



एसजेवीएन लिमिटेड

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

कार्यालय: कार्यकारी निदेशक,
निगमित पर्यावरण विभाग,
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जिला शिमला, हिमाचल प्रदेश - 171006
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संख्या: SJVN/CHQ/ENV/F24/109

दिनांक: 30/11/2021

सेवा में,

Dr. Y.P. Singh

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

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 April, 2021 – September, 2021) is submitted for your kind information, please.

संलग्नक: यथोपरि

30/11/2021

(कार्यकारी निदेशक)

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

**Six Monthly Monitoring Report on Compliance to Environmental Aspects
(For Period April-September, 2021)**

A)	Name of Project	Luhri HEP Stage-I (210 MW)
	Type of Project	Hydroelectric
	Location	Shimla and Kullu Districts, Himachal Pradesh
	Contact Address	
	a) Concerned Project Head	Head of Project, Tehsil-Kumarsain, Bitthal, District Shimla, HP, Shimla – 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, Gol 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	S. No.	Management Plan	Cost in Lakh (INR)	Implementing status
		1	Catchment Area Treatment Plan	5668.34	An amount of Rs. 58.68 crore had been deposited in Ad-hoc CAMPA on 29.11.2018. It is being implemented and executed by Himachal Pradesh State Forest Department.
		2	Muck Management Plan	513.77	Upto September 2021, 2.59 lakh m3 (with 45 % swelling factor) muck has been generated from project construction activities. Out of 2.59 lakh m3 generated muck, 1.42 lakh m3 has been utilized in project job facility platform preparation and 1.17 lakh m3 has been dumped in designated dumping sites.

		3	Compensatory Afforestation and Biodiversity Management Plan	1408.06	The Compensatory Afforestation fund of Rs. 14.61 crore had been deposited in Ad-hoc CAMPA (Cost of CA, NPV, additional CA, contingency charges)/ concerned DFOs (Cost of Departmental charges and cost of trees) on 29.11.2018. It is being implemented and executed by Himachal Pradesh State Forest Department.
		4	Landscaping and Restoration *	80	An amount of Rs. 45.99 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. 29.19 lakh has been used for following activities: 1- Septic tank and soak pit preparation in labour colony = 4.02 lakh, 2- Site septic tank preparation = 1.95 lakh, 3- Water taker (4 no.) = 17.25 lakh, 4- PPE kits for 350 persons = 4.13 lakh, Green nets = 1.80 lakh, awareness camp = 0.04 Lakh
		6	Labour, Energy Conservation Measures and Waste Management Plan	245	An amount of Rs. 0.097 lakh has been used in procurement of dustbins.
		7	Reservoir Rim Treatment and Greenbelt Development Plan	108.63	Shall be ensured.
		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 is under finalization with HP Government.
		11	Public Health Management Plan	185.4	An amount of 3.03 lakh has been incurred in 1 no. ambulance and 5 no. first aid boxes.
		12	Environment Monitoring	147.62	An amount of Rs. 0.18 lakh has been released to HP State Pollution Control Board for air monitoring charges.
		A	Cost of Management Plans	14860.57	
		B	Corporate Environmental Responsibility (CER)	866.5	An amount of 32.7 lakh has been incurred for Drinking water supply scheme to Nirath Panchayat.
			Grand Total (A+B)	15727.07	
		<p>* Apart from mentioned cost, additional cost for the measures to be implemented would be through Contractors engaged in project construction activities</p> <p># Exclusive of private land cost</p>			
ii	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 regarding Corporate Environment	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>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>	
iii	Based on the recommendation of Cumulative Impact Assessment and Carrying	Shall be ensured

	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.	
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.
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 the Competent Authority.	Being ensured. 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 to Chief Wildlife Warden.
vii	Land acquired for the project shall be suitable compensated in accordance with the law of the	Land is being acquired in accordance with the law of the land with the prevailing guidelines.

	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.	
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 Stage-II of Forest Clearance has been accorded on 13.10.2021(Copy enclosed as Annexure-A).
ii	The project proponent shall obtain clearance from the National Board for Wild life, if applicable.	N/A
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	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 to Chief Wildlife Warden.

	area).	
iv	The project proponent shall obtain Consent to Establish/ Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	The Consent to Establish (CTE) has been issued by HP State Pollution Control Board on 14.09.2019. The revised CTE application has been submitted to HPPCB on 17.08.2021 for renewal of consent.
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. Same was submitted to Regional Office, MoEF&CC vide letter dated 11.09.2020.
vi	Necessary approval of CEA shall be obtained as the project cost is more than Rs.1,000 crore.	The CEA had accorded TEC 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	Monitoring reports are enclosed as Annexure-B .

