



एसजेवीएन लिमिटेड

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

कार्यालय:

कार्यकारी निर्देशक,
निगमित पर्यावरण विभाग,
शक्ति सदन, शानान,
जिला शिमला, हिमाचल प्रदेश -171006
टेलीफोनन.: 0177-2660180
ईमेल: sjvn.ced@sjvn.nic.in
sjvnenv@gmail.com

संख्या: SJVN/CHQ/ENV/F24/2022-127

दिनांक: 30/11/2022

To

Member Secretary,
River Valley and Hydroelectric Project,
MoEF&CC, Govt. of India,
Indira Paryavaran Bhavan, Jor Bagh,
New Delhi-110003
Email: yogendra78@nic.in

Subject: Six Monthly Monitoring Report on Compliance to Environmental Aspects (For period April, 2022 - September, 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 April, 2022-September, 2022) is submitted for your kind information, please.

संलग्नक: यथोपरि।

सधन्यवाद,

भवदीय,
एसजेवीएन लिमिटेड के लिए,


हुते (कार्यकारी निर्देशक)

प्रतिलिपि केवल ईमेल के माध्यम से:

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

Six Monthly Compliance Report of 210 MW Luhri HEP Stage-I (SJVN Limited)
Submitted to Ministry of Environment & Forests (GoI)
(01 April 2022 to 30 September 2022)

A)	Name of Project	Luhri Stage-I Hydroelectric Project (210 MW)
	Type of Project	Hydropower
	Location	Districts Kullu and Shimla
	EC Letter no.	J-12011/18/2015-IA-I (R) Pt dated 17.03.2020
	Contact Address	
	a) Concerned Project Head	Head of Project, Luhri Stage-I HEP, SJVN Ltd., Bithal, PO Shamathala, Tehsil Kumarsain, District Shimla, Himachal Pradesh-172030, Contact No. 01782-2222615
	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

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 2022, 8.56 lakh m ³ (with 45 % swelling factor) muck has been generated from project construction activities. Out of 8.56 lakh m ³ generated muck, 3.07 lakh m ³ has been utilized for construction of dyke, job facility platform, temporary roads etc. and 5.49 lakh m ³ has been dumped in designated dumping sites. An amount of Rs. 7.18 lakh has incurred in protection of dumping site.
3	Compensatory Afforestation and Biodiversity Management Plan	1408.06	The Compensatory Afforestation fund of Rs. 14.61 crore had been deposited in Ad-hoc CAMPA (Cost of CA, NPV, additional CA, contingency charges)/ concerned DFOs (Cost of Departmental charges and cost of trees) on 29.11.2018. It is being implemented and executed by Himachal Pradesh State Forest Department.
4	Landscaping and Restoration	80	An amount of Rs. 66.24 lakh has been used in protection works at site, staff camp, crusher site and labour colony.

5	Management plan for Air, Water and Noise Environment	25	An amount of Rs. 77.88 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	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 has been approved by concerned Divisional commissioner on 04.06.2022 and 04.01.2022 for Shimla and Kullu districts respectively and R&R amount deposited in the account of Land acquisition Officer for further disbursement to beneficiaries of district Shimla and Kullu.
11	Public Health Management Plan	185.4	An amount of Rs. 8.87 lakh has been incurred in ambulance, first aid boxes, medicines etc.

	<p>12 Environment Monitoring</p> <p>147.62</p> <p>An amount of Rs. 26.67 lakh has been released to HP State Pollution Control Board for monitoring charges/plan. Further, an amount of Rs. 7.58 lakh has been used in Environment Lab, Jhakri regarding purchase of chemicals and other consumables etc. for analysis of various ambient air and water quality parameters.</p>	
A	<p>Cost of Management Plans</p> <p>14860.57</p>	
B	<p>Corporate Environmental Responsibility (CER)</p> <p>866.5</p>	<p>An amount of Rs. 80.43 lakh has been incurred for Drinking water supply scheme to Nirath Panchayat.</p>
	<p>Grand Total (A+B)</p> <p>15727.07</p>	
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</p>	<p>Rs. 80.43 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>

	<p>(Rs75laks), Sewerage/ drainage line and Septic tanks (R s165.0 laks), Solar Street Lights (Rs 67.5laks), Drip Irrigation System (Rs195.0 laks), Rain shelters (Rs 48.0 laks) and Drinking Water Supply Scheme (Rs 100.0 laks). The entire activities under CER shall be treated as project and shall be monitored. The monitoring report shall be submitted to the regional office as a part of half-yearly compliance report and to a District Collector.</p>	
iii	<p>Based on the recommendation of Cumulative Impact Assessment and Carrying capacity study of Satluj River Basin or as per the ToR conditions or minimum 15% of the average flow of four consecutive leanest months or as submitted in the EIA/EMP report, which ever value is higher, shall be released as environmental flow.</p>	<p>Shall be ensured</p>
iv	<p>Necessary permission/ clearance to be obtained for quarrying construction materials for the</p>	<p>The Environment clearance for Moin and Koel Quarry sites have been issued by State Level Environment Impact Assessment Authority Himachal Pradesh on 03.07.2021 & 15.07.2021 respectively.</p>

