

एसजेवीएन लिमिटेड SJVN Limited

(भारत सरकार एवं हिमाचल प्रदेश सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)

नवरत्न सी. पी. एस. ई.

A Navratna CPSE

CIN No : L40101HP1988GOI008409



संख्या:एसजेवीएन/का.मु./पर्या./एफ-24/2026/46

दिनांक: 01/06/2026

सेवा में,

सदस्य सचिव,

राज्य स्तरीय पर्यावरण प्रभाव आकलन प्राधिकरण,

पर्यावरण, विज्ञान और प्रौद्योगिकी विभाग, हिमाचल प्रदेश सरकार,

पर्यावरण भवन, यूएस क्लब के पास, शिमला - 171001

मेल आईडी: ms.hpseiaa@gmail.com

विषय: एसजेवीएन लिमिटेड द्वारा लूहरी एचईपी चरण-I परियोजना के लिए मौजा/मोहल-गडेज, उप तहसील-नीथर, जिला कुल्लू, हिमाचल प्रदेश में मोड़न क्वारी (4.67 हेक्टेयर) से रेत, पत्थर और बजरी के संग्रहण/एकत्रीकरण के लिए खनिजों के खनन के संबंध में पर्यावरण स्थिति पर अर्धवार्षिक अनुपालन रिपोर्ट (अक्टूबर 2025 से मार्च 2026 तक की अवधि हेतु) - तत्संबंधी।

संदर्भ: पर्यावरण मंजूरी सं.एचपीएसईआईए/2021/806-715-722, 3 जुलाई, 2021।

महोदय,

कृपया उपर्युक्त उल्लेखित अनुमोदन की ओर ध्यान दें, जिसके तहत एसजेवीएन लिमिटेड द्वारा लूहरी एचईपी चरण-I परियोजना के लिए मौजा/मोहल-गडेज, उप-तहसील-नीथर, जिला कुल्लू, हिमाचल प्रदेश में मोड़न क्वारी (4.67 हेक्टेयर) से रेत, पत्थर और बजरी के संग्रहण/एकत्रीकरण के लिए खनिजों के खनन के लिए पर्यावरण मंजूरी प्रदान की गई है।

इसके अलावा, पर्यावरण मंजूरी की शर्तों के कार्यान्वयन पर अर्धवार्षिक स्थिति रिपोर्ट प्रस्तुत करना निर्धारित है। इसलिए, आपकी जानकारी के लिए पर्यावरण स्थिति पर अर्धवार्षिक अनुपालन रिपोर्ट (अक्टूबर 2025 से मार्च 2026 तक की अवधि हेतु) सादर प्रस्तुत की जाती है।

संलग्नक: यथोपरि।

सधन्यवाद,

भवदीय,

एसजेवीएन लिमिटेड के लिए,

(विभागाध्यक्ष)

निगमित पर्यावरण विभाग

कारपोरेट मुख्यालय : शक्ति सदन, शानान,
शिमला-171006 (हि.प्र.) www.sjvn.nic.in
दूरभाष : 0177-2660003/4/5/6 फैक्स : 0177-2660001
सम्पर्क कार्यालय : ऑफिस ब्लॉक, टावर-1, 6वीं मंजिल,
एनबीसीसी कॉम्प्लेक्स, पूर्वी किदवई नगर, नई दिल्ली-110023
दूरभाष : 011-61901919 फैक्स : 011-61901915

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Shimla-171006, (H.P.) www.sjvn.nic.in

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NBCC Complex, East Kidwai Nagar, New Delhi-110023

Tele : 011-61901919, Fax : 011-61901915

अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

प्रतिलिपि (केवल ईमेल के माध्यम से):

1. सदस्य सचिव, नदी घाटी एवं जलविद्युत परियोजना, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, भारत सरकार, इंदिरा पर्यावरण भवन, जोर बाग नई दिल्ली-110003. मेल आईडी- yogendra78@nic.in
2. वन महानिरीक्षक, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, आईआरओ, शिमला, सी.जी.ओ. कॉम्प्लेक्स, शिवालिक ब्लॉक, लॉन्गवुड, शिमला- 171001, हिमाचल प्रदेश, मेल आईडी: iro.shimla-mefcc@gov.in
3. सदस्य सचिव, हिमाचल प्रदेश राज्य प्रदूषण नियंत्रण बोर्ड, हिम परिवेश, फ़ेस-III, न्यू शिमला- 171009, मेल आईडी: mspcb-hp@nic.in
4. क्षेत्रीय निदेशक, केंद्रीय प्रदूषण नियंत्रण बोर्ड, चंडीगढ़, मेल आईडी narendersharma.cpcb@gov.in
5. निदेशक पर्यावरण, विज्ञान प्रौद्योगिकी एवं जलवायु परिवर्तन विभाग, हिमाचल प्रदेश सरकार पर्यावरण भवन, यूएस क्लब के पास, शिमला हिमाचल प्रदेश -170001 मेल आईडी: misofficer-dest@hp.gov.in, dbt-hp@nic.in