	same shall be prepared and recorded. This shall be used as a base line data for post construction EIA/ Monitoring purposes.	
ii	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed standards.	Being ensured
iii	Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites	Being ensured
III	Water quality monitoring and preservation	
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	Shall be ensured

	Coffer dam.	
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 upstream and downstream of the project	Shall be ensured during operation.
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 during operation stage of project.
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	Being ensured. PPE kits worth Rs. 4.13 lakh have been distributed amongst 350 persons. Monitoring report enclosed as Annexure-B

	Control) Rules, 2000, as amended in 2010 under the Environment Protection Act (EPA), 1986.	
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. Monitoring report enclosed as Annexure-B
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. 58.68 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	<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. • Upto September 2021, 2.59 lakh m3 (with 45 % swelling factor) muck has been generated from project construction activities. Out of 2.59 lakh m3 generated muck, 1.42 lakh m3 has been utilized in project job facility platform preparation and 1.17 lakh m3 has been dumped in designated dumping sites.

	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.	
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	<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.

	budget provision be made and followed strictly.	
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 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 Clearance due to additional 25 % for CA Scheme towards soil and moisture conservation. • 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	A provision of reservoir fishery has been proposed in EIA/EMP report that will be implemented by State Fisheries Department.

	monitoring of this facility be carried out to ensure its effectiveness.	
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.	Draft R&R Scheme is under preparation by Government of Himachal Pradesh.
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	Being ensured

	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.	
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 during operation stage.
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 during operation stage.
IX	Corporate Environment Responsibility	
i	The project proponent shall	Being ensured

	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.	
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	SJVN has a well laid down environmental policy duly approved by the Board of Directors. A copy of the same was submitted to Regional Office vide letter dated 11.09.2020.

	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	
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/	Being ensured

	Regional Office along with the Six Monthly Compliance Report.	
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.	MoEF&CC was requested for constitution of MDC to MoEF&CC vide letter dated 10.06.2021. The same is under process.
X	Miscellaneous	
i	The project proponent shall make public the environmental clearance granted for their project along with the	<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.

	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"> • Further, copy of Environment clearance is also displayed permanently at SJVN website www.sjvn.nic.in.
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. Last six-monthly compliance report was submitted to MoEF&CC on 01.06.2021 and uploaded on company website.
iv	The project proponent shall	Being ensured

	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.	
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. 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"> • Date of Financial closure: It shall be informed (Expected by FY 2025-26). • Financial approval by CCEA: 20.11.2020 (Annexure-C) • 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	Being ensured

	stipulations made by the State Pollution Control Board and the State Government.	
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 ensured.
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.	Shall be ensured.
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	Noted.

	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.
Additional conditions imposed by the Ministry of Environment & Forests, GoI in environment clearance amendment vide letter no. J-12011/18/2015-IA-I (R) Pt dated 18.03.2021		
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	Being ensured

	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	
iii	Necessary consent shall be obtained from District Administration due to proposed change in private land use for dumping of muck.	It has been intimated State Administration i.e. SDM, Rampur & Kumarsain vide letter dated 20.03.2021. (Annexure-D)

9/2021

Annexure - A

Government of India
Ministry of Environment, Forest and Climate Change
(Forest Conservation Division)

Indira Paryavaran Bhawan,
 Jor Bagh Road, Aliganj,
 New Delhi - 1100 03,

Dated: 13th October, 2021

To
The Additional Chief Secretary (Forests),
 Government of Himachal Pradesh,
 Shimla.

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.

Madam/Sir,

I am directed to refer to the Government of Himachal Pradesh's letter No. Ft.48-3920/2019(FCA) dated 18.05.2020 on the above mentioned subject, seeking prior approval of Central Government under Section-2 of the Forest (Conservation) Act, 1980. After careful consideration of the proposal by the Forest Advisory Committee constituted by the Central Government under Section-3 of the said Act, '*in-principle*' /*Stage -I* approval to the proposal was granted vide this Ministry's letter of even number dated 21.12.2020 subject to fulfillment of certain conditions prescribed therein. The State Government has furnished compliance report in respect of the conditions stipulated in the in-principle approval and has requested for final/Stage-II approval.