	project as per the EIA Notification, 2006 and subsequent amendments thereof.	
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
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	Shall be ensured

	commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.	
x	Any other clearances /permissions/ approvals from any other organization/ department, as applicable to the project shall be taken.	Being ensured
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, 1981, In case of the diversion of forest land for non-forest purpose involved in the project.	Forest Stage-II clearance for 98.1004 ha of forest land has been accorded by MoEF&CC on 28.03.2019. Further, additional forest land i.e. 0.9486 ha for Moin Quarry road's Forest Stage-I clearance accorded by MoEF&CC on 21.12.2020. The stage-II of Forest Clearance has been accorded on 13.10.2021 and office order from HP Government has been issued on 03.01.2022.
ii	The project proponent shall obtain clearance from the National Board for Wild life, if applicable.	NA
iii	The project proponent shall	The Site-Specific Conservation Plan & Wildlife Management Plan has been prepared and submitted to

	<p>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).</p>	<p>Chief Wildlife Warden, Himachal Pradesh on 28.01.2020 and as per their suggestion/observation revised plan submitted on 12.11.2020. Further, it has been requested to Chief Wildlife Warden, Himachal Pradesh for approval and implementation of same on 25.10.2021 & 30.09.2022.</p>
iv	<p>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.</p>	<p>The Consent to Establish (CTE) has been issued by HP State Pollution Control Board on 14.09.2019. The revised renewal of CTE dated 01.07.2022 is valid upto 31.03.2023 (Copy enclosed as Annexure-A).</p>
v	<p>NOC shall be obtained from National Commission of Seismic Design Parameters (NCSDS) of CWC.</p>	<p>The NCSDP had approved the site specific design earthquake parameters report in its 31st meeting held on 23.06.2016 and formal letter for approval issued by CWC on 07.10.2016.</p>

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.
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.	Monitoring reports are enclosed as Annexure-B.
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	<p>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.</p>	<p>Shall be ensured</p>
ii	<p>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</p>	<p>Shall be ensured</p>
iii	<p>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 Discharge data in the form of Excel Sheet be submitted to the Regional Office, MoEF&CC and to the CWC on weekly basis.</p>	<p>Shall be ensured</p>

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/EMPR 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	<p>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.</p>	<p>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 2022, 8.56 lakh m³ (with 45 % swelling factor) muck has been generated from project construction activities. Out of 8.56 lakh m³ generated muck, 3.07 lakh m³ has been utilized for construction of dyke, job facility platform, temporary roads etc. and 5.49 lakh m³ has been dumped in designated dumping sites. An amount of Rs. 7.18 lakh has incurred in protection of dumping site.</p>
ii	<p>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.</p>	<p>Being ensured</p>
VII	Green Belt, EMP Cost, Fisheries and Wildlife Management	
i	<p>Detailed information on species composition particular to fish</p>	<p>An amount of Rs. 105.00 lakhs has been deposited with H. P. Fisheries Department on 12.02.2021.</p>

	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"> • Fisheries Management Plan is being implemented and executed by Himachal Pradesh Fisheries Department. • An amount of Rs. 30.0 lakh has been utilized by HP Fisheries Department for construction of fish landing center in Kol dam reservoir at Sunni, Shimla (Copy enclosed as Annexure-C).
ii	Wildlife Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department.	Shall be ensured
iii	To enrich the habitat of the project 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.

		<ul style="list-style-type: none"> Compensatory afforestation programme is being implemented and executed by Himachal Pradesh State Forest Department.
v	<p>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.</p>	<p>Reservoir fishery has been proposed in EIA/EMP report.</p>
VIII	Public hearing and Human health issues	
i	<p>Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.</p>	<p>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.</p> <p>R&R plan has been approved by concerned Divisional commissioner on 04.06.2022 and 04.01.2022 for Shimla and Kullu districts respectively.</p> <p>Further, R&R amount has been deposited in the account of Land acquisition Officer for further disbursement to beneficiaries of district Shimla and Kullu.</p>
ii	<p>Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in toto.</p>	<p>Being ensured</p>

iii	<p>Preventive measures viz. fumming 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.</p>	Being ensured
iv	<p>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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	Being ensured
v	<p>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</p>	Workers are issued work permit by the contractors only after medical fitness certificate.
vi	<p>Early Warning Telemetric system</p>	Shall be ensured

	shall be installed in the upper catchment area of the project for advance intimation of flood forecast.	
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	The SJVN has a well laid down environmental policy duly approved by the Board of Directors

	<p>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</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</p>	<p>Being ensured</p>

	<p>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.</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</p>	<p>It was requested for constitution of MDC to MoEF&CC vide letter dated 10.06.2021 and again requested on 25.10.2021, 21.03.2022, 21.06.2022, 02.08.2022 & 30.09.2022. The constitution of MDC is under process in MoEF&CC.</p>

	the Committee shall be uploaded in the web site of the Company.	
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 displayed in the project proponent's website permanently.	<ul style="list-style-type: none"> • The Environment Clearance conditions and safeguards were advertised in two local newspaper ie. Divya Himachal & Amar Ujala on 24.03.2020. • 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	Being ensured

	the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	
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. Previous six-monthly compliance report was submitted to MoEF&CC on 30.05.2022 and was uploaded on SJVN website.
v	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the web site of the company.	Environment Statement for Financial Year 2021-22 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,	<ul style="list-style-type: none"> • Financial approval by CCEA: 20.11.2020 • Date of Financial closure: 28.02.2022. • 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).

	commencing the land development work and start of production operation by the project.	
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	Noted.

	of Environment (Protection) Act, 1986.	
xi	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xii	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
xiii	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data information/ monitoring reports.	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,	Noted.