SIX MONTHLY COMPLIANCE REPORT
TO BE SUBMITTED TO SEIAA (GoHP), IRO-MoEF&CC, CPCB & HPSPCB
(Period: October 01, 2025 to March 31, 2026)

| | | |
|-----------|---------------------------|--|
| A) | Name of Project | Moin Quarry 4.67 ha Mauza/Mohal-Gadej, Sub-Tehsil- Neethar, District Kullu, HP |
| | Type of Project | Mining |
| | Location | Districts Kullu |
| | EC Letter no. | HPSEIAA/2021/806-715-722, dated 03.07.2021 |
| | Contact Address | |
| | a) Concerned Project Head | Head of Project, Administrative Building, LHEP-I, Village Bayal, P.O. Koyal, Tehsil Nirmand, District Kullu, Himachal Pradesh, PIN 172023, Contact No. 01782- 222616 |

Deepak K

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Kaul

Moin Quarry

| S.N. | EC Stipulations/Conditions | Status |
|------|--|---|
| A. | Statuary Compliance | |
| 1. | This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law Common cause Conditions as may be applicable. | - |
| 2. | The project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2 nd August, 2017 in writ petition (Civil) No 114 of 2014 in Matter of common cause versus Union of India & Ors before commencing the mining operation. | Statutory clearances to the Mine obtained. |
| 3. | The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied if any, for illegal mining paid by the project proponent through their respective Department of Mining & Geology in strict compliance of judgment of Hon'ble Supreme court dated 2 nd August 2017 in Writ petition (civil) No 114 to 2014 in matter of common cause versus Union of India & Ors. | There are no compensation levies pending against the Project. |
| 4. | This Environmental Clearance shall become operational only after receiving formal NBWL clearance from MoEF&CC subsequent to the recommendations of the standing committee of National Board of Wildlife, if applicable to the project. | Not Applicable |
| 5. | This Environmental clearance shall become operational only after receiving formal Forest Clearance (FC). Under the provision of Forest Conservation Act, 1980, if applicable to the project. | FC to Project (98.1004 ha): Accorded by MoEF&CC on March 28, 2019. Mining activity considered under the proposal. FC for Addl. Land (0.9486 ha): Accorded by MoEF&CC on Oct. 13, 2021. |

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[Signature]

Main Office

| S.N. | EC Stipulations/Conditions | Status |
|------|---|--|
| 6. | Project proponent (PP) shall obtain consent to operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining consent to Establish/consent to operate from the concerned State Pollution Control Board /committee. | CTO to Stone Crusher issued to M/s LHPC (Main contractor) on 18/05/2022 (with validity up to 17/05/2023). Further, renewed and valid up to 28/09/2024. Application filed by LHPC. |
| 7. | The PP shall adhere to the provision of the Mines Act, 1952. Mines and Mineral (Development & Regulation), Act 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time. | Shall be complied in line with Mining plan/EMP. |
| 8. | The project proponent shall obtain consents from the entire concerned Land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rule made there under in respect of lands which are not owned by it. | All land acquired or diverted in name of Project. |
| 9. | The project shall follow the mitigation measures provided in MoEF&CC Office Memorandum No Z-11013/57/2014-IA-II (M), dated 29 th October, 2014 titled – Impact of mining activities on Habitations issues related to the mining project-wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by mine lease area. | Being complied |
| 10. | The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the Project. | Under process. |
| 11. | The copy of EC letter will be marked to concerned Panchayat/ Local NGO etc. if any from whom suggestion representation has been received while processing the proposal. | No suggestion/representation has been received from concerned Panchayat/Local NGO, etc. while processing the proposal |

Deepak Kumar

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[Signature] Main Officer

| S.N. | EC Stipulations/Conditions | Status |
|-----------|---|---|
| 12. | State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional Office District Industries Centre and collector's office / Tehsildar's office for 30 days. | HPSPCB, District Industries Centre and Collector's Office / Tehsildar's Office requested for displaying EC vide letter dated 05.08.2021 |
| 13. | The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers , one of which shall be in vernacular language of the concerned area the advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC is available with State Pollution Control Board /Committee and web site of the Ministry of Environment, Forest and Climate Change (www.Parivash.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record. | The EC was widely advertised in two local newspapers namely Dainik Bhasker & Divya Himachal and the same was informed to Regional Office of MoEF&CC on 19.07.2021 |
| 14. | The project proponent shall inform the SEIAA for any change in ownership of the mining lease in case there is any change in ownership or mining lease is transferred then mining operation shall be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time. | Shall be complied, if in case |
| B. | Air Quality Monitoring and Preservation | |

Deepak K

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Main Office

| S.N. | EC Stipulations/Conditions | Status |
|-----------|--|---|
| 1. | <p>The project proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters relevant for mining operations of air pollution viz PM 10, PM 2.5, NO2, CO2 and SO2 etc. as per the methodology mentioned in NAAQS Notification No B-290-16/20/90/PCI/1 dated: 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone . The ambient air quality shall also be monitored at prominent places like office building; Canteen, etc as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 3 months in front of the main gate of mine site.</p> | <p>Ambient Air monitoring in the Project surrounding habitations being done by HPSPCB/Third party. The reports are uploaded on PARIVESH-2 and also through company website.</p> |
| 2. | <p>Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction, etc.) shall be carried out in areas prone to air pollution wherein high levels of PM 10 and PM 2.5 are evident such as haul road loading and unloading point and transfer point. The fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment / machineries and preventive maintenance. Use of suitable water soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEF&CC / Central Pollution Control Board.</p> | <p>Provision in place for water sprinkling. Frequency of sprinkling is increased as levels of ambient air quality goes up.</p> |
| C. | <p>Water quality monitoring and preservation</p> | |

