



# एसजेवीएन लिमिटेड

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

## कार्यालय:

कार्यकारी निर्देशक,  
निगमित पर्यावरण विभाग,  
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जिला शिमला, हिमाचल प्रदेश -171006  
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संख्या: SJVN/CHQ/ENV/F38/2023-160

दिनांक: 29/11/2023

To

**Member Secretary,  
River Valley and Hydroelectric Projects,  
MoEF&CC, Govt. of India,  
Indira Paryavaran Bhawan, Jor Bagh,  
New Delhi - 110003**

E-mail: [yogendra78@nic.in](mailto:yogendra78@nic.in)

**Sub: Six Monthly Monitoring Report on Compliance to Environmental Aspects  
(For period April, 2023 - September, 2023) i.r.o Sunni Dam HEP (382 MW),  
Himachal Pradesh.**

**Ref: EC Identification No.: EC22A003HP169821; Letter No.: J-12011/14/2017-IA-I  
(R) dated 04 February 2022; Proposal No.: IA/HP/RIV/63789/2017**

Sir,

Kind reference is invited to above referred endorsement vide which Sunni Dam HEP (382 MW) of SJVN in Shimla and Mandi Districts (Himachal Pradesh) was granted Environment Clearance by MoEF&CC. As per EIA notification 2006 and Environment Clearance condition no. X (iv), 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.

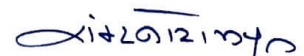
Therefore, Six-Monthly Monitoring Report on Compliance to Environmental Aspects (for the period of April, 2023- September, 2023) is submitted for your kind information please.

संलग्नक: यथोपरि।

सधन्यवाद,

भवदीय,

एसजेवीएन लिमिटेड के लिए,

  
(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](mailto:iro.shimla-mefcc@gov.in)

Website: [www.sjvn.nic.in](http://www.sjvn.nic.in)

**Six Monthly Compliance Report for April 2023- Sep 2023 period**

1	<b>Conditions imposed by the Ministry of Environment &amp; Forest, GoI while granting environment clearance vide letter No. F.No. J-12011/14/2017-IA.I (R)</b>	
S. No.	<b>Conditions Imposed</b>	<b>Compliance Status</b>
A	Environmental Management and Biodiversity Conservation	
i	The Environmental Management Plan (EMP) shall be strictly adhered to as submitted in the EIA/EMP reports. The budgetary provisions for implementation of EMP, shall be fully utilized and not to be diverted to any other purpose. In case of revision of the project cost or due to price level change, the cost of EMP shall also be updated proportionately.	Noted please
ii	In pursuit to the Ministry OM dated 30.09.2020, the Environment Management Plan (EMP) shall be revised considering the commitments made to address concern during public consultation. Activities proposed shall be made part of EMP under local area development plan to be submitted to the Ministry.	Needful done. The same was apprised vide letter no. SJVN/CC/ENV/F-38/138 dated 07.01.2022. (Copy attached at <i>Annexure-I</i> ).
iii	Conservation plan prepared for schedule I species shall be implemented with approval of concerned CWLW.	Wildlife Conservation Plan for Schedule-I species was submitted to PCCF (Wildlife) on 05.01.2021. Same is under approval. Provision of Rs. 105 Lakhs has been kept against the Wildlife and Biodiversity Management Plan. Further, additional measures have been kept in the CAT plan. The plan is already submitted to CWW and is under approval stage.
iv	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 complied.
v	Recommendations of the Cumulative Impact Assessment and Carrying capacity study of Satluj River Basin Study shall be followed while implementing the project.	Being ensured
vi.	Possibility of fish pass/ladder for migration of fish shall be explored in consultation with CIFRI/WII.	The project envisages construction of 71 m high concrete gravity Dam. Because of 71 m dam height, possibility of fish ladder/fish pass is not feasible. The fish management plan of project was reviewed in 5th EAC meeting held on 30 December 2020, wherein after detailed deliberation, provision has been kept for developing fish hatcheries by State Fisheries Department. (Request Letter submitted for corrigendum in EC is placed at <i>Annexure-II</i> ).
B	Socio-economic Study	
vii	Land acquired for the project shall be suitably compensated in accordance with the law of the land with the prevailing guidelines. Private land shall be acquired as per provision of Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013.	Land is being acquired by State Govt. in accordance to provision of <i>Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act, 2013</i> and compensated accordingly.

C	Disaster management	
viii	Necessary control measures such as water sprinkling arrangement at all construction sites etc. And construction of paved roads leading to muck disposal sites shall be taken up on priority to arrest fugitive dust.	Being complied
ix	Muck carrying trucks shall be equipped with GPS and valid PUC certificate. Monitoring mechanism for muck transportation shall be put in place and be implemented under the supervision of Project Head.	Noted please and will be complied.
x	Stabilization of muck disposal sites using biological and engineering measures shall be taken 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.	Shall be complied
D	Miscellaneous	
xi	Stage I Forest Clearance shall be submitted for the total forest land (397.8863 ha) involved in the project prior to grant of Environmental Clearance.	Stage I Forest Clearance granted by MoEF&CC vide File No.8-07/202.1-EC dated 22.12.2021 and the same stand submitted before grant of EC. (copy placed at <b>Annexure-III</b> ).
xii	After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment. The study shall be undertaken by an independent agency.	Shall be complied
xiii	Necessary permission to be obtained for quarrying construction materials, if any required, for the project as per EIA Notification 2006 and as amended thereof	EC for Quarry site has also been obtained by SEIAA, HP on dated 16.05.2023 (copy placed at <b>Annexure-IV</b> )
xiv	Real time monitoring of e-flows to be done in consultation with State PCB or any other institution.	Noted please
	<b>Standard EC condition for River Valley and Hydroelectric projects</b>	
<b>I</b>	<b>Statutory compliance</b>	
i	The project proponent shall obtain forest clearance under the provision of Forest (Conservation) Act, 1980, in case of the diversion of forest land and for non-forest purpose involved in the project.	Forest Clearance Stage-II has been granted by MoEF&CC vide File No.8-07/2021-FC dated 23.08.2022. (Copy placed at <b>Annexure-V</b> ). Supreme Court permission has also been obtained.
ii.	The project proponent shall obtain clearance from the National Board for wildlife, if applicable.	Not applicable
iii.	The project proponent shall prepare a site-specific conservation plan & wildlife management plan and approved by Chief Wildlife Warded. The recommendation 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 six monthly compliance report. (In case of the presence of schedule-I species in the study area).	Noted please. The plan is already submitted to CWW and yet to be approved by the same.
iv.	The project proponent shall obtain Consent to Establish/Operate under the provision of Air (prevention & control of Pollution) Act, 1981 and the Water (prevention & control of Pollution) Act, 1974 from the concerned State Pollution Board/Committee.	CTE for the project has been obtained from HP SPCB vide consent no. CTE/BOTH/NEW/RO/ 2022/621 1030 dated 06.08.2022 (copy placed at <b>Annexure-VI</b> ). The renewal of CTE has also been applied on 05.08.2023

v.	NOC shall be obtained from National Commission of Seismic Design parameters (NCSDS) of CWC.	The approval communicated by CWC vide letter no. /2/2017 (vol-1)/FE&SA/145 dated 11.03.2019 (Copy placed at <b>Annexure-VII</b> ).
vi	Necessary approval of CEA shall be obtained for those projects having the project cost more than 1,000 crores.	Techno-Economic Clearance (TEC) from CEA obtained vide letter no. 2/HP/58/CEA/2017-PAC/97-135 dated 11.02.2021 (copy placed at <b>Annexure-VIII</b> ).
<b>II Air quality monitoring and preservation</b>		
i.	Regular monitoring of various environmental parameters viz. Water Quality, Ambient Air Quality and Noise levels as per the' CPCB guidelines at the 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 baseline data for the post construction ETA/ Monitoring purposes.	Being Complied. Monitoring reports are attached as <b>Annexure IX</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 complied.
iii.	Necessary control measures such as water sprinkling arrangements, etc. Be taken up to arrest fugitive dust at all the construction sites.	Being complied.
<b>III Water quality monitoring and preservation</b>		
i.	Conjunctive use of surface water to be planned in the project to check water logging as well as to increase crops productivity. The field drains shall be connected with all-natural drainage system.	Not applicable, the proposed project shall be strictly used for Hydropower generation and not for irrigation facilities.
ii.	Remodeling of existing natural drains (link rains) and connecting them with irrigated land through constructed field drains, collector drains, etc. Are to be ensured on priority basis	Not applicable, the proposed project shall be strictly used for Hydropower generation and not for irrigation facilities.
iii	Before impounding the water, Cofferdams for both at the upstream and downstream are to be decommissioned as per the 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.	Noted please
iv	As the reservoir will be acting as balancing reservoir and there would be fluctuation of water level during the peaking period, efforts be made to reduce impact on the aquatic life including impacts during spawning period both at the upstream and downstream of the project.	Noted please
v.	Water depth sensors shall he installed as 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.	Noted please
vi.	Mixed irrigation shall be practiced and necessary awareness be given to all the farmers and trained in the use of such system. Proper crops selection shall be carried out for making irrigation facility more	Not applicable, as on the proposed project is for Hydropower generation and not for irrigation facilities.

	effective.	
vii.	On farm development (OFD) work like landscaping, drainage facilities, field irrigation channels and farm roads, etc. Should be taken up in phased manner prior to the start of irrigation in entire command area. The command Area Development plan should be strictly implemented as proposed in the EIA/EMP report.	Not applicable, as on the proposed project is for Hydropower generation and not for irrigation facilities.
<b>IV</b>	<b>Noise monitoring and prevention</b>	
i.	All the equipment likely to generate high noise shall be appropriately enclosed or inbuilt 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.	Noted please
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 70 db (A) during night time.	Noted please. Monitoring result attached as <b>Annexure IX</b>
<b>V</b>	<b>Catchment area treatment plan</b>	
i.	Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be implemented in synchronization with the construction of the project.	Noted please. CAT Plan cost of Rs. 38.34 Cr has been deposited in compliance to FC-I condition.
<b>VI</b>	<b>Waste management</b>	
i.	Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites re inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.	Noted please. Muck Utilization and reuse details attached as <b>Annexure X.</b>
ii.	Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead by used for various purposes as envisaged in the EIA/EMP reports Efforts be made to avoid one time use of plastics.	Noted please
<b>VII</b>	<b>Green Belt, EMP Cost, Fisheries and Wildlife Management</b>	
i.	Based on the recommendation of Cumulative Impact assessment and Carrying capacity study of river basin or as per the for conditions or minimum 15% of the average flow of four consecutive leanest months, whichever value is higher, shall be released as environmental flow.	Noted please
ii.	Detailed information on species composition particular to fish species from previous study/literature be inventoried and proper management	Detailed Fish Management Plan has been prepared by State Fisheries Department. An amount of INR 191 lakhs has already

	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.	been deposited with State Fisheries Deptt. for implementation of same.
iii.	Wildlife Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department.	Not applicable as the nearest Wildlife Sanctuary is approximately 7 km away from the project.
iv.	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 complied
v.	Compensatory afforestation programme shall be implemented as per the plan approved.	A letter requesting the status of CA has been sent to Forest Department vide letter no SJVN/SDHEP/Envt & Forest-03/2023-723-26 dated 19.06.2023. (Copy placed at <b>Annexure-XI</b> ) In response to our letter, it has been informed by Karsog Forest Division, that the work of CA is in progress. (Copy of letter attached at <b>Annexure-XII</b> ).
vi.	Fish ladder/pass as envisaged in the EIA/EMP report shall be provided for migration of fishes. Regular monitoring of this facility be carried out to ensure its effectiveness.	The project envisages construction of 71 m high concrete gravity Dam. Because of 71 m dam height, possibility of fish ladder/fish pass is not feasible. The fish management plan of project was reviewed in 5th EAC meeting held on 30 December 2020, wherein after detailed deliberation, provision has been kept for developing fish hatcheries by State Fisheries Department.
<b>VIII Public hearing and Human health issues</b>		
i.	Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.	Being complied. The R&R plan is to be implemented by State Govt. The same has been approved by both the district vis. Shimla & Mandi. The R&R cost has also been deposited by SJVN with concerned State authority. <b>Annexure XIII</b>
ii.	Budget provisions made for the community and social development plan including community welfare schemes shall be implemented in to.	Noted please
iii	Preventive measures viz, fumig and spraying of mosquito control shall be done in and around the labor 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.	Noted please
iv	Provision shall be made for the housing of construction laborer within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Noted please
v	Labour force to be engaged for construction woks shall be examined thoroughly and adequately treated	Noted please

	before issuing them work permit. Medical facilities shall be provided at the construction site.	
vi	Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of flood forecast.	Noted please
vii.	Emergency preparedness plan be made for any eventuality of the dam failure and shall be implemented as per the Dam Breaks Analysis.	Noted please
<b>IX</b>	<b>Corporate environment responsibility</b>	
i.	Skill mapping be undertaking for the youths of the affected project area and based on the skill mapping, necessary training to the youths be provided for their long-time livelihood generation.	Noted please.
ii.	The company shall have a well laid down environmental policy duly approve by the board of directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any information/deviation/violation of the environmental /forest/wildlife norms/conditions. The company shall have defined system of reporting infringements /deviation/violation of the environmental/forest /wildlife norms/conditions and/ or shareholder. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six - monthly report.	SJVN has a well laid down environment policy duly approved by the Board of Directors.
iii.	A separate environmental cell both at the project and company head quarter level, with qualified personnel shall be set under the control of senior executive, who will directly to the head of organization.	A separate Environment cell at the project and company head quarter level with qualified personnel has already been established.
iv	Action plan for implementing EMP and Environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wish funds Earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose of implementation of action plan shall be reported to the ministry / regional office along with the six-monthly compliance report.	Noted please
v	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.	Noted please
vi	Multi - disciplinary committee (mdc) be constituted with experts from ecology forestry, wildlife, sociology, soil conservation, fisheries, NGO etc. To oversee implementation of various environmental guards proposed in EIA/EMP report during construction of the project. The monitoring report of the committee shall be uploaded in the website of the company.	Noted please
vii	Formation of water user association / Co- operative be made involvement of the whole community be ensured for discipline use of available water for	Not applicable, the proposed project shall be strictly used for Hydropower generation and not for irrigation facilities.

	irrigation purposes.	
<b>X</b>	<b>Miscellaneous</b>	
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 5 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.	Needful done
ii.	The copies of the environmental clearance shall be submitted by the project proponents of the heads of local bodies, panchayats and municipal bodies in addition to the relevant offices of the government who in turn has display the same for 30 days from the date of receipt.	Needful done
iii.	The project proponent shall upload the status of compliance of the stipulate environment clearance conditions, including results of monitored data on their website and update the same on half yearly basis.	Being complied
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 Complied. Last six-monthly was submitted on 01.06.2023.
v.	The project proponent shall submit the environmental statement or each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently and put on the website of the company.	Being Complied. The Environment Statement Form-V for the FY 2022-23 has been submitted in Sep 2023. <b>Annexure XIV.</b>
vi	The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project. vii. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government. viii. The project proponent shall abide by all the commitments and recommendations made in the EJA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	The investment approval for the project has been accorded by Govt. of India and the same has been communicated to the concerned authorities vide letter no. SJVN/ SDHEP/Envt.&Forest/F-02/2023-652 dated 06.02.2023. Other stipulations & commitments shall be complied.
vii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted please
viii	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted please
ix	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted please

x	The ministry reserve the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted please
xi	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 please.
xii	The above condition shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Noted please
xiii	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 please



एसजेवीएन लिमिटेड

मिनी-ग्रुप बिड्यूल 'A' पीएफए  
निगमित पर्यावरण विभाग

IS/ISO 9001:2015 Certified

RJVNACCHINVA/001/38

कार्यालय:

राज्यकारी निर्देशक,  
निगमित पर्यावरण विभाग,  
राजि सदन, रावावा,  
फ़िरोजा निगला, शिवालय प्रदेश - 171096  
दूरध्वनी नं. - 0177-2660180  
मिेल: sjvn.ec@nic.in  
sjvn.ec@nic.in

Dated: 07/01/2021

To

Member Secretary,  
River Valley and Hydroelectric Projects,  
MoEF&CC, Govt. of India,  
Indira Paryavaran Bhawan, Jor Bagh,  
New Delhi - 110003  
E-mail: [yogendra78@nic.in](mailto:yogendra78@nic.in)

Subject: Environment Clearance l.r.o Sunni Dam HEP (382 MW): Submission of response to Additional Details Sought (ADS) dated 14.01.2021.

Sir,

This is with reference to your e-mail dated 07.01.2021 in respect of Sunni Dam HEP (Proposal No. IA/HP/RIV/63789/2017) vide which it was requested to provide reply of ADS dated 14.01.21. In this regard, point-wise reply to ADS dated 14.01.2021 is given below:


S.No	Conditions vide letter dated 14.01.2021	Reply
1	Submission of Stage-I Forest Clearance to Ministry for grant of Environment Clearance	Stage - I FC has been accorded by MoEF&CC on 22.12.2021 (Copy enclosed)
2	Commitment made during Public Hearing be made part of EMP under Local Area Development Plan	Revised Local Area Development Plan incorporating commitments made during public hearing submitted to MoEF&CC on 05.01.2021 (Copy enclosed)
3	Extension of validity of EC recommendation.	Stage-I FC letter submitted within one year. Hence, not required.
4	Proof of conservation plan for Schedule-I species	Copy of Wildlife Conservation Plan submitted to PCCF (Wildlife) on 05.01.2021. (Copy enclosed).
5	Water Availability approval from CWC	Copy of CWC letter dated 10.07.2017 enclosed.

Therefore, it is requested to kindly issue the letter for Environment Clearance l.r.o Sunni Dam HEP (382 MW) at the earliest.

Yours sincerely,

(V. Sankaranarayanan)  
Executive Director  
Corporate Environment Department

Documents Attached: As above

	<b>एसजेवीएन लिमिटेड</b> भिनी रत्न शिड्यूल 'A' पीएसयू निगमित पर्यावरण विभाग	कार्यालय: कार्यकारी निर्देशक, निगमित पर्यावरण विभाग, शक्ति एन. अनाम, बिना शिपला, हिमाचल प्रदेश - 171006 टेलीफोन नं- 0177-2660135 ईमेल: <a href="mailto:environment@sjvn.co.in">environment@sjvn.co.in</a>
		S.JVN/CC/ENV/F38/173 ISO 9001:2015 Certified Dated: 22/02/2023

To

Member Secretary,  
 River Valley and Hydroelectric Projects,  
 MoEF&CC, Govt. of India,  
 Indira Paryavaran Bhawan, Jor Bagh,  
 New Delhi - 110003  
 E-mail: [yogendra78@nic.in](mailto:yogendra78@nic.in)

Subject: Corrigendum in Environment Clearance (EC) of Sunni Dam HEP - Regarding.