2. In this connection, I am directed to say that on the basis of the compliance report furnished by the Government of Himachal Pradesh vide their letters No. Ft. 48-3920/2019 (FCA) dated 02.03.2021, 12.08.2021 and 25.09.2021, **final approval (Stage - II)** of the Central Government is hereby granted under Section -2 of the Forest (Conservation) Act, 1980 for non-forestry use of 0.9486 ha (in addition to 98.1004 ha forest area already diverted vide letter No. 8-48/2018-FC dated 28.03.2019) 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, subject to fulfillment of the following conditions:

A: Conditions which need to be complied prior to handing over of forest land to user agency by the State Govt.:

- i. The State Government shall ensure that the User Agency 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.
- ii. The State government 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.
- iii. The State Govt. shall ensure the complete compliance on FRA, 2006; It should also be

- ensured that the FRA certificate issued by District collector is complete with letter number, date, name, signature and official seal, as required in the certificate;
- iv. 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;
 - v. The State Govt. shall ensure that the boundary of the diverted forest land, shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, distance from pillar to pillar and GPS co-ordinates; and
 - 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 handing over of forest land to the user agency by the State Govt.:

- i Legal status of the forest land shall remain unchanged;
- ii The State Government shall ensure that the minimum number of trees/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 regulating signage will be erected along the road at regular intervals in the Protected Areas/ Forest 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 alternate 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 that 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 State Govt. shall ensure that the Compliance report of this approval is uploaded on e-portal (<https://parivesh.nic.in/>);
- xviii 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 this 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 State Government and user agency; and
- xx The State Government 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 the 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;

Yours Sincerely

Sd-

(Suneet Bhardwaj)

Assistant Inspector General of Forests

Copy to: -

1. Principal Chief Conservator of Forests & HoFF, Department of Forest, Government of Himachal Pradesh, Shimla.
2. Regional Officer, Integrated Regional Office, Shimla.
3. Nodal Officer, Forest Department, (FCA), Government of Himachal Pradesh, Shimla.
4. User Agency.
5. Monitoring Cell, FC Division, MoEF & CC, New Delhi, for uploading.

Signed by Suneet Bha
Date: 14-10-2021 10:0
Reason: Approved



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

Test Report					
Lab Code.	EL260921AA01				
Site Location	Borewell, Block No.10, Rampur HPS township, New Nirsu				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1				
Issued to	LHEP-I, Environment Department (On October 11, 2021)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	September 25, 2021				
Date of Receipt	September 26, 2021				
Date of Test/Analysis	September 27, 2021				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition - Slightly windy 3) Traffic flow –Low 4) Construction work – No work.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	17.46	100	Gravimetric
2	PM _{2.5}	µg/m ³	8.64	60	Gravimetric

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Test Report					
Lab Code.	EL260921AA02				
Site Location	At Old PIC-Rampur HPS, Bayal Village				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1				
Issued to	LHEP-I, Environment Department (On October 11, 2021)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	September 25, 2021				
Date of Receipt	September 26, 2021				
Date of Test/Analysis	September 27, 2021				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition - Slightly windy 3) Traffic flow – Low 4) Construction work – No work.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	12.76	100	Gravimetric
2	PM _{2.5}	µg/m ³	12.59	60	Gravimetric

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Test Report					
Lab Code.	EL290921AA01				
Site Location	Panchayat Ghar, Nirath Village				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1				
Issued to	LHEP-I, Environment Department (On October 11, 2021)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	September 28, 2021				
Date of Receipt	September 29, 2021				
Date of Test/Analysis	September 30, 2021				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition - Slightly windy 3) Traffic flow – Low 4) Construction work – Nearest construction activity observed at Dam site, LHEP-1				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	28.25	100	Gravimetric
2	PM _{2.5}	µg/m ³	18.66	60	Gravimetric

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Test Report					
Lab Code.	EL290921AA02				
Site Location	LHEP-I Dam Site, Nirath				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1				
Issued to	LHEP-I, Environment Department (On October 11, 2021)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	September 28, 2021				
Date of Receipt	September 29, 2021				
Date of Test/Analysis	September 30, 2021				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition - Slightly windy 3) Traffic flow – Heavy and light vehicle on NH5 4) Construction work – LHEP-I Dam Site construction activity in progress.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	68.21	100	Gravimetric
2	PM _{2.5}	µg/m ³	16.21	60	Gravimetric

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Test Report					
Lab Code.	EL300921AA01				
Site Location	At LHEP-I Office, Bithal Village				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1				
Issued to	LHEP-I, Environment Department (On October 11, 2021)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	September 29, 2021				
Date of Receipt	September 30, 2021				
Date of Test/Analysis	October 01, 2021				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition - Slightly windy 3) Traffic flow – Vehicle movement on NH5 4) Construction work – Multiple construction activities in 1km radius				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	37.61	100	Gravimetric
2	PM _{2.5}	µg/m ³	65.95	60	Gravimetric