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Kulka

Main Quarry

| S.N. | EC Stipulations/Conditions | Status |
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| 1. | <p>In case immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case mining operation involves intersection of ground water table at later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.</p> | Ensured |
| 2. | <p>Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the project proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board & SEIAA.</p> | <p>The mining area is on a mound and located more than 500 m from the nearest village. Moreover, there is no water bodies or nallahs in the mining area. The nearest water body River Satluj is monitored for surface water parameters through HPSPCB.</p> |

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K. K. Sharma

| S.N. | EC Stipulations/Conditions | Status |
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| 3. | Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority / State ground water department. The report on changes in ground water level and quality shall be submitted on six – monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board. | As above |

Deepak Kumar

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Kulc Main Quarry

| S.N. | EC Stipulations/Conditions | Status |
|------|--|---|
| 4. | <p>The project proponent shall undertake regular monitoring of natural water course/ water resource/ springs and perennial nallahs existing / flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby / adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. Pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Regional Office, MoEF&CC, SEIAA, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.</p> | <p>There is no water body in the mining area. The River course downhill of mining area, U/s and D/s of the mining stretch is monitored through HPSPCB. Reports are uploaded on PARIVESH-2 and displayed through Company Website. Reports during October 2025 - March 2026 period is enclosed at Enclosure-1.</p> |

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Kuldeep

| S.N. | EC Stipulations/Conditions | Status |
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| 5. | <p>Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the company. The circular No. J-20012/1/2006-I A.II (M) dated 27.05.2009 issued by MoEF&CC may also be referred in this regard.</p> | As above. |
| 6. | <p>Project proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/State ground Water Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC, SEIAA annually.</p> | Shall be complied in line with Mining plan/EMP |
| 7. | <p>Industrial wastewater (workshop and wastewater from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standard shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.</p> | Being complied in line with Mining plan/EMP |
| 8. | <p>The water balance/water auditing shall be carried out and measures for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC, SEIAA and State Pollution Control Board/Committee.</p> | Shall be complied in line with Mining plan/EMP. |

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KVK Main Quarry

| S.N. | EC Stipulations/Conditions | Status |
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| D. | Noise and vibration monitoring and prevention | |
| 1. | The peak particle velocity at 500 m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines. | Not Applicable, as no blasting proposed in mining plan |
| 2. | The illumination and sound at night at project sites disturb the villages in respect of both human and animal population, consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day/night hours. | Being complied in line with Mining plan/EMP. Further, no operation are done during night. |
| 3. | The project proponent shall take measures for control of noise levels below 85 dB(A) in the work environment. The workers engaged in operations of HEMM, etc should be provided with ear plugs/muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/personnel/laborers are working without personal protective equipment. | Being complied |
| E. | Mining plan | |

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

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Kuldeep Main Quarry

| S.N. | EC Stipulations/Conditions | Status |
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| 1. | The Overburden (O.B.) generated during mining operations shall be stacked at earmarked OB dump site (s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines /circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of topsoil /OB dumps. The topsoil shall be used for land reclamation and plantation. | Shall be complied as per Mining Plan/EMP. |
| 2. | The reject/waste generated during the mining operation shall be stacked at earmarked waste dump site (s) only. The physical parameter of the waste dumps like height, width and angle of slope shall be governed as per the approved mining plan as per guidelines/circular issued by DGMS w.r.t. safety in mining operation shall be statically adhered to maintain the stability of waste dumps. | Being complied in line with Mining plan/EMP. |
| 3. | The reclamation of waste dumps site shall be done in specific manner as per the approved mining plan cum progressive mine closure plan. | Shall be complied in line with Mining plan/EMP. |
| 4. | The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run-off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dumps mass should be consolidated with the help of dozer / compactors thereby ensuring proper filling / leveling of dump mass. In critical area, use of geo textiles / geomembranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump. | Shall be complied in line with Mining plan/EMP. |
| 5. | The project proponent shall carry out slope stability study in the case the dump height is more than 30 meters. The slope stability report | Shall be complied, if in case. |

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| S.N. | EC Stipulations/Conditions | Status |
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| | shall be submitted to concerned regional office of MoEF&CC & SEIAA. | |
| 6. | Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Topsoil / OB/waste dumps to prevent run-off of water and flow of sediments directly in to the water bodies (Nallah/ River /pond, etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation, etc. The drains/sedimentation sumps, etc. shall be de-silted regularly particularly after monsoon season and maintained properly. | Being complied in line with Mining plan/EMP. |
| 7. | Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50 % shall be kept for designing of sump structures over and above peak rainfall (based on 50-year data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments / silt materials. The sedimentation pits / sumps shall be constructed at the corners of the garland drains. | Shall be complied in line with Mining plan/EMP. |
| 8. | The topsoil, if any, shall temporarily be stored at earmarked site (s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the topsoil dumps like height, width and angle of slope shall be governed as per the approved mining plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose. | Shall be complied in line with Mining plan/EMP. |

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| S.N. | EC Stipulations/Conditions | Status |
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| 9. | The mining lease holders shall, after ceasing mining operations undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna, etc. | Shall be complied in line with Mining plan/EMP. |
| G. | Transportation | |
| 1. | No transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such case, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village / rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emission shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. | Being complied |