	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.	
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	<p>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</p>	Being ensured
iii	<p>Necessary consent shall be obtained from District Administration due to proposed change in private land use for dumping of muck.</p>	<p>It has been intimated State Administration i.e. SDM, Rampur & Kumarsain vide letter dated 20.03.2021.</p>

Annexure - A



H.P.STATE POLLUTION CONTROL BOARD
HIM PARIVESH, PHASE-III, NEW SHIMLA-171009

HPSPCB No : 64

Date: 01/07/2022

Industry Registration ID: HP09303287

Application No : 3766780

To,

LUHRI HEP Stage I
Village Bithal P.O .Samathala, Tehsil Kumharsain, District Shimla
Shimla Rampur
172030

Subject: Renewal of 'Consent to Establish' u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981.

With reference to your application for obtaining Renewal of 'Consent to Establish' u/s 25/26 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are hereby, authorized to Establish an industrial unit subject to the Terms and Conditions as mentioned in this Consent letter.

1.Particulars of Consent to Establish under Water Act, 1974 and Air Act, 1981 granted to the industry

Consent No.	CTE/BOTH/RENEW/RO/2022/3766780
Date of issue :	08/11/2021
Date of expiry :	31/03/2023
Certificate Type :	RENEW
Previous CTE/CTO No. & Validity :	

2. Particulars of the Industry

Name & Designation of the Applicant	Vikas Mahajan, (Sr. Additional General Manage)
Address of Industrial premises	LUHRI HEP Stage I, Village Bithal P.O .Samathala, Tehsil Kumharsain, District Shimla, Shimla Rampur-172030
Capital Investment of the Industry	191259.0 lakhs
Category of Industry	Red
Type of Industry	1009-Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydel power plant of capacity <25MW]
Scale of the Industry	Large
Office District.	Shimla Rampur
Capacity	RCTE

Raw Materials (Name with quantity per day)

Raw Materials	Quantity	Unit
Water from Satluj river	As per discharge	Liter/Year

Products (Name with quantity per day)

Name of Products	Unit	Quantity	Intermediate Product	Principal Use
Electricity Generation	MW	210	NA	210 MW HEP and 777.4 Gwh power generation

Details of the Effluent Treatment Plant

Type of Effluent	Capacity(KLD)	Quantity(KLD)
Pre-treatment	27	2(Settling tank for stone crushing plant)
Septic Tank	420	as per EIA report
Pre-treatment	Sedimentation cum grease traps on outer mouth of drain located along workshop, fuel filling station etc. and oil interceptors for re-fueling areas, vehicle parking, washing areas etc. to prevent entry of contaminants to water bodies	as per EIA report

Mode of Disposal

Description	Quantity(in KLD)	Method of Treatment	Method of Disposal
Domestic	420 kld proposed as per EIA/EMP report	Soak Pit/Septic Tank	River

Quantity of fuel required (in TPD) and capacity of boilers/ Furnace/Thermo heater etc.

Type	No.of Boiler/Heater /Evaporator/Incinerator/DG Set/Other	Capacity	Type of Boiler/Heater s/Evaporators /Incinerator/DG Sets/Others	Type of Fuel	Fuel consumption rate in MT/hour or KL/hour or M3 /hour
DG Sets	5	3 no. of 1000 kVA and 2 no. of 500 kVA	With canopy	Diesel	Minimum 40 lt/hour to maximum 125 lt/hour
Incinerator	1	as per requirement	recent technology	Electricity	Not defined
Others	Construction equipment as hydraulic excavator, loader, jack hammer, crushing plant, mixing and batching plant etc.	as per DPR detail	With and without canopy as per machine	Diesel	as per capacity and load

Type of Air Pollution Control Devices installed

Equipment Type	Equipment Name	Date/proposed date of installation	Efficiency(%reduction)	Final concentration of pollution being emitted
Incinerator	Incinerator	Wed Jan 13 00:07:00 IST 2021	More than 90 %	Ash
Cyclone and Sprinklers	Others	Wed Jan 13 00:07:00 IST 2021	More than 95 %	open space
Water sprinklers	Others	Wed Jan 13 00:07:00 IST 2021	More than 95 %	open space
DG set in acoustic enclosure	DG Sets	Sat Jan 09 00:08:00 IST 2021	More than 90 %	NO _x +HC≤4.0 g/kW-hr, CO≤3.5 g/kW-h, pm≤0.2 g/kW-hr, SMOKE LIMIT≤0.7 per meter