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Test Report					
Lab Code.		EL300921AA02			
Site Location		Moin Village			
Reference No.		SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1			
Issued to		LHEP-I, Environment Department (On October 11, 2021)			
Mode of Collection of Sample		From Site by SJVNL Environment Laboratory			
Type of Sample		Air Sample			
Quantity of Sample		24 hours			
Date of Sampling		September 29, 2021			
Date of Receipt		September 30, 2021			
Date of Test/Analysis		October 01, 2021			
Remarks and Observation		1) Weather condition – Sunny & Dry 2) Wind condition - Slightly windy 3) Traffic flow – No 4) Construction work – Private Crusher running; nearest major activity observed at LHEP-1 Dam site			
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	50.15	100	Gravimetric
2	PM _{2.5}	µg/m ³	32.32	60	Gravimetric

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Test Report					
Lab Code.	EL011021AA01				
Site Location	Naula Village, Samanthla Panchayat				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1				
Issued to	LHEP-I, Environment Department (On October 11, 2021)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	September 30, 2021				
Date of Receipt	October 01, 2021				
Date of Test/Analysis	October 04, 2021				
Remarks and Observation	1) Weather condition – Sunny & Dry 2) Wind condition - Slightly windy 3) Traffic flow – No 4) Construction work – Nearest major activity observed at Dam Site, LHEP-1				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	26.52	100	Gravimetric
2	PM _{2.5}	µg/m ³	17.61	60	Gravimetric

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Test Report					
Lab Code.	EL051021AA01				
Site Location	Koyal Village				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1				
Issued to	LHEP-I, Environment Department (On October 11, 2021)				
Mode of Collection of Sample	From Site by SJVNL Environment Laboratory				
Type of Sample	Air Sample				
Quantity of Sample	24 hours				
Date of Sampling	October 04 , 2021				
Date of Receipt	October 05, 2021				
Date of Test/Analysis	October 06, 2021				
Remarks and Observation	1) Weather condition – Cloudy & Sunny 2) Wind condition - Slightly windy 3) Traffic flow – Low traffic flow 4) Construction work – No work.				
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	51.05	100	Gravimetric
2	PM _{2.5}	µg/m ³	33.75	60	Gravimetric

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Test Report					
Lab Code.		EL051021AA02			
Site Location		Aanas Village			
Reference No.		SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP Of LHEP -1			
Issued to		LHEP-I, Environment Department (On October 11, 2021)			
Mode of Collection of Sample		From Site by SJVNL Environment Laboratory			
Type of Sample		Air Sample			
Quantity of Sample		24 hours			
Date of Sampling		October 04 , 2021			
Date of Receipt		October 05, 2021			
Date of Test/Analysis		October 06, 2021			
Remarks and Observation		1) Weather condition – Cloudy & Sunny 2) Wind condition - Slightly windy 3) Traffic flow – Low 4) Construction work – Nearest construction activity at LHEP-I Dam site			
SN	Test Parameter	Units	Results	Permissible Limit (As per NAAQS, 2009)	Test Methods
1	PM ₁₀	µg/m ³	35.49	100	Gravimetric
2	PM _{2.5}	µg/m ³	27.58	60	Gravimetric

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Test Report			
Lab Code.	EL280921AN01		
Site Location	Nirath Bus Stop/NH-5		
Reference No.	EMP of LHEP Stage-I		
Issued to	Environment Department, LHEP Stage-I (On October 11, 2021)		
Mode of Sampling	Sound Level Meter		
Date of Sampling	September 28, 2021		
Date of Receipt of Data	September 28, 2021		
Remarks and Observation	<ul style="list-style-type: none">• NH5 with high traffic.• Market open.• Anthropogenic activities observed in nearby habitations.		
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Commercial (Day time)
1	SPL	65	-
2	Leq	69	65
3	Lmax	94.5	-
4	Lmin	64.3	-
5	SEL	102.1	-

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Test Report

Lab Code.	EL280921AN02
Site Location	Plant Mixture, Nirath
Reference No.	EMP of LHEP Stage-I
Issued to	Environment Department, LHEP Stage-I(On October 11, 2021)
Mode of Sampling	Sound Level Meter
Date of Sampling	September 28, 2021
Date of Receipt of Data	September 28, 2021

Remarks and Observation	<ul style="list-style-type: none">NH5 in vicinity with high traffic.Project construction activities ongoing.Plant Mixture in closed.
-------------------------	--

S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Industrial (Day time)
1.	SPL	67.8	-
2.	Leq	61.8	75
3.	Lmax	67.0	-
4.	Lmin	52.6	-
5.	SEL	87.7	-

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Test Report			
Lab Code.	EL280921AN03		
Site Location	Nither Market area		
Reference No.	EMP of LHEP Stage-I		
Issued to	Environment Department, LHEP Stage-I(On October 11, 2021)		
Mode of Sampling	Sound Level Meter		
Date of Sampling	September 28, 2021		
Date of Receipt of Data	September 28, 2021		
Remarks and Observation	<ul style="list-style-type: none">• Market open.• Anthropogenic activities observed in nearby habitations.		
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Commercial (Day time)
1.	SPL	61.8	-
2.	Leq	63.5	65
3.	Lmax	73.6	-
4.	Lmin	53.6	-
5.	SEL	96.4	-