Deepraj Kumar

[Signature]

| S.N. | EC Stipulations/Conditions | Status |
|-----------|--|--|
| 2. | <p>The main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other road within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards, etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.</p> | <p>Water sprinkling system in place. Moreover, the components of crusher are covered to avoid generation of fugitive dust emissions.</p> |
| H. | Green Belt | |
| 1. | <p>The project proponent shall develop green belt in 7.5 m wide safety Zone all along the mine lease boundary as per the guideline of CPCB in order to arrest Pollution emanating from mining operation within the lease. The whole green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of green belt shall be governed as per the EC granted by SEIAA irrespective of the stipulation made in approved mine plan.</p> | <p>Shall be complied in line with Mining plan/EMP.</p> |

Deepak Kumar

[Signature]

| S.N. | EC Stipulations/Conditions | Status |
|------|---|--|
| 2. | <p>The project proponent shall carryout plantation/afforestation in backfilled and reclaim area of mining lease, around water body, long the roadside, in community area etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural Department/ Tribal Welfare Department / Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guideline in due respect shall also be adhered. The density of the trees should be around 2500 saplings per hectare. Adequate budgetary provision shall be made for protection and care of trees.</p> | <p>Shall be complied in line with Mining plan/EMP.</p> |
| 3. | <p>The project proponent shall make necessary alternative arrangements for livestock field by developing grazing land with the view to compensate those area which is coming within the mining lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, project proponent should essentially implement directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded / protected against felling the plantation of such trees should be promoted.</p> | <p>No grazing land in mining area.</p> |
| 4. | <p>The project proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A wildlife conservation plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The plan shall be approved by Chief Wildlife Warden of the state Government.</p> | <p>The biodiversity/wildlife management plan for the project was approved by chief wildlife warden on dated 25.03.2026. Demand note amounting 1.05 Cr yet to be raised by the forest deptt.</p> |

Deepak Kumar

[Signature]
Main Officer

| S.N. | EC Stipulations/Conditions | Status |
|-----------|--|--|
| 5. | And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the regional office of the Ministry & SEIAA. | |
| I. | Public hearing and human health issues | |
| 1. | The project proponent shall appoint an Occupational Health Specialist for regular as well as periodical medical examination of the worker engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The checkups shall be undertaken once in six month and necessary remedial /preventive measures be taken. A status report on the same may be sent to MoEF&CC Regional office, SEIAA and DGMS on half yearly basis. | Medical unit running at Project Site of LHEP-I. Further, work permits are given only after medical checkup of the workers. |

Deepak K

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| S.N. | EC Stipulations/Conditions | Status |
|------|---|---|
| 2. | <p>The project proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risk to health and determine appropriate control measures to protect the health and well-being of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighbourhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to biomass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The proponent shall carryout base line HRA for all the category of workers and thereafter every five years.</p> | <p>Being complied. Moreover, LHEP-I is running free mobile health services in the area.</p> |

Deputy

Chief Main Quarry

| S.N. | EC Stipulations/Conditions | Status |
|------|--|-------------------|
| 3. | <p>The proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, for welders full Ophthalmologic Assessment, for Manganese Miners a complete Neurological Assessment by a certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium-Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17x14 inches and of good quality).</p> | Shall be complied |

Deepak Kumar

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| S.N. | EC Stipulations/Conditions | Status |
|------|---|-------------------|
| 4. | <p>The proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5-24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities, (c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d)their hearing should not be affected. As proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other Joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC & SEIAA annually along with details of the relief and compensation paid to workers having above indications.</p> | Shall be complied |
| 5. | <p>The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.</p> | Being complied |

Deepak Kumar

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Kuldeep Main Document

| S.N. | EC Stipulations/Conditions | Status |
|-----------|--|--|
| 6. | The project proponent shall make provision for the housing for workers/ labours or shall construct labour camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile, toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic wastewater should be treated with STP in order to avoid contamination of underground water. | Labour Colony with applicable facilities developed at project Site and run through M/s LHPC (Main contractor). |
| 7. | The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry, SEIAA along with District Administration. | Not Applicable |
| J. | Corporate Environment Responsibility/CER | |
| 1. | The activities and budget earmarked for Corporate Environment Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. Photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC & SEIAA annually along with audited statement. | SJVN is GoI CPSU. The provisions for funds and their requirements are drawn on real time basis from exchequer. Project has made provision for CER on the said account. |

Deepak Kumar

Kuldeep
Main Officer

| S.N. | EC Stipulations/Conditions | Status |
|-----------|---|---|
| 2. | Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The year wise expenditure of such funds should be reported to the MoEF&CC and its concerned Regional Office & SEIAA. | As above. |
| K. | Miscellaneous | |
| 1. | The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC & SEIAA. | Shall be complied |
| 2. | The Project authorities should inform Regional Office & SEIAA regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work. | <p>LHEP-I PROJECT</p> <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 <p>Actual Work started in March 2021</p> <ul style="list-style-type: none"> ● Start of Operation (COD): Planned for August 2029 for 1st COD. <p>MINING AT MOIN</p> <ul style="list-style-type: none"> ● Start of mining: August 06, 2023 |
| 3. | The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEF&CC & its concerned Regional Office, SEIAA, Central Pollution Control Board and State Pollution Control Board. | Last report for the period ending September 2025 submitted to all offices on 30.03.2026. |

