	11.5	-	Thermo-sensor
3.	Conductivity	µS/cm	623	2250	Conductivity meter
4.	Turbidity	NTU	2.76	-	Turbidity meter
5.	TDS	mg/l	219	2100	Gravimetric
6.	TSS	mg/l	70.3	-	Gravimetric
7.	Total Solids	mg/l	289.3	-	Gravimetric
8.	DO	mg/l	10.97	-	DO meter

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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)

Test Report					
Lab Code.	EL210222R02				
Site Location	At Proposed LHEP-I Dam Site at Nirath				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on March 03, 2022)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	River Water				
Quantity of Sample	1 litre				
Date of Sampling	February 21, 2022				
Date of Receipt	February 21, 2022				
Date of Test/Analysis	February 24, 2022				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Permissible Limit (As per IS2296) For E Class	Test Methods
1.	pH	-	8.48	6.0-8.5	pH meter
2.	Temperature	°C	8.3	-	Thermo-sensor
3.	Conductivity	µS/cm	708	2250	Conductivity meter
4.	Turbidity	NTU	13.7	-	Turbidity meter
5.	TDS	mg/l	239.1	2100	Gravimetric
6.	TSS	mg/l	48	-	Gravimetric
7.	Total Solids	mg/l	287.1	-	Gravimetric
8.	DO	mg/l	11.9	-	DO meter

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

<b>Test Report</b>					
Lab Code.	EL210222R03				
Site Location	D/s of Proposed LHEP-I Dam Site at Moin Village Bridge				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on March 03, 2022)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	River Water				
Quantity of Sample	1 litre				
Date of Sampling	February 21, 2022				
Date of Receipt	February 21, 2022				
Date of Test/Analysis	February 24, 2022				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Permissible Limit (As per IS2296) For E Class	Test Methods
1.	pH	-	<b>8.76</b>	6.0-8.5	pH meter
2.	Temperature	°C	8.8	-	Thermo-sensor
3.	Conductivity	µS/cm	716	2250	Conductivity meter
4.	Turbidity	NTU	8.71	-	Turbidity meter
5.	TDS	mg/l	220.4	2100	Gravimetric
6.	TSS	mg/l	86	-	Gravimetric
7.	Total Solids	mg/l	306.4	-	Gravimetric
8.	DO	mg/l	10.40	-	DO meter

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

Test Report					
Lab Code.	EL210222D01				
Site Location	Natural Spring, Source Talai, NH-5				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on March 03, 2022)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	Natural Spring (Ground Water)				
Quantity of Sample	1 litre				
Date of Sampling	February 21, 2022				
Date of Receipt	February 21, 2022				
Date of Test/Analysis	February 24, 2022				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	8.17	6.5-8.5	pH meter
2.	Temperature	°C	17.3	-	Thermo-sensor
3.	Conductivity	µS/cm	1327	-	Conductivity meter
4.	Turbidity	NTU	0.202	1	Turbidity meter
5.	TDS	mg/l	179.6	500	Gravimetric
6.	TSS	mg/l	98.8	-	Gravimetric
7.	Total Solids	mg/l	278.4	-	Gravimetric
8.	DO	mg/l	6.47	-	DO meter

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

Test Report					
Lab Code.	EL210222D02				
Site Location	Hand Pump Nirath Village, NH-05				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on March 03, 2022)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	Natural Spring (Ground Water)				
Quantity of Sample	1 litre				
Date of Sampling	February 21, 2022				
Date of Receipt	February 21, 2022				
Date of Test/Analysis	February 24, 2022				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	7.58	6.5-8.5	pH meter
2.	Temperature	°C	12.8	-	Thermo-sensor
3.	Conductivity	µS/cm	1435	-	Conductivity meter
4.	Turbidity	NTU	<b>19.6</b>	1	Turbidity meter
5.	TDS	mg/l	307.8	500	Gravimetric
6.	TSS	mg/l	173.9	-	Gravimetric
7.	Total Solids	mg/l	481.7	-	Gravimetric
8.	DO	mg/l	3.56	-	DO meter

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

**Test Report**

Lab Code.	EL210222D03				
Site Location	Natural Spring, Source Kali Mitti, NH-5				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on March 03, 2022)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	Natural Spring (Ground Water)				
Quantity of Sample	1 litre				
Date of Sampling	February 21, 2022				
Date of Receipt	February 21, 2022				
Date of Test/Analysis	February 24, 2022				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	8.30	6.5-8.5	pH meter
2.	Temperature	°C	11.6	-	Thermo-sensor
3.	Conductivity	µS/cm	1345	-	Conductivity meter
4.	Turbidity	NTU	<b>7.11</b>	1	Turbidity meter
5.	TDS	mg/l	269	500	Gravimetric
6.	TSS	mg/l	88.6	-	Gravimetric
7.	Total Solids	mg/l	357.6	-	Gravimetric
8.	DO	mg/l	9.27	-	DO meter