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Test Report			
Lab Code.	EL300921AN01		
Site Location	Dam Site/DT, Nirath		
Reference No.	EMP of LHEP Stage-I		
Issued to	Environment Department, LHEP Stage-I (On October 11, 2021)		
Mode of Sampling	Sound Level Meter		
Date of Sampling	September 30, 2021		
Date of Receipt of Data	September 30, 2021		
Remarks and Observation	<ul style="list-style-type: none">NH5 in vicinity with high traffic.Project construction activities ongoing.		
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Industrial (Day time)
1.	SPL	77.5	-
2.	Leq	76.5	75
3.	L _{max}	83.5	-
4.	L _{min}	72.6	-
5.	SEL	104.6	-

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Test Report

Lab Code.	EL300921AN02		
Site Location	Dumping Area, Behra Khad		
Reference No.	EMP of LHEP Stage-I		
Issued to	Environment Department, LHEP Stage-I (On October 11, 2021)		
Mode of Sampling	Sound Level Meter		
Date of Sampling	September 30, 2021		
Date of Receipt of Data	September 30, 2021		
Remarks and Observation	<ul style="list-style-type: none">NH5 in vicinity with high traffic.No dumping activity observed.		
S. No.	Parameters	Result (in dB)	AAQS-Noise Noise Limits in dB(A) as Leq Industrial (Day time)
1	SPL	74.6	-
2	Leq	75.8	75
3	L _{max}	69.4	-
4	L _{min}	61.4	-
5	SEL	94.3	-

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Test Report					
Lab Code.	EL280921R01				
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 October 11, 2021)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	River Water				
Quantity of Sample	1litre				
Date of Sampling	September 28, 2021				
Date of Receipt	September 28, 2021				
Date of Test/Analysis	October 01, 2021				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Permissible Limit (As per IS2296) For E Class	Test Methods
1.	pH	-	7.62	6.0-8.5	pH meter
2.	Temperature	°C	25.1	-	Thermo-sensor
3.	Conductivity	µS/cm	258	2250	Conductivity meter
4.	Turbidity	NTU	80.7	-	Turbidity meter
5.	TDS	mg/l	147	2100	Gravimetric
6.	TSS	mg/l	210	-	Gravimetric
7.	Total Solids	mg/l	357	-	Gravimetric
8.	DO	mg/l	7.56	-	DO meter

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Test Report					
Lab Code.	EL280921R02				
Site Location	At Proposed LHEP-I Dam Site, Nirath				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on October 11, 2021)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	River Water				
Quantity of Sample	1litre				
Date of Sampling	September 28, 2021				
Date of Receipt	September 28, 2021				
Date of Test/Analysis	October 01, 2021				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Permissible Limit (As per IS2296) For E Class	Test Methods
1.	pH	-	8.02	6.0-8.5	pH meter
2.	Temperature	°C	25.1	-	Thermo-sensor
3.	Conductivity	µS/cm	264	2250	Conductivity meter
4.	Turbidity	NTU	69.7	-	Turbidity meter
5.	TDS	mg/l	173	2100	Gravimetric
6.	TSS	mg/l	94	-	Gravimetric
7.	Total Solids	mg/l	267	-	Gravimetric
8.	DO	mg/l	8.12	-	DO meter

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Test Report					
Lab Code.	EL280921R03				
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 October 11, 2021)				
Mode of Collection of Sample	From Site by SJVN Environment Laboratory				
Type of Sample	River Water				
Quantity of Sample	1litre				
Date of Sampling	September 28, 2021				
Date of Receipt	September 28, 2021				
Date of Test/Analysis	October 01, 2021				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Permissible Limit (As per IS2296) For E Class	Test Methods
1.	pH	-	8.06	6.0-8.5	pH meter
2.	Temperature	°C	25.3	-	Thermo-sensor
3.	Conductivity	µS/cm	263	2250	Conductivity meter
4.	Turbidity	NTU	78.2	-	Turbidity meter
5.	TDS	mg/l	149	2100	Gravimetric
6.	TSS	mg/l	106	-	Gravimetric
7.	Total Solids	mg/l	255	-	Gravimetric
8.	DO	mg/l	7.76	-	DO meter