Sir,

This is with reference to Letter No. J-12011/14/2017-IA-I (R) dated 04.02.2022 (EC Identification No.: EC22A003HP169821) vide which Environment Clearance (EC) was granted to Sunni Dam HEP (Annexure-I) with certain conditions. In this regard, while going through these conditions some modifications are required to be made which are being tabulated below:

S. No	Condition No.	Conditions	Modification Required
1	4. [A] vi.	Possibility of fish pass/ladder for migration of fish shall be explored in consultation with CIFRI/WII.	The project envisages construction of a 71 m. high concrete gravity dam with dam toe powerhouse on the right bank of Satluj river in Shimla and Mandi districts of Himachal Pradesh and NOC from Directorate of Fisheries, GoHP was issued on 14.06.2018. Because of 71 m dam height, possibility of a fish ladder/pass is unfeasible. As per IS 11223-1985, dams greater than 30 m. are considered as large dams (Annexure-2). Furthermore, as per CWC guidelines for maintaining longitudinal connectivity through dams; in dams where fish ladder/bypass channel/lift, etc. is not suitable due to technical constraint of height and site topography, other conservation measures such as creation of fish hatchery/fish farm may be considered (Annexure-3). Accordingly, due to topographical and technical limitations, reservoir fisheries/fish stockings were proposed in the project instead of fish ladder in discussion with State Fisheries Department. The same was also discussed and reviewed during the EAC meeting held on 30 December 2020 (Annexure-4).
2	5. VII. vi.	Fish ladder/pass as envisaged in the EIA/EMP report shall be provided for migration of fishes. Regular monitoring of this facility be carried out to ensure its effectiveness.	

			<i>It is therefore proposed that the said conditions may be deleted.</i>
3	5. III. i.	Conjunctive use of surface water to be planned in the project to check water logging as well as to increase crops productivity. The field drains shall be connected with natural drainage system.	This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.  <i>Therefore, said condition is proposed to be deleted.</i>
4	5. III. ii.	Remodelling of existing natural drains (link drains) and connecting them with irrigated land through constructed field drains, collected drains, etc. are to be ensured on priority basis.	This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.  <i>Therefore, said condition is proposed to be deleted.</i>
5	5. III. vi	Mixed irrigation shall be practised and necessary awareness be given to all the farmers and trained in the use of such systems. Proper crops selection shall be carried out for making irrigation facility more effective.	This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.  <i>Therefore, said condition is proposed to be deleted.</i>
6	5. III. vii.	On Farm Development (OFD) works like landscaping, land levelling, drainage facilities, field irrigation channels and farm roads, etc. should be taken up in phased manner prior to the start of irrigation in the entire command area. The Command Area Development Plan should be strictly implemented as proposed in the EIA/EMP report.	This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.  <i>Therefore, said condition is proposed to be deleted.</i>
7	5. IX. vii.	Formation of Water User Association/Co-operative be made involvement of the whole community be ensured for discipline use of available water for irrigation purposes.	This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.  <i>Therefore, said condition is proposed to be deleted.</i>

It is requested that MoEF&CC may take cognizance of the above observations and issue necessary corrigendum to EC in favour of the project, please.

Yours sincerely,

*for*  
**(V. Sankaranarayanan)**  
 Executive Director  
 Head of Department (Environment)  
 Corporate Headquarters,  
 SJVN Limited

Enclosures: As above

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

Indira Paryavaran Bhawan  
Jorbagh Road, Aliganj  
New Delhi - 110 003

Dated: 23<sup>rd</sup> August, 2022

To

The Principal Secretary (Forests)  
Government of Himachal Pradesh  
Shimla

**Sub: Proposal for seeking prior approval of the Central Government under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 397.8863 ha forest land in favour of SJVN Ltd for the construction of Sunni Dam Hydroelectric Project (382 MW) within the jurisdiction of Shimla, Kotgarh and Karsog Forest Divisions, in District Shimla and Mandi, Himachal Pradesh (ONLINE PROPOSAL NO. FP/IF/HYD/31019/2017)-regarding**

Madam/Sir,

I am directed to refer to the Government of Himachal Pradesh's online proposal no. FP/IF/HYD/31019/2017 dated 24.02.2021, Letter No. No.Ft.48-3705/2017 (FCA) dated 06<sup>th</sup> July, 2021 and letter No. Ft. 48-3705/2017 (FCA) dated 26.10.2021 seeking prior approval of the Central Government under section-2 of the Forest (Conservation) Act, 1980 on the above mentioned subject. After careful examination of the proposal by the Forest Advisory Committee, constituted under Section-3 of the said Act, '*in-principle*' approval to the proposal under the said Act, was granted vide this Ministry's letter of even number dated 22.12.2021 subject to fulfillment of certain conditions prescribed therein. The State Government has furnished compliance report in respect of the conditions stipulated in the '*in-principle*' approval and has requested the Central Government to grant final approval.


In this connection, I am directed to say that on the basis of the compliance report furnished by the State Government vide letter no. F 5-53/2016/10-2 dated 10.02.2022, E-mail dated 02.03.2022, vide letter dated 09.06.2022 and 13.07.2022, the '*final-approval*' of the Central Government is hereby granted under Section-2 of the Forest (Conservation) Act, 1980 for non-forestry use of 397.8863 ha forest land in favour of SJVN Ltd. for the construction of Sunni Dam Hydro Electric Project (382 MW) within the jurisdiction of Shimla, Kotgarh and Karsog Forest Divisions, in District Shimla and Mandi, Himachal Pradesh, subject to following conditions:

**A. Conditions which need to be complied with before handing over of forest land to the user agency by the State Forest Department:**

1. The State Govt shall ensure the complete compliance of FRA, 2006; It should also be ensured that the FRA certificate issued by District collector is complete with letter number, date, name, signature and official seal, as required in the certificate;

  
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- 2 The User Agency shall implement the R&R Plan as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF & CC along with indicators for monitoring and expected observable milestones.
  - 3 The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required
  - 4 The proposed forest land shall be handed over to the User Agency only when the User Agency has acquired the required non-forest land, if any, for the project:
- B. Conditions which need to be complied on field after handing over of forest land to the user agency by the State Forest Department:**
- 1 Legal status of the diverted forest land shall remain unchanged;
  - 2 The State Government shall ensure that compensatory afforestation over degraded-forest Govt. land, double in extent, to the forest land being diverted, shall be raised by the State Forest Department at the project cost within three years from the date of grant of Stage - II approval and maintained thereafter as per approved plan by the State Forest Department at the cost of the User Agency; and;
  - 3 The trees of girth more than 60 cm should not be felled and their enumeration list should be submitted to the IRO Shimla and to local forest officials.
  - 4 The State Government shall ensure that Soil and Moisture Conservation (SMC) activities in the CA land shall be implemented along with the CA schemes from the funds already deposited by the user agency;
  - 5 The State Government has realized the NPV of the forest area diverted under this proposal from the User Agency as per the Judgment of the Hon'ble Supreme Court of India dated 28.03.2008 & 09.05.2008 in IA No. 566 in WP (C) No. 202/1995 and guidelines issued by this Ministry in this regard. Additional NPV if becomes due as per final order of Hon'ble Supreme Court, shall be paid by the User Agency;
  - 6 Compensatory levies for this project, if any, to be realized in future from the User Agency, shall be deposited to into the account of CAMPA of the State concerned through e-portal (<https://parivesh.nic.in>);
  - 7 Provisions of Catchment Area Treatment Plan, as approved by competent authority of the State, shall be implemented by user agency/Forest Department at project cost;
  - 8 The State Government shall ensure that the safety measures, engineering structures and instrumentation, as suggested by IIT (ISM) Dhanbad, should be strictly followed;
  - 9 The State Government shall ensure that the user agency should preserve the top soil of the excavated area so that proper reclamation of the site could be achieved;
  - 10 The State Government shall ensure that the bio-reclamation of the area should be done with suitable species of grasses, shrubs and trees, in close coordination with the forest department;
  - 11 Water from the reservoir shall be provided free of cost to the Forest Department for raising and maintenance of plantations, and nurseries around the site wherever required;
  - 11 The user agency shall undertake afforestation along the periphery of reservoir and canals, as applicable;
  - 12 The user agency shall carry out muck/silt disposal at designated sites in such a manner so as to avoid its rolling down;

  
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- 13 The dumping area of muck/silt disposal shall be stabilized and reclaimed by planting suitable species by the user agency at project cost under the supervisions the State Forest Department. Retaining walls and terracing shall be carried out to hold the dumping material in place. Stabilization and reclamation of such dumping sites shall be completed before handing over the same to the Forest Department in a time bound manner;
- 14 The land identified for the purpose of CA shall be clearly depicted on a Survey of India toposheet of 1:50,000 scale;
- 15 The State Government and user agency shall ensure that trees available between full reservoir level (FRL) level and FRL-4 meters are not felled;
- 16 The User Agency shall implement the R&R Plan as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF&CC along with indicators for monitoring and expected observable milestones;
- 17 The user agency shall explore the possibility of translocation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too in a phase wise manner and under the strict supervision of the State Forest Department;
- 18 The State Govt. and the user agency shall ensure that no labour camp shall be established on the forest land;
- 19 The State Government shall ensure that no additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;
- 20 The State Government and the User agency shall ensure water discharge in downstream of the project to maintain minimum environmental flow;
- 21 The State Govt. shall ensure that the User Agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas;
- 22 The State Government shall ensure that the user agency in consultation with the State Forest Department shall create and maintain alternate habitat/home for the avifauna, whose nesting trees are to be cleared in this project. Bird nests artificially made out of Eco-friendly materials shall be used in the area, including forest area and human settlements, adjoining the forest area being diverted for the project;
- 23 The State Govt. and the user agency shall ensure that the layout plan of the proposal shall not be changed without the prior approval of the Central Government;
- 24 The State Govt. and the user agency shall ensure that the forest land shall not be used for any purpose other than that specified in the proposal;
- 25 The State Government shall ensure that the boundary of the diverted forest land shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing and distance from pillar to pillar;
- 26 The State Govt. and the user agency shall ensure that no damage to the flora and fauna of the adjoining area shall be caused;
- 27 The State Govt. and the user agency shall ensure that the forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or


  
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**File No.8-07/2021-FC**

person without prior approval of the Central Government,

- 28 The layout plan of the proposal shall not be changed without the prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal;
- 29 The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less,
- 30 Any other condition that the concerned Regional Office of this Ministry may stipulate with the approval of competent authority in the interest of conservation, protection and development of forests & wildlife; and
- 31 Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5 2/2017-FC dated 28.03.2019;
- 32 The State Govt. shall ensure that the user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines & Hon'ble Court Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project; and
- 33 The State Govt. shall ensure that the User Agency shall submit the annual self compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and this Ministry by the end of March every year;

Yours sincerely,

  
(Suneet Bhardwaj) 23/08/2021

Asst. Inspector General of Forests (FC)

Copy to: -

1. The PCCF (HoFF), Government of Himachal Pradesh, Shimla.
2. The Regional Officer, Integrated Regional Office, Shimla.
3. The Addl. PCCF cum Nodal Officer (FCA), Government of Himachal Pradesh, Shimla.
4. User Agency.
5. Monitoring Cell, FC Division, MoEF & CC, New Delhi.
6. Guard File.

ENVIRONMENTAL  
CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)

Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), Himachal Pradesh)

To,

The Add General Manager  
SJVN SHIMLA  
Village Bithal, PO- Samthala Tehsil Kumarsain, Shimla -172029

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/HP/MIN/79205/2021 dated 30 Jun 2022. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23B001HP110660
2. File No.	HPSEIAA/2022/961
3. Project Type	New
4. Category	B1
5. Project/Activity including Schedule No.	1(a) Mining of minerals
6. Name of Project	Proposed Minor Mineral Lease for Stone of Area 10.1529 Heclare
7. Name of Company/Organization	SJVN SHIMLA
8. Location of Project	Himachal Pradesh
9. TOR Date	12 Oct 2021

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 16/05/2023

(e-signed)  
D.C. Rana  
Member Secretary  
SEIAA - (Himachal Pradesh)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*

This has a reference to your proposal No. SIA/HP/MIN/79205/2022 submitted online for grant of Environment Clearance. The proposal has been appraised as per prescribed procedure in the light of provisions under the Environment Impact Assessment Notification, dated 14<sup>th</sup> September 2006 on the basis of documents viz: Form-I, Pre-feasibility Report, EIA/EMP etc by the State Expert Appraisal Committee constituted by the competent authority in its 87<sup>th</sup> meeting held on 28<sup>th</sup> Dec., 2022 with following features:

- |   |  |
|---|--|
| a. Online SEIAA Proposal No.                    | : SIA/HP/MIN/65903/2021 HP SEIAA/2021-854 (TORs)<br>SIA/HP/MIN/79205/2022 HP SEIAA/2022-961 (EC)   |
| b. Name & Address                               | : Extraction of Stone  |
| c. Project Location with Khasra Number          | : Khasra number 360/1 & 536/363/1 falling in Mauza/MohalKhaira, Tehsil-Sunni, Distt - Shimla, HP.  |
| d. Jamabandi                                    | : Jamabandi for the year 2013-2014   |
| e. Land Status                                  | : Government Land.   |
| f. Project Capacity                             | : 44,12,821 Tones for 5 years.   |
| g. Mining Area                                  | : 10-15-29 Ha, Government land.  |
| h. Leases within 500 mtrs.                      | : -  |
| i. Letter of Intent                             | : Letter of Intent issued on dated 18.08.2021<br>LOI extended upto 1/7/2023.   |
| j. Working Plan                                 | : Strictly as per Working-cum-Environment Management Plan approved by Geological Wing of Industries Department, Himachal Pradesh.  |
| k. Proposed EMP Costs                           | : Rs 1.04 Crore. (under EMP)<br>Rs 1.00 Crore. (under CER)   |
| l. Proposed CER Costs                           | : As per the Additional Condition imposed at Sr. No. L (1).  |
| m. Institutional Mechanisms for Env. Protection | : The following will be responsible for maintenance of APCDs and Solid Waste Management sites:<br>i) Construction phase: Developer/ Project Proponent.<br>ii) Operational Phase: Developer/ Project Proponent. |
| n. Validity period of EC                        | : 5 Years or upto the date of valid mining plan whichever is earlier.  |

The SEIAA examined the proposal in its 60<sup>th</sup> meeting held on 17<sup>th</sup> Feb., 2023 and considered the recommendations made by SEAC in its 87<sup>th</sup> meeting held on 28<sup>th</sup> Dec., 2022. After considering the recommendations of the State Level Expert Appraisal Committee, the State level Environmental Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA Notification No. S.O. 1533 dated 14<sup>th</sup> September, 2006 of Ministry of Environment & Forests, Govt subject to strict compliance of terms and conditions as mentioned below. The Authority reserves the right to revise, revoke or impose additional condition at any stage.

**A. Statutory Compliance**

- 1 This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 2 The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- 3 The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2<sup>nd</sup> August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- 4 This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- 5 This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- 6 Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- 7 The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- 8 The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it
- 9 The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No Z-11013/57/2014-IA II (M), dated 29<sup>th</sup> October, 2014, titled - Impact of mining activities on Habitations-Issues related to the mining Projects where in Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area].
- 10 The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- 11 A copy of EC letter will be marked to concerned Panchayat / local NGO etc if any, from whom suggestion / representation has been received while processing the proposal.

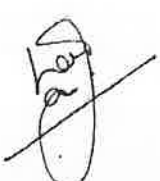
- 12 State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- 13 The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change ([www.parivesh.nic.in](http://www.parivesh.nic.in)). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
- 14 The Project Proponent shall inform the SEIAA for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

**B. Air Quality Monitoring And Preservation**

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

**C. Water quality monitoring and preservation**

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



- 6 Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC & SEIAA annually.
- 7 Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- 8 The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC, SEIAA and State Pollution Control Board/Committee

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

1. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
2. The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.
3. The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

**E. Mining plan**

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

**F. Land reclamation**

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

development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.

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

#### G. Transportation

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

#### H. Green Belt

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

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

1. The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office, SEIAA and DGMS on half-yearly basis.

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

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

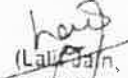
1. The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual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

**K. Miscellaneous**

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

L. Additional Conditions

- 1 The project proponent shall deposit an amount of Rs. 1.00 Crore under CER in the form of Demand Draft to the office of Director (DEST), GOHP within 15 days. The Director (DEST) shall devise environment monitoring plan for this purpose within one month for that area including spring shed management.
- 2 The project proponent shall sensitize and create awareness among people working within the project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report being submitted by the project proponents.
- 3 The project proponent shall not disturb the existing natural spring and shall protect it as per the revised mining plan and given buffer zone from the spring source as per requirement of local communities as raised during public hearing. The project proponent shall take action as per the spring revival plan prepared in anticipation of the impact of mining on ground water sources and shall ensure all measures to recharge the natural spring and conserve it.
- 4 The project proponent, before start of mining operations, shall install CCTV cameras on the mining site covering all angles of mining site including entry & exit points. These cameras shall be theft and tamper proof. Where electricity/power is not available solar energy based cameras shall be installed with adequate battery backups. Date-wise video records w.r.t. CCTV camera shall be hosted & stored online and online portal link shall be shared with the office of Director-cum-Member Secretary, HPSEIAA through official e-mail dbt-hp@nic.in.
- 5 Proposed approach road will be realigned and should not be permitted from upward side hill. As it will disturb the spring shed & existing bawari/natural spring. The approach road be constructed 20 meter downside the natural spring.
- 6 Natural spring will be protected by constructing step stone wall (without using concrete) from upside hill as proposed during the site visit. During construction natural geology of the area shall not be disturbed in any manner.
- 7 Mining activity is strictly prohibited at least upto 100 meters upside hill of the existing bawari/natural spring and a buffer zone of 30 meters from existing natural spring shall be left as no mining area from all sides.
- 8 Mining shall be done manually. No blasting shall be applied in mining process.
- 9 Project proponent shall not cut or destroy existing old trees of Terminalia bellirica species known as baheda and other shrubs, trees of Bombax ceiba known as simbal tree or cotton tree located in and around the Bawari/Spring Source.
- 10 The project proponent to undertake plantation with more trees of existing local species to maintain spring shed & soil moisture in and around the spring source.
- 11 These conditions to be monitored on quarterly basis by DEST and the project proponent to comply with the conditions strictly. Compliance report shall be submitted quarterly after the starting of mining activities.