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

Test Report					
Lab Code.	EL210222D04				
Site Location	Natural Spring, Source Near Kurpan Khad				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on March 03 , 2022)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	Natural Spring (Ground Water)				
Quantity of Sample	1 litre				
Date of Sampling	February 21, 2022				
Date of Receipt	February 21, 2022				
Date of Test/Analysis	February 24, 2022				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	8.57	6.5-8.5	pH meter
2.	Temperature	°C	13.8	-	Thermo-sensor
3.	Conductivity	µS/cm	312	-	Conductivity meter
4.	Turbidity	NTU	0.111	1	Turbidity meter
5.	TDS	mg/l	167.1	500	Gravimetric
6.	TSS	mg/l	76.7	-	Gravimetric
7.	Total Solids	mg/l	243.8	-	Gravimetric
8.	DO	mg/l	7.22	-	DO meter

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

**Test Report**

Lab Code	EL210222D06
Site Location	Natural Spring, Source Shakroll (Bawadi)
Reference No.	SJVN/LHEP/ENV/2021-1235-36,02.03.2021/EMP of LHEP-I
Issued to	Environment Department, LHEP-I (on March 03, 2022)
Mode of Collection of Sample	From Site by SJVN Environment Laboratory
Type of Sample	Natural Spring (Ground Water)
Quantity of Sample	1 litre
Date of Sampling	February 21, 2022
Date of Receipt	February 21, 2022
Date of Test/Analysis	February 24, 2022
Remarks and Observation	

SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	7.90	6.5-8.5	pH meter
2.	Temperature	°C	16.7	-	Thermo-sensor
3.	Conductivity	µS/cm	775	-	Conductivity meter
4.	Turbidity	NTU	0.154	1	Turbidity meter
5.	TDS	mg/l	198.2	500	Gravimetric
6.	TSS	mg/l	46.8	-	Gravimetric
7.	Total Solids	mg/l	245	-	Gravimetric
8.	DO	mg/l	3.55	-	DO meter

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

### Test Report

Lab Code.	EL210222D06				
Site Location	Hand Pump, Nithor				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021 / EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on March 03, 2022)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	Natural Spring (Ground Water)				
Quantity of Sample	1 litre				
Date of Sampling	February 21, 2022				
Date of Receipt	February 21, 2022				
Date of Test/Analysis	February 24, 2022				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	8.07	6.5-8.5	pH meter
2.	Temperature	°C	16.1	-	Thermo-sensor
3.	Conductivity	µS/cm	716	-	Conductivity meter
4.	Turbidity	NTU	<b>6.75</b>	1	Turbidity meter
5.	TDS	mg/l	197	500	Gravimetric
6.	TSS	mg/l	112.8	-	Gravimetric
7.	Total Solids	mg/l	309.8	-	Gravimetric
8.	DO	mg/l	3.12	-	DO meter

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CIN: L40101HP1988GOI008409



एसजेवीएन लिमिटेड

SJVN Limited

(A Joint Venture of GOI &amp; GOHP)

A Mini Ratna &amp; Schedule "A" Company

391

06

सीएस/248/बीएम/2016-3171-83

दिनांक: 05 अक्टूबर 2016

श्री कवर सिंह  
निदेशक (सिविल)  
एसजेवीएन लिमिटेड  
एसजेवीएन कॉर्पोरेट कार्यालय परिसर,  
शानान, शिमला 171006

विषय: निदेशक मंडल की 248<sup>वीं</sup> बैठक - कार्यवृत्त

महोदय,

हम इस पत्र के साथ निदेशक मंडल की दिनांक 13 सितम्बर 2016 को सम्पन्न हुई 248<sup>वीं</sup> बैठक का कार्यवृत्त आपकी सूचना एवं टिप्पणियों (यदि कोई हों) के लिए भेज रहे हैं।

सधन्यावाद,

भवदीय,

श्री. दास  
(सोमिन्द्र दास)  
कंपनी सचिव

संलग्न: यथावत्

for n.a. please

1. Head (CP) / - for note on item 248/7 and 2
2. Head (BDEMS) - for note on item 248/10

17/10/2016  
AGM (Enm)

for Vatsch  
17/10/2016

602  
2/11/16  
8/10/16

पंजीकृत कार्यालय: एसजेवीएन कॉर्पोरेट ऑफिस कॉम्प्लेक्स, शानान, शिमला - 171006 हिमाचल प्रदेश