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Test Report

Lab Code.	E280921D01				
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 October 11, 2021)				
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	September 28, 2021				
Date of Receipt	September 28, 2021				
Date of Test/Analysis	October 01, 2021				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	7.47	6.5-8.5	pH meter
2.	Temperature	°C	24.9	-	Thermo-sensor
3.	Conductivity	µS/cm	799	-	Conductivity
4.	Turbidity	NTU	0.275	1	Turbidity meter
5.	TDS	mg/l	204	500	Gravimetric
6.	TSS	mg/l	381	-	Gravimetric
7.	Total Solids	mg/l	585	-	Gravimetric
8.	DO	mg/l	6.07	-	DO meter

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

Test Report

Lab Code.	E280921D02				
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 October 11, 2021)				
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	September 28, 2021				
Date of Receipt	September 28, 2021				
Date of Test/Analysis	October 01, 2021				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	7.04	6.5-8.5	pH meter
2.	Temperature	°C	25.1	-	Thermo-sensor
3.	Conductivity	µS/cm	1322	-	Conductivity
4.	Turbidity	NTU	12.2	1	Turbidity meter
5.	TDS	mg/l	828	500	Gravimetric
6.	TSS	mg/l	122	-	Gravimetric
7.	Total Solids	mg/l	950	-	Gravimetric
8.	DO	mg/l	5.83	-	DO meter

NOTE:

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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



Test Report

Lab Code.	E280921D03				
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 October 11, 2021)				
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	September 28, 2021				
Date of Receipt	September 28, 2021				
Date of Test/Analysis	October 01, 2021				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	7.65	6.5-8.5	pH meter
2.	Temperature	°C	25.4	-	Thermo-sensor
3.	Conductivity	µS/cm	736	-	Conductivity
4.	Turbidity	NTU	1.77	1	Turbidity meter
5.	TDS	mg/l	459	500	Gravimetric
6.	TSS	mg/l	37	-	Gravimetric
7.	Total Solids	mg/l	496	-	Gravimetric
8.	DO	mg/l	7.20	-	DO meter

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

Test Report					
Lab Code.		E280921D04			
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 October 11, 2021)			
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		September 28, 2021			
Date of Receipt		September 28, 2021			
Date of Test/Analysis		October 01, 2021			
Remarks and Observation		-			
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	7.46	6.5-8.5	pH meter
2.	Temperature	°C	25.2	-	Thermo-sensor
3.	Conductivity	µS/cm	155.3	-	Conductivity
4.	Turbidity	NTU	0.333	1	Turbidity meter
5.	TDS	mg/l	92	500	Gravimetric
6.	TSS	mg/l	20	-	Gravimetric
7.	Total Solids	mg/l	112	-	Gravimetric
8.	DO	mg/l	5.56	-	DO meter

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



Test Report					
Lab Code.		E280921D05			
Site Location		Natural Spring, Source Near Shakroli (Bawadi)			
Reference No.		SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP of LHEP-I			
Issued to		Environment Department, LHEP-I (on October 11, 2021)			
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		September 28, 2021			
Date of Receipt		September 28, 2021			
Date of Test/Analysis		October 01, 2021			
Remarks and Observation		-			
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	7.06	6.5-8.5	pH meter
2.	Temperature	°C	25.1	-	Thermo-sensor
3.	Conductivity	µS/cm	468	-	Conductivity
4.	Turbidity	NTU	0.203	1	Turbidity meter
5.	TDS	mg/l	245	500	Gravimetric
6.	TSS	mg/l	27	-	Gravimetric
7.	Total Solids	mg/l	272	-	Gravimetric
8.	DO	mg/l	4.34	-	DO meter

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

Test Report					
Lab Code.	E280921D06				
Site Location	Hand Pump, Nither				
Reference No.	SJVN/LHEP/ENV/2021-1235-36;02.03.2021/EMP of LHEP-I				
Issued to	Environment Department, LHEP-I (on October 11, 2021)				
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	September 28, 2021				
Date of Receipt	September 28, 2021				
Date of Test/Analysis	October 01, 2021				
Remarks and Observation	-				
SN	Test Parameter	Units	Results	Acceptable Limit (As per IS10500:2012)	Test Methods
1.	pH	-	7.21	6.5-8.5	pH meter
2.	Temperature	°C	25.2	-	Thermo-sensor
3.	Conductivity	µS/cm	356	-	Conductivity
4.	Turbidity	NTU	3.22	1	Turbidity meter
5.	TDS	mg/l	207	500	Gravimetric
6.	TSS	mg/l	23	-	Gravimetric
7.	Total Solids	mg/l	230	-	Gravimetric
8.	DO	mg/l	4.31	-	DO meter

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F. No. 28/08/2016-H-II
 Government of India / Bharat Sarkar
 Ministry of Power / Vidyut Mantralay
 Shram Shakti Bhawan, Rafi Marg
 New Delhi - 110001; Tel: 011-23705841

Dated: 20th November, 2020

The Chairman & Managing Director, SJVN Ltd.,
 Corporate Office, Shakti Sadan, Shanar, Shimla (HP) - 171006

Subject: Investment approval for implementation of 210 MW Luhri Hydroelectric Project (Stage-I) in the State of Himachal Pradesh by SJVN Ltd. – regarding.