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| S.N. | EC Stipulations/Conditions | Status |
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| 4. | A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC & SEIAA. | A separate Environment Cell at the project and company head quarter level with qualified personnel has already been established. |
| 5. | The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) & competent Authority by furnishing the requisite data / information / monitoring reports. | Acceptable. |
| L. | <p>Additional Conditions</p> <p>The project proponent shall submit compliance of the following CER conditions within 3 months from the issuance of EC letter, failing which EC will be withdrawn:</p> | |
| 1. | <p>The Project Proponent shall provide four plastic shredders, four plastic waste baling machines & four compactor to the concerned ULBs/ PRIs through Department of Environment, Science & Technology, and GoHP.</p> <p>Amendment to the above condition:</p> <p>SEAC meeting dated 20.11.2025, imposed the condition to install a grid-connected solar power plant of adequate capacity in the nearest Government-owned orphanage or child care institution, with a budgetary provision of Rs. 29.12 lakh.</p> | <p>Application for reviewing the quantum of items was taken up in 100th SEAC's meeting held on May 01, 2024. Further, detailed information on estimated costs has been supplied by Project to DEST, GoHP on June 03, 2024.</p> <p>In progress, case is represented to Director cum Member Secretary SEIAA, HP for reconsideration of the quantity of machines.</p> <p>In this regard, it is submitted that compliance of the said condition is currently under progress in coordination with HIMURJA.</p> |

Deepak K

KVK Main Quarry

| S.N. | EC Stipulations/Conditions | Status |
|------|--|--|
| 2. | The Project proponent shall provide 20 solar lights under CER through Department of Environment, Science & Technology, GoHP. | On June 20, 2023, 20 nos. solar lights supplied to DEST for further distribution.. |

Note: Photographs of few of the environmental aspects at Enclosure - **NIL**

Note: Changes from previous six-monthly report are highlighted in bold

Deepak A

Date: 24/07/24

Kul

Main Officer



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

Report No: 17262217/W-20225

11/11/2025

ISSUED TO: LUHRI HEP Stage I
Administrative Buildong, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand

Distt.Kullu anni, H.P.172023

Sample received on: 29/10/2025

Description of sample: River Satluj U/s Dam LHEP

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | COD | BDL | mg/L | NA | NA |
| 2 | pH | 8.08 | - | NA | NA |
| 3 | Conductivity | 133.2 | microsiemens/cm | NA | NA |
| 4 | DO | 8.8 | mg/L | NA | NA |
| 5 | Fecal Coliform | 24.0 | MPN/100ml | NA | NA |
| 6 | BOD | BDL | mg/L | NA | NA |
| 7 | Turbidity | 1.5 | NTU | NA | NA |
| 8 | Nitrate-N | 0.56 | mg/L | NA | NA |
| 9 | Nitrite-N | BDL | mg/L | NA | NA |
| 10 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 11 | TSS | 28.0 | mg/L | NA | NA |
| 12 | Sodium | 3.85 | mg/L | NA | NA |
| 13 | Fluoride | 0.20 | mg/L | NA | NA |
| 14 | TDS | 83.0 | mg/L | NA | NA |
| 15 | Potassium | 1.29 | mg/L | NA | NA |
| 16 | Sulphate | 28.05 | mg/L | NA | NA |
| 17 | Total Hardness | 72.0 | mg/L | NA | NA |
| 18 | Ca++ | 25.25 | mg/L | NA | NA |
| 19 | Total Phosphate | BDL | mg/L | NA | NA |
| 20 | Boron | 0.26 | mg/L | NA | NA |

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RL Shimla





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

Report No: 17262220/W-20217

11/11/2025

ISSUED TO: LUHRI HEP Stage I
Administrative Buildong, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand
Distt.Kullu anni, H.P.172023

Sample received on: **29/10/2025**
Description of sample: **River Satluj TRT of LHEP**

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | pH | 7.98 | - | NA | NA |
| 2 | Conductivity | 127.6 | microsiemens/cm | NA | NA |
| 3 | DO | 8.8 | mg/L | NA | NA |
| 4 | BOD | BDL | mg/L | NA | NA |
| 5 | Turbidity | 2.7 | NTU | NA | NA |
| 6 | Nitrate-N | 0.56 | mg/L | NA | NA |
| 7 | Nitrite-N | BDL | mg/L | NA | NA |
| 8 | Sodium | 3.76 | mg/L | NA | NA |
| 9 | Fluoride | 0.22 | mg/L | NA | NA |
| 10 | TDS | 79.0 | mg/L | NA | NA |
| 11 | Potassium | 1.24 | mg/L | NA | NA |
| 12 | Boron | 0.31 | mg/L | NA | NA |
| 13 | Sulphate | 28.79 | mg/L | NA | NA |
| 14 | Total Hardness | 80.0 | mg/L | NA | NA |
| 15 | Ca ⁺⁺ | 24.84 | mg/L | NA | NA |
| 16 | COD | BDL | mg/L | NA | NA |
| 17 | Total Phosphate | BDL | mg/L | NA | NA |
| 18 | Fecal Coliform | 17.0 | MPN/100ml | NA | NA |
| 19 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 20 | TSS | 38.0 | mg/L | NA | NA |