Registered Office: SJVN Corporate Office Complex, Shanan, Shimla - 171006 Himachal Pradesh

दूरभाष / Tel No. 0177-2660070; 2660075, फैक्स / Fax: 0177-2660071, ईमेल / Email: cssjvn@yahoo.com Website: www.sjvn.nic.in


EXTRACT OF MINUTES OF 248<sup>TH</sup> MEETING OF THE BOARD OF DIRECTORS  
HELD ON 13<sup>TH</sup> SEPTEMBER, 2016

ITEM NO. 248/7

REVISION OF ENVIRONMENT POLICY AND PROCEDURE OF SJVN

The Board was informed that, the existing Environment Policy & Procedures was approved by the Board in its 156<sup>th</sup> Meeting held on 17-11-2006. Since then a number of changes have taken place in the applicable laws and procedures of the country and therefore company's policies/ procedures have been duly aligned with latest applicable notifications and acts.

After due deliberations, the Board approved the proposal as placed.

  
सीमेन्द्र दास  
कंपनी सचिव  
एसजेवीएन लिमिटेड  
एसजेवीएन कार्पोरेट कार्यालय परिसर  
शान, शिमला-171006 (हि.प्र.)

cedures

Common safety appropriate

Developing process and environment meeting at high standards and outside environment.

policies in any

all issues the other

national Policy will be

### ENVIRONMENT POLICY STATEMENT

SJVN reaffirms its commitment towards sustainable power generation and transmission with utmost care for environment.

Towards this commitment, SJVN will endeavour to:

- ↓ Conduct all its activities in an environmentally responsible manner and comply with applicable legal requirements, guidelines, directives and other commitments.
- ↓ Continually improve its management systems to prevent pollution and seek new and innovative ways to mitigate environmental impacts of its past, present and future activities.
- ↓ Develop and maintain efficient two-way communication with the stakeholders and collaborate with them in resolving environmental concerns.
- ↓ Minimize waste generation, promote efficient use of resources and contribute towards reduction of Green House Gas (GHG) emissions.
- ↓ Promote environmental awareness among its employees, contractors and suppliers and ensure that they have the training, knowledge, skills, resources, and equipment to meet the environmental commitments.

\*\*\*\*\*

### पर्यावरण नीति वक्तव्य

एसजेवीएन, पर्यावरण के प्रति अत्यंत संवेदनशीलता के साथ सतत विद्युत उत्पादन एवं पारेषण हेतु अपनी प्रतिबद्धता की पुष्टि करता है।

इस प्रतिबद्धता की दिशा में एसजेवीएन निम्नलिखित प्रयास करेगा:

- पर्यावरण के प्रति उत्तरदायी रहते हुए अपनी सभी गतिविधियों का संचालन करना तथा लागू होने वाली विधिक आवश्यकताओं, दिशा-निर्देशों, अनुदेशों और अन्य प्रतिबद्धताओं का अनुपालन करना।
- प्रदूषण की रोकथाम के लिए अपनी प्रबंधकीय प्रणालियों में लगातार सुधार करना तथा अपनी गत, वर्तमान तथा भविष्य की गतिविधियों के पर्यावरणीय प्रभावों को कम करने के लिए नए एवं अभिनव तरीकों की खोज करना।
- हितधारकों के साथ प्रभावी द्विपक्षीय संप्रेषण विकसित करना और कायम रखना तथा उनके साथ पर्यावरणीय मुद्दों के समाधान हेतु मिलकर कार्य करना।
- अपशिष्ट उत्पादन को न्यूनतम करना, संसाधनों के प्रभावी उपयोग को बढ़ावा देना तथा ग्रीन हाउस गैस उत्सर्जन को कम करने में योगदान करना।
- अपने कर्मचारियों, ठेकेदारों तथा आपूर्तिकर्ताओं के मध्य पर्यावरणीय जागरूकता को बढ़ाना तथा सुनिश्चित करना कि उनके पास पर्यावरणीय प्रतिबद्धताओं को पूरा करने के लिए प्रशिक्षण, ज्ञान, कौशल, संसाधनों तथा उपकरणों का प्रावधान रहे।

Sent through Dak and  
email on 22/03/22  
22

एसजेवीएन लिमिटेड

SJVN Limited

(A joint venture of Govt. of India & Govt. of Himachal Pradesh)  
A 'Mini Ratna' & Schedule 'A' PSU  
CIN : CIN:L40101HP1988GOI008409