I am directed to convey the approval of the President of India for investment for an estimated cost of Rs. 1810.56 crore including project cost of Rs. 1744.37 crore (May 2020 P1) and Rs. 66.19 crore as budgetary support from Government of India for enabling infrastructure in respect of 210 MW Luhri Hydroelectric Project (Stage-I) in the State of Himachal Pradesh. The project cost of Rs. 1744.37 crore for Luhri HEP Stage-I includes Interest During Construction & Financing Charges of Rs. 247.08 crore and Rs. 8.98 crore respectively. Total approved cost also includes the ex-post facto approval for cumulative expenditure incurred on pre-construction activities amounting to Rs. 198.03 crore till 31.05.2020. The detailed break-up of the total approved project cost is enclosed at Annex.

2. The above investment approval shall be subject to the following conditions:-

1. All possible measures of efficiency and conservancy are required to be taken to ensure that the project is completed within the scheduled period of 62 months from date of issuance of this sanction order and does not run into time and cost overrun.
2. The MoP guidelines dated 08.11.2019 regarding mitigating the cost and time overrun shall be complied with strictly in order to avoid any possible delay in the commissioning of the project.
3. PPA should be signed with the beneficiary States / DISCOMS in advance prior to the commissioning of the project.
4. Efforts shall be made to reduce the establishment cost, as agreed during the TIB meeting.
5. SJVN shall submit quarterly report to the Ministry of Power indicating financial and physical progress of implementation of the project.

3. The funding pattern of the project shall be as follows:-

1. Equity from internal resources	Rs. 348.87 Crore
2. Debt from domestic financial institutions and banks	Rs. 1395.50 Crore
Total	Rs. 1744.37 Crore
3. Budgetary Support from Govt for Enabling Infrastructure	Rs. 66.19 Crore
Grand Total	Rs. 1810.56 Crore

F. No. 23/7/2013-H-II

4. This issues with the concurrence of Integrated Finance Wing of Ministry of Power vide their Diary No. 194/Fin/2020 dated 19.11.2020.

Encl: as above.

Yours faithfully,

(R. P. Pradhan)
Director

Copy to:

1. Controller of Accounts, Ministry of Power, Sewa Bhawan, R. K. Puram, New Delhi.
2. Principal Pay & Accounts Officer, Ministry of Power, New Delhi.
3. Principal Director of Audit (Commercial) and Member Audit Board - II, New Delhi
4. Principal Director of Audit (Economic & Social Services), AGCR Building, New Delhi.
5. The Chairperson, Central Electricity Authority, Sewa Bhawan, R. K. Puram, New Delhi.
6. Department of Expenditure, PFC-I, North Block, New Delhi.
7. Adviser (Energy), NITI Aayog, NITI Aayog Bhawan, New Delhi.
8. Ministry of Statistics & Programme Implementation, New Delhi.
9. Department of Economic Affairs, North Block, New Delhi.
10. PS to Minister of State (IC) for Power & NRE
11. Sr. PPS to Secretary (Power) / PPS to AS (SKG) / PPS to AS&FA / PPS to JS(H) / PS to DS(H-II)
12. Finance Branch / Budget Division, MoP

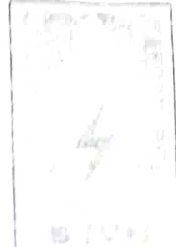
एसजेवीएन लिमिटेड

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-1
Luhri Hydro Power Project -1

Amendment-D



ENVIRONMENT DEPARTMENT

No. SJVN Luhri-1/Env/EC/Compliance/2021-1267

Dated: 20/03/21

To

The Sub Divisional Magistrate
Kumarsain, Distt. Shimla

Subject: - Luhri HEP Stage-I (210 MW) Project in Shimla District of Himachal Pradesh by
M/s SJVN Ltd - Amendment in Environmental Clearance (EC)-reg.

Sir,

The Luhri HEP Stage-I scheme with an installed capacity of 210 MW is proposed to be taken up for implementation at Nirath, district Shimla (HP). This scheme falls in district Shimla and Kullu of Himachal Pradesh. The project envisages construction of a 80 m high concrete gravity dam at Nirath with toe Power House on right bank. The two dumping sites were proposed in Samathala Panchayat of Shimla district.

In this context, it is informed that Rewali villagers of Samathala Panchayat refused to give their land on offered cost where originally dumping was proposed. Some villagers offered their land on lease basis for dumping of muck. Therefore, on the basis of above circumstances, location and area for dumping has been revised.