Sources of emissions and type of pollutants

Name and location of the process vessel to which the stack/ vent is attached	Rate of emission in Kg./hr	Concentration of pollution like SO ₂ , NO _x , H ₂ S, Cl, HCl etc. in mg/NM ³	Height of Vent/outlet/stack from ground level in meters
Incinerator at appropriate site	Not defined	As per norms	As per norms
Other construction equipment whenever required	As per norms	As per norms	As per norms
DG set operation whenever required	0.35 kg/Hr	NO _x +HC≤4.0 g/kW-hr, CO≤3.5 g/kW-h, pm≤0.2 g/kW-hr, SMOKE LIMIT≤0.7 per meter	3.5 meters above the roof level



Digitally signed
by APOORV
DEVGAN
Date:
2022.07.04
10:57:06 +05'30'

Apoorv Devgan, IAS
Member Secretary
For & on behalf of
(H. P. State Pollution Control Board)

Endst. No.:

Copy To:-

1. The Regional Officer, HPSPCB, Rampur for kind information and further necessary action please.



Digitally signed
by APOORV
DEVGAN
Date:
2022.07.04
10:57:19 +05'30'

Apoorv Devgan, IAS
Member Secretary
For & on behalf of
(H. P. State Pollution Control Board)

TERMS AND CONDITIONS

A. SPECIFIC CONDITIONS

1. This Consent to Establish is only for the purpose and under the provision of Water Act, 1974 and Air Act, 1981 as the case may be, and will not construed as substitute for mandatory clearances required for the project under any other law/regulation/direction/order and the applicant shall obtain any such mandatory clearance before taking any steps to establish industry/ industrial plant, operation or process or any treatment and disposal system or an extension or addition thereto.
2. Nothing in this Consent shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected to under this or any other Act.
3. The unit shall apply for further extension in the validity of the Consent to Establish, at least two months before the expiry of this 'Consent to Establish', if applicable.
or
The unit shall obtain prior Consent to Operate from the State Board, before starting operational activity and gets its completion plan approved by the Competent Authority (As applicable).
4.
 - i) The unit shall made provisions for the compliance of Waste Management Rules i.e. Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016/ Plastic Waste Management Rules, 2016/ E-Waste (Management) Rules, 2016/Construction & Demolition Waste Management Rules, 2016 and Manufacture, Storage & Import of Hazardous Chemical Rules, 1989 and provisions made thereunder, as amended from time to time, without any adverse effect on the environment, in any manner (As Applicable)
 - ii) The unit shall made provisions for the compliance Solid Waste Management Rules, 2016 and provisions made thereunder and unit shall also not practice burning activity of solid waste/waste generated from fuel within/outside premises, to avoid public nuisance.
5. This 'Consent to Establish' is for:-
 - i) The emissions from all sources conforming to the norms as prescribed in Schedule-I of Environment (Protection) Rules, 1986 as amended from time to time.
 - ii) Noise and Ambient Air Quality shall be maintained within Ambient Air Quality Standards for noise as specified in Schedule-III of Environment (Protection) Rules, 1986 and Noise Pollution (Regulation and Control) Rules, 2000, as amended from time to time.
 - iii) The effluent (Domestic/Industrial) shall conform to the limits as prescribed in Schedule-I or Schedule-VI or Industry specific standards of Environment (Protection) Rules, 1986 as amended from time to time.
 - iv) Sewage and sullage generated from the unit to be disposed-off in a properly designed septic tank system/Sewage Treatment Plant/ Public Sewer System (as applicable).
6. The unit shall install adequate pollution control devices and provide the separate energy meter and flow meter. The unit shall maintain the logbook/ record with respect to operation of pollution control devices (As applicable). The achievement of the adequacy and efficiency of the effluent treatment plant/pollution control devices/re-circulation system installed shall be the entire responsibility of the unit.
7. **CONDITIONS UNDER WATER (PREVENTION & CONTROL OF POLLUTION) ACT, 1974.**
 - a) The unit shall provide terminal manhole(s) at the end of each collection system and a manhole upstream of final outlet (s) out of the premises of the industry for measurement of flow and for taking samples.
 - b) The unit shall install flow meter and maintain the record regarding the daily water consumption.

- c) The pollution control devices shall be interlocked with the manufacturing process of the industry (if applicable) and the authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board. Unit shall not use any unauthorized out-let(s) for discharging effluents from its premises
- d) Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed-off in scientific manner.
- e) The unit shall submit a detailed plan showing therein, the distribution system for conveying wastewaters.

8. **CONDITIONS UNDER AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981.**

- a) The unit shall provide canopy and stack of adequate height of the D.G sets so as to control the noise & air pollution in order to comply with the provision of notification No GSR-371 E dated 17-5-2002 or direction as issued by MOEF from time to time, under Environment (Protection) Act, 1986.
- b) The unit shall ensure disposal of boiler ash/fuel ash through authorized person or within premises in a scientific manner (as the case may be) and shall maintain proper record for the same, if applicable.
- c) The unit shall provide proper and adequate air pollution control arrangements for control emission from its coal/fuel handling area and emissions from handling, transportation and processing of raw material & product of the industry, as applicable.
- d) The unit shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets as per the specifications.