  
(Lal Jain, IAS)  
Member Secretary  
State Level Environment Impact Assessment Authority  
Himachal Pradesh

Dated: 2023

Encls. No. As Above

Copy to following for further necessary action:

- 1 The Secretary (Environment), Ministry of Environment, Forests & Climate Change (MoEF&CC), Govt. Indra Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003.
- 2 The Chairman, Central Pollution Control Board, Him Parivesh Bhawan, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032.
- 3 The Chairman, Himachal Pradesh State Pollution Control Board, Shimla-171009.
- 4 The Director (Environment, Science & Technology) to the GoHP, Shimla-171001.
- 5 The Adviser (IA), MoEF&CC, Govt. Indra Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003.
- 6 The Integrated Regional Office, MoEF&CC, CGO Complex, Shivalik Khand, Longwood, Shimla, HP-171001.
- 7 The Monitoring Cell, MoEF&CC, Govt. Indra Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003.
- 8 Record File.

  
(Lal Jain, IAS)  
Member Secretary  
State Level Environment Impact Assessment Authority  
Himachal Pradesh

Signature Not Verified

Digitally signed by Sh. D.C. Rana  
Member Secretary

Date: 5/16/2023 4:07:04 PM

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

Indira Paryavaran Bhawan  
Jorbagh Road, Aliganj  
New Delhi - 110 003

Dated: 23<sup>rd</sup> August, 2022

To

The Principal Secretary (Forests)  
Government of Himachal Pradesh  
Shimla

**Sub: Proposal for seeking prior approval of the Central Government under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 397.8863 ha forest land in favour of SJVN Ltd for the construction of Sunni Dam Hydroelectric Project (382 MW) within the jurisdiction of Shimla, Kotgarh and Karsog Forest Divisions, in District Shimla and Mandi, Himachal Pradesh (ONLINE PROPOSAL NO. FP/HP/HYD/31019/2017)- regarding**


Madam/Sir,

I am directed to refer to the Government of Himachal Pradesh's online proposal no. FP/HP/HYD/31019/2017 dated 24.02.2021; Letter No. No.Fl.48-3705/2017 (FCA) dated 06<sup>th</sup> July, 2021 and letter No. Fl. 48-3705/2017 (FCA) dated 26.10.2021 seeking prior approval of the Central Government under section-2 of the Forest (Conservation) Act, 1980 on the above mentioned subject. After careful examination of the proposal by the Forest Advisory Committee, constituted under Section-3 of the said Act, '*in-principle*' approval to the proposal under the said Act, was granted vide this Ministry's letter of even number dated 22.12.2021 subject to fulfillment of certain conditions prescribed therein. The State Government has furnished compliance report in respect of the conditions stipulated in the '*in-principle*' approval and has requested the Central Government to grant final approval.

In this connection, I am directed to say that on the basis of the compliance report furnished by the State Government vide letter no. F 5-53/2016/10-2 dated 10.02.2022, E-mail dated 02.03.2022, vide letter dated 09.06.2022 and 13.07.2022, the '*final-approval*' of the Central Government is hereby granted under Section-2 of the Forest (Conservation) Act, 1980 for non-forestry use of 397.8863 ha forest land in favour of SJVN Ltd. for the construction of Sunni Dam Hydro Electric Project (382 MW) within the jurisdiction of Shimla, Kotgarh and Karsog Forest Divisions, in District Shimla and Mandi, Himachal Pradesh, subject to following conditions:

**A. Conditions which need to be complied with before handing over of forest land to the user agency by the State Forest Department:**

1. The State Govt. shall ensure the complete compliance of FRA, 2006; It should also be ensured that the FRA certificate issued by District collector is complete with letter number, date, name, signature and official seal, as required in the certificate;

  
23/08/2022

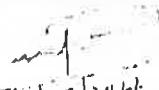
- 2 The User Agency shall implement the R&R Plan as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF & CC along with indicators for monitoring and expected observable milestones.
- 3 The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required
- 4 The proposed forest land shall be handed over to the User Agency only when the User Agency has acquired the required non-forest land, if any, for the project;

**B. Conditions which need to be complied on field after handing over of forest land to the user agency by the State Forest Department:**

- 1 Legal status of the diverted forest land shall remain unchanged;
- 2 The State Government shall ensure that compensatory afforestation over degraded-forest Govt. land, double in extent, to the forest land being diverted, shall be raised by the State Forest Department at the project cost within three years from the date of grant of Stage - II approval and maintained thereafter as per approved plan by the State Forest Department at the cost of the User Agency; and;
- 3 The trees of girth more than 60 cm should not be felled and their enumeration list should be submitted to the IRO Shimla and to local forest officials.
- 4 The State Government shall ensure that Soil and Moisture Conservation (SMC) activities in the CA land shall be implemented along with the CA schemes from the funds already deposited by the user agency;
- 5 The State Government has realized the NPV of the forest area diverted under this proposal from the User Agency as per the Judgment of the Hon'ble Supreme Court of India dated 28.03.2008 & 09.05.2008 in IA No. 566 in WP (C) No. 202/1995 and guidelines issued by this Ministry in this regard. Additional NPV if becomes due as per final order of Hon'ble Supreme Court, shall be paid by the User Agency;
- 6 Compensatory levies for this project, if any, to be realized in future from the User Agency, shall be deposited to into the account of CAMPA of the State concerned through e-portal (<https://parivesh.nic.in>);
- 7 Provisions of Catchment Area Treatment Plan, as approved by competent authority of the State, shall be implemented by user agency/Forest Department at project cost;
- 8 The State Government shall ensure that the safety measures, engineering structures and instrumentation, as suggested by IIT (ISM) Dhanbad, should be strictly followed;
- 9 The State Government shall ensure that the user agency should preserve the top soil of the excavated area so that proper reclamation of the site could be achieved;
- 10 The State Government shall ensure that the bio-reclamation of the area should be done with suitable species of grasses, shrubs and trees, in close coordination with the forest department,
- 11 Water from the reservoir shall be provided free of cost to the Forest Department for raising and maintenance of plantations, and nurseries around the site wherever required;
- 11 The user agency shall undertake afforestation along the periphery of reservoir and canals, as applicable;
- 12 The user agency shall carry out muck/silt disposal at designated sites in such a manner so as to avoid its rolling down;

  
1 of 12/21

- 13 The dumping area of muck/silt disposal shall be stabilized and reclaimed by planting suitable species by the user agency at project cost under the supervision of the State Forest Department. Retaining walls and terracing shall be carried out to hold the dumping material in place. Stabilization and reclamation of such dumping sites shall be completed before handing over the same to the Forest Department in a time bound manner.
- 14 The land identified for the purpose of CA shall be clearly depicted on a Survey of India toposheet of 1:50,000 scale.
- 15 The State Government and user agency shall ensure that trees available between full reservation level (FRL) level and FRL + 4 meters are not felled.
- 16 The User Agency shall implement the R&R Plan as per the R&R Policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work and implementation. The said R&R Plan will be monitored by the State Government/Regional Office of MoEF&CC along with indicators for monitoring and expected observable milestones;
- 17 The user agency shall explore the possibility of translocation of maximum number of trees identified to be felled and shall ensure that any tree felling shall be done only when it is unavoidable and that too in a phase wise manner and under the strict supervision of the State Forest Department;
- 18 The State Govt. and the user agency shall ensure that no labour camp shall be established on the forest land;
- 19 The State Government shall ensure that no additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;
- 20 The State Government and the User agency shall ensure water discharge in downstream of the project to maintain minimum environmental flow;
- 21 The State Govt. shall ensure that the User Agency shall provide fuels preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas;
- 22 The State Government shall ensure that the user agency in consultation with the State Forest Department shall create and maintain alternate habitat/home for the avifauna, whose nesting trees are to be cleared in this project. Bird nests artificially made out of Eco-friendly materials shall be used in the area, including forest area and human settlements, adjoining the forest area being diverted for the project;
- 23 The State Govt. and the user agency shall ensure that the layout plan of the proposal shall not be changed without the prior approval of the Central Government;
- 24 The State Govt. and the user agency shall ensure that the forest land shall not be used for any purpose other than that specified in the proposal;
- 25 The State Government shall ensure that the boundary of the diverted forest land shall be demarcated on ground at the project cost, by erecting four feet high reinforced cement concrete pillars, each inscribed with its serial number, forward and back bearing and distance from pillar to pillar;
- 26 The State Govt. and the user agency shall ensure that no damage to the flora and fauna of the adjoining area shall be caused;
- 27 The State Govt. and the user agency shall ensure that the forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or

  
20/12/2021

person without prior approval of the Central Government:

28. The layout plan of the proposal shall not be changed without the prior approval of the Central Government and the forest land shall not be used for any purpose other than that specified in the proposal;
29. The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less;
30. Any other condition that the concerned Regional Office of this Ministry may stipulate with the approval of competent authority in the interest of conservation, protection and development of forests & wildlife; and
31. Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. S-2/2017-FC dated 28.03.2019;
32. The State Govt. shall ensure that the user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines & Hon'ble Court Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project; and
33. The State Govt. shall ensure that the User Agency shall submit the annual self compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and this Ministry by the end of March every year;

Yours sincerely,

  
(Suneet Bhardwaj)  
23/03/2022

Asst. Inspector General of Forests (FC)

Copy to: -

1. The PCCF (HoFF), Government of Himachal Pradesh, Shimla.
2. The Regional Officer, Integrated Regional Office, Shimla.
3. The Addl. PCCF cum Nodal Officer (FCA), Government of Himachal Pradesh, Shimla.
4. User Agency.
5. Monitoring Cell, FC Division, MoEF & CC, New Delhi.
6. Guard File.

**H.P. STATE POLLUTION CONTROL BOARD**  
 HMT PARIVESH, PHASE-III, NEW BHIMLA-171009

HPSPCB No: 66

Date: 06/08/2022

Industry Registration ID: HP09A77301

Application No: 6/110/21

To,  
 Summit Dam HEP (382 MW)  
 Kaldam Colony, Summit  
 Summit  
 Shimla  
 171301

Subject: 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 '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/ROTH/NEW/RO/2022/6211030
Date of issue :	06/08/2022
Date of expiry :	05/08/2023
Certificate Type :	NEW
Previous CTE/CTO No. & Validity :	

2. Particulars of the Industry

Name & Designation of the Applicant	Swinder Pal Bansal, (Director)
Address of Industrial premises	Summit Dam HEP (382 MW), Kaldam Colony, Summit, Summit, Shimla-171301
Capital Investment of the Industry	261451.0 lakhs
Category of Industry	Resl
Type of Industry	1009-Power generation plant [except Wind and Solar renewable power plants of all capacities and Mini Hydro power plant of capacity <25MW]
Scale of the Industry	Large
Office District	Shimla
Capacity	

Raw Materials (Name with quantity per day)

Raw Materials	Quantity	Unit
River water	4116.31 Crore Cubic meter per year	Cubic Meter/Year
		K.G./Month

\*This is computer generated document from HP/PC/IMS\*  
 To verify this document please scan the QR Code.

*Handwritten notes:*  
 V.C.P.  
 Study  
 Record

Products (Name with quantity per day)

Name of Products	Unit	Quantity	Intermediate Product	Principal Use
HEP	MW	382	Water	Fulfillment of electricity requirement

Details of the Effluent Treatment Plant

Type of Effluent	Capacity(KLD)	Quantity(KLD)
STP	70	32

Mode of Disposal

Description	Quantity(In KLD)	Method of Treatment	Method of Disposal
Domestic	32	STP	Irrigation/Gardening

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	1	125 kVA	DG Set	Diesel	0.025 KL/ hour

Type of Air Pollution Control Devices installed

Equipment Type	Equipment Name	Date/proposed date of installation	Efficiency(%reduction)	Final concentration of pollution being emitted
Exhaust Muffler	DG Sets	Wed Jan 01 00:04:00 IST 2025	100%	0.072 kg/day of PM 10 , 1.296 kg/day of NO X and 0.77 kg/day of CO

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 , NOX, H 2 S, Cl, HCl etc. in mg/NM 3	Height of Vent/outlet/stack from ground level in meters
Stack	0.072 kg/day of PM 10 , 1.296 kg/day of NO X and 0.77 kg/day of CO	0.072 kg/day of PM 10 , 1.296 kg/day of NO X and 0.77 kg/day of CO	4.5 Mtr.

Anuroy Deygan, IAS  
Member Secretary  
For & on behalf of



(H. P. State Pollution Control Board)

Enst. No.:

Copy To:-

- 1. The Regional Officer, HPSPCB, Shimla for information and to ensure the operation of the unit as per consent conditions & with adequate pollution control devices.



Digitally signed  
 by APOORV  
 DEVGAN  
 Date:  
 2022.08.08  
 10:15:36 +05'30'

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

HOP SDHEP SUNNI  
 Dairly 7/6/8  
 Date. C.A. 08. 2022

*Handwritten signature and date: 23/08/2022*

HOP/SGM

Sr. AGM (Envr.)

CC: AGM (C)

CC: DGM (PP&M)

## 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-lets 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 ( $D_e$ ) shall be calculated from the following equation to determine upstream, downstream distance:-  

$$D_e = 2 LW / (L+W)$$
 Where L= length in mts. W= Width in mts.
- ii) The sampling port shall be 7 to 10 cm in diameter
- c) 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  
 $H = 14 (Q_p) / 30$   
 $H = 74 (Q_p) / 0.24$   
 Where  $Q_p$  = Quantity of SO<sub>2</sub> 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://hppeb.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(51)-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 order 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.
2. 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.

### SPECIAL CONDITIONS

- 1) The unit shall provide Real Time Online Continuous Flow Measurement System downstream the head works and connect it to the State Board server to ensure 15% minimum discharge of lean season before starting the production.
- 2) This consent has been issued considering the adequacy of the proposed pollution control devices and waste management systems/mechanism only.
- 3) This Consent of the State Board does not absolve the proponent of his responsibility to take pre-approvals / approvals / prior NOCs / NOCs from other depts. Agencies as the case may be, for the violation of which, the State Board bears No responsibility.



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



Himachal Pradesh  
State Pollution Control Board

# Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change  
Government of India



Home Consent Management Application Results E-Notification Scrutiny Status Scrutiny Presentation Login

- Apply For Consent
- Industry Profile
- Change Password
- Password Recovery Transactions
- Delete Inprogress Application
- View Notices



Water Pollution Control Board

**Send us your feedback and suggestions**

Click here to send your complaints or queries

### In-progress Application

Submitted Application

Application No	Application Date	Application For	Application Name	Application Type	Certificate For	Status	Scrutiny Status	Scrutiny Completion Date	Scrutiny By	Scrutiny's officer group
10232523	05-10-2022	both	Sunil Dam HEP 382 MW	CTE	renew	In-Progress	In-Progress		HPSPCB	RO-Shruti JEE-II



Sunni Dam HEP  
Updated DPR

Annexure - VII



भारत सरकार Government of India  
केंद्रीय जल आयोग Central Water Commission  
वीथ अभियंत्रिकी एवं विद्युत विभाग निदेशालय F. E. & S. A. Directorate  
आठवीं मंजिल (3), सेवा भवन ग कृ पुरम नई दिल्ली 110066  
8th Floor (N), Sewa Bhawan, R.K. Puram, New Delhi 110066  
दूरभाष / टिक्का Tel/Fax: 011-29583734 ई मेल /e-mail: fesadte-cwc@nic.in  
\*\*\*\*\*

No. 2/2/2017 (Vol-1)/FE&SA/115

Dated: 11/03/2019

To

Sr. Additional General Manager  
Corporate Head Quarter, Shanan,  
Shimla-171006(HP)  
Email: sajeev.gupta@sjvn.nic.in

**Sub: Site Specific Design Earthquake Parameters for Sunni Dam Hydro Electric Project,  
Himachal Pradesh - reg.**

**Ref: Your office letter no. SJVN/CC/CD/DH&OMP/182-820-23 dated 27.12.2018.**

Sir,

This is with reference to your aforesaid letter vide which the site specific seismic study report of the Sunni Dam Hydro Electric Project, Himachal Pradesh was submitted to the National Committee on Seismic Design Parameters (NCSDP) for approval.

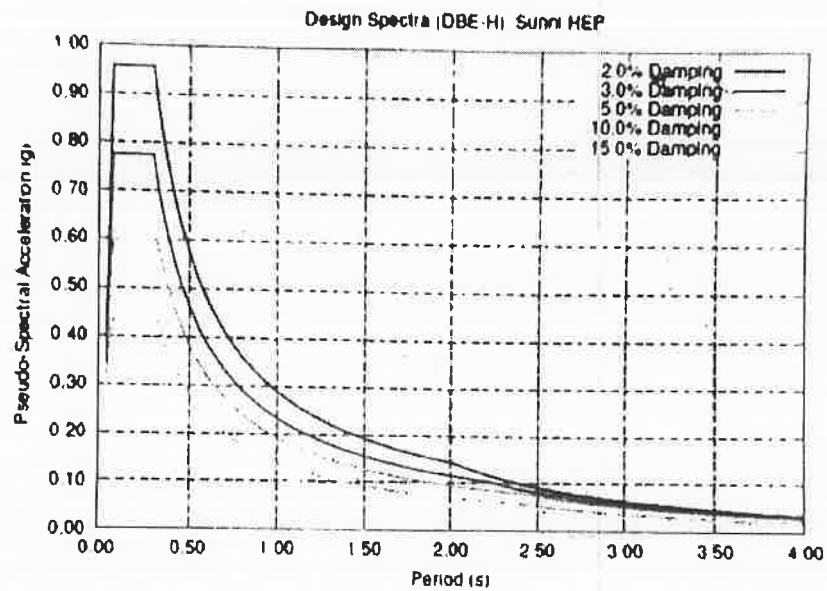
The NCSDP has approved study report of aforesaid project in its 34<sup>th</sup> meeting held on 26<sup>th</sup> February, 2019.

Contd.....



The seismic design parameters of Sunni Dam Hydro Electric Project, Himachal Pradesh summarized in the Minutes of the NCSDP meeting are reproduced below:

(a) Response Spectra (DBE-H)



(b) Other seismic parameters

Max. Credible Earthquake	8.0	Horizontal distance to surface projection of fault ( $R_{fs}$ ) (km)	5
Horizontal seismic co-efficient ( $\alpha_h$ )	0.24	Vertical seismic co-efficient ( $\alpha_v$ )	0.16
Strong motion duration (second)	9.6	Total duration (second)	48
Report reference	IIT Roorkee Report (EQ: 2018-21; Project No. EQD-6035/17-18, October, 2018)		

It is requested to do the needful for the safe design of the Sunni Dam Hydro Electric Project components as per NCSDP's approval.

