



एसजेवीएन लिमिटेड

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

कार्यालय: मुख्य महाप्रबंधक,
निगमित पर्यावरण विभाग,
शक्ति सदन, शनान,
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टेलीफोन न.: 0177-2660180
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संख्या: SJVN/CHQ/ENV/F-24/ 35

दिनांक: 01/06/2021

सेवा में,

डॉ वाई पी सिंह,
वैज्ञानिक 'ई' आईए - आई,
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
वायु विंग, इंदिरा पर्यावरण भवन, ज़ोर बाग रोड,
नई दिल्ली-110003
Email: yogendra78@nic.in

Sub: Six Monthly Monitoring Report on Compliance to Environmental Aspects (For period October, 2020 - March, 2021) i.r.o Luhri Stage-I HEP (210 MW), Himachal Pradesh.

Ref: Ref: EC letter No. J-12011/18/2015-IA.I(R), March 17, 2020 for Luhri HEP stage -I (210 MW)

Sir,

Your kind attention is invited to above referred endorsement vide which Luhri HEP stage-I (210 MW) of SJVN in District Shimla and Kullu, (Himachal Pradesh) is granted Environment Clearance. As per EIA notification 2006, submission of six monthly compliance report is required to be submitted. Further, as per MoEF&CC notification dated 26.11.2018, half yearly compliance reports are to be submitted in soft copies only.

Therefore, Six Monthly Monitoring Report on compliance to Environmental Aspects (for the period ending March 2021) is submitted for your kind information, please.

संलग्नक: यथोपरि

सधन्यवाद,

भवदीय,
एसजेवीएन लिमिटेड के लिए,

(मुख्य महाप्रबंधक)

प्रतिलिपि (केवल ईमेल के माध्यम से):

- अतिरिक्त प्रधान मुख्य वन संरक्षक (सी), क्षेत्रीय कार्यालय (उत्तर मध्य क्षेत्र), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, 25, सुभाष रोड, देहरादून-248001, Email: moef.ddn@gmail.com
- उप महानिदेशक वन (सी), पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, क्षेत्रीय कार्यालय (NCZ), 25, सुभाष रोड, देहरादून - 248001, ई-मेल: moef.ddn@gov.in
- सदस्य सचिव, हिमाचल प्रदेश प्रदूषण नियंत्रण बोर्ड, हिम परिवेश, बी.सी.अस, नया शिमला-171006, Email: mspcb-hp@nic.in

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पंजीकृत एवं कॉर्पोरेट 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 2020 to 31 March 2021)**

Name of Project	Luhri Stage-I (210 MW)
Type of the Project	Hydroelectric
Location	Shimla and Kullu District
Clearance letter no.	J-12011/18/2015-IA-I(R) dated 17/03/2020.
Period of Compliance:	01/04/2020 to 30/09/ 2020.
Current status of project:	Project is in Construction stage.
Contact Address	
(a) Concerned Project Head	Head of project, Tehsil-Kumarsain, Bitthal, District Shimla, HP, PIN 172029 Contact No. 01782-222615
(b) Concerned Environment Division (Corporate)	Head (Environment), SJVN Corporate Headquarters, Shanan, Shimla, HP, PIN 171006 Contact No. 0177-2660180

Conditions imposed by the Ministry of Environment & Forests, GoI while granting environment clearance vide letter no. J-12011/18/2015-IA-I (R) Pt dated 17.03.2020		
Sr. No.	Conditions	Status
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	Shall be ensured.