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

Report No: 17262224/W-20214

11/11/2025

ISSUED TO: LUHRI HEP Stage I
Administrative Buildong, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand
Distt.Kullu anni, H.P.172023

Sample received on: **29/10/2025**
Description of sample: **Hand Pump Nirath**

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|--------------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | Total Phosphate | BDL | mg/L | NA | NA |
| 2 | pH | 8.14 | - | NA | NA |
| 3 | Turbidity | 2.5 | NTU | NA | NA |
| 4 | Nitrate-N | 1.12 | mg/L | NA | NA |
| 5 | Nitrite-N | BDL | mg/L | NA | NA |
| 6 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 7 | TSS | 23.0 | mg/L | NA | NA |
| 8 | Sodium | 3.52 | mg/L | NA | NA |
| 9 | Fluoride | 0.15 | mg/L | NA | NA |
| 10 | TDS | 87.0 | mg/L | NA | NA |
| 11 | Potassium | 2.04 | mg/L | NA | NA |
| 12 | Boron | 0.17 | mg/L | NA | NA |
| 13 | Sulphate | 16.24 | mg/L | NA | NA |
| 14 | Total Hardness | 90.0 | mg/L | NA | NA |
| 15 | Ca++ | 32.86 | mg/L | NA | NA |
| 16 | COD | BDL | mg/L | NA | NA |
| 17 | Conductivity | 133.8 | microsiemens/cm | NA | NA |
| 18 | DO | Not Reported | mg/L | NA | NA |
| 19 | Fecal Coliform | 6.8 | MPN/100ml | NA | NA |
| 20 | BOD | BDL | mg/L | NA | NA |

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

Report No: 17262230/W-20224

11/11/2025

ISSUED TO: LUHRI HEP Stage I
Administrative Buildong, LHEP-I, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand

Distt.Kullu anni, H.P.172023

Sample received on: **29/10/2025**

Description of sample: **River Satluj D/s Dam before conf. with Bhera Khad**

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | COD | BDL | mg/L | NA | NA |
| 2 | pH | 8.36 | - | NA | NA |
| 3 | Conductivity | 137.2 | microsiemens/cm | NA | NA |
| 4 | DO | 8.9 | mg/L | NA | NA |
| 5 | Fecal Coliform | 24.0 | MPN/100ml | NA | NA |
| 6 | BOD | BDL | mg/L | NA | NA |
| 7 | Turbidity | 2.3 | NTU | NA | NA |
| 8 | Nitrate-N | 0.82 | mg/L | NA | NA |
| 9 | Nitrite-N | BDL | mg/L | NA | NA |
| 10 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 11 | TSS | 49.0 | mg/L | NA | NA |
| 12 | Sodium | 4.16 | mg/L | NA | NA |
| 13 | Fluoride | 0.21 | mg/L | NA | NA |
| 14 | TDS | 85.0 | mg/L | NA | NA |
| 15 | Potassium | 1.53 | mg/L | NA | NA |
| 16 | Boron | 0.28 | mg/L | NA | NA |
| 17 | Sulphate | 31.66 | mg/L | NA | NA |
| 18 | Ca++ | 24.44 | mg/L | NA | NA |
| 19 | Total Phosphate | BDL | mg/L | NA | NA |
| 20 | Total Hardness | 70.0 | mg/L | NA | NA |

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

Report No: 17262233/W-20211

11/11/2025

ISSUED TO: LUHRI HEP Stage I
Administrative Buildong, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand
Distt.Kullu anni, H.P.172023

Sample received on: **29/10/2025**
Description of sample: **Bhera Khad**

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | COD | BDL | mg/L | NA | NA |
| 2 | pH | 8.04 | - | NA | NA |
| 3 | Conductivity | 169.5 | microsiemens/cm | NA | NA |
| 4 | DO | 9.7 | mg/L | NA | NA |
| 5 | Fecal Coliform | 20.0 | MPN/100ml | NA | NA |
| 6 | BOD | BDL | mg/L | NA | NA |
| 7 | Turbidity | 1.6 | NTU | NA | NA |
| 8 | Nitrate-N | 0.98 | mg/L | NA | NA |
| 9 | Nitrite-N | BDL | mg/L | NA | NA |
| 10 | Sodium | 3.42 | mg/L | NA | NA |
| 11 | Fluoride | 0.17 | mg/L | NA | NA |
| 12 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 13 | TDS | 104.0 | mg/L | NA | NA |
| 14 | Potassium | 2.04 | mg/L | NA | NA |
| 15 | Boron | 0.18 | mg/L | NA | NA |
| 16 | Sulphate | 15.41 | mg/L | NA | NA |
| 17 | Total Hardness | 87.0 | mg/L | NA | NA |
| 18 | Ca++ | 28.85 | mg/L | NA | NA |
| 19 | Total Phosphate | BDL | mg/L | NA | NA |
| 20 | TSS | 19.0 | mg/L | NA | NA |

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

Report No: 17262244/W-20216

11/11/2025

ISSUED TO: LUHRI HEP Stage I
Administrative Buildong, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand

Distt.Kullu anni, H.P.172023

Sample received on: **29/10/2025**

Description of sample: **River Satluj D/s after conf. with Bhera Khad**

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | Total Phosphate | BDL | mg/L | NA | NA |
| 2 | pH | 7.72 | - | NA | NA |
| 3 | COD | BDL | mg/L | NA | NA |
| 4 | Conductivity | 172.6 | microsiemens/cm | NA | NA |
| 5 | Total Hardness | 75.0 | mg/L | NA | NA |
| 6 | DO | 9.0 | mg/L | NA | NA |
| 7 | Fecal Coliform | 17.0 | MPN/100ml | NA | NA |
| 8 | BOD | BDL | mg/L | NA | NA |
| 9 | Turbidity | 1.6 | NTU | NA | NA |
| 10 | Nitrate-N | 0.69 | mg/L | NA | NA |
| 11 | Nitrite-N | BDL | mg/L | NA | NA |
| 12 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 13 | TSS | 30.0 | mg/L | NA | NA |
| 14 | Sodium | 3.89 | mg/L | NA | NA |
| 15 | Fluoride | 0.21 | mg/L | NA | NA |
| 16 | TDS | 104.0 | mg/L | NA | NA |
| 17 | Potassium | 1.28 | mg/L | NA | NA |
| 18 | Boron | 0.25 | mg/L | NA | NA |
| 19 | Sulphate | 28.73 | mg/L | NA | NA |
| 20 | Ca++ | 25.65 | mg/L | NA | NA |

Dr Rajender Kumar , SO
RL Shimla





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

Report No: 17945185/W-21964

13/02/2026

ISSUED TO: LUHRI HEP Stage I
Administrative Building, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand
Distt.Kullu anni, H.P.172023

Sample received on: **30/01/2026**
Description of sample: **River Satluj U/s Dam Site**

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | pH | 8.39 | - | NA | NA |
| 2 | Conductivity | 256.4 | microsiemens/cm | NA | NA |
| 3 | Fecal Coliform | <1.8 | MPN/100ml | NA | NA |
| 4 | BOD | 2.0 | mg/L | NA | NA |
| 5 | Turbidity | 26.9 | NTU | NA | NA |
| 6 | Nitrate-N | 1.16 | mg/L | NA | NA |
| 7 | Nitrite-N | BDL | mg/L | NA | NA |
| 8 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 9 | TSS | 49.0 | mg/L | NA | NA |
| 10 | Sodium | 6.69 | mg/L | NA | NA |
| 11 | COD | 5.2 | mg/L | NA | NA |
| 12 | Total Phosphate | BDL | mg/L | NA | NA |
| 13 | Sulphate | 41.90 | mg/L | NA | NA |
| 14 | Ca ⁺⁺ | 31.66 | mg/L | NA | NA |
| 15 | Fluoride | 0.19 | mg/L | NA | NA |
| 16 | TDS | 162.0 | mg/L | NA | NA |
| 17 | Potassium | 3.25 | mg/L | NA | NA |
| 18 | Boron | 0.26 | mg/L | NA | NA |

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

Report No: 17945187/W-21959

13/02/2026

ISSUED TO: LUHRI HEP Stage I
Administrative Building, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand

Distt.Kullu anni, H.P.172023

Sample received on: 30/01/2026

Description of sample: River Satluj TRT of Luhri HEP

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | Conductivity | 207.2 | microsiemens/cm | NA | NA |
| 2 | Fecal Coliform | <1.8 | MPN/100ml | NA | NA |
| 3 | BOD | 1.9 | mg/L | NA | NA |
| 4 | Turbidity | 22.6 | NTU | NA | NA |
| 5 | Nitrate-N | 1.30 | mg/L | NA | NA |
| 6 | Nitrite-N | BDL | mg/L | NA | NA |
| 7 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 8 | TSS | 53.0 | mg/L | NA | NA |
| 9 | COD | 4.8 | mg/L | NA | NA |
| 10 | Sulphate | 30.89 | mg/L | NA | NA |
| 11 | Boron | 0.28 | mg/L | NA | NA |
| 12 | Total Phosphate | BDL | mg/L | NA | NA |
| 13 | Ca ⁺⁺ | 28.05 | mg/L | NA | NA |
| 14 | pH | 8.14 | - | NA | NA |
| 15 | Sodium | 6.60 | mg/L | NA | NA |
| 16 | Fluoride | 0.21 | mg/L | NA | NA |
| 17 | TDS | 120.0 | mg/L | NA | NA |
| 18 | Potassium | 3.31 | mg/L | NA | NA |

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

Report No: 17945189/W-21962

13/02/2026

ISSUED TO: LUHRI HEP Stage I
Administrative Building, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand
Distt.Kullu anni, H.P.172023

Sample received on: **30/01/2026**
Description of sample: **Hand Pump Nirath**

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | Conductivity | 352.4 | microsiemens/cm | NA | NA |
| 2 | Fecal Coliform | <1.8 | MPN/100ml | NA | NA |
| 3 | BOD | BDL | mg/L | NA | NA |
| 4 | Turbidity | 10.6 | NTU | NA | NA |
| 5 | Nitrate-N | 0.63 | mg/L | NA | NA |
| 6 | Nitrite-N | BDL | mg/L | NA | NA |
| 7 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 8 | TSS | 5.0 | mg/L | NA | NA |
| 9 | Sodium | 9.23 | mg/L | NA | NA |
| 10 | Fluoride | 0.16 | mg/L | NA | NA |
| 11 | TDS | 222.0 | mg/L | NA | NA |
| 12 | COD | BDL | mg/L | NA | NA |
| 13 | Total Phosphate | BDL | mg/L | NA | NA |
| 14 | Sulphate | 50.76 | mg/L | NA | NA |
| 15 | Ca ⁺⁺ | 57.71 | mg/L | NA | NA |
| 16 | pH | 7.76 | - | NA | NA |
| 17 | Potassium | 4.07 | mg/L | NA | NA |
| 18 | Boron | 0.20 | mg/L | NA | NA |