Yours faithfully,

*(Signature)*  
11/12/2019  
(Goverdhan Prasad)  
Director (FE&SA) &  
Member Secy (NCSDP)



भारत सरकार  
Government of India  
विद्युत विभाग  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
जल विद्युत परियोजना आयोग  
Hydro Project Appraisal Division

No. 2417/S&C/EA/DIR/PA/7 (7) 1365

Date: 18.02.2021

OFFICE MEMORANDUM

Subject: Accord of Concurrence to Sonni Dam (1x73 MW+1x73 MW+1x17 MW= 382 MW) Hydro Electric Project in Himachal Pradesh by M/s SJVN Ltd. under section 8 of the Electricity Act, 2003-regarding;

M/s SJVN Ltd. submitted Detailed Project Report (DPR) of the Sonni Dam HEP (1x73 MW+1x73 MW+1x17 MW= 382 MW) in Himachal Pradesh to CEA vide letter dated 09.09.2019 for concurrence. Thereafter, the DPR was forwarded to various appraising groups of CEA, CWC, GSI, CSMRS, MoJS (erstwhile MoWR, RD&GR) for examination of respective aspects. After clearance from all appraising groups, the proposal was considered for accord of Concurrence in the Authority Meeting (No. 05/2020) of CEA held on 23.12.2020 through Video Conferencing (VC) based on the Agenda Note circulated vide CEA letter No. CEA-SY-25-12/2019-PAC Division dated 18.12.2020.

In exercise of the powers conferred to the Authority under Section 8 of the Electricity Act, 2003, the Central Electricity Authority accords Concurrence to the aforesaid Hydro Electric Project at an Estimated Cost of Rs. 2475.35 Crore (July 2020 PL) including IDC of Rs. 346.88 Crores & FC of Rs. 8.66 Crores with the following stipulations: -

The cost of the scheme as mentioned above is indicative and may change on account of following as per actual: -

- a) Price Escalation
- b) Change in Law
- c) Change in quantities (duly approved by competent authority) due to Geological Surprise.
- d) Foreign Currency Exchange Rate

2. The abstract of approved Project Cost along with the tentative Financial Package and details of Cost of Civil Works, E&M and AT&S (Associated Transmission System) Estimates, are furnished at Annex-I, I (A), I (B) and I (C) respectively. The Salient Features of the scheme are given at Annex-II.

3. This Concurrence is subject to fulfillment of the following conditions:



# Idma Laboratories Limited

## TEST REPORT

S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	21.7	Max. 100	IS 5182 (Part 9)
8	Benzene	$\mu\text{g}/\text{m}^3$	<2	Max. 05	IS 5182 (Part 11)
9	Benzo-a-Pyrene(BaP) - Particulate phase	$\text{ng}/\text{m}^3$	<0.9	Max. 01	IS 5182 (Part 12)
10	Arsenic	$\text{ng}/\text{m}^3$	<1	Max. 06	EPA/625/R-96/010a
11	Nickel	$\text{ng}/\text{m}^3$	<8	Max. 20	EPA/625/R-96/010a
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1.0	EPA/625/R-96/010a

Page No. 2/2

**\*\*End of Report\*\***



*sdh.*  
Authorised signatory



### Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase-I,

Panchkula-134113,

Haryana (India)

Tel No. 0172-5064827, 5064830

Website : [www.idmagroup.co.in](http://www.idmagroup.co.in)

Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	220523N-E-001	Page No. 1/2
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Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebrn, Chouki, Post- Khaira, Teh- Sunni Dist- Shimla Himachal Pradesh	
Type of Sample	Ambient Air	
Customer's Description of Sample	Ambient Air	
Quantity	1 No	
Packing, Markings	Filter Paper Packed in Polythene Pouch	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.	NIL	
Date of Receipt of Sample	22/05/2023	
Period of Analysis	22/05/2023 To 27/05/2023	
Sampling Team Idma	Idma Representative Team	
Sampling Location	Near Batching Plant	
Visual Observation	N/A	
Date of Sampling	20/05/2023	
Date of Reporting	27/05/2023	
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013	
Testing Protocol	NAAQS	

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	PM 10	µg/m <sup>3</sup>	90.2	Max: 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	42.3	Max: 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	14.2	Max: 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	22.8	Max: 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	26.2	Max: 400	IS 11255 (Part 6)
6	CO	mg/m <sup>3</sup>	0.57	Max: 02	IS 5182 (Part 10)
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				

**Idma Laboratories Limited**

Idma Corporate Park,

391, Industrial Area, Phase-I,

Panchkula-134113,

Haryana (India)

Tel No. 0172-5064827, 5064830

Website : [www.idmagroup.co.in](http://www.idmagroup.co.in)

Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

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condenser mode.

(xxvi) Revalidation of concurrence can also be considered, in case, the reason for delay in award of one of major civil packages (either of Dam/RT/Powerhouse) is beyond the control of developer. However, proposal for revalidation shall be submitted three months before the expiry of validity of the concurrence, which is three years from the date of issue of this Concurrence Memorandum.

(xxvii) Concurrence is subject to compliance by M/s SJVNL of various policies/guidelines etc. issued by Govt. of India from time to time.

(xxviii) M/s SJVNL shall comply strictly the "Public Procurement (Preference to make in India) Order, 2017 (PPP-MI Order)" issued by Department of Industrial Policy and Promotion, Ministry of Commerce & Industry, Govt. of India vide its letter no. P-15021/2/2017-3,15-11 dated 15.06.17. (Copy enclosed at Annex-XIII).

4. Monthly Status Report of compliance of the conditions stipulated under para 3 of the Concurrence letter shall be submitted by M/s. SJVNL to Chief Engineer (HPA), CEA. Monthly Progress Report of the project shall be submitted by M/s. SJVNL, to Hydro-Project Monitoring (HPM) Division of CEA. Three (3) copies of the half-yearly progress reports on both physical progress of the scheme and expenditure actually incurred, duly certified by statutory auditors shall be submitted to the Authority till the Commercial Operation Date of the plant. The project authorities shall give free accessibility to CEA officers and staff to have on the spot assessment of various aspects of the project.

6. Monthly status of the project from the date of Concurrence to date of Commercial Operation (COD) of the project shall be furnished by M/s. SJVNL to Chief Engineer (HPA), CEA as per the proforma enclosed at Annex-XIV.

7. The Authority reserves the right to revoke this Concurrence, if the conditions stipulated in this Office Memorandum are not complied with to the satisfaction of the Authority.

Annex: Annexures I, I(A), I(B), I(C), II, III, IV, V, VI, VII, VIII, IX, X, XI, XII, XIII & IV.

(V.R. Mishra)  
Secretary, CEA

To,  
As per list

1. Chairman-cum-Managing Director, M/s. SJV Ltd., Corporate Office Complex, Shyam, Shikha-171006 (HP)
2. Secretary, Ministry of Power, Govt. of India, Shyam Shakti Bhawan, Rafi Marg, New Delhi 110119.
3. Secretary, MoP&CC, Government of India, Parvawaran Bhawan, (CTO Complex, Lodi Road, New Delhi 110001.
4. Chairperson, Central Electricity Regulatory Commission, 3rd & 4th Floor, Chandertok Building, 36, Jampath, New Delhi-110001.
5. Chairperson, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
6. Chairperson, Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi - 110066.
7. Principal Secretary (MPP&Power), Department of Power, Government of Himachal Pradesh, Shimla-171002.
8. Chairman-cum-Managing Director, Power Grid Corporation of India Limited, Saurabhini, Plot No.2, Sector 29, Gurgaon - 122001 (Haryana).
9. Adviser (Energy), Neel Aayog, Vojana Bhawan, New Delhi - 110001.
10. Member (Hydro/Planning/Thermal) & Distribution/Economic & Commercial/Power Systems), CEA, Sewa Bhawan, R.K. Puram New Delhi - 110606.
11. Member (D&R), Central Water Commission, Sewa Bhawan, R. K. Puram, New Delhi 110066.
12. Joint Secretary (Hydro), Ministry of Power, Shyam Shakti Bhawan, Rafi Marg, New Delhi-110119.
13. Commissioner (Indus Wing), Ministry of Water Resources, RD&GR, 2<sup>nd</sup> Floor, Block-3, (CTO) Complex, Lodi Road, New Delhi-110003.
14. Chief Engineer (HPA/PSP&PA-1/F&CA/TC/D/Legal/IEPR/IEPR/HP&M/HE&TD), CEA, Sewa Bhawan, R.K. Puram, New Delhi - 110606.
15. Chief Engineer (PAO), (WC, Sewa Bhawan, R.K. Puram, New Delhi - 110066.
16. Chief Engineer, Design (NW&S), (WC, Sewa Bhawan, R.K. Puram, New Delhi 110066.
17. Director (IIM&EPF Division), Geological Survey of India, A-II, Pushpa Bhawan, Madanpuri Road, New Delhi - 110062.
18. Director, (CEMR&S, Chief Public Works, Banksias, New Delhi-110016.
19. Director (PA(1)/Technology)(M/D)(NW&S/1)(C)(NW&S)/E&S/AMSR/A-11W/1 (M/1)(Infrastructure), (WC, Sewa Bhawan, R.K. Puram, New Delhi - 110066.

(xxiii) M/s SJVNL shall ensure availability of adequate quantities of rock/sand from quarries/exposed muck/borrow areas to meet the requirement of coarse & fine aggregates for both wearing & non wearing surfaces.

(xxiv) Fly ash and fly ash based products shall be used in the construction of various works to the extent possible in accordance with MoEF notification dated 14.09.1999 and its amendment dated 27.08.2003 and as revised on 06.11.2008. Construction material surveys shall include the required investigations for use of fly ash and fly ash based products in various works, infrastructure facilities etc. and their feasibility shall be ascertained by M/s SJVNL.

(xxv) M/s SJVNL shall submit the final updated DPR to the concerned State Government/ appropriate Electricity Regulatory Commission and the Transmission Utility under intimation to the Authority. M/s SJVNL shall also forward a copy of final updated DPR to co-basin States and Indus wing of MoES under intimation to the Authority.

(xxvi) Information in respect of typing up essential inputs/statutory clearances, results of investigations/studies shall be submitted by M/s SJVNL to CEA/CWC/CESI/CSMRS on receipt of same from time to time.

(xxvii) The broad technical aspects of the project proposal in the project report have been scrutinized in TEA in consultation with CWC, GSI, CSMRS and other concerned agencies. The scrutiny is based on the data, assessment and certificates presented in the report and information/recommendations received as compliances to the observations on the assumption that the data and information furnished are accurate and have been collected reliably by the project authorities from dependable sources and/or after carrying out detailed surveys and investigations as presented in the report.

(xxviii) Project is scheduled to be completed within 63 months from the zero date of OPE June, 2021.

ii) Unit wise commissioning schedule of the project is given below:

- Unit-I (73 MW) : 61 months
- Unit-II (73 MW) : 61 months
- Unit-III (73 MW) : 62 months
- Unit-IV (73 MW) : 62 months
- Unit-V (73 MW) : 63 months
- Unit-VI (17 MW) : 63 months

(xxix) In case time gap between consecutive awarded to the scheme by TEA and M/s SJVNL, in three years or more, a fresh concurrence of TEA shall be obtained by M/s SJVNL.

(xxx) The project developer has to approach TEA to seek connectivity/own Term Agreement (TEA) as per CERC regulations at least five years before the anticipated commissioning of the project. The transmission system for the project would be lined up after grant of TEA, as per CERC Regulations. The developer must



- (xvii) M/s SJVNL shall comply with the conditions as mentioned in the Ministry of Water Resources, RD&GR (now Ministry of Jal Shakti) letter no. 1501/1/2015-PP dated 13.12.2015 (the corrected letter as forwarded by MoWR, RD&GR, vide letter no. 1501/1/2015 PP dated 27.12.2016, copy attached in Annexure-VII) for project design and shall ensure adequate flow for different months as prescribed by MORTREX particularly during lean months and longitudinal connectivity.
- (xviii) As per ISM-2 Doc. (WC) letter dated 15.10.2019, there should not be any consumptive use of water as no allocation of Satij water has been made to State of Himachal Pradesh as per Thiruvananthapuram Agreement, 1959 and other conditions mentioned in HSMII letter dated 13.01.2012 (copy enclosed in Annex-VIII).
- (xix) If any impact on wild life is observed, M/s SJVNL, would obtain clearance from National Board of Wild Life and shall submit the same to CEA.
- (xx) If Scheduled Tribe population is getting affected at project site, clearance under Forest Right Act/Ministry of Social Justice & Empowerment/ Ministry of Tribal Affairs, Govt of India/State Government shall be obtained by M/s SJVNL and shall submit the same to CEA.
- (xxi) M/s SJVNL shall take appropriate precautions to avert flooding of powerhouse by adopting measures listed in Annexure - IX.
- (xxii) M/s SJVNL shall take appropriate preventive measures of Disaster Management in case of Dam failure or sudden release of water as per conditions contained in Annex-X.
- (xxiii) M/s SJVNL shall obtain the clearance from Ministry of Defence & shall comply with the conditions stipulated therein.
- (xxiv) M/s SJVNL shall obtain clearance from Ministry of Home Affairs regarding participation of foreign companies in tender works packages and shall comply with the conditioned stipulated therein.
- (xxv) M/s SJVNL have obtained clearance from International angle from Ministry of Water Resources, RD&GR (now Ministry of Jal Shakti) vide letter no. 1901/1/2015-T/1027-30 Dated 13.03.2018. M/s SJVNL shall comply with the condition stipulated in the clearance letter (copy attached in Annex-XI).
- (xxvi) M/s SJVNL shall comply with the guidelines for participation of foreign companies in tendering for work packages of Hydro Electric Project in sensitive areas, issued by Ministry of Power vide No. 271/300-T/0(NHPC) Vol. II, dated 01.09.09 appended in Annex-XII.
- (xxvii) M/s SJVNL shall deploy modern tools / software for construction monitoring of the project by establishing IT based monitoring systems and linking the same to CEA network.

M/s SJVNL shall comply to the suggestions/observations of Central Water Commission (CWC) on aspects of Hydrology, Dam Design, Hydel Civil Design, Foundation Engineering & Seismic Aspects and Inter-State etc. as given in Annex -III and as incorporated in the final DPR.

(ii) M/s SJVNL shall comply to the suggestions/observations of Central Electricity Authority (CEA) on aspects of ERM design & Power Transmission etc as given in Annex - IV and as incorporated in the final DPR.

(iii) M/s SJVNL shall comply to the suggestions/observations of GST as given in Annex-V and as incorporated in the final DPR. M/s SJVNL shall complete balance explorations/investigations, if any, as suggested by GST. Rules of explorations/investigations shall be communicated from time to time for concurrence of CEA/CWC/GST regularly, cost for changes required consequent to investigations shall be absorbed by M/s SJVNL.

(iv) M/s SJVNL shall comply to the suggestions/observations of Central Soil & Materials Research Station (CSMRS) on construction material & technical aspects as given in Annex - VI and as incorporated in the final DPR. M/s SJVNL shall complete balance explorations/investigations and should be submitted for review and the progress of all the pending investigations must be reported periodically to CSMRS & CEA.

(v) In case, any change in e-flows is suggested by MoEF&CC in future, M/s SJVNL shall review the installed capacity & design energy of the project and furnish the same for appraisal to CEA before commencement of construction of the project. For projects where construction already started/commissioned, M/s SJVNL shall review the design energy and furnish the same for appraisal of CEA.

Further, M/s SJVNL shall also review the design energy based on revised hydrology on commissioning of the project and thereafter at interval of every 10 years and furnish the same for appraisal of CEA.

(vi) In case geological surprises in underground works are met, M/s SJVNL shall systematically maintain a record of geological surprises, those are encountered. At the same time, M/s SJVNL shall request the State Govt. to constitute an expert committee consisting of representatives from State Govt., GST, CWC, CEA etc. Once a committee is constituted, M/s SJVNL shall submit their proposal for the enhanced cost to the expert committee, which in time shall examine and recommend impact on the cost thereof.

(vii) M/s SJVNL shall use the seismic design parameters approved by National Committee on Seismic Design Parameters (NCSDP) for design purposes.

(viii) In case, changes are made in design parameters, during construction, due to site conditions or otherwise, the same shall be intimated and get consent from the Authority (CEA) before M/s SJVNL implements such changes.

(ix) Part of the project shall be as determined/adopted by the appropriate Electricity Regulatory Commission.

(x) M/s SJVNL shall obtain Environmental and Forest clearance from MoEF&CC and shall submit a copy to CEA.



# Idma Laboratories Limited

## TEST REPORT

Lab No.	220523N-E-002	Page No.	1/2
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post: Khaira, Teh:- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	18/05/2023
Date of Receipt of Sample	22/05/2023		
Period of Analysis	22/05/2023 To 27/05/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	DT Adit Area		
Visual Observation	N/A		
Date of Sampling	20/05/2023		
Date of Reporting	27/05/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM 10	$\mu\text{g}/\text{m}^3$	81.3	Max. 100	IS 5182 (Part 23)
2	PM2.5	$\mu\text{g}/\text{m}^3$	40.1	Max. 60	IDL/SP/03, Issue No-1
3	SO2	$\mu\text{g}/\text{m}^3$	13.2	Max. 80	IS 5182 (Part 2)
4	NO2	$\mu\text{g}/\text{m}^3$	18.9	Max. 80	IS 5182 (Part 6)
5	NH3	$\mu\text{g}/\text{m}^3$	23.2	Max. 400	IS 11255 (Part 6)
6	CO	$\text{mg}/\text{m}^3$	0.31	Max. 02	IS 5182 (Part 10)

### Idma Laboratories Limited

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## TEST REPORT

Lab No.	220523N-E-002				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	µg/m <sup>3</sup>	20.3	Max: 100	IS 5182 (Part 9)
8	Benzene	µg/m <sup>3</sup>	<2	Max: 05	IS 5182 (Part 11)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max: 01	IS 5182 (Part 12)
10	Arsenic	ng/m <sup>3</sup>	<1	Max: 06	EPA/625/R-96/010a
11	Nickel	ng/m <sup>3</sup>	<8	Max: 20	EPA/625/R-96/010a
12	Lead	µg/m <sup>3</sup>	<0.1	Max: 1.0	EPA/625/R-96/010a

\*\*End of Report\*\*

Reviewed by: *[Signature]*

Authorised signatory: *[Signature]*

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	220523N-E-003	Page No.	1/1
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post: Khaira, Teh:- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	18/05/2023
Date of Receipt of Sample	22/05/2023		
Period of Analysis	22/05/2023 To 27/05/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Near Batching Plant		
Visual Observation	N/A		
Date of Sampling	20/05/2023		
Date of Reporting	27/05/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB PROTOCOL July 2015		

### RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)				
1	Lday	dB(A)	69.1	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	51.4	Max 70	CPCB PROTOCOL July 2015.



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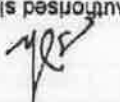


## TEST REPORT

Lab No.	220523N-E-004		Page No. 1/1
Customer	Rithwik Projects Private Limited Sumi Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL		
Date of Receipt of Sample	22/05/2023		
Period of Analysis	22/05/2023 To 27/05/2023		
Sampling Team Idma	Idma Representative Team		
Sampling Location	DT Adit Area		
Visual Observation	N/A		
Date of Sampling	20/05/2023		
Date of Reporting	27/05/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB PROTOCOL July 2015		

### RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	67.7	Max 75	CPCB PROTOCOL July 2015.
2	Night	dB(A)	49.9	Max 70	CPCB PROTOCOL July 2015.