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 1st May 2018 regarding Corporate Environment Responsibility Project proponent shall require to invest amount of Rs. 866.5 lakhs towards the Upgradation of Educational Facilities (Rs131.0lakhs), Upgradation of Public Health Centers (Rs85.0lakhs), Solid Waste Segregation and Collection Centre (Rs75lakhs), Sewerage/ drainage line and Septic tanks (Rs165.0 lakhs), Solar Street Lights (Rs 67.5lakhs), Drip Irrigation System (Rs195.0 lakhs), Rain shelters (Rs 48.0 lakhs) and Drinking Water Supply Scheme (Rs 100.0 lakhs). The entire activities under CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half-yearly compliance report and to a District Collector.</p>	<p>Shall be ensured.</p>
iii	<p>Based on the recommendation of Cumulative Impact Assessment and Carrying capacity study of Satluj River Basin or as per the ToR conditions or minimum 15% of the average flow of four consecutive leanest months or as submitted in the EIA/EMP report, whichever ever value is higher, shall be released as environmental flow.</p>	<p>Recommendation CIA & CCS of Satluj River Basin has been adopted for e-flow release.</p>
iv	<p>Necessary permission/ clearance to be obtained for quarrying construction materials for the project as per the EIA Notification, 2006 and subsequent amendments thereof.</p>	<p>Application for Scoping EC has been submitted to SEIA on 19.10.2020, same is in progress.</p>
v	<p>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</p>	<p>Being ensured</p>
vi	<p>Wild life Conservation plan for all Schedules I species shall be implemented with the approval of the Competent Authority.</p>	<p>The Site-Specific Conservation Plan & Wildlife Management Plan has been prepared and submitted on 28.01.2020 and again revised submitted on 12.11.2020. Same is yet to be approved by Chief Wildlife Warden.</p>
vii	<p>Land acquired for the project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provisions of Right to Fair Compensation and Transparency in Land Acquisition,</p>	<p>Being ensured</p>

	Rehabilitation and Resettlement Act, 2013.	
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, as applicable to the project shall be taken.	Being ensured
ANNEXURE-I		
Standard EC Condition for River valley and Hydro Electric Project		
I	Statutory Compliance	
i	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, In case of the diversion of forest land for non-forest purpose involved in the project.	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 and compliance of same is under progress.
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 again revised submitted on 12.11.2020. Same is yet to be approved by Chief Wildlife Warden.
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	The Consent to Establish has been issued by HP State Pollution Control Board on 14.09.2019.

	Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	
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 st 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 Central Electricity Authority had accorded Concurrence on 01.05.2018.
II	Air Quality monitoring and preservation	
i	Regular monitoring of various environmental parameters viz., Water Quality, Ambient Air Quality and Noise levels as per the CPCB guidelines at designated locations shall be carried out on monthly basis and a detailed database of the same shall be prepared and recorded. This shall be used as a base line data for post construction EIA/ Monitoring purposes.	Shall be ensured
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
III	Water quality monitoring and preservation	
i	Before impounding of the water, Coffer dams 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 Coffer dam.	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 both at the	Shall be ensured

	upstream and downstream of the project	
iii	Water depth sensors shall be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharged data in the form of Excel Sheet be submitted to the Regional Office, MoEF&CC and to the CWC on weekly basis.	Shall be ensured
IV	Noise monitoring and prevention	
i	All the equipment likely to generate high noise shall be appropriately enclosed or in built noise enclosures be provided so as to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.	Being ensured
ii	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB (A) during day time and 70dB(A) during night time	Being ensured
V	Catchment area Treatment Plan	
i	Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be implemented in synchronization with the construction of the project.	<ul style="list-style-type: none"> • Total outlay for CAT Plan: Rs. 56.68 crore • An amount of Rs. 56.68 crore had been deposited in Ad-hoc CAMPA on 29.11.2018. • CAT Plan is being implemented and executed by Himachal Pradesh State Forest Department.
VI	Waste Management	
i	Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites are inactive, proper treatment	<ul style="list-style-type: none"> • Due to change in location and area of dumping sites, the amendment in Environment Clearance has been issued by MoEF&CC on 18.03.2021.