Specifications of the port-holes shall be as under:-

- i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter (De) shall be calculated from the following equation to determine upstream, downstream distance:-

$$De = 2 LW / (L+W)$$

Where L= length in mts. W= Width in mts.

- ii) The sampling port shall be 7 to 10 cm in diameter
- e) The unit shall submit a detailed plan showing therein, the distribution system for conveying wastewaters.

(i) Stack height for boiler plants

S.NO. Boiler with Steam Generating Stack heights Capacity

1.	Less than 2 ton/hr.	9 meters or 2.5 times the height of neighboring building which ever is more
2.	More than 2 ton/hr. to 5 ton/hr.	12 meters
3.	More than 5 ton/hr. to 10 ton/hr	15 meters
4.	More than 10 ton/hr. to 15 ton/hr	18 meters

- c) The pollution control devices shall be interlocked with the manufacturing process of the industry (if applicable) and the authorized outlet and mode of disposal shall not be changed without the prior written permission of the Board. Unit shall not use any unauthorized out-let(s) for discharging effluents from its premises.
- d) Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed-off in scientific manner.
- e) The unit shall submit a detailed plan showing therein, the distribution system for conveying wastewaters.

8. **CONDITIONS UNDER AIR (PREVENTION & CONTROL OF POLLUTION) ACT, 1981.**

- a) The unit shall provide canopy and stack of adequate height of the D.G sets so as to control the noise & air pollution in order to comply with the provision of notification No GSR-371 E dated 17-5-2002 or direction as issued by MOEF from time to time, under Environment (Protection) Act, 1986.
- b) The unit shall ensure disposal of boiler ash/fuel ash through authorized person or within premises in a scientific manner (as the case may be) and shall maintain proper record for the same, if applicable.
- c) The unit shall provide proper and adequate air pollution control arrangements for control emission from its coal/fuel handling area and emissions from handling, transportation and processing of raw material & product of the industry, as applicable.
- d) The unit shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets as per the specifications.

Specifications of the port-holes shall be as under:-

- i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter (De) shall be calculated from the following equation to determine upstream, downstream distance:-

$$De = 2 LW / (L+W)$$
 Where L= length in mts. W= Width in mts.
- ii) The sampling port shall be 7 to 10 cm in diameter
- e) The unit shall submit a detailed plan showing therein, the distribution system for conveying wastewaters.

(i) Stack height for boiler plants

S.NO.	Boiler with Steam Generating Capacity	Stack heights
1.	Less than 2 ton/hr.	9 meters or 2.5 times the height of neighboring building which ever is more
2.	More than 2 ton/hr. to 5 ton/hr.	12 meters
3.	More than 5 ton/hr. to 10 ton/hr	15 meters
4.	More than 10 ton/hr. to 15 ton/hr	18 meters

5. More than 15 ton/hr. to 20 21 meters ton/hr
6. More than 20 ton/hr. to 25 24 meters ton/hr.
7. More than 25 ton/hr. to 30 27 meters ton/hr.
8. More than 30 ton/hr. 30 meters or using the formula
 $H = 14 Q_g 0.3$
 $H = 74 (Q_p) 0.24$
 Where Q_g = Quantity of SO₂ in Kg/hr.
 Q_p = Quantity of particulate matter in Ton/day.

Note : Minimum Stack height in all cases shall be 9.0 mtr. or as calculated from relevant formula whichever is more.

(ii) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation.

(iii) Stack height for diesel generating sets:

Capacity of diesel generating set	Height of the Stack	
0-50 KVA	Height of the building	+ 1.5 mt
50-100 KVA	-do-	+ 2.0 mt.
100-150 KVA	-do-	+ 2.5 mt.
150-200 KVA	-do-	+ 3.0 mt.
200-250 KVA	-do-	+ 3.5 mt.
250-300 KVA	-do-	+ 3.5 mt.

For higher KVA rating stack height H (in meter) shall be worked out according to the formula:

$$H = h + 0.2 (KVA) 0.5$$

where h = height of the building in meters where the generator set is installed.

9. The unit shall submit on-site and off-site emergency plan approved by the Chief Inspector of Factories, Himachal Pradesh (If applicable)
10. The unit shall provide real time online monitoring equipment's and provisions for the uninterrupted transfer of data as per guidelines of CPCB (if applicable).
11. The unit shall provide adequate arrangements for fighting the accidental leakages/ discharge of any air pollutant/gas/liquids from the vessels, mechanical equipment's etc. which are likely to cause environmental pollution.
12. The unit shall plant minimum three layer of trees so far possible as per plantation guide (may be download from the website <http://hppcb.nic.in/plantationguide.pdf>) all along the boundary of the industrial premises and check air/water/noise pollution at source.
13. Any guidelines issued by the Central Government/State Government/MoEF/CPCB/SPCB/any other authority concerned, shall be binding.
14. This 'Consent to Establish' is subject to orders on any litigation pending in any Court of Law. Any direction/order issued by any court shall be binding (if any).
15. The Board reserves the right to revoke the 'Consent to Establish' granted to the industry at any time, in case the industry is found violating the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.
16. The unit shall comply with any other conditions laid down or directions issued in due course by the Board under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981.