  
 Authorised signatory



  
 Reviewed by



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	220523N-E-005	Page No. 1/2	
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Surface Water		
Customer's Description of Sample	Surface Water		
Quantity	5 Ltr		
Packing, Markings, Seal & Quantity	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	18/05/2023
Date of Receipt of Sample	22/05/2023		
Period of Analysis	22/05/2023 To 29/05/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	(Sutluj River) up stream		
Visual Observation	N/A		
Date of Sampling	20/05/2023		
Date of Reporting	29/05/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.77	IS 3025 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	68.2	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	12.4	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	19.8	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	7.0	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	67	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	129	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	9.7	IS 3025 (Part 24)

PULL PAPA ACCOCH ENOCHPA PULL  
OCOC CAL AMO COOCS ANMNA OOROC  
ENKALISOCAL PEPINCHENK  
EPCOCHENPPE EMO WMOCHN E K  
EPCOCHENPPE EMO WMOCHN E K  
EPCOCHENPPE EMO WMOCHN E K  
EPCOCHENPPE EMO WMOCHN E K  
EPCOCHENPPE EMO WMOCHN E K  
EPCOCHENPPE EMO WMOCHN E K

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## TEST REPORT

Lab No. 220523N-E-005
Page No. 2/2

S.No.	Test Parameter	Units	Results	Test Methods
9	Turbidity	NTU	BLQ (LOQ-1)	IS 3025 (Part 10)
10	Residual Free chlorine	mg/L	BLQ (LOQ-0.1)	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	6.7	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.258	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ (LOQ-0.0005)	IS 3025 (Part 47)
	Biological Testing (Water)	-	-	-
14	F. Coliform	MPN/100ml	220	IS 1622:1981
15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	BLQ (LOQ-2)	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	BLQ (LOQ-4)	IS 3025 (Part 58)

Reviewed by: *[Signature]*

Authorised signatory: *[Signature]*

\*\*End of Report\*\*

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	220523N-E-006		Page No. 1/2	
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distl.- Shimla Himachal Pradesh			
Type of Sample	Surface Water			
Customer's Description of Sample	Surface Water			
Quantity	5 Ltr			
Packing, Markings, Seal & Quantity	Plastic Can			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	NIL	Dated	18/05/2023	
Date of Receipt of Sample	22/05/2023			
Period of Analysis	22/05/2023 To 29/05/2023			
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects	
Sampling Location	(Sutluj River) Down stream			
Visual Observation	N/A			
Date of Sampling	20/05/2023			
Date of Reporting	29/05/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol				

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.79	IS 3025 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	75.4	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	14.2	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	21.2	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	7.2	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	71	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	138	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	10.8	IS 3025 (Part 24)

PHILLIPPAHACCEPERRINCAITRAPILLIF  
ICANZIAWHNINOLKUNLRODIO  
BNEHQZBNANALFUPNIFKOF  
ISELCOXWIBDIFSAUCANONWEG  
BEHICZPHEOTOLBNWANDIATLH  
ONLALONBEMPOKOLJAEPROOZ  
KCOCKEQAHPHOLKUNCPHEH  
REZONPFAWHNOLCOXWIDLEH

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## TEST REPORT

Page No. 2/2	220523N-E-006	Lab No.
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S.No.	Test Parameter	Units	Results	Test Methods
9	Turbidity	NTU	BLQ (LOQ-1)	IS 3025 (Part 10)
10	Residual Free chlorine	mg/L	BLQ (LOQ-0.1)	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	7.2	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.281	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ (LOQ-0.0005)	IS 3025 (Part 47)
14	Biological Testing (Water)	-	-	-
14	F. coliform	MPN/100ml	315	IS 1622:1981
15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	BLQ (LOQ-2)	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	BLQ (LOQ-4)	IS 3025 (Part 58)

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Authorised signatory



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240423N-E-010	Page No.	1/2
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh:- Sunni Distt- Shimla Himachal Pradesh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	20/04/2023
Date of Receipt of Sample	24/04/2023		
Period of Analysis	24/04/2023 To 29/04/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Near Batching Plant		
Visual Observation	N/A		
Date of Sampling	22/04/2023		
Date of Reporting	29/04/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM 10	$\mu\text{g}/\text{m}^3$	88.2	Max. 100	IS 5182 (Part 23)
2	PM2.5	$\mu\text{g}/\text{m}^3$	42.07	Max. 60	IDL/SP/03, Issue No-1
3	SO2	$\mu\text{g}/\text{m}^3$	14.06	Max. 80	IS 5182 (Part 2)
4	NO2	$\mu\text{g}/\text{m}^3$	20.02	Max. 80	IS 5182 (Part 6)
5	NH3	$\mu\text{g}/\text{m}^3$	23.05	Max. 400	IS 11255 (Part 6)
6	CO	$\text{mg}/\text{m}^3$	0.52	Max. 02	IS 5182 (Part 10)

#### Idma Laboratories Limited

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## TEST REPORT

Lab No.	240423N-E-010	Page No. 2/2	S.No.	Test Parameter	Units	Results	Specifications	Test Method
			7	Ozone	µg/m <sup>3</sup>	22	Max: 100	IS 5182 (Part 9)
			8	Benzene	µg/m <sup>3</sup>	< 2	Max: 05	IS 5182 (Part 11)
			9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	< 0.9	Max: 01	IS 5182 (Part 12)
			10	Arsenic	ng/m <sup>3</sup>	< 1	Max: 06	EPA/625/R-96/010a
			11	Nickel	ng/m <sup>3</sup>	< 8	Max: 20	EPA/625/R-96/010a
			12	Lead	µg/m <sup>3</sup>	< 0.1	Max: 1.0	EPA/625/R-96/010a

\*\*End of Report\*\*



Authorised signatory  
*[Signature]*



Reviewed by  
*[Signature]*

**Idma Laboratories Limited**

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240423N-E-011	Page No. 1/2
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh	
Type of Sample	Ambient Air	
Customer's Description of Sample	Ambient Air	
Quantity	1 No	
Packing, Markings	Filter Paper Packed in Polythene Pouch	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.	NIL	Dated 20/04/2023
Date of Receipt of Sample	24/04/2023	
Period of Analysis	24/04/2023 To 29/04/2023	
Sampling Team Idma	Idma Representative Team	Client Rithwik Projects
Sampling Location	DT Adit Area	
Visual Observation	N/A	
Date of Sampling	22/04/2023	
Date of Reporting	29/04/2023	
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013	
Testing Protocol	NAAQS	

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM 10	$\mu\text{g}/\text{m}^3$	78.6	Max. 100	IS 5182 (Part 23)
2	PM2.5	$\mu\text{g}/\text{m}^3$	36.32	Max. 60	IDL/SP/03, Issue No-1
3	SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	12.8	Max. 80	IS 5182 (Part 2)
4	NO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	18.03	Max. 80	IS 5182 (Part 6)
5	NH <sub>3</sub>	$\mu\text{g}/\text{m}^3$	22.1	Max. 400	IS 11255 (Part 6)
6	CO	$\text{mg}/\text{m}^3$	0.34	Max. 02	IS 5182 (Part 10)

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240423N-E-011		Page No. 2/2		
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	µg/m <sup>3</sup>	24	Max. 100	IS 5182 (Part 9)
8	Benzene	µg/m <sup>3</sup>	<2	Max. 05	IS 5182 (Part 11)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)
10	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/825/R-96/010a
11	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/825/R-96/010a
12	Lead	µg/m <sup>3</sup>	<0.1	Max. 1.0	EPA/825/R-96/010a

\*\*End of Report\*\*

  
 Reviewed by *[Signature]*

  
 Authorised signatory *[Signature]*

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240423N-E-012	Page No.	1/1
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri., Chouki, Post- Khaira, Teh:- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	20/04/2023
Date of Receipt of Sample	24/04/2023		
Period of Analysis	24/04/2023 To 29/04/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Near Batching Plant		
Visual Observation	N/A		
Date of Sampling	22/04/2023		
Date of Reporting	29/04/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB PROTOCOL July 2015		

### RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)				
1	Lday	dB(A)	68.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	50.7	Max 70	CPCB PROTOCOL July 2015.



*sdh*  
Authorised signatory

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## TEST REPORT

Lab No.	240423N-E-013	Page No. 1/1
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Customer	Rithwik Projects Private Limited Suni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh- Sunni Distt- Shimla Himachal Pradesh
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Type of Sample	Noise Level (Ambient)
Customer's Description of Sample	Noise Level (Ambient)
Quantity	1 No
Packing, Markings	Instrument at Site
Mode of Collection of Sample	Sampling by Laboratories
Work Order No.	NIL
Date of Receipt of Sample	24/04/2023
Period of Analysis	24/04/2023 To 29/04/2023
Sampling Team Idma	Idma Representative Team
Sampling Location	DT Adit Area
Visual Observation	N/A
Date of Sampling	22/04/2023
Date of Reporting	29/04/2023
Sampling Protocol	CPCB PROTOCOL-2015
Testing Protocol	CPCB PROTOCOL July 2015

### RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
1	Lday	dB(A)	69.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	49.9	Max 70	CPCB PROTOCOL July 2015.
	CHEMICAL DISCIPLINE (Noise Levels)				

Authorised signatory



Reviewed by



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240423N-E-014	Page No. 1/2	
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Surface Water		
Customer's Description of Sample	Surface Water		
Quantity	5 Ltr		
Packing, Markings, Seal & Quantity	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	20/04/2023
Date of Receipt of Sample	24/04/2023		
Period of Analysis	24/04/2023 To 01/05/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	(Sulluj River) up stream		
Visual Observation	N/A		
Date of Sampling	22/04/2023		
Date of Reporting	01/05/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.68	IS 3025 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	70.04	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	14.7	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	21.4	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	6.5	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	70	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	145	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	7.8	IS 3025 (Part 24)

पूरी जानकारी के लिए  
कृपया हमसे संपर्क करें  
हमारे वेबसाइट पर  
अधिक जानकारी के लिए  
हमसे संपर्क करें  
हमारे फोन नंबर पर  
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हमसे संपर्क करें  
हमारे ईमेल पर  
अधिक जानकारी के लिए  
हमसे संपर्क करें

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# Idma Laboratories Limited

## TEST REPORT

Lab No. 240423N-E-014 Page No. 2/2

S.No.	Test Parameter	Units	Results	Test Methods
9	Turbidity	NTU	BLQ (LOQ-1)	IS 3025 (Part 10)
10	Residual Free chlorine	mg/L	BLQ (LOQ-0.1)	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	6.8	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.214	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ(LOQ-0.0005)	IS 3025 (Part 47)
14	F. Coliform	MPN/100ml	270	IS 1622:1981
15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	BLQ (LOQ-2)	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	BLQ (LOQ-4)	IS 3025 (Part 58)

\*\*End of Report\*\*

Reviewed by *[Signature]*

Authorised signatory *[Signature]*

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ALL PARAMETERS ARE SUBJECT TO THE FOLLOWING CONDITIONS:  
 1. SAMPLES SHOULD BE STORED AT 4°C.  
 2. SAMPLES SHOULD BE ANALYZED WITHIN 24 HOURS OF RECEIPT.  
 3. SAMPLES SHOULD BE ANALYZED WITHIN 7 DAYS OF RECEIPT.  
 4. SAMPLES SHOULD BE ANALYZED WITHIN 14 DAYS OF RECEIPT.  
 5. SAMPLES SHOULD BE ANALYZED WITHIN 28 DAYS OF RECEIPT.  
 6. SAMPLES SHOULD BE ANALYZED WITHIN 56 DAYS OF RECEIPT.  
 7. SAMPLES SHOULD BE ANALYZED WITHIN 112 DAYS OF RECEIPT.  
 8. SAMPLES SHOULD BE ANALYZED WITHIN 224 DAYS OF RECEIPT.  
 9. SAMPLES SHOULD BE ANALYZED WITHIN 448 DAYS OF RECEIPT.  
 10. SAMPLES SHOULD BE ANALYZED WITHIN 896 DAYS OF RECEIPT.



# Idma Laboratories Limited

## TEST REPORT

Lab No.	240423N-E-015	Page No. 1/2	
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Surface Water		
Customer's Description of Sample	Surface Water		
Quantity	5 Ltr		
Packing, Markings, Seal & Quantity	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	20/04/2023
Date of Receipt of Sample	24/04/2023		
Period of Analysis	24/04/2023 To 01/05/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	(Sulluj River) Down stream		
Visual Observation	N/A		
Date of Sampling	22/04/2023		
Date of Reporting	01/05/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.86	IS 3025 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	72.4	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	15.01	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	25.4	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	6.5	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	74	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	151	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	8.4	IS 3025 (Part 24)

पुल्ल पाप-प्राण्डेय-पुनःप्राण्डेय  
वृत्तान्तानि-पुनःप्राण्डेय-पुनःप्राण्डेय  
पुनःप्राण्डेय-पुनःप्राण्डेय-पुनःप्राण्डेय  
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पुनःप्राण्डेय-पुनःप्राण्डेय-पुनःप्राण्डेय

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# Idma Laboratories Limited

## TEST REPORT

Lab No. 240423N-E-015 Page No. 2/2

S.No.	Test Parameter	Units	Results	Test Methods
9	Turbidity	NTU	BLQ (LOQ-1)	IS 3025 (Part 10)
10	Residual Free chlorine	mg/L	BLQ (LOQ-0.1)	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	6.6	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.217	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ (LOQ-0.0005)	IS 3025 (Part 47)
	Biological Testing (Water)	-	-	-
14	F. coliform	MPN/100ml	380	IS 1622:1981
15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	BLQ (LOQ-2)	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	BLQ (LOQ-4)	IS 3025 (Part 58)

\*\*End of Report\*\*



**Idma Laboratories Limited**  
 Idma Corporate Park,  
 391, Industrial Area, Phase-I,  
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# Idma Laboratories Limited

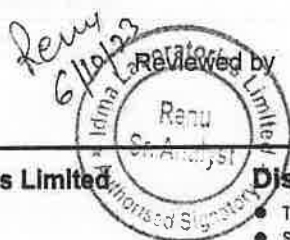


## TEST REPORT

Lab No.	280923L-ED-001	Page No.	1/2
Customer#	Rlthwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample#	Surface Water		
Customer's Description of Sample#	Surface Water		
Quantity#	5 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023
Date of Receipt of Sample	28/09/2023		
Period of Analysis	28/09/2023 To 06/10/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Satish Chandra
Sampling Location#	Up Stream, Satluj River		
Visual Observation	N/A		
Date of Sampling	26/09/2023		
Date of Reporting	06/10/2023		
Sampling Protocol	IS:17814 (PART-1):2021		
Testing Protocol	-		

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.88	IS 3025 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	132	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	30.6	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	19.7	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	7.1	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	115	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	178	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	19.3	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)



### Idma Laboratories Limited

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# Idma Laboratories Limited



## TEST REPORT

Lab No. 280923L-ED-001 Page No. 2/2

S.No.	Test Parameter	Units	Results	Test Methods
10	Residual Free chlorine	mg/L	0.22	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	9.3	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.07	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ(LOQ-0.0005)	IS 3025 (Part 47)
	Biological Testing (Water)	--	-	--
14	F. Coliform	MPN/100ml	220	IS 1622:1981
15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	4	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	8	IS 3025 (Part 58)

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*



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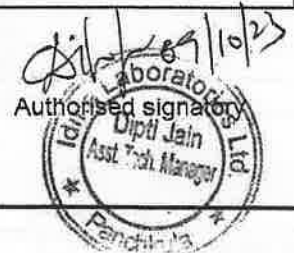


## TEST REPORT

Lab No.	280923L-ED-002	Page No.	1/2
Customer#	Rithwik Projects Private Limited Sūnni Dam Hydro Electric Project Chebri , Choukl, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample#	Surface Water		
Customer's Description of Sample#	Surface Water		
Quantity#	5 Ltr		
Packing, Markings, Seal & Quantity#	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023
Date of Receipt of Sample	28/09/2023		
Period of Analysis	28/09/2023 To 09/10/2023		
Sampling Team Idma	Idma Representative Team	Client	Mr. Satish Chandra
Sampling Location#	Down Stream, Satluj River		
Visual Observation	N/A		
Date of Sampling	26/09/2023		
Date of Reporting	09/10/2023		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	--		

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.61	IS 3025 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	132	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	32.5	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	17.3	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	7.1	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	122	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	171	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	18.7	IS 3025 (Part 24)
9	Turbidity	NTU	<1	IS 3025 (Part 10)



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# Idma Laboratories Limited



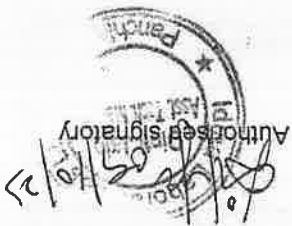
## TEST REPORT

S.No.	Test Parameter	Units	Results	Test Methods
10	Residual Free chlorine	mg/L	0.21	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	9.9	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.06	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ(LQ=0.0005)	IS 3025 (Part 47)
	Biological Testing (Water)	--	-	--
14	F. Coliform	MPN/100ml	170	IS 1622:1981
15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	<2	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	4	IS 3025 (Part 58)

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	280923L-ED-003/A		Page No.	1/2
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	28/09/2023			
Period of Analysis	28/09/2023 To 04/10/2023			
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra	
Sampling Location#	Batching Plant			
Visual Observation	N/A			
Date of Sampling	25/09/2023			
Date of Reporting	04/10/2023			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m <sup>3</sup>	70.9	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	36.1	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	15.2	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	19.6	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	24.8	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	24	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/625/R-96/010a

Reviewed by  
4/10/23  
Idma Laboratories Limited  
Sr. Analyst  
Authorised Signatory

Authorised Signatory  
Dipti Jain  
Asst. Tech. Manager  
Panchkula

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Reviewed by  
  
 Sr. Analyst  
 Renu  
 25/01/25  
 Idma Laboratories Limited  
 Authorised Signatory

Authorised signatory  
  
 Idma Laboratories Limited  
 Authorised Signatory

# Represents details provided by the customer.

\*\*End of Report\*\*

S.No. Test Parameter	Units	Results	Specifications	Test Method
9	Lead	0.11	Max. 1.0	EPA/625/R-96/010a