लुहरी हाईड्रो पावर प्रोजेक्ट-I  
Luhri Hydro Power Project -I



ENVIRONMENT DEPARTMENT

No. SJVN/LHEP-I/Env./EC/Committee/2022- 1821

Dated: 21/03/22

To,

Dr. Y.P. Singh  
Scientist 'E' IA-I,  
Ministry of Environment, Forest and Climate Change,  
Vayu Wing, Indira Paryavaran Bhawan, Jor Bagh Road,  
New Delhi-110003  
Email:yogendra78@nic.in

**Subject:- Regarding constitution of Multi-Disciplinary Committee (MDC) to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of Luhri HEP Stage-I.**

**Reference: EC letter no. J-12011/18/2015-IA-I (R) Pt. dated 17.03.2020 for Luhri HEP Stage-I (210MW)**

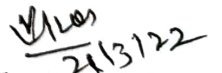
Sir,

This is in continuous to this office letter no. SJVN/LHEP-1/Env.EC/2021-1400 dated 10.06.2021 & 25.10.2021 vide which constitution of Multi-Disciplinary Committee (MDC) to oversee implementation of various environmental safeguards proposed in EIA/EMP report during construction of Luhri HEP Stage-1 was requested (**Copy enclosed**). The constitution of MDC still awaited.

Therefore, it is requested to kindly constitute a MDC to oversee implementation of various safeguards proposed in EIA/EMP report of Luhri HEP Stage-I during construction period of the project.

Thanking you,

Yours faithfully

  
21/3/22  
(Vikas Mahajan)  
General Manager

Environment Department,  
Luhri HEP Stage-I, SJVN, Bithal

परियोजना कार्यालय: गांव विथल, डा0 शमाथला,  
तहसील कुमारसैन, जिला शिमला-172030  
दूरभाष : 01782-221807, Fax No.:01782-222277 www.sjvn.nic.in  
कार्पोरेट मुख्यालय : शक्ति सदन शनान,  
शिमला-(171006 हि0प्र0)

Project office : Village Bithal, P.O. Shamathala,  
Tehsil Kumarsain, Distt. Shimla-172030  
Tele :01782-221807, Fax No.:01782-222277 www.sjvn.nic.in  
Corporate H.Q. : Shakti Sadan Shanan,  
Shimla-171006(H.P)

अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

**Annexure-I****Name and contact detail of committee members proposed for Multi-Disciplinary  
Committee (MDC) for Luhri HEP Stage-I:**

S. No.	Name/Post	Discipline	Nomination	Remarks
1.	Chief General Manager	Project Head	Chairman	Phone No.: 01782-222615 E-mail: hoplhhep@yahoo.com
2.	Dr. K. Mandal, Scientist 'C', Integrated Regional Office (North Central Zone), Dehradun	MoEF&CC Representative	Member	Phone No.: 0135-2650809 E-mail: drkrish31@gmail.com
3.	Dr. R.K. Verma, Scientist-G, Himalayan Forest Research Institute, Shimla	Official Expert (Ecology)	Member	Phone No.: +91-9418189326 E-mail: rkverma89326@gmail.com
4.	CCF, Rampur Forest Circle, HP Forest Department, Rampur Bushahr, Shimla	Official Expert (Forestry)	Member	Phone No.: 01782-233068 E-mail: rampurcircle@gmail.com
5.	DFO (WL) Sarahan, HP Forest Department, Ranvi@ Gharaat, Sarahan, Rampur Bushahr, Shimla	Official Expert (Wildlife)	Member	Phone No.: 01782-274232 E-mail: dfowlsar-hp@nic.in
6.	Asstt. Director of Fisheries, Shimla HP Fisheries Department, Himachal Pradesh	Official Expert (Fisheries)	Member	Phone No.: 0177-2830171 E-mail: adfish-sml-hp@nic.in
7.	Dr. Ashok Kumar, Sub-divisional Soil Conservation Officer, Rampur, Department of Agriculture, Himachal Pradesh	Official Expert (Soil Conservation)	Member	Phone No.: +91-9418083812
8.	Prof. O P Monga, (Retired Prof. of Sociology, HPU), Solan, Himachal Pradesh	Non official Expert (Sociology)	Member	Phone No.: +91-94181267609 E-mail: opmonga2001@yahoo.com
9.	Mr. R.K. Sood, Retired Addl. Director, Department of Environment Science and Technology, Shimla	Non-official Expert (Environment)	Member	Phone No.: +91-9418464024 E-mail: ravindermithoo@yahoo.co.in
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