B. OTHER CONDITIONS

1. The unit shall comply with the conditions imposed by the MoEF/State Level Environment Impact Assessment Authority/ District Level Environment Impact Assessment Authority in the environmental clearance granted to it as required under EIA notification dated 14-9-06, if applicable.
2. The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.
3. Stone Crusher units shall comply with the provisions of guidelines notified by the State Government vide Notification No. STE-E(3)-11/2012, dated 29-05-2014 (If Applicable).
4. Brick Kiln units shall comply with the provisions of guidelines notified by the MoEF vide Notification No. G.S.R.233.(E), dated-15-03-2018 and by the State Government vide Notification No. STE-E(5)-6/2013, dated-07-03-2014 (If Applicable).
5. Hydroelectric Projects shall install Online Real Time Monitoring System for the measurement of 15% of minimum discharge in lean season as per orders of Court/Government. The unit shall also ensure provisions for the regular and uninterrupted transfer of data from the real time online monitoring system for 15% of minimum discharge of flow to SPCB, failing which unit shall be liable for action on account of violation of the directions issued by Court/Government/SPCB in this regard (If Applicable).
6. Unit shall strictly adhere to the capacity approved by the Industries Department/ Department of Tourism & Civil Aviation/any other concerned Authority (As Applicable).
7. The unit shall not cause any nuisance/traffic hazard in vicinity of the area.
8. The unit shall ensure that there will not be significant visible dust emissions beyond the property line.
9. The unit shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.
10. The unit shall put display Board indicating environmental data in the prescribed format at the main entrance gate.
11. The unit shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.
12. Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.

C. SPECIAL CONDITIONS

- 7
- 1) The Unit shall provide STP/septic tank along with soak pit of adequate capacity/sewer connection with STP of I&PH/MC/NAC for the treatment of domestic sewage.
 - 2) The Unit shall ensure management of solid waste as per SWM rules 2016.
 - 3) The NOC is only for and under the provision of Water (Prevention and Control of Pollution) Act, 1974 or Air (Prevention and Control of Pollution) Act, 1981 as the case may be and will not be constructed as substitute for the mandatory clearances of other departments required for the unit under any law regulation/direction/order and the applicant shall obtain such mandatory permissions/clearances before taking any steps to establish/operation or any expansion or addition thereto.
 - 4) The Board reserves the right to revoke, review and alter the conditions of the consent as the case may be.
 - 5) This consent is subject to the Environmental clearance accorded to the project by the Ministry of Environment Forest and Climate Change, Govt. of India vide their letter No. J-12011/18/2015/1A-I(R)Pt dated 17.03.2020.
 - 6) The project shall ensure all the construction work done shall comply with the construction and demolition waste management Rules, 2016.
 - 7) The project proponent shall ensure that muck excavated be disposed off in identified dumping site protected with proper protection measures.
 - 8) Unit shall make arrangement to ensure that mandatory 15 % discharge is maintained at the downstream.
 - 9) The RO shall be sole responsible to ensure that the consnet fees paid by the unit is up to mark.



By Order
Member Secretary
(H. P. State Pollution Control Board)

REPORT OF THE BOARD ANALYST

Report No 48
Dated 10.08.2022

I hereby certify that I, **Dr. Praveen Sharma** State Board Analyst duly appointed under sub-section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981 received on the **08th day of Aug.- 2022** from **Er. Lokesh Thakur, Jr. Environmental Engineer, Regional Office, HP State Pollution Control Board, Rampur** a sample of **RSPM collected on 28.07.2022 near Dam Site (R. Bank of River Satluj) of M/s Luhri HEP, SJVNL, Vill. Bithal** for analysis. The sample was in a condition fit for analysis reported below:

I further certify that I have analysed the aforementioned sample on **08.08.2022 to 10.08.2022** and declare the result of analysis is to be as follows :-

S.no	Parameter	Result.	Test Method
1.	Particulate Matter-PM ₁₀ (RSPM)	19.10 µg/m ³	Guidelines for the Measurement of Ambient Air Pollutants, Volume-I by CPCB, New Delhi

The condition of the seals, fastening and container on receipt was as follows:-

Filter paper was enclosed in sealed envelope with the impression of PCB. The envelope contained details of sample like source of sample, time and date of collection, name and designation of person who had collected the sample.

Signed this on **10th day of Aug.-2022**

Remarks:

Result is within the limit as prescribed for ambient air quality under NAAQS, 2009.