Lab No. 280923L-ED-003/A  
 Page No. 2/2

**TEST REPORT**

**Idma Laboratories Limited**





# Idma Laboratories Limited

## TEST REPORT

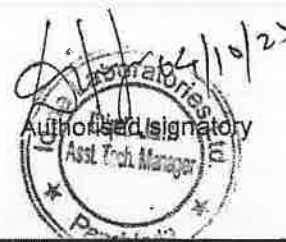
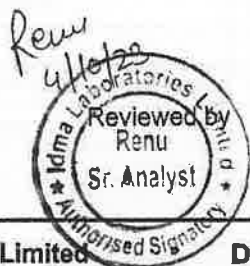
Lab No.	280923L-ED-003/B		Page No. 1/1	
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	28/09/2023			
Period of Analysis	28/09/2023 To 04/10/2023			
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra	
Sampling Location#	Batching Plant			
Visual Observation	N/A			
Date of Sampling	25/09/2023			
Date of Reporting	04/10/2023			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.58	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	2.1	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

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\*\*End of Report\*\*



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# Idma Laboratories Limited

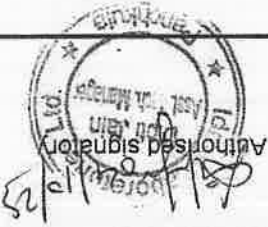


## TEST REPORT

Lab No.	280923L-ED-004/A	
Page No.	1/2	
Customer#	Rithwik Projects Private Limited	
Type of Sample#	Ambient Air	
Customer's Description of Sample#	Ambient Air	
Quantity#	1 No	
Packing, Markings#	Filter Paper Packed in Polythene Pouch	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated
Date of Receipt of Sample	28/09/2023	
Period of Analysis	28/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	
Sampling Location#	Near Office Area	
Visual Observation	N/A	
Date of Sampling	25/09/2023	
Date of Reporting	04/10/2023	
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013	
Testing Protocol	NAAQS	

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	PM 10	µg/m <sup>3</sup>	73.5	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	37.1	Max. 60	IDLSP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	14.3	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	19.5	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	28.3	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	24	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	>8	Max. 20	EPA/625/R-96/010a
CHEMICAL TESTING (ATMOSPHERIC POLLUTION)					



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.		280923L-ED-004/A			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m <sup>3</sup>	<0.1	Max. 1.0	EPA/625/R-96/010a

# Represents details provided by the customer.

\*\*End of Report\*\*



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## TEST REPORT

Lab No. 280923L-ED-004/B Page No. 1/1

Customer#		Rithwik Projects Private Limited	
Customer's Description of Sample#		Sunni Dam Hydro Electric Project Chebrl, Choukl, Post- Khaira, Teh.- Sunni Dist.- Shimla Himachal Pradesh	
Type of Sample#		Ambient Air	
Quantity#		1 No	
Packing, Markings#		Filter Paper Packed in Polythene Pouch	
Mode of Collection of Sample		Sampling by Laboratories	
Work Order No.#		RPL/SDHEPWO/23-24/25	
Date of Receipt of Sample		28/09/2023	
Period of Analysis		28/09/2023 To 04/10/2023	
Sampling Team		Idma Representative Team	
Sampling Location#		Near Office Area	
Visual Observation		N/A	
Date of Sampling		25/09/2023	
Date of Reporting		04/10/2023	
Sampling Protocol		NAAQMS/36/2012-13 USEPA:2013	
Testing Protocol		NAAQS	

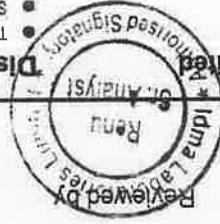
### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.51	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	2.1	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

# Represents details provided by the customer.

\*\*End of Report\*\*

Reviewed by  
Renu  
4/10/23



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Idma Corporate Park,

391, Industrial Area, Phase - 1,

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# Idma Laboratories Limited



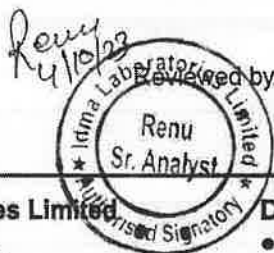
TC-8207

## TEST REPORT

Lab No.	280923L-ED-005/A		Page No. 1/2	
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khalra, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/08/2023	
Date of Receipt of Sample	28/09/2023			
Period of Analysis	28/09/2023 To 04/10/2023			
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra	
Sampling Location#	DT-Edit Area			
Visual Observation	N/A			
Date of Sampling	25/09/2023			
Date of Reporting	04/10/2023			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM 10	µg/m <sup>3</sup>	74.9	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	35.2	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	17.9	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	20.4	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	30.1	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	24	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/625/R-96/010a



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Authorized signatory  
 09/10/25



Reviewed by  
 Renu



# Represents details provided by the customer. \*\*End of Report\*\*

S.No. Test Parameter	Units	Results	Specifications	Test Method
9	Lead	0.11	Max. 1.0	EPA/625/R-96/010a
Lab No. 280923L-ED-005/A				
Page No. 2/2				

**TEST REPORT**

**Idma Laboratories Limited**





# Idma Laboratories Limited

## TEST REPORT

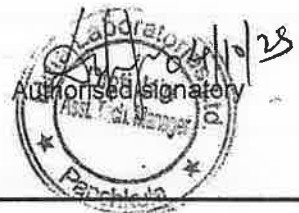
Lab No.	280923L-ED-005/B		Page No. 1/1	
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	28/09/2023			
Period of Analysis	28/09/2023 To 04/10/2023			
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra	
Sampling Location#	DT-Edit Area			
Visual Observation	N/A			
Date of Sampling	25/09/2023			
Date of Reporting	04/10/2023			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.61	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	2.1	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

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\*\*End of Report\*\*



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# Idma Laboratories Limited



TC-8207



## TEST REPORT

Lab No.	280923L-ED-006	
Customer#	Rithwik Projects Private Limited	
Type of Sample#	Noise Level (Ambient)	
Customer's Description of Sample#	Noise Level (Ambient)	
Quantity#	1 No	
Packing, Markings#	Instrument at Site	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	RPPL/SDHEP/WO/23-24/25	
Date of Receipt of Sample	28/09/2023	
Period of Analysis	28/09/2023 To 04/10/2023	
Sampling Team	Idma Representative Team	
Sampling Location#	Near Office Area	
Visual Observation	N/A	
Date of Sampling	25/09/2023	
Date of Reporting	04/10/2023	
Sampling Protocol	CPCB PROTOCOL:2015	
Testing Protocol	CPCB PROTOCOL July 2015	

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	70.1	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	59.4	Max 70	CPCB PROTOCOL July 2015.

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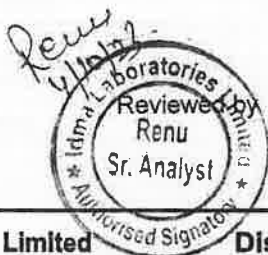
TC-8207

## TEST REPORT

Lab No.	280923L-ED-007		Page No.	1/2
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khalra, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	Noise Level (Ambient)			
Customer's Description of Sample#	Noise Level (Ambient)			
Quantity#	1 No			
Packing, Markings#	Instrument at Site			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	28/09/2023			
Period of Analysis	28/09/2023 To 04/10/2023			
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra	
Sampling Location#	Batching Plant Area			
Visual Observation	N/A			
Date of Sampling	25/09/2023			
Date of Reporting	04/10/2023			
Sampling Protocol	CPCB PROTOCOL:2015			
Testing Protocol	CPCB PROTOCOL July 2015			

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	70.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	61.1	Max 70	CPCB PROTOCOL July 2015.



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# Idma Laboratories Limited



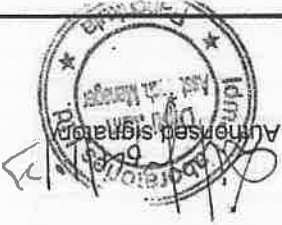
## TEST REPORT

Lab No. 280923L-ED-008 Page No. 1/2

Customer#	Rithwik Projects Private Limited
Type of Sample#	Sunni Dam Hydro Electric Project Chabri, Chouki, Post- Khaira, Teh- Sunni Dist.- Shimla Himachal Pradesh
Customer's Description of Sample#	Noise Level (Ambient)
Quantity#	1 No
Packing, Markings#	Instrument at Site
Mode of Collection of Sample	Sampling by Laboratories
Work Order No.#	RPPL/SDHEP/WO/23-24/25
Date of Receipt of Sample	28/09/2023
Period of Analysis	28/09/2023 To 04/10/2023
Sampling Team	Idma Representative Team
Sampling Location#	DT-Edit Area
Visual Observation	N/A
Date of Sampling	25/09/2023
Date of Reporting	04/10/2023
Sampling Protocol	CPCB PROTOCOL:2015
Testing Protocol	CPCB PROTOCOL July 2015

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	
1	Lday	dB(A)	72.3	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	64.7	Max 70	CPCB PROTOCOL July 2015.



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# Idma Laboratories Limited



TC-8207

## TEST REPORT

Lab No.	280923L-ED-009	Page No. 1/2	
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample#	Noise Level D.G.		
Customer's Description of Sample#	Noise Level D.G.		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023
Date of Receipt of Sample	28/09/2023		
Period of Analysis	28/09/2023 To 09/10/2023		
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra
Sampling Location#	DG Set 500 KVA		
Visual Observation	N/A		
Date of Sampling	28/09/2023		
Date of Reporting	09/10/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB		

## RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	71.6	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.6	-	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.9	-	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.7	Min. 25	CPCB PROTOCOL JULY 2015



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TC-8207

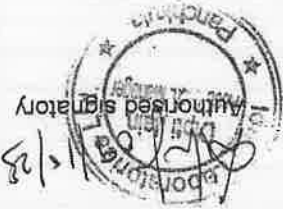


## TEST REPORT

Lab No.	280923L-ED-009	
Page No.	1/2	
Customer#	Rithwik Projects Private Limited	
Type of Sample#	Noise Level D.G.	
Customers Description of Sample#	Noise Level D.G.	
Quantity#	1 No	
Packing, Markings#	Instrument at Site	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.#	RPLL/SDHEFWO/23-24/25	
Date of Receipt of Sample	28/09/2023	
Period of Analysis	28/09/2023 To 09/10/2023	
Sampling Team	Idma Representative Team	
Sampling Location#	DG Set 500 KVA	
Visual Observation	N/A	
Date of Sampling	26/09/2023	
Date of Reporting	09/10/2023	
Sampling Protocol	CPCB PROTOCOL:2015	
Testing Protocol	CPCB	

## RESULTS

S.No.	Test Parameter	Units	Result	Specifications	Test Method
1	1.0 m from the enclosure surface	dB(A)	71.6	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	104.6	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	78.9	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.7	Min. 25	CPCB PROTOCOL JULY 2015
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-



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# Idma Laboratories Limited



## TEST REPORT

Lab No.	280923L-ED-010		Page No. 1/2	
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	SOIL			
Customer's Description of Sample#	SOIL			
Quantity#	1 Kg			
Packing, Markings, Seal & Quantity#	Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	28/09/2023			
Period of Analysis	28/09/2023 To 04/10/2023			
Sampling Team Idma	Idma Representative Team	Client	Mr. Satish Chandra	
Sampling Location#	DT Edit Area			
Visual Observation	N/A			
Date of Sampling	27/09/2023			
Date of Reporting	04/10/2023			
Sampling Protocol	EPA 540/R-95/141:1995 LSASDPROC-300-R,2020			
Testing Protocol	-			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	CHEMICAL TESTING (Soil)	-	-	-
1	pH	-	6.99	IS: 2720 (P-26)
2	Conductivity	µs/cm	198	IS: 14767-2000
3	Moisture	%	6.4	IS: 2720 (P-22)
4	Total Kjeldhal Nitrogen	mg/kg	285.6	IS: 14684-1999
5	Calcium and Magnesium	mg/kg	1738	Manual for Soil Testing , Govt. of India. Jan.2011
6	Total Potassium	mg/kg	31.3	Manual for Soil Testing , Govt. of India Jan.2011
7	Iron	mg/kg	614.7	Manual for Soil Testing , Govt. of India Jan.2011
8	Sodium	mg/kg	74.2	Manual for Soil Testing , Govt. of India Jan.2011
9	Sodium Absorbion Ratio (SAR)	-	0.43	APHA 2320,2340 & 3500B 23rd Edition, 2017

Renu  
4/10/23  
Reviewed by  
Idma Laboratories Limited  
Renu  
Sr. Analyst  
Authorised Signatory

Authorised Signatory  
Asst. Tech. Manager  
Panchkula

### Idma Laboratories Limited

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# Idma Laboratories Limited



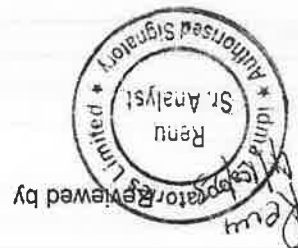
## TEST REPORT

Lab No.	280923L-ED-010			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method
10	Nitrate	mg/kg	118.9	Manual for Soil Testing Govt. of India: 2011

Opinion :

# Represents details provided by the customer.

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240823N-E-010	Page No. 1/2	
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post: Kheira, Teh.- Sunni Distt. - Shimla Himachal Pradesh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	20/08/2023
Date of Receipt of Sample	24/08/2023		
Period of Analysis	24/08/2023 To 29/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Near Batching Plant		
Visual Observation	N/A		
Date of Sampling	22/08/2023		
Date of Reporting	29/08/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM 10	µg/m <sup>3</sup>	87.2	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	42.07	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	15.06	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	20.02	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	22.02	Max. 400	IS 11255 (Part 6)
6	CO	mg/m <sup>3</sup>	0.55	Max. 02	IS 5182 (Part 10)

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## TEST REPORT

Lab No.	240823N-E-010	Page No. 2/2	S.No.	Test Parameter	Units	Results	Specifications	Test Method
			7	Ozone	µg/m <sup>3</sup>	22	Max. 100	IS 5182 (Part 9)
			8	Benzene	µg/m <sup>3</sup>	< 2	Max. 05	IS 5182 (Part 11)
			9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	< 0.9	Max. 01	IS 5182 (Part 12)
			10	Arsenic	ng/m <sup>3</sup>	< 1	Max. 06	EP A/82/S/R-96/010a
			11	Nickel	ng/m <sup>3</sup>	< 8	Max. 20	EP A/82/S/R-96/010a
			12	Lead	µg/m <sup>3</sup>	< 0.1	Max. 1.0	EP A/82/S/R-96/010a

\*\*End of Report\*\*



Authorised signatory



Reviewed by

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240823N-E-011	Page No.	1/2
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Dist- Shimla Himachal Pradesh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	20/08/2023
Date of Receipt of Sample	24/08/2023		
Period of Analysis	24/08/2023 To 29/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	DT AdR Area		
Visual Observation	N/A		
Date of Sampling	22/08/2023		
Date of Reporting	29/08/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM 10	µg/m <sup>3</sup>	76.8	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	36.36	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	13.8	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	18.03	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	22.8	Max. 400	IS 11255 (Part 6)
6	CO	mg/m <sup>3</sup>	0.34	Max. 02	IS 5182 (Part 10)

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## TEST REPORT

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	Lab No.	240823N-E-011			
	Page No.	2/2			
7	Ozone	µg/m <sup>3</sup>	24	Max. 100	IS 5182 (Part 8)
8	Benzene	µg/m <sup>3</sup>	< 2	Max. 05	IS 5182 (Part 11)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	< 0.6	Max. 01	IS 5182 (Part 12)
10	Arsenic	ng/m <sup>3</sup>	< 1	Max. 06	EPA825/R-96/010a
11	Nickel	ng/m <sup>3</sup>	< 8	Max. 20	EPA825/R-96/010a
12	Lead	µg/m <sup>3</sup>	< 0.1	Max. 1.0	EPA825/R-96/010a

\*\*End of Report\*\*

  
 Reviewed by  


  
 Authorised signatory  


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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240823N-E-012	Page No. 1/1
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post: Khaira, Teh.- Sunni Distt. - Shimla Himachal Pradesh	
Type of Sample	Noise Level (Ambient)	
Customer's Description of Sample	Noise Level (Ambient)	
Quantity	1 No	
Packing, Markings	Instrument at Site	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.	NIL	Dated 20/08/2023
Date of Receipt of Sample	24/08/2023	
Period of Analysis	24/08/2023 To 29/08/2023	
Sampling Team Idma	Idma Representative Team	Client Rithwik Projects
Sampling Location	Near Batching Plant	
Visual Observation	N/A	
Date of Sampling	22/08/2023	
Date of Reporting	29/08/2023	
Sampling Protocol	CPCB PROTOCOL:2015	
Testing Protocol	CPCB PROTOCOL July 2015	

## RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	68.8	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	50.7	Max 70	CPCB PROTOCOL July 2015.