Accordingly, revised dumping detail has been submitted to MoEF&CC on 20.01.2021 for amendment in Environment Clearance (EC) already accorded on 17.03.2020 and the same was considered and agreed by Expert Appraisal Committee (EAC) on 05.02.2021 and recommended the proposal. Now, MoEF&CC vide letter no. F. No. J-12011/18/2015-1A-1 (R) Pt dated 18.03.2021 has issued formal Amendment in Environment Clearance (Copy enclosed).

As per Environment Clearance Amendment issued by MoEF&CC with additional Condition No (iii) "Necessary consent shall be obtained from District Administration due to

P.T.O.

परियोजना कार्यालय: गाँव बिथाल, डीओ शमथाला,
जिला कुमायूँ, उत्तरांचल प्रदेश-172030
दूरभाष 01782-221807, Fax No.: 01782-222277 www.sjvn.nic.in
कार्यालय मुख्यालय: शक्ति सदन शमथाला,
जिला कुमायूँ, उत्तरांचल प्रदेश

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

अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

proposed change in private land use for dumping of muck".

Therefore, the same is submitted for your kind consideration please

With Regards,

Yours faithfully


22/5/24

Sr. AGM (Environment)
Luhri H.P. Stage I, Bithal
Distt. Shimla-172030 (H.P.)

DA As above

एसजेवीएन लिमिटेड

SJVN Limited

(A joint venture of Govt. of India & Govt. of Himachal Pradesh)

A "Mini Ratna" & Schedule 'A' PSU

CIN : CIN-LA0191HP1303G01002409

लुहरी हाईड्रो पावर प्रोजेक्ट-1

Luhri Hydro Power Project -1

HUMAN RESOURCE DEPARTMENT

No. SJVN Luhri HEP-1 2651

दिनांक: 20.03.2021

सेवा में

✓ श्रीमान उप-मण्डलाधिकारी (न०)

रामपुर बुधौहर जिला शिमला (हि०प्र०)

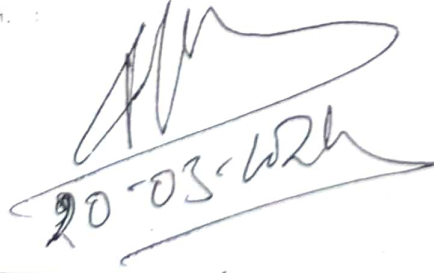
विषय: Regarding use of land for dumping without acquisition by SJVN.

महोदय

आपके कार्यालय पत्र संख्या आर०एम०पी०रीडर/2019-4490 दिनांक 11.09.2019 के संबंध में हे जिला में खानवासी दत्तनगर ने अपनी खाली व बंजर पड़ी जमीन को स्वेच्छा से बिना किसी कीमत लिए जमीन डंपिंग हेतु लुहरी जल विद्युत परियोजना का देना चाह रहे थे और उस जमीन की डंपिंग के उपयोगिता की प्रस्तावित जमीन आई थी।

इस संबंध में आपको सूचित किया जाता है कि उपरोक्त जमीन डंपिंग के लिए उपयुक्त है तथा इसकी विस्तृत रिपोर्ट अनुलग्नक पर दी जा रही है। इन डंपिंग साईट की वजह से पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार को पर्यावरण मंजूरी में संशोधन के लिए अनुरोध किया गया था। जिसे पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार ने 5 फरवरी 2021 को मंजूर कर लिया और 18 मार्च 2021 संशोधित पर्यावरण मंजूरी प्रदान कर दी। संशोधित पर्यावरण मंजूरी की अतिरिक्त शर्त संख्या (III) "Necessary consent should be obtained from District Administration due to proposed change in private land use for dumping of truck" के अनुसार प्रस्तुत है।

उत्तर:





वरिष्ठ अतिरिक्त महाप्रबंधक (न०/स०)

लुहरी जल विद्युत परियोजना धरण-1

विधल, डा० शमाथला तहसिल कुमरसैन जिला

शिमला हिमाचल प्रदेश

परियोजना कार्यालय: P.O. Behal, डा० शमाथला,

जिला कुमरसैन, जिला शिमला-172030

दूरभाष: 01782-221807, Fax No. 01782-222277 www.sjvn.nic.in

लुहरी बुध्यालय, जिला कुमरसैन,

जिला शिमला-172030

Project office : Village Behal, P.O. Shamatthala

Tehsil Kumarsain, Dist. Shimla-172030

Tele: 01782-221807, Fax No. 01782-222277, www.sjvn.nic.in

Corporate H.Q. : Noida, Uttar Pradesh

Shimla-172030

अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

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