Signature
(State Board Analyst)
Regional Laboratory, Below BCS, Phase-III, Shimla

Address :
To

The General Manager,
M/s Luhri HEP, SJVNL,
Vill. Bithal, PO Shamathala,
Tehsil Kumarsain, Distt. Shimla

REPORT OF THE BOARD ANALYST

Report No 49.
Dated 10.08.2022

I hereby certify that I, Dr. Praveen Sharma State Board Analyst duly appointed under sub-section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981 received on the 08th day of Aug.- 2022 from Er. Lokesh Thakur, Jr. Environmental Engineer, Regional Office, HP State Pollution Control Board, Rampur a sample of RSPM collected on 29.07.2022 near office site of Luhri HEP (Vill. Bithal) of M/s Luhri HEP, SJVNL, Vill. Bithal for analysis. The sample was in a condition fit for analysis reported below:

I further certify that I have analysed the aforementioned sample on 08.08.2022 to 10.08.2022 and declare the result of analysis is to be as follows :-

S.no	Parameter	Result	Test Method
1.	Particulate Matter-PM ₁₀ (RSPM)	18.56 µg/m ³	Guidelines for the Measurement of Ambient Air Pollutants, Volume-I by CPCB, New Delhi

The condition of the seals, fastening and container on receipt was as follows:-

Filter paper was enclosed in sealed envelope with the impression of PCB. The envelope contained details of sample like source of sample, time and date of collection, name and designation of person who had collected the sample.

Signed this on 10th day of Aug.-2022

Remarks:

Result is within the limit as prescribed for ambient air quality under NAAQS, 2009.



Signature
(State Board Analyst)

Regional Laboratory, Below BCS, Phase-III, Shimla

Address :
To

The General Manager,
M/s Luhri HEP, SJVNL,
Vill. Bithal, PO Shamathala,
Tehsil Kumarsain, Distt. Shimla

REPORT OF THE BOARD ANALYST

Report No **50**
Dated **10.08.2022**

I hereby certify that I, Dr. Praveen Sharma State Board Analyst duly appointed under sub-section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981 received on the 08th day of Aug.-2022 from Er. Lokesh Thakur, Jr. Environmental Engineer, Regional Office, HP State Pollution Control Board, Rampur a sample of RSPM collected on 29.07.2022 at Nirth near Dam site, Distance 200 mtrs. (Left Bank of River Satluj) of M/s Luhri HEP, SJVNL, Vill. Bithal for analysis. The sample was in a condition fit for analysis reported below:
I further certify that I have analysed the aforementioned sample on 08.08.2022 to 10.08.2022 and declare the result of analysis is to be as follows :-

S.no	Parameter	Result	Test Method
1.	Particulate Matter-PM ₁₀ (RSPM)	17.99 µg/m ³	Guidelines for the Measurement of Ambient Air Pollutants, Volume-I by CPCB, New Delhi

The condition of the seals, fastening and container on receipt was as follows:-

Filter paper was enclosed in sealed envelope with the impression of PCB. The envelope contained details of sample like source of sample, time and date of collection, name and designation of person who had collected the sample.

Signed this on 10th day of Aug.-2022

Remarks:

Result is within the limit as prescribed for ambient air quality under NAAQS, 2009.


Signature
(State Board Analyst)
Regional Laboratory, Below BCS, Phase-III, Shimla.

Address :
To

The General Manager,
M/s Luhri HEP, SJVNL,
Vill. Bithal, PO Shamathala,
Tehsil Kumarsain, Distt. Shimla

REPORT OF THE BOARD ANALYST

Report No 51
Dated 10.08.2022

I hereby certify that I, Dr. Praveen Sharma State Board Analyst duly appointed under sub-section (2) of section 29 of the Air (Prevention and Control of Pollution) Act, 1981 received on the 08th day of Aug.- 2022 from Er. Lokesh Thakur, Jr. Environmental Engineer, Regional Office, HP State Pollution Control Board, Rampur a sample of RSPM collected on 30.07.2022 near Anshul Guest House Dumping site (Vill. Bithal) of M/s Luhri HEP, SJVNL, Vill. Bithal for analysis. The sample was in a condition fit for analysis reported below:

I further certify that I have analysed the aforementioned sample on 08.08.2022 to 10.08.2022 and declare the result of analysis is to be as follows :-

S.no	Parameter	Result	Test Method
1.	Particulate Matter-PM ₁₀ (RSPM)	17.53 µg/m ³	Guidelines for the Measurement of Ambient Air Pollutants, Volume-I by CPCB, New Delhi

The condition of the seals, fastening and container on receipt was as follows:-

Filter paper was enclosed in sealed envelope with the impression of PCB. The envelope contained details of sample like source of sample, time and date of collection, name and designation of person who had collected the sample.

Signed this on 10th day of Aug.-2022

Remarks:

Result is within the limit as prescribed for ambient air quality under NAAQS, 2009.