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

Report No: 17945191/W-21960

13/02/2026

ISSUED TO: LUHRI HEP Stage I
Administrative Building, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand
Distt.Kullu anni, H.P.172023

Sample received on: 30/01/2026

Description of sample: River Satluj D/s Dam before conf. with bhera khad

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | pH | 7.84 | - | NA | NA |
| 2 | Conductivity | 210.3 | microsiemens/cm | NA | NA |
| 3 | Fecal Coliform | 4.0 | MPN/100ml | NA | NA |
| 4 | Turbidity | 21.8 | NTU | NA | NA |
| 5 | Nitrate-N | 1.48 | mg/L | NA | NA |
| 6 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 7 | TSS | 44.0 | mg/L | NA | NA |
| 8 | Sodium | 6.67 | mg/L | NA | NA |
| 9 | Fluoride | 0.19 | mg/L | NA | NA |
| 10 | TDS | 134.0 | mg/L | NA | NA |
| 11 | Potassium | 3.29 | mg/L | NA | NA |
| 12 | Boron | 0.29 | mg/L | NA | NA |
| 13 | COD | BDL | mg/L | NA | NA |
| 14 | Total Phosphate | BDL | mg/L | NA | NA |
| 15 | Sulphate | 35.40 | mg/L | NA | NA |
| 16 | Ca++ | 29.65 | mg/L | NA | NA |
| 17 | BOD | BDL | mg/L | NA | NA |
| 18 | Nitrite-N | BDL | mg/L | NA | NA |

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

Report No: 17945193/W-21961

13/02/2026

ISSUED TO: LUHRI HEP Stage I
Administrative Building, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand
Distt.Kullu anni, H.P.172023

Sample received on: **30/01/2026**
Description of sample: **Bhera khad**

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | Nitrate-N | 1.23 | mg/L | NA | NA |
| 2 | Nitrite-N | BDL | mg/L | NA | NA |
| 3 | TSS | 50.0 | mg/L | NA | NA |
| 4 | Sodium | 6.90 | mg/L | NA | NA |
| 5 | Fluoride | 0.17 | mg/L | NA | NA |
| 6 | TDS | 118.0 | mg/L | NA | NA |
| 7 | COD | 4.8 | mg/L | NA | NA |
| 8 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 9 | Potassium | 3.30 | mg/L | NA | NA |
| 10 | Boron | 0.21 | mg/L | NA | NA |
| 11 | Total Phosphate | BDL | mg/L | NA | NA |
| 12 | Sulphate | 37.51 | mg/L | NA | NA |
| 13 | Ca ⁺⁺ | 27.25 | mg/L | NA | NA |
| 14 | Conductivity | 203.5 | microsiemens/cm | NA | NA |
| 15 | pH | 7.98 | - | NA | NA |
| 16 | Fecal Coliform | 12.0 | MPN/100ml | NA | NA |
| 17 | BOD | 1.4 | mg/L | NA | NA |
| 18 | Turbidity | 24.2 | NTU | NA | NA |

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

Report No: 17945195/W-21951

13/02/2026

ISSUED TO: LUHRI HEP Stage I
Administrative Building, LHEP-1, Village Bayal P.O .Koyal, Tehsil Nirmand, District
Kullu, Nirmand
Distt.Kullu anni, H.P.172023

Sample received on: 30/01/2026

Description of sample: River Satluj D/s after conf. with Bhera Khad

| SAMPLING PARAMETERS | | | | | |
|---------------------|--------------------|---------|-----------------|-------------------|------------------------|
| Sr. No. | Parameter Name | Results | Units | Permissible Limit | Remark/Result Analysis |
| 1 | pH | 8.31 | - | NA | NA |
| 2 | Conductivity | 204.5 | microsiemens/cm | NA | NA |
| 3 | Fecal Coliform | 17.0 | MPN/100ml | NA | NA |
| 4 | BOD | 2.4 | mg/L | NA | NA |
| 5 | Nitrate-N | 1.21 | mg/L | NA | NA |
| 6 | Nitrite-N | BDL | mg/L | NA | NA |
| 7 | Ammonical Nitrogen | BDL | mg/L | NA | NA |
| 8 | TSS | 55.0 | mg/L | NA | NA |
| 9 | Sodium | 6.64 | mg/L | NA | NA |
| 10 | COD | 8.8 | mg/L | NA | NA |
| 11 | Total Phosphate | BDL | mg/L | NA | NA |
| 12 | Sulphate | 31.81 | mg/L | NA | NA |
| 13 | Ca++ | 31.26 | mg/L | NA | NA |
| 14 | Turbidity | 19.6 | NTU | NA | NA |
| 15 | Fluoride | 0.23 | mg/L | NA | NA |
| 16 | TDS | 125.0 | mg/L | NA | NA |
| 17 | Potassium | 3.31 | mg/L | NA | NA |
| 18 | Boron | 0.32 | mg/L | NA | NA |

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