*sdh*  
Authorised signatory

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## TEST REPORT

Lab No. 240823N-E-013 Page No. 1/1

Customer		Rithwik Projects Private Limited	
Type of Sample		Noise Level (Ambient)	
Customer's Description of Sample		Noise Level (Ambient)	
Quantity		1 No	
Packing, Markings		Instrument at Site	
Mode of Collection of Sample		Sampling by Laboratories	
Work Order No.		NIL	
Date of Receipt of Sample		24/08/2023	
Period of Analysis		24/08/2023 To 29/08/2023	
Sampling Team Idma		Idma Representative Team	
Sampling Location		DT Adt Area	
Visual Observation		N/A	
Date of Sampling		22/08/2023	
Date of Reporting		29/08/2023	
Sampling Protocol		CPCB PROTOCOL-2015	
Testing Protocol		CPCB PROTOCOL July 2015	

### RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)				
1	Lday	dB(A)	69.3	Max 75	CPCB PROTOCOL July 2015
2	LNight	dB(A)	48.9	Max 70	CPCB PROTOCOL July 2015



Reviewed by



Authorised signatory

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# Idma Laboratories Limited

## TEST REPORT

Lab No.	240823N-E-014	Page No. 1/2	
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Surface Water		
Customer's Description of Sample	Surface Water		
Quantity	5 Ltr		
Packing, Markings, Seal & Quantity	Plastic Can		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	20/08/2023
Date of Receipt of Sample	24/08/2023		
Period of Analysis	24/08/2023 To 01/08/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	(Suttuj River) up stream		
Visual Observation	N/A		
Date of Sampling	22/08/2023		
Date of Reporting	01/09/2023		
Sampling Protocol	IS:17814 (PART-1):2021		
Testing Protocol			

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.88	IS 3025 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	70.04	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	14.8	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	224	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	6.5	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	70	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	142	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	7.8	IS 3025 (Part 24)

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# Idma Laboratories Limited

## TEST REPORT

Lab No. 240823N-E-014 Page No. 2/2

S.No.	Test Parameter	Units	Results	Test Methods
9	Turbidity	NTU	BLQ (LOQ-1)	IS 3025 (Part 10)
10	Residual Free Chlorine	mg/L	BLQ (LOQ-0.1)	IS 3025 (Part 28)
11	Magnesium as Mg	mg/L	6.2	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.212	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ(LOQ-0.0005)	IS 3025 (Part 47)
14	Biological Testing (Water)	-	-	-
14	F. Coliform	MPN/100ml	272	IS 1622:1981
15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	BLQ (LOQ-2)	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	BLQ (LOQ-4)	IS 3025 (Part 58)

\*\*End of Report\*\*

Reviewer by: *Dipu Jain*

Authorized signatory: *[Signature]*

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## TEST REPORT

Lab No.	240823N-E-015	Page No. 2/2	S.No.	Test Parameter	Units	Results	Test Methods
			9	Turbidity	NTU	BLQ (LOQ-1)	IS 3025 (Part 10)
			10	Residual Free chlorine	mg/L	BLQ (LOQ-0.1)	IS 3025 (Part 28)
			11	Magnesium as Mg	mg/L	0.5	IS 3025 (Part 46)
			12	Iron as Fe	mg/L	0.215	IS 3025 (Part 53)
			13	Lead as Pb	mg/L	BLQ(LOQ-0.0005)	IS 3025 (Part 47)
			14	Biological Testing (Water)	-	-	-
			14	F. coliform	MPN/100ml	381	IS 1622:1981
			15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	BLQ (LOQ-2)	IS 3025 (Part 44)
			16	Chemical Oxygen Demand	mg/L	BLQ (LOQ-4)	IS 3025 (Part 58)

\*\*End of Report\*\*



Authorised signatory

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# Idma Laboratories Limited



## TEST REPORT

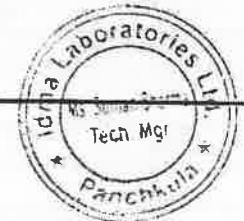
Lab No.	220723L-ED-002/A		Page No. 1/2	
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	22/07/2023			
Period of Analysis	22/07/2023 To 27/07/2023			
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra	
Sampling Location#	Near Batching Plant			
Visual Observation	N/A			
Date of Sampling	19/07/2023			
Date of Reporting	27/07/2023			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	µg/m <sup>3</sup>	84.1	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m <sup>3</sup>	37.6	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m <sup>3</sup>	13.2	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m <sup>3</sup>	16.9	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m <sup>3</sup>	20.5	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m <sup>3</sup>	20	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m <sup>3</sup>	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m <sup>3</sup>	<8	Max. 20	EPA/625/R-96/010a

*Satish Chandra*  
27/07/23  
Reviewed by

*Satish Chandra*  
27/07/23  
Authorised signatory



**Idma Laboratories Limited**

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Authorised signatory  
*Suresh Sharma*



Reviewed by  
*Jai Singh*  
 27/07/22

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S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m <sup>3</sup>	<0.1	Max. 1.0	EPA/625/R-96/010a

Lab No. 220723L-ED-002/A Page No. 2/2

**TEST REPORT**

**Idma Laboratories Limited**





# Idma Laboratories Limited

## TEST REPORT

Lab No.	220723L-ED-002/B		Page No. 1/1	
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	Ambient Air			
Customer's Description of Sample#	Ambient Air			
Quantity#	1 No			
Packing, Markings#	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	22/07/2023			
Period of Analysis	22/07/2023 To 27/07/2023			
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra	
Sampling Location#	Near Batching Plant			
Visual Observation	N/A			
Date of Sampling	19/07/2023			
Date of Reporting	27/07/2023			
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013			
Testing Protocol	NAAQS			

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	CO	mg/m <sup>3</sup>	0.39	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m <sup>3</sup>	<2	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	<0.9	Max. 01	IS 5182 (Part 12)

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**\*\*End of Report\*\***

*[Signature]*  
Reviewed by

*[Signature]*  
Authorised signatory



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# Idma Laboratories Limited



## TEST REPORT

Lab No. 220723L-ED-003 Page No. 1/1

Customer# Ritwik Projects Private Limited  
 Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.-  
 Shimla Himachal Pradesh

Type of Sample# Noise Level (Ambient)  
 Customer's Description of Sample# Noise Level (Ambient)

Quantity# 1 No  
 Instrument at Site

Mode of Collection of Sample Sampling by Laboratories  
 Work Order No.# RPL/SDHEPWO/23-24/25  
 Date of Receipt of Sample 22/07/2023

Period of Analysis 22/07/2023 To 27/07/2023  
 Client Mr. Satish Chandra

Sampling Team Idma Representative Team  
 Sampling Location# DT Adit Area

Visual Observation N/A  
 Date of Sampling 19/07/2023

Date of Reporting 27/07/2023  
 Sampling Protocol CPCB PROTOCOL:2015  
 Testing Protocol CPCB PROTOCOL July 2015

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)		-	-	
1	Lday	dB(A)	67.4	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	48.1	Max 70	CPCB PROTOCOL July 2015.

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# Idma Laboratories Limited



## TEST REPORT

Lab No.	220723L-ED-004	Page No.	1/1
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample#	Noise Level (Ambient)		
Customer's Description of Sample#	Noise Level (Ambient)		
Quantity#	1 No		
Packing, Markings#	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023
Date of Receipt of Sample	22/07/2023		
Period of Analysis	22/07/2023 To 27/07/2023		
Sampling Team	Idma Representative Team	Client	Mr. Satish Chandra
Sampling Location#	Near Batching Plant		
Visual Observation	N/A		
Date of Sampling	19/07/2023		
Date of Reporting	27/07/2023		
Sampling Protocol	CPCB PROTOCOL:2015		
Testing Protocol	CPCB PROTOCOL July 2015		

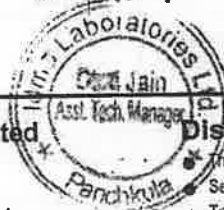
### RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	69.5	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	51.8	Max 70	CPCB PROTOCOL July 2015.

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*[Signature]*  
27/07/23  
Reviewed by



*[Signature]*  
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# Idma Laboratories Limited



## TEST REPORT

Lab No. 220723L-ED-005 Page No. 1/1

Customer# Rithwik Projects Private Limited  
 Sunil Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Dist.- Shimla Himachal Pradesh

Type of Sample# Noise Level D.G.  
 Customer's Description of Sample# Noise Level D.G.

Quantity# 1 No  
 Packing, Markings# Instrument at Site

Mode of Collection of Sample Sampling by Laboratories  
 Work Order No.# RPL/SDHEP/WO/23-24/25 Dated 15/06/2023

Date of Receipt of Sample 22/07/2023  
 Period of Analysis 22/07/2023 To 27/07/2023

Sampling Team Idma Representative Team  
 Client Mr. Satish Chandra

Sampling Location# DG Set Cummins (380 KVA) DT Adit Area  
 Visual Observation N/A

Date of Sampling 19/07/2023  
 Date of Reporting 27/07/2023

Sampling Protocol CPCB PROTOCOL:2015  
 Testing Protocol CPCB

S.No.	Test Parameter	Units	Result	Specifications	Test Method
	CHEMICAL DISCIPLINE ( Source Noise Levels)	-	-	-	-
1	1.0 m from the enclosure surface	dB(A)	73.8	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	103.2	--	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	77.7	--	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.5	Min. 25	CPCB PROTOCOL JULY 2015

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Authorised signatory *[Signature]*  
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# Idma Laboratories Limited

## TEST REPORT

Lab No.	280623N-E-015	Page No.	1/2
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post: Khaira, Teh:- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/06/2023
Date of Receipt of Sample	26/06/2023		
Period of Analysis	26/06/2023 To 01/07/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Near Batching Plant		
Visual Observation	N/A		
Date of Sampling	24/06/2023		
Date of Reporting	01/07/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

### RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)	-	-	-	-
1	PM 10	$\mu\text{g}/\text{m}^3$	86.7	Max. 100	IS 5182 (Part 23)
2	PM2.5	$\mu\text{g}/\text{m}^3$	44.2	Max. 60	IDL/SP/03, Issue No.-1
3	SO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	15.7	Max. 80	IS 5182 (Part 2)
4	NO <sub>2</sub>	$\mu\text{g}/\text{m}^3$	23.7	Max. 80	IS 5182 (Part 6)
5	NH <sub>3</sub>	$\mu\text{g}/\text{m}^3$	25.4	Max. 400	IS 11265 (Part 6)
6	CO	$\text{mg}/\text{m}^3$	0.55	Max. 02	IS 5182 (Part 10)

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## TEST REPORT

S.No.	Test Parameter	Units	Results	Specifications	Test Method		
	Lab No.	260623N-E-015					Page No. 2/2
7	Ozone	µg/m <sup>3</sup>	23.8	Max: 100	IS 5182 (Part 9)		
8	Benzene	µg/m <sup>3</sup>	< 2	Max: 05	IS 5182 (Part 11)		
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	< 0.9	Max: 01	IS 5182 (Part 12)		
10	Arsenic	ng/m <sup>3</sup>	< 1	Max: 06	EP A/625/R-96/010a		
11	Nickel	ng/m <sup>3</sup>	< 8	Max: 20	EP A/625/R-96/010a		
12	Lead	µg/m <sup>3</sup>	< 0.1	Max: 1.0	EP A/625/R-96/010a		

\*\*End of Report\*\*



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# Idma Laboratories Limited

## TEST REPORT

Lab No.	260623N-E-016	Page No.	1/2
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt- Shimla Himachal Pradesh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/06/2023
Date of Receipt of Sample	26/06/2023		
Period of Analysis	26/06/2023 To 01/07/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	DT Adit Area		
Visual Observation	N/A		
Date of Sampling	24/06/2023		
Date of Reporting	01/07/2023		
Sampling Protocol	NAAQMS/36/2012-13 USEPA:2013		
Testing Protocol	NAAQS		

## RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION)				
1	PM 10	$\mu\text{g}/\text{m}^3$	80.8	Max. 100	IS 5182 (Part 23)
2	PM2.5	$\mu\text{g}/\text{m}^3$	42.1	Max. 80	IDL/SP/03, Issue No-1
3	SO2	$\mu\text{g}/\text{m}^3$	14.4	Max. 80	IS 5182 (Part 2)
4	NO2	$\mu\text{g}/\text{m}^3$	20.4	Max. 80	IS 5182 (Part 6)
5	NH3	$\mu\text{g}/\text{m}^3$	23.0	Max. 400	IS 11255 (Part 6)
6	CO	$\text{mg}/\text{m}^3$	0.34	Max. 02	IS 5182 (Part 10)

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S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	µg/m <sup>3</sup>	22.4	Max: 100	IS 5182 (Part 9)
8	Benzene	µg/m <sup>3</sup>	< 2	Max: 05	IS 5182 (Part 11)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m <sup>3</sup>	< 0.9	Max: 01	IS 5182 (Part 12)
10	Arsenic	ng/m <sup>3</sup>	< 1	Max: 06	EP A/625/R-96/010a
11	Nickel	ng/m <sup>3</sup>	< 8	Max: 20	EP A/625/R-96/010a
12	Lead	µg/m <sup>3</sup>	< 0.1	Max: 1.0	EP A/625/R-96/010a

\*\*End of Report\*\*

  
 Authorised signatory  


  
 Reviewed by  




# Idma Laboratories Limited

## TEST REPORT

Lab No.	260623N-E-017	Page No.	1/1
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post: Khaira, Teh:- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample	Noise Level (Ambient)		
Customer's Description of Sample	Noise Level (Ambient)		
Quantity	1 No		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	NIL	Dated	22/06/2023
Date of Receipt of Sample	26/06/2023		
Period of Analysis	26/06/2023 To 01/07/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Near Batching Plant		
Visual Observation	N/A		
Date of Sampling	24/06/2023		
Date of Reporting	01/07/2023		
Sampling Protocol	CPCB PROTOCOL 2015		
Testing Protocol	CPCB PROTOCOL July 2015		

### RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)				
1	Lday	dB(A)	69.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	50.2	Max 70	CPCB PROTOCOL July 2015.



Reviewed by



Authorised signatory

### Idma Laboratories Limited

Idma Corporate Park,  
391, Industrial Area, Phase-I,  
Panchkula-134113,  
Haryana (India)  
Tel No. 0172-5064827, 5064830  
Website : [www.idmagroup.co.in](http://www.idmagroup.co.in)  
Email : [commercial@idmalab.co.in](mailto:commercial@idmalab.co.in)

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## TEST REPORT

Lab No.	260623N-E-018	Page No. 1/1
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Customer	Rithwik Projects Private Limited	
Type of Sample	Noise Level (Ambient)	
Customers Description of Sample	Noise Level (Ambient)	
Quantity	1 No	
Packing, Markings	Instrument at Site	
Mode of Collection of Sample	Sampling by Laboratories	
Work Order No.	NIL	
Date of Receipt of Sample	26/06/2023	
Period of Analysis	26/06/2023 To 01/07/2023	
Sampling Team Idma	Idma Representative Team	
Sampling Location	DT Adit Area	
Visual Observation	N/A	
Date of Sampling	24/06/2023	
Date of Reporting	01/07/2023	
Sampling Protocol	CPCB PROTOCOL-2015	
Testing Protocol	CPCB PROTOCOL July 2015	

### RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
1	CHEMICAL DISCIPLINE (Noise Levels)	dB(A)	70.6	Max 75	CPCB PROTOCOL July 2015.
2		dB(A)	50.7	Max 70	CPCB PROTOCOL July 2015.

Reviewed by  
  
Dipal Jain  
Asst. Tech. Manager  
Idma Laboratories Ltd.  
Panchkula

Authorised signatory  
  
Idma Laboratories Ltd.  
Panchkula

**Idma Laboratories Limited**  
391, Industrial Area, Phase-I,  
Panchkula-134113,  
Haryana (India)  
Tel No. 0172-5064827, 5064830  
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# Idma Laboratories Limited

## TEST REPORT

Lab No.	260623N-E-019		Page No. 1/2	
Customer	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample	Surface Water			
Customer's Description of Sample	Surface Water			
Quantity	5 Ltr			
Packing, Markings, Seal & Quantity	Plastic Can			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	NIL	Dated	22/06/2023	
Date of Receipt of Sample	26/06/2023			
Period of Analysis	26/06/2023 To 03/07/2023			
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects	
Sampling Location	(Sulluj River) up stream			
Visual Observation	N/A			
Date of Sampling	24/06/2023			
Date of Reporting	03/07/2023			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol				

## RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.81	IS 3026 (Part 11)
2	Alkalinity as CaCO <sub>3</sub>	mg/L	59.8	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	16.2	IS 3025 (Part 40)
4	Chloride as Cl	mg/L	20.7	IS 3025 (Part 32)
5	Dissolved Oxygen (DO)	mg/L	6.3	IS 3025 (Part 38)
6	Hardness Total (as CaCO <sub>3</sub> )	mg/L	59	IS 3025 (Part 21)
7	Total Dissolved Solids	mg/L	144	IS 3025 (Part 16)
8	Sulphate as SO <sub>4</sub>	mg/L	10.6	IS 3025 (Part 24)

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### Idma Laboratories Limited

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## TEST REPORT

S.No.	Test Parameter	Units	Results	Test Methods
	Lab No.	260623N-E-020		
	Page No.	2/2		
9	Turbidity	NTU	BLQ (LOQ-1)	IS 3025 (Part 10)
10	Residual Free Chlorine	mg/L	BLQ (LOQ-0.1)	IS 3025 (Part 26)
11	Magnesium as Mg	mg/L	7.8	IS 3025 (Part 46)
12	Iron as Fe	mg/L	0.213	IS 3025 (Part 53)
13	Lead as Pb	mg/L	BLQ (LOQ-0.0005)	IS 3025 (Part 47)
	Biological Testing (Water)	-	-	-
14	F. coliform	MPN/100ml	350	IS 1622:1981
15	Biochemical Oxygen Demand (3-days at 27°C)	mg/L	BLQ (LOQ-1)	IS 3025 (Part 44)
16	Chemical Oxygen Demand	mg/L	BLQ (LOQ-4)	IS 3025 (Part 58)



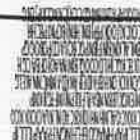
\*\*\*End of Report\*\*\*



**Idma Laboratories Limited**  
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# एसजेवीएन लिमिटेड

## SJVN Limited

(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)  
A 'Mini Ratna' & Schedule 'A' PSU  
CIN: L4010HP1988GOI008409

सुन्नी बाँध जल विद्युत परियोजना

Sunni Dam Hydro Electric Project



### ENVIRONMENT & FOREST DEPARTMENT

No. SJVN/SDHEP/Envt. & Forest/F-15/2023- 833

Dated: 18-10-2023.

To

✓  
The Environment Engineer,  
HP State Pollution Control Board,  
R.O. Shimla, Phase-III,  
New Shimla (H.P.) – 171009  
Email- [pcbshimla@gmail.com](mailto:pcbshimla@gmail.com)


**Subject: Submission of monthly statement of muck/debris disposal for the month of Sept, 2023 i.r.o. Sunni Dam HEP (382 MW)-regarding**

Dear Sir,

Kindly find enclosed herewith the monthly statement of muck generated for the month of September 2023 in respect of Sunni Dam HEP (382 MW) as provided by M/s Rithwik Projects Private Limited (RPPL), the EPC (Engineering, Procurement & Construction) contractor for Sunni Dam HEP for your information, please.




With regards,

For & on behalf of SJVN

  
General Manager,  
Env & Forest Deptt.  
SJVN, SDHEP, Sunni

परियोजना कार्यालय: सुन्नी जिला-शिमला-171301  
दूरभाष: 0177-2786586, Fax No.: 0177-2786895, [www.sjvn.nic.in](http://www.sjvn.nic.in)  
कारपोरेट मुख्यालय: शक्ति सदन, शनान, शिमला-171006 (हि. प्र.)  
अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

Project Office: Sunni, District Shimla-171301  
Tele: 0177-2786586, Fax No.: 0177-2786895, [www.sjvn.nic.in](http://www.sjvn.nic.in)  
Corporate H.Q. : Shakti Sadan, Shanan, Shimla-171006 (H.P.)  
SAVE ENERGY FOR BENEFIT OF SELF AND NATION.

SUNNI DAM HYDRO ELECTRIC PROJECT  
 BESIDE : PANCHAYAT OFFICE BUILDING  
 VILL : CHEBRI, CHOUKI (102), POST : KHAIRA  
 TEH, SUNNI DISTT, SHIMLA  
 STATE : HIMACHAL PRADESH  
 PIN : 171018



**RITHWIK**  
 PROJECTS PRIVATE LIMITED  
 (An ISO 9001:2015 Company)



Ref.: RPPL/SJVNL/SDHEP/Site/2023/193

Dated 17.10.2023

To  
 The Head of Project (HOP),  
 SJVN Limited,  
 Sunni Dam HEP (382 MW),  
 Sunni, Kol Dam Colony,  
 Tehsil: Sunni, Distt. Shimla  
 Himachal Pradesh-171301

Name of Works: EPC Contract Package covering Design and Engineering Services, Civil and Hydro-Mechanical works of Sunni Dam HEP (382MW) Located in Distt. Shimla and Mandi in Himachal Pradesh

Sub: Submission of monthly statement of muck/debris disposal for the month of Sept'2023

Ref: 1. LOA No. SJVN/CHQ/CCD/SDHEP/23-1860 dated 14.01.2023  
 2. Contract Agreement No. CHQ-02/2023

Dear Sir,

In reference to subject mentioned above, please find attached herewith muck/ disposal statement for the month of Sept'2023 for your kind information please.

Thanking and assuring our best attention at all times,

For and on behalf of Rithwik Projects Pvt. Ltd.



Authorized Signatory

General Manager (Environment, Forest and Safety), SJVNL, Sunni Dam HEP (382MW)

Cc:

Encl.: 1. Monthly statement of muck/debris disposal- Sept'2023

HOP SDHEP SUNNI  
 Dairly 442  
 Date: 18/10/2023

Plot No. 37 & 39, Navodaya Colony, Road No. 2, Banjara Hills, Hyderabad-500 034. (T.S.) India.  
 Ph. : +91-40-4911 3333 E-mail: rplhyd@rithwikprojects.com  
 Fax : +91-40-4911 3444 Website : www.rithwikprojects.com  
 CIN : U45200TG1999 PTC031431

Rithwik Projects Pvt. Ltd.

Sunni Dam, HEP (382 MW)

MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF SEPTEMBER-2023 (01.09.2023 to 30.09.2023)

Sr. NO.	Project component	Gross estimated quantity of Muck/debris to be generated (incl. 45% swell factor)	Quantity of muck/debris for the month being reported (cum)			Cumulative quantities at the end of month being reported (cum)			Name of the dumping site	Capacity of the dumping site.	Remarks
			Generated	Utilized	Dumped	Generated	Utilized	Dumped			
1	Add to Diversion Tunnel (Rd - 0.0mtr. to 96.85mtr.)					5,285.32					
2	U/S Heading (Rd - 245 To 270 mtr.)	1876.3	1876.3			21,474.43			Lunsu	11,19,000	
3	Diversion Tunnel D/s (Rd- 0 mtr TO 209 mtr) Heading				15,445.40	16,601.14		56,929.99			The muck generated is being utilized for protection works (crate walls) and development of job facilities like camp & colony and construction of approach road etc
4	U/S Benching (Rd - 30 To 130 mtr.)	5225.8				5,225.80					
5	D/S Benching (Rd - 30 To 190 mtr.)	8343.3				8,343.30					

Abstract	Month	Quantity (m3)	Remarks
Sr.No			
1	May-23	4092.92	
2	Jun-23	5380.87	
3	Jul-23	14605.90	
4	Aug-23	17404.90	
5	Sep-23	15445.40	
Total		56929.99	



Annexure - 2

सुनी दाम हिड्रो इलेक्ट्रिक प्रोजेक्ट

SJVN Limited

(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)  
A Joint Venture of Govt. of India & Govt. of Himachal Pradesh  
CIN: L10101P1988GO1002409  
11-11-2011-2011-11-11  
Suni Dam Hydro Electric Project

**ENVIRONMENT & FOREST DEPARTMENT**

No. SJVN/SDHEP/Envt. & Forest/F-8/2023-F-23-26 Dated: 19-06-2023

To

The APCCF - cum CEO,  
H.P State Authority (CAMPA),  
H.P. Forest Department, Talland,  
Distt. Shimla, H.P. - 171001

**Subject:** Proposal for seeking prior approval of the Central Government under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 397.8863 ha forest land in favour of SJVN Ltd. for construction of Suni Dam Hydroelectric Project (382 MW) within the jurisdiction of Shimla, Kotgarh and Karsog Forest Divisions, in District Shimla and Mandi, Himachal Pradesh (ONLINE PROPOSAL NO. FP/HP/HUD/31019/ 2017) - regarding CAT Plan & CA Scheme implementation status.

Respected Sir,

This is in reference to the part-B, point no. 2 and 7 respectively of forest clearance granted to the project vide file no. File No.8-07/2021-FC dated 23.08.2022 which

states that

"The State Government shall ensure that compensatory afforestation over degraded-forest Govt. land, double in extent, to the forest land being diverted, shall be raised by the State Forest Department at the project cost within three years from the date of grant of Stage - II approval and maintained thereafter as per approved plan by the State Forest Department at the cost of the User Agency"

And

"Provisions of Catchment Area Treatment Plan, as approved by competent authority of the State, shall be implemented by user agency/Forest Department at project cost"

Handwritten signatures and initials at the top of the page.



In this regard, it is hereby to apprise that the CAT plan has already been approved by PCCF (HoFF). Also, funds of INR 38.34 Crore for CAT Plan and INR 22 Crore for CA scheme stands deposited to CAMPA account along with Departmental Charges by SJVN in December, 2021. The status of implementation of CA Scheme & CAT Plan needs to be submitted in half yearly compliance submission of EC & yearly compliance submission of FC.

It is thus requested to kindly provide the status of implementation of approved CAT Plan of Sunni Dam HEP and Compensatory Afforestation Scheme for onwards submission in compliance of conditions of Forest Clearance & Environment Clearance, please.

With regards,

Thanking You,

For & on behalf of SJVN

**General Manager,  
Env & Forest Deptt.  
SJVN, SDHEP, Sunni**

**CC: For kind information to:**

1. The Divisional Forest Officer,  
Forest Division Karsog,  
Distt. Mandi, H.P. - 175011
2. The Divisional Forest Officer,  
Forest Division Shimla,  
Distt. Shimla, H.P. - 171002
3. The Divisional Forest Officer,  
Forest Division Kotgarh,  
Distt. Shimla, H.P. -- 172030

परिचालन कार्यालय: सुनी डैम (H.P.) - 171301  
दूरभाष: 0177-2786586, फ़ैक्स नं.: 0177-2786895, www.sjvn.nic.in  
कार्यालय: सुनी डैम, सुनी, जिला: 171006 (H.P.)  
अपने तथा राष्ट्र के हित में ऊर्जा की खोज करें।

Project Office: Sunni, District Shimla-171301  
Tele: 0177-2786586, Fax No.: 0177-2786895, www.sjvn.nic.in  
Corporate H.Q.: Shakti Sadan, Shimla, Shimla-171006 (H.P.)  
SAVE ENERGY FOR BENEFIT OF SELF AND NATION

No. 3269  
HP. Forest Department

To

The General Manager,  
Env & Forest Deptt.  
SJVN, SDHEP, Sunni, H.P.

Dated Karsog, the 02-08-2023

Subject:-

Proposal for seeking prior approval of the Central Government under Section 2 of the Forest (Conservation) Act, 1980 for diversion of 397.8863 ha. forest land in favour of SJVN Ltd. for construction of Sunni Dam Hydro Electric Project (382MW) within the jurisdiction of Shimla, Kotgarh and Karsog Forest Divisions, in District Shimla and Mandi, HP (ONLINE PROPOSAL No. FP/HP/HUD/31019/2017)- Regarding CAT Plan & CA Scheme implementation status.

Sir,

In this connection, it is intimated that the approved CAT Plan of Sunni Dam is implemented by this Division since the year 2022-23. The Afforestation on approved CA areas is also being done as per approved Annual Plan of operation. The detail of CA areas is given as under:-

Sl. No.	Name of area Proposed in the APO for the year 2023-24	Phy. (in ha.)	Name of area approved in the APO for the year 2023-24	Phy. (in ha.)	Remarks
1	D-102 Telehan (CA)	10.88	D-102 Telehan (CA)	10.88	The work is in progress
2	D-102 Telehan (PCA)	16.32	D-102 Telehan (PCA)	16.32	
3	D-102 Telehan (CA)	5.56	D-102 Telehan (CA)	5.56	
4	D-102 Telehan (PCA)	11.12	D-102 Telehan (PCA)	11.12	
5	D-74 Purvain	100	D-74 Purvain	0	
6	Muhal Rondal Khasra No. 1403 (CA)	7.5	Muhal Rondal Khasra No. 1403 (CA)	7.5	
7	D-213 Nihari Nal C-III(CA)	10	D-213 Nihari Nal C-III(CA)	10	
8	D-248 Faneota (CA)	5	D-248 Faneota (CA)	5	
9	D-220 Paro C-I (Patch-I) (CA)	12.6	D-220 Paro C-I (Patch-I) (CA)	12.6	
10	D-220 Paro C-I (Patch-II) (CA)	2.62	D-220 Paro C-I (Patch-II) (CA)	2.62	
11	Muhal Kehat Khasra No. 474 (CA)	9.3	Muhal Kehat Khasra No. 474 (CA)	9.3	
12	Muhal Kehat Khasra No. 524/411 (CA)	12.78	Muhal Kehat Khasra No. 524/411 (CA)	12.78	
13	Muhal Kehat	10.76	Muhal Kehat Khasra No.	10.76	

This is for favour of information please.

Divisional Forest Officer,  
Kansurg Forest Division, H.P.

14	Muhali Khamaria Khasra No. 763 (CA)	14.24	Muhali Khamaria Khasra No. 763 (CA)	14.24
15	Muhali Khamaria Khasra No. 1434/134(CA)	3.23	Muhali Khamaria Khasra No. 1434/134(CA)	3.23
16	Muhali Khamaria Khasra No. 1452/1(CA)	15.37	Muhali Khamaria Khasra No. 1452/1(CA)	15.37
17	Muhali Detha Khasra No. 481 (CA)	9.71	Muhali Detha Khasra No. 481 (CA)	9.71
18	Muhali Tundal Khasra No. 762 (CA)	5.58	Muhali Tundal Khasra No. 762 (CA)	5.58
19	Muhali Tundal Khasra No. 774/676 (CA)	8.25	Muhali Tundal Khasra No. 774/676 (CA)	8.25
20	Muhali Tundal Khasra No. 776/633 (CA)	5.82	Muhali Tundal Khasra No. 776/633 (CA)	5.82
21	Muhali Nanj Khasra No. 600 (CA)	6.79	Muhali Nanj Khasra No. 600 (CA)	6.79
22	Muhali Sanog Khasra No. 385 (CA)	7.2	Muhali Sanog Khasra No. 385 (CA)	7.2
23	Muhali Tebban Khasra No. 1674/1580 (CA)	11.08	Muhali Tebban Khasra No. 1674/1580 (CA)	11.08
24	D-213 Nihari Nal C-III (CA)	1.4342	D-213 Nihari Nal C-III (CA)	1.4342
25	D-252 Naga Nal C-IA) (CA)	10	D-252 Naga Nal C-IA) (CA)	10
26	D-214 Jhujan (CA)	16.6	D-214 Jhujan (CA)	16.6
27	D-214 Jhujan (PCA)	8	D-214 Jhujan (PCA)	8
28	D-214 Jhujan (CA)	4.8	D-214 Jhujan (CA)	4.8
29	D-276 Ruchhad (CA)	4.3	D-276 Ruchhad (CA)	4.3
30	D-276 Ruchhad (PCA)	4.35	D-276 Ruchhad (PCA)	4.35
<b>Total</b>		<b>351.1942</b>		<b>251.1942</b>



एसजेवीएन लिमिटेड

**SJVN Limited**

(भारत सरकार एवं हि.प्र. सरकार का संयुक्त उपक्रम)

(A Joint Venture of Govt. of India &amp; Govt. of Himachal Pradesh)

A Mini Ratna &amp; Schedule "A" PSU

CIN : L40101HP1988GOI008409

सुन्नी बांध जल विद्युत परियोजना

SUNNI DAM HYDRO ELECTRIC PROJECT

**HR Department**

E-mail: hr.sdhep.sunni@sjvn.nic.in



संदर्भ: SJVN/LHEP-II/SDHEP/HR/23- 2539-40

दिनांक: 29.03.2023

To

The Land Acquisition Collector,  
SDHEP, Sunni.  
Distt. Shimla (H.P)

**Sub: -** Intimation of dedicated bank account in favour of Land Acquisition Collector, SDHEP

Sir,

Kindly refer to letter of Deputy Commissioner Shimla and Deputy Commissioner Mandi vide their letter no. SML-Rev (Land Acq)- 2021/- 5305 dated 28.03.2023 and MND-SR-DRA/Rev/2023-9775-83 dated 29.03.2023 with regard to deposit of cost of approved R&R Scheme of Distt. Shimla and Mandi respectively. It is therefore requested to provide account details to this office so that the amount can be deposited by SJVN on 31.03.2023 positively please.

Yours Sincerely

(Baljeet Singh)  
GM(HR)

NT  
29/3/23

No 141  
29/3/23

CC:

1. CGM-HOP, SDHEP, Sunni:-for kind information.

परियोजना कार्यालय : एसजेवीएन, सुन्नी बांध जलविद्युत परियोजना, कोल डैम कलोनी, सुन्नी जिला शिमला - 171301  
दूरभाष: 0177-2786622, फैक्स: 0177-2786895  
E-mail : [www.sjvn.nic.in](http://www.sjvn.nic.in)

कार्पोरेट मुख्यालय : शक्ति सदन शानान, शिमला - 171006 (हि. प्र.)

अपने तथा राष्ट्र के हित में ऊर्जा की वाधत करें

Project Office: Sunni Dam Hydro Electric Project, SJVN Kol Dam Colony, Sunni, District Shimla - 171301  
Tele : 0177-2786622, Fax : 0177 2786895  
E-mail : [www.sjvn.nic.in](http://www.sjvn.nic.in)

Corporate H.Q: Shakti Sadan Shanan, Shimla- 171006 (H.P.)

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

# Office of Land Acquisition Collector

SJVN, Sunni Dam Hydro Electric Project, Sunni  
Kol Dam Colony, Sunni, Distt. Shimla (H.P)

Dated: - 30-03-2023

Ref: LAO/SDHEP, Sunni/22-427-28

General Manager (HR)  
SDHEP, Sunni.

To

Sub: - Intimation of dedicated bank account in favour of Land Acquisition  
Collector, SDHEP.

Sir,

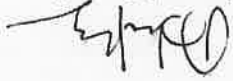
Please refer to your office letter no. SJVN/LHEP-II/SDHEP/HR/23-2539-40 dated  
29.03.2023 on the above cited subject.

In this regard, the detail of the bank accounts, in which the cost of approval R&R  
Plan of Distt. Shimla i.r.o. SDHEP is to be deposited, are as follows:

S. N.	Description	Detail	Amount to be deposited
1.	R&R Cost of Distt. Shimla (Khaira, Jaisi & Bharara)	A/c N.: 50100490915200 Name: Collector Land Acq. RNR Shimla HDFC Bank Ltd., Main Bazar, VPO Sunni. Branch Code: 4473 IFS Code: HDFC0004473	55,22,06,000/-
2.	R&R Cost of Distt. Shimla (Lunsu, Talah, Ogli, Kothi, Malgi, Bathora, Pandoa, Grehna, Junjhun & Majrog	A/c N.: 922010048028666 Name: Land Acq. Collector, SDHEP, (R&R Shimla) Axis Bank, Sanjauli, Shimla, HP Branch Code: 4714 IFS Code: UTIB0004714	50,84,67,000/-

Thanking you,

Yours faithfully,



(Ashwani Sood)  
Land Acquisition Collector  
SJVN Ltd., SDHEP Sunni

Copy to : CGM-HOP, SDHEP

**Office of Land Acquisition Collector**

**SJVN, Sunni Dam Hydro Electric Project, Sunni  
Kol Dam Colony, Sunni, Distt. Shimla (H.P)**

Ref: LAO/SDHEP, Sunni/23-

429-30

Dated: -31-03-2023

To

General Manager (HR)  
SDHEP, Sunni.

**Subject: - Intimation of dedicated bank account in favour of Land Acquisition Collector, SDHEP.**

Sir,

Please refer to your office letter No. SJVNL/LHEP-II/HR/23-2539-40 Dated 29.03.2023 on the subject cited above.

In this regard, the detail of bank account, in which the cost of approval R&R plan of Distt. Mandi i.r.o. SDHEP is to be deposited, is as follows:

Sr.No	Description	Detail	Amount to be deposited
1.	R&R cost of Distt. Mandi	Account no. 41796559193 Name; Land Acquisition Collector R&R Mandi IFSC SBIN0015030 Bank SBI Sunni Branch code 15030	17,59,34,000

Thanking you

yours faithfully

  
(Ashwani Bood)

Land Acquisition Collector  
SDHEP, Sunni

o/c

Copy to : CGM -HOP, SDHEP Sunni



## HIMACHAL STATE POLLUTION CONTROL BOARD

### FORM V

(See Rule 14)

financial Year: 2022-2023

Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.

Name and address of the unit / HCF : Sunni Dam HEP 382 MW,  
Koldam Colony, Sunni,  
Shimla

#### PART A

- (i) Name and address of the owner/ occupier of the industry operation or process : Sushil Sharma
- (ii) Industry category Primary-(STC Code) : RED, 1009-Power generation plant [except  
Secondary-(STC Code) : Wind and Solar renewable power plants of  
all capacities and Mini Hydel power plant of  
capacity <25MW]

#### (iii) Production capacity

Product Name	Quantity	Unit
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(iv) Year of establishment : 2023

(v) Date of the last environment statement submitted :

Attach File : N/A

#### PART B

##### 1. Water consumption m<sup>3</sup>/ d

Process : 0

Cooling : 0

Domestic : 0

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
0	0	0

##### 2. Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
0	0	0	0

File attach : N/A

\*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

File attach : N/A

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production Nil.

**PART G**

File attach : N/A

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes Nil.

**PART F**

File attach : N/A

	During the previous financial year	During the current financial year	
(a) From process	0	0	
(b) From pollution control facility	0	0	
(c)(1) Quantity recycled or re-utilised within the unit	0	0	
(2) Sold	0	0	
(3) Disposed	0	0	
Total Quantity			

**Solid Wastes**

**PART E**

File attach : N/A

	During the previous financial year	During the current financial year	
(a) From process	0	0	
(b) From pollution control facilities	0	0	
Total Quantity (Kg)			

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

**Hazardous Wastes**

**PART D**

File attach : N/A

	in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons	
Pollution	Quantity of pollutants discharged(mass/day)	Concentration of pollutants in discharges(mass/volume)	
(a) Water	0	0	0
(a) Air	0	0	0

Pollution discharged to environment/ unit of output.

**PART C**

**PART H**

Additional measures/ investment proposal for environmental protection abatement of pollution, prevention of pollution Nil .

File attach : N/A


**PART I**

Any other particulars for improving the quality of the environment Nil .

File attach : N/A

**Status of the Sunni Dam HEP**

The Contract agreement for construction of Sunni Dam HEP has been signed between EPC Contractor and SJVN on 23.03.2023. Since, the construction works of SDHEP has been started in FY 2023-24 therefore, the Environment Statement for the financial year ending on March 31, 2023 which is to be submitted before Sep 30, 2023 may be treated as Nil, please.

  
General Manager,  
Environment & Forest Deptt.,  
SDHEP, Sunni, Distt. Shimla (HP).  
23/09/23