Signature
(State Board Analyst)
Regional Laboratory, Below BCS, Phase-III, Shimla

Address :
To

**The General Manager,
M/s Luhri HEP, SJVNL,
Vill. Bithal, PO Shamathala,
Tehsil Kumarsain, Distt. Shimla**

Report No. PCR/01 dt-25/81

Noise Monitoring Report

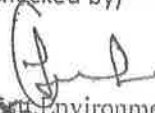
M/s Luhri Hydro Electric Project, SJVNL, 210 MW

Equipment details: SLM 109. (Envirotech)

Sr.No.	Date of Sampling	Sampling Location	Level in Leq(db) Morning	Level in Leq(db) Evening	Permissible limit in dB
1	30.07.22	Dam Site	70	60	75
2	30.07.22	Near Worker Colony	63	58	65
3	30.07.22	Near Batching Plant (right bank)	71	61	75
4	30.07.22	Narola Village	52	44	55
5	30.07.22	Nirath Village	53	45	55
6	30.07.22	Near Stone crusher site Moin	63	60	75

BWETA
(Monitored by)

(Checked by)


Environmental Engineer,
H.P.State Pollution Control Board,
Rampur, Distt.Shimla H.P.

HEP STATE POLLUTION CONTROL BOARD, REGIONAL LABORATORY, SHIMLA
ANALYSIS REPORT OF WATER SAMPLES COLLECTED UNDER EMP FOR THE MONTH OF JULY 2022

Report No.	Name of location	Date of sampling	Time	Temp. °C	pH	Cond. µS	DO mg/l	CO ₂ mg/l	BOD mg/l	FC MPN /100ml	T.C. MPN /100ml	NO ₃ -N mg/l	NO ₂ -N mg/l	NH ₄ -N mg/l	TDS mg/l	Total Hardness mg/l	F mg/l	Cl mg/l	SO ₄ mg/l	T. Alkalinity mg/l	P. Alkalinity mg/l	CO ₂ mg/l	HCO ₃ mg/l	PO ₄ mg/l	Ca mg/l	Mg mg/l	TSS mg/l	Hardness NTU	DAG mg/l
283	River Sahaj Dis Dam Lalmi HEP	26.07.2022	9:40 AM	12.0	7.76	255.2	8.0	BDL	BDL	6.8	140	BDL	BDL	BDL	168.0	109.0	0.26	BDL	512.8	96.0	BDL	96.0	BDL	96.0	BDL	29.7	8.5	-	221.0
284	River Sahaj TRT of Lalmi HEP	26.07.2022	9:50 AM	12.0	7.94	230.0	8.5	BDL	BDL	6.8	110	0.39	BDL	BDL	147.0	105.0	0.27	BDL	517.0	104.0	BDL	BDL	104.0	BDL	28.5	8.3	-	214.4	
285	Ground Water Hand Pump Niralai	26.07.2022	11:40 AM	-	7.81	572.6	-	BDL	BDL	6.8	26	7.40	BDL	BDL	372.0	156.0	0.36	BDL	215.0	318.0	BDL	BDL	318.0	BDL	55.3	4.1	-	8.4	
286	River Sahaj Dis Dam before confluence with Behra Khad	26.07.2022	10:30 AM	17.0	7.95	247.0	8.0	BDL	BDL	17	140	0.34	BDL	BDL	135.0	101.0	0.25	BDL	557.4	102.0	BDL	BDL	102.0	BDL	31.7	5.3	-	768.6	
287	Behra Khad	26.07.2022	10:50 AM	11.0	7.96	94.5	9.2	BDL	BDL	12	170	1.15	BDL	BDL	99.0	41.0	0.24	BDL	655	80.0	BDL	BDL	50.0	BDL	12.8	BDL	-	37.8	
288	River Sahaj Dis after confluence with Behra Khad	26.07.2022	11:10 AM	12.0	8.08	236.6	8.7	BDL	BDL	6.8	140	BDL	BDL	BDL	139.0	95.0	0.26	BDL	415.8	102.0	BDL	BDL	102.0	BDL	28.9	5.6	-	132.0	

[Signature]
 SCIENTIFIC OFFICER

[Signature]
 250-1

[Signature]
 250-1

SCIENTIFIC OFFICER

Annexure - C

Registered/E-mai

No. FSH-F (2)-39-80/2015-ARC-LUHRI-STAGE-I- 10847
Directorate of Fisheries,
Himachal Pradesh. 31/10/22

From

The Director-cum-Warden of Fisheries,
Himachal Pradesh, Bilaspur.

To

HOD (Environment)
Luhri HEP Stage-1, Village Bithal,
P.O. Shamathala, Tehsil Kumarsain,
District Shimla (H.P.) 172030

Dated Bilaspur-174001 the,

Subject: -

Regarding submission of Six Monthly Compliance Report to
MoEF&CC.

Sir,

I invite a reference to your office letter No. SJVN/Luhri-
I/ENV./EC/Compliance/2022-188, dated 01.10.2022 on the above cited subject.

In this connection, it is to inform that Fisheries Development
Fund (FDF) received as Rs. 105 Lac in reference to proposed fisheries management plan
(FMP) of the HEP has been utilized to the tune of Rs.30.00 Lac for construction of fish
landing center in Kol-dam Reservoir at Sunni, district Shimla and the balance funds will
be used for remaining proposed work, in near future.

Hence, above report is submitted for your kind information and
further necessary action, please.

Yours faithfully.





(Satpal Mehta)

Director-cum-Warden of Fisheries,
Himachal Pradesh, Bilaspur.

E-mail : fisheries-hp@nic.in

Tel/Fax: 01978-224068