	measures like both engineering and biological measures be carried out so that sites are stabilized quickly.	
ii	Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA / EMP reports .Efforts be made to avoid one time use of plastics.	Being ensured
VII	Green Belt, EMP Cost, Fisheries and Wildlife Management	
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"> • Total outlay for Fisheries Management Plan proposed in EIA/EMP report is Rs. 92.00 lakhs. This plan has been revised by HP Fisheries Department from Rs. 92.00 Lakhs to 105.00 lakh due to capacity enhancement of project from 184 MW to 210 MW • Accordingly, an amount of Rs. 105.00 lakhs has been deposited with H. P. Fisheries Department on 12.02.2021. • Fisheries Management Plan is being implemented and executed by Himachal Pradesh Fisheries Department.
ii	Wild life Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department.	The Site-Specific Conservation Plan &Wildlife Management Plan has been prepared and submitted on 28.01.2020 and again revised submitted on 12.11.2020. Same is yet to be approved by Chief Wildlife Warden.
iii	To enrich the habitat of the project site, plantation shall be raised as envisaged in the EIA EMP report. Plantation to be developed along the periphery of the reservoir in multi-layers with local indigenous species in consultation with the local State Forest Department.	Shall be ensured
iv	Compensatory afforestation programme shall be implemented as per the plan approved.	<ul style="list-style-type: none"> • Total outlay for Compensatory afforestation programme in EIA/EMP Report: Rs. 13.03 crore • But it was revised to Rs. 14.61 Crore after Forest Stage-I

		<p>Clearance due to additional 25 % for CA Scheme towards soil and moisture conservation.</p> <ul style="list-style-type: none"> • 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. • Compensatory afforestation programme is being implemented and executed by Himachal Pradesh State Forest Department.
v	Fish ladder/ pass as envisaged in the EIA/EMP report shall be provided for migration of fishes, if any. Regular monitoring of this facility be carried out to ensure its effectiveness.	As per EIA/EMP fish ladder is not envisaged in the project. Beside this stocking of fingerlings by developing fish hatcheries has been proposed.
VIII	Public hearing and Human health issues	
i	Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.	Shall be ensured
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 labour with in the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be 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 Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood fore cast.	Shall be ensured
vii	Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Dam Break Analysis	Shall be ensured
IX	Corporate Environment Responsibility	
i	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/ 2017-IA.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Being ensured
ii	Skill mapping be under taken for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their long time livelihood generation.	Being ensured
iii	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements /deviation/ violation of the environmental /forest/ wildlife norms/ conditions .The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wild life norms / conditions and / or shareholder's / stakeholders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report	The SJVN has a well laid down environmental policy duly approved by the Board of Directors.

iv	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	A separate Environment Cell at the project and company head quarter level with qualified personnel has already been established.
v	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/ Regional Office along with the Six Monthly Compliance Report.	Being ensured
vi	Post EIA and SIA be prepared for the project through a third party and evaluation report be submitted to the Ministry after five years of commissioning of the project.	Shall be ensured
vii	Multi-Disciplinary Committee (MDC) be constituted with experts from Ecology, Forestry, Wildlife, Sociology, Soil 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.	Consent of different committee members/agency/Govt. Deptt. for constitution of Multi-Disciplinary Committee Luhri HEP Stage-I was requested vide letter dated 07.09.2020 . Same is in process.
X	Miscellaneous	
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be	<ul style="list-style-type: none"> • The Environment Clearance conditions and safeguards were advertised in two local news paper ie. Divya Himachal & Amar Ujala on 24.03.2020. • Further, copy of Environment clearance is also displayed at SJVN website www.sjvn.nic.in.

	displayed in the project proponent's website permanently.	
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30days from the date of receipt.	<ul style="list-style-type: none"> • The copies of environment clearance has been submitted to concerned Gram Pradhans, Chairperson BDCs & Chairperson Zila Parishad on 23.03.2020 for their information. • Further, copies of environment clearance has also been sent to concerned Deputy Commissioner, SDM & HP State Pollution Control Board for displaying of same for 30 days for public information on 23.03.2020.
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half- yearly basis.	Being ensured
iv	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Being ensured
v	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the web site of the company.	Being ensured
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"> • Date of Financial closure: It shall be informed (Expected by FY 2025-26). • Financial approval by CCEA: 20.11.2020 • Start of land development work: Work awarded on 24.11.2020 and actual work has been started from March 2021. • Start of production operation: It shall be informed (Expected by April 2026).

vii	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted
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.	Noted
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).	Noted
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 implement these conditions.	Noted
xiii	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data information/ monitoring reports.	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	Noted

	Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.	
xv	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted