

एसजेवीएन लिमिटेड
SJVN Limited

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

नवरातन सी. पी. एस. ई.

A Navratna CPSE

CIN No : L40101HP1988GOI008409



संख्या:एसजेवीएन/का.मु./पर्या./एफ-38/2024-209

दिनांक: 26/11/2024

सेवा में,
सदस्य सचिव,
नदी घाटी एवं जलविद्युत परियोजनाएँ,
पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, भारत सरकार,
इंदिरा पर्यावरण भवन, जोरबाग,
नई दिल्ली - 110003
मेल आईडी: yogendra78@nic.in

विषय: सुन्नी बांध एचईपी (382 मेगावाट), हिमाचल प्रदेश में पर्यावरणीय परिस्थितियों की अनुपालना पर
छमाही रिपोर्ट (अप्रैल, 2024 से सितंबर, 2024 तक की अवधि हेतु)।

संदर्भ: पर्यावरण मंजूरी पहचान संख्या; ईसी22ए003एचपी169821; पत्र संख्या जे-12011/14/2017-
आईए-आई(आर), दिनांक 04 फरवरी 2022; प्रस्ताव संख्या: आईए/एचपी/आरआईवी/63789/2017

महोदय,

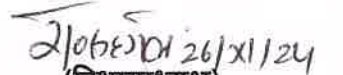
कृपया उक्त अनुमोदन का संदर्भ ग्रहण करें, जिसके अनुसार जिला शिमला और मंडी (हिमाचल प्रदेश) में
एसजेवीएन की सुन्नी बांध एचईपी (382 मेगावाट) को पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय
द्वारा पर्यावरण मंजूरी प्रदान की गई थी। ईआईए अधिसूचना 2006 और पर्यावरण मंजूरी शर्त संख्या X
(iv) के अनुसार, निर्धारित पर्यावरण परिस्थितियों की छमाही स्थिति प्रस्तुत करना अनिवार्य आवश्यकता
है। इसके अलावा, दिनांक 26.11.2018 की अधिसूचना के अनुसार अर्धवार्षिक अनुपालना रिपोर्ट सॉफ्ट
कॉपी में भी प्रस्तुत करना वांछनीय है।

अतः पर्यावरणीय परिस्थितियों की अनुपालना पर छमाही रिपोर्ट (सितंबर, 2024 तक की अवधि हेतु)
आपके सूचनार्थ सादर प्रस्तुत की जा रही है।

संलग्नक: यथोपरि।

सधन्यवाद,

भवदीय,
एसजेवीएन लिमिटेड के लिए,


(विभागाध्यक्ष)

निगमित पर्यावरण विभाग

कारपोरेट मुख्यालय : शक्ति सदन, शनान,
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एनबीसीसी कॉम्प्लेक्स, पूर्वी किदवई नगर, नई दिल्ली-110023
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अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

प्रतिलिपि (केवल ईमेल के माध्यम से):

1. वन महानिरीक्षक (केन्द्रीय), पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय, एकीकृत क्षेत्रीय कार्यालय, शिमला प्रथम एवं द्वितीय तल, सी.जी.ओ. कॉम्प्लेक्स, लांगवुड, शिमला - 171001, मेल आईडी: iro.shimla-mefcc@gov.in
2. सदस्य सचिव, हिमाचल प्रदेश राज्य प्रदूषण नियंत्रण बोर्ड, हिम परिवेश, चरण-III, न्यू शिमला-171009, मेल आईडी: mppcb-hp@nic.in

Six Monthly Compliance Report for April 2024 - September 2024 period

1	Conditions imposed by the Ministry of Environment & Forest, GoI while granting environment clearance vide letter No. F.No. J-12011/14/2017-IA.I (R)	
S. No.	Conditions Imposed	Compliance Status
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.	Being complied
ii	In pursuant to the Ministry OM dated 30.09.2020, the Environmental 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 Annexure-I).
iii	Conservation plan prepared for schedule I species shall be implemented with approval of concerned CWLW.	Conservation plan approved by Chief Wildlife Warden, HP, Shimla on April 09, 2024. Shall be implemented accordingly. (Copy attached as Annexure- II)
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 Solid waste generated especially Plastic waste is not being disposed of as landfill material. The Segregated Dry and Wet waste is being disposed of via Gram Panchayat disposal system.
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 detail in 5th EAC meeting held on 30 December 2020, wherein after detailed discussion provision was kept for developing fish hatcheries by State Fisheries Department and accordingly was recommended by the committee. Moreover, MoEF&CC has been requested to drop/modify the condition. Annexure-III
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	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.

	Resettlement Act, 2013.	
C	Disaster management	
viii	Necessary control measures such as water sprinkling arrangements 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.	Monthly muck report submitted to Pollution control Board on regular basis (April to September Muck report Attached as Annexure-IV).
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 after closing of muck dumping site.
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 attached as Annexure-V).
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 issued to the quarry by SEIAA, HP on 16.05.2023. (Copy attached as Annexure-VI)
xiv	Real time monitoring of e-flows to be done in consultation with State PCB or any other institution.	Noted please
	Standard EC condition for River Valley and Hydroelectric projects	
I	Statutory compliance	
i	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land and for non-forest purpose involved in the project.	Complied. Forest Clearance Stage-II issued vide File No.8-07/2021-FC dated 23.08.2022. (Copy attached as Annexure-VII)
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 Warden. The recommendations of the approved site-specific conservation plan/ wildlife	Plan approved by Chief Wildlife Warden, HP, Shimla on April 09, 2024. Yet to be implemented. Plan to be implemented by Forest Department.

	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).	
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 to Project issued on 06.08.2022. Further, Renewal of CTE applied on 05.08.2023. (Copy attached as Annexure-VIII)
v.	NOC shall be obtained from National Commission of Seismic Design parameters (NCSDS) of CWC.	Complied Approval for NCSSP issued by CWC vide letter no. 2/2/2017 (vol-1)/FE&SA/145 dated 11.03.2019. (Copy attached as Annexure-IX)
vi	Necessary approval of CEA shall be obtained for those projects having the project cost more than 1,000 crores.	Complied TEC to the Project issued vide letter no. 2/HP/58/ CEA/2017-PAC/97-135 dated 11.02.2021 (copy attached as Annexure-X).
II Air quality monitoring and preservation		
i.	Regular monitoring of various environmental parameters viz. Water Quality, Ambient Air Quality and Noise levels as per the' CPCB guidelines at 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.	Complied. Monitoring Results is attached at Annexure-XI
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. Regular Sprinkling on Project site including unpaved roads is being done. Dust control anti-smog gun in use at Site
iii.	Necessary control measures such as water sprinkling arrangements, etc. be taken up to arrest fugitive dust at all the construction sites.	Being complied.
III Water quality monitoring and preservation		
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. MoEF&CC requested to modify/drop the condition. (Copy attached as Annexure-III).
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. MoEF&CC requested to modify/drop the condition. (Copy attached as Annexure-III)
iii	Before impounding the water,	Noted please

	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.	
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 be installed at suitable locations to monitor e-flow. Hourly data to be collected and converted to discharge data. The Gauge and Discharge data in the form of Excel Sheet be submitted to the Regional Office, MoEF&CC and to the CWC on weekly basis.	Noted please
vi.	Mixed irrigation shall be practiced 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.	Not Applicable. The proposed project shall be strictly used for hydropower generation and not for irrigation facilities. MoEF&CC requested to modify/drop the condition. (Copy attached as Annexure-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 entire command area. The command Area Development plan should be strictly implemented as proposed in the EIA/EMP report.	Not Applicable. The proposed project shall be strictly used for hydropower generation and not for irrigation facilities. MoEF&CC requested to modify/drop the condition. (Copy attached as Annexure-III).
IV	Noise monitoring and prevention	
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.	Being complied
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.	Being complied. Monitoring result attached as Annexure-XII
V	Catchment area treatment plan	
i.	Catchment Area Treatment (CAT) Plan as proposed in the EIA/EMP report shall be implemented in consultation with the State Forest Department and shall be	CAT Plan cost of Rs. 38.34 Cr has been deposited in compliance to FC-I condition. Status of implementation of same is being followed up at interval with Forest Department concerned.

	implemented in synchronization with the construction of the project.	
VI Waste management		
i.	Muck disposal be carried out only in the approved and earmarked sites. The dumping sites shall be located sufficiently away from the HFL of the river. Efforts be made to reuse the muck for construction and other filling purposes and balanced be disposed of at the designated disposal sites. Once the muck disposal sites re inactive, proper treatment measures like both engineering and biological measures be carried out so that sites are stabilized quickly.	Presently, muck generated utilized as a filling material for development of job facility area, offices, batching plant, parking of machinery/vehicles, formation of dykes and also being stacked to be used as a construction material (Aggregate & Sand) for construction purposes, etc. and remaining muck dumped at Lunsu Dumping site Restoration of site will be ensured as per EMP. (Annexure- XIII)
ii.	Solid waste management should be planned in details. Land filling of plastic waste shall be avoided and instead be used for various purposes as envisaged in the EIA/EMP reports Efforts be made to avoid one time use of plastics.	Being complied. Segregated dry and wet waste is being disposed of via Gram Panchayat disposal system. Use of single use plastics is being discouraged. Hazardous waste disposed through Authorized vendor only, for which agreement has been done. (Copy attached as Annexure- XIV
VII Green Belt, EMP Cost, Fisheries and Wildlife Management		
i.	Based on the recommendation of Cumulative Impact assessment and Carrying capacity study of river basin or as per the ToR 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 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.	Fisheries Management Plan for INR 191 lakhs approved and being implemented by HP Fisheries Department. Fisheries Management plan was also received from the HP Fisheries Department on 31.01.2024. Annexure- XV
iii.	Wildlife Conservation Plan prepared for both core and buffer zones shall be implemented in consultation with the local State Forest Department.	Plan approved by Chief Wildlife Warden, HP on 09.04.2024. Status of implementation of same through concerned Forest Department shall be ensured.
iv.	To enrich the habitat of the project site, plantation shall be raised as envisaged in the E1A/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	Funds of Compensatory Afforestation as

	shall be implemented as per the plan approved.	applicable, already deposited. The CA is being implemented by the HP Forest Department. Status of implementation of same is being followed up at interval with Forest Department concerned. Annexure-XVI
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 detail in 5th EAC meeting held on 30 December 2020, wherein after detailed discussion provision was kept for developing fish hatcheries by State Fisheries Department and accordingly was recommended by the committee. Moreover, MoEF&CC has been requested to drop/modify the condition. (Copy attached as Annexure-III).
VIII Public hearing and Human health issues		
i.	Resettlement & Rehabilitation plan be implemented in consultation with the State Govt. as approved by the State Govt.	Private land undergoing acquisition by GoHP as per the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement Act 2013. R&R plan for Shimla and Mandi stands approved. Further, financial provision against the plan has been remitted with the State Authority. Annexure-XVII
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, fuming 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.	Fumigation being done as per requirement to avoid creation of breeding grounds of vector bone diseases. (Photographs attached at Annexure-XVIII)
iv	Provision shall be made for the housing of construction labour 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.	Being complied.
v	Labour force to be engaged for construction woks shall be examined thoroughly and adequately treated before issuing them work permit. Medical facilities shall be provided at the construction site.	Being complied
vi	Early Warning Telemetric system shall be installed in the upper catchment area of the project for advance intimation of	Noted please

	flood forecast.	
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
IX Corporate environment responsibility		
i.	Skill mapping be undertaking for the youths of the affected project area and based on the skill mapping, necessary trainings to the youths be provided for their long-time livelihood generation.	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 infringements/deviation/violation of the environmental /forest/ wildlife norms/conditions. The company shall have defined system of reporting infringements /deviation/violation of the environmental/forest /wildlife norms/ conditions and/ or shareholder/Stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six -monthly report.	The SJVN has a well laid down 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.	Environment cells at the project and company headquarter level with qualified personnel have 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.	Being complied Responsibility Matrix for implementing EMP and Environmental conditions has been prepared and approved by Competent Authority.
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	Being complied. Experts being finalized. Accordingly, MDC will be approved through MoEF&CC.

	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.	
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.	Not Applicable. The proposed project is for hydropower generation and not for irrigation facilities. MoEF&CC requested to modify/drop the condition. (Copy attached as Annexure-III).
X Miscellaneous		
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by 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.	Complied
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.	Complied
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half yearly basis.	Being 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 compliance report for period ending March, 2024 was submitted on 23.05.2024.
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.	The project is under construction stage and the Environment Statement applicable after the commencement of project shall be supplied.
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 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

	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 EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	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 reserves 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

Annexure-I



एसजेवीएन लिमिटेड

निजी-रतन सिद्दयूत 'A' पीएमए
लिमिटेड पर्यावरण विभाग
IS/ISO 9001:2015 Certified

SJMNRG/RIV/63789/2017/33

संकेतः

कार्पोरेट विभाग,
लिमिटेड पर्यावरण विभाग,
राजिब भवन, अजमेर,
किरात सिटी, सिविल प्रवेज - 171006
दूरभाष नं. 0177-2660180
पि.सं. sjmnr@sjmnltd.com
sjmnr@sjmnltd.com

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

Subject: Environment Clearance I.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 20.07.2017 enclosed.

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

Yours sincerely,

(V. Sankaranarayanan)
Executive Director
Corporate Environment Department

Documents Attached: As above

1385017/2024

Annexure-II

No. WL (Misc.)-60/HEP/Vol-XI/_____
Himachal Pradesh Forest Department.

Dated Shimla-171001, the

From: Principal CCF Wildlife and
CWLW, HP, Shimla

To: General Manager,
Env. & Forest Deptt.,
SJVNL, SDHEP, Sunni,
Distt. Shimla, Himachal Pradesh.

**Subject:- Regarding Wildlife Conservation Plan for
Schedule-I Faunal Species & Rare Endangered
and Threatened Plant (RET) Species of Project
Area for Sunni Dam HEP (382 MW).**

Sir,

Please refer to your office letter No. SJVN/SDHEP/Envt.
& Forest/F-03/2024-965 dated 04.04.2024 on the subject cited
above.

The Wildlife Conservation Plan for Schedule-I faunal
species & Rare Endangered and Threatened Plant (RET) species
for the above proposal amounting to Rupees 105.00 lakh is
hereby approved. Further action to implement the Plan may be
initiated immediately under intimation to this office.

Encls: As above.

Signed by
Rajiv Kumar

Date: 09-04-2024 18:23:28
Pr. Chief Conservator of Forests (WL) &
Chief Wildlife Warden H.P. Shimla-1

WILDLIFE CONSERVATION PLAN FOR SUNNI DAM HEP (382 MW)

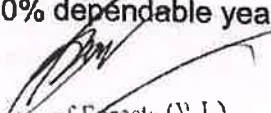
1.1 Introduction

Sunni Dam Hydro Electric Project" (382 MW) is a run of the river type project to harness the hydro power potential at river Satluj. Being an ROR type of the project and majority of the construction of components located in a compact block of approx. 500 m x 200 m patch, the project is having inherited ecofriendly advantage and reduced impact on ecology and surrounding biodiversity. Only a small portion of the diverted area will be used in construction and no major change in other areas will be done and hence, the biodiversity and wildlife of the surrounding area and the area diverted for this project will be least impacted. However, as per the statutory requirement of Environment Clearance granted to the Sunni Dam HEP and as a part of EIA-EMP, the conservation plan and wildlife plan has been prepared. The primary objective of this plan is conservation of Wildlife and Biodiversity in the project surrounding area and promote sustainable use of natural resources, which involves scientific management of natural wealth vis-à-vis developmental activities. The threats to natural terrestrial and aquatic ecosystems generally arise due to by anthropogenic activities that may arise because of construction and associated activities of proposed project. A detailed conservation and management plan has been proposed and the main objectives of said plan are as follows:

- Maintenance of ecological balance through preservation and restoration of wherever it has been disturbed due to project developmental activities
- Conservation and preservation of natural habitats in surrounding area
- Rehabilitation of critical species including RET species if any, with provisions for in-situ or ex-situ conservation of critical/ important plant/ animal species,
- Mitigation and control of project induced biotic and/or abiotic pressures/influences that may affect the natural habitats,
- Habitat enhancement in project catchment area by taking up afforestation and soil conservation measures,
- Creating all round awareness regarding conservation and ensuring people's participation in the conservation efforts and minimizing man animal conflict.

1.2 Brief Description of Sunni Dam HEP and its Importance

Sunni Dam Hydro Electric Project" (382 MW) is a run of the river type project and envisages construction of a concrete gravity dam of ± 71 m high from river bed level across Satluj river near Khaira village and an underground powerhouse on the right bank. The project with a proposed installation of 382 MW would afford design energy generation of 1381.77 GWh in a 90% dependable year.


Pr. Chief Conservator of Forests (V L.)
and Chief Wildlife Warden (H. S. Simla)

The State of Himachal Pradesh has vast hydroelectric power potential in its five major rivers. The rivers and their tributaries with steep gradient continue to challenge planners and engineers for optimal exploitation of hydropower potential. The rapid generation of hydroelectric power as per its potential will improve the economic health of the state because 12% free power plus 1% LADF on all new installations will increase the resources of the state to a significant extent. The need for the Sunni Dam HEP, installed capacity 382 MW, in the Satluj Basin, has therefore been considered in context of power shortage in the Northern region in general and in the country as whole.

1.3 Protected Area in surrounding, if any

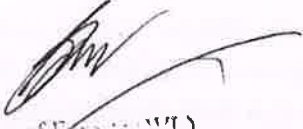
No Wildlife Sanctuary or National Park declared protected under "The Wildlife Protection Act, 1972" is located within 10 km from the Project Boundary. This was also mentioned in TOR Letter No. J-12011/14/2017-IA-I Serial no 3, "No Reserve Forest, Wildlife Sanctuary etc. is present within 10 km radius of the proposed project". Only Majathal Wildlife Sanctuary is about 15.5 Km away from the dam site, therefore, no wildlife clearance to be obtained from standing committee of National Board for Wildlife (NBWL).

1.4 Biodiversity of the study area

Schedule-I species likely Leopard (*Panthera pardus*) may be present around the area, however, no schedule-I mammalian species According to Wildlife Protection Act, 1972, in the study area was observed during the EIA study. Five (05) mammal species listed in Schedule-II, four (04) species listed in Schedule-III and two (02) species listed in Schedule IV were found. Mammalian species other than Schedule-I species such as Common jungle Cat (*Felis chaus Felidae*), Indian fox (*Vulpes bengalensis Canidae*), Common Languor (*Presbytis entellus Cercopithecidae*), Monkey (*Macaca mulatta Cercopithecidae*) etc. are found in the surrounding area.

Further, one avifaunal species (Peafowl-*Pavo Cristatusis*) reported under Schedule-I of WPA, 1972 and one (01) Herpetofauna species viz., Monitor Lizard (*Varanus bengalensis*) listed under Schedule-I of WPA, 1972, were found and observed. Avifaunal species other than Schedule-I species such as Common mynea (*Acridotheres tritis*), Oriental turtle Dove (*Streptopelia orientalis*), Common Cuckoo (*Cuculus canorus*), Common crow (*Corvus splendens*), Rock Pigeon (*Columba livia*), Spotted dove (*Streptopelia chinensis*), Chukar Partridge (*Alectoris chukaiz*) are found in the surrounding area.

Herpeto-Fauna species other than Schedule-I species such as Common Lizard (*Agama tuberculata*), Common house gecko (*Hemidactylus Brooki*), Indian cobra (*Naja Naja*) etc are also found in the surrounding area.


Pr. Chief Conservator of Forests (WL)
and Chief Wildlife Warden, Shimla

1.5 Conservation Activities and Development Works to be undertaken

Various plans and activities have been suggested for the conservation and preservation of flora & fauna as well as habitats and ecosystem of the region shall be done in the following approaches:

- I. Wildlife conservation & management plan
- II. Fire Protection Measures
- III. Monitoring Committee for periodical review

1.5.1 Wildlife conservation & management plan

During the present survey a total of Two (02) Schedule-I Species including one (01) Herpetofauna species i.e., Common Indian monitor (*Varanus Cengalensis*) and one (01) avifaunal species i.e., Peafowl- (*Pavo Cristatusis*) is reported/observed in the Dam Site and its environs (10 km radius). For conservation of these species, the direct and indirect approach is required to provide effective conservation. This may be achieved by conducting awareness programmes (community and institutional level) for conservation of peacocks and Common Indian monitor in the area and also through organizing competitions/trainings/workshops etc by the Wildlife agencies. Field studies for verification of presence of important flora & fauna. Some provision of rewards to informers for the control of poaching and illegal trade in wildlife, Provision of veterinary care and cages for injured or sick deformed birds and strategies to minimize negative impacts of changing environment in nearby area may also be done in order to maintain healthy environment for these species.

1.5.2 Special Staff or the Protection and Anti-poaching

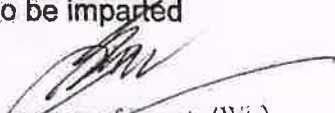
Staffs will be Trained/deployed by the forest department for patrolling and protection of the fauna and flora under their jurisdiction. Each of the trained staff will be equipped with relevant equipment and safety aids. Financial burden for the same has been included in financial projection of this Plan.

1.5.3 Training and Awareness Programme

This is the most important aspect of wildlife conservation. People will be educated regarding the importance of wildlife conservation through mass publicity by installing sign boards, conducting audio visual classes and distributing literature in respective villages in the Study area. Experts in the field of wildlife conservation will also be invited to deliver talks through slides.

1.5.4 Staff Development and Capacity Building

Under this sub-head specialized training in the field of management planning, park interpretation through conducting workshops / seminars / study tours for appraisal of good practices followed in other reserves. Apart from this training in the use of GIS systems and anti-poaching operations shall also be imparted


Pr. Chief Conservator of Forests (W.L.)
and Chief Wildlife Warden, Jammu & Kashmir

1.5.5 Upgradation and Modernization of Facilities

The treatment, rehabilitation & protection of animals and wildlife requires continuous efforts in improvement in facilities of Rehabilitation centres, Sterilization centres & Treatment centres. The upgradation of these facilities helps in fostering animal conservation.

1.5.6 Reducing Man Animal Conflicts

The villages near forest have small chunk of agricultural land and people are mainly depending upon rain fed crops. Wild animals often damage their crops which is the main man-animal conflict around the area. Training and workshops shall be conducted for Forest Staff and Communities to develop their knowledge and reduce the chances of Man Animal Conflict. Besides this, crop protection structures can be erected at prominent places and cages/traps to catch problematic animals can be deployed. Budget for the same has been kept under training and equipment purchase outlay of this plan.

1.5.7 Protection and Development of Habitats

The activities which may damage the habitat will be kept on watch. Conservation and Mitigation measures as per requirements shall be taken to protect Natural Habitat of Flora and Fauna.

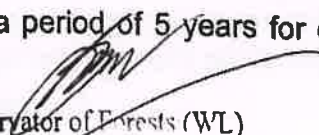
1.5.8 Procurement of Equipment

Various wildlife research and monitoring equipment such as equipment Nets, tranquilizers, cage & Vehicles will be procured for proper rescue and translocation of wildlife during emergency situation

The following conservation measures are proposed.

- Study Tour for Communities / officials
- Capacity Building training for Officials/Communities
- Information, Education and Communication (IEC) material for wildlife awareness
- Specific Studies as per decision of Chief Wildlife Warden (CWW)
- Purchase of Equipment such as Tranquilizer Guns, Trap Cameras, Cages Nets etc
- Conservation programs for Natural Habitats
- Incentives to Informers of Illegal hunting /poaching of animals
- Fencing of natural habitat to check the encroachment of shrinking habitat
- Strengthening of translocation centres of the district by one-time financial aid.

The activities shall be done for a period of 5 years for conservation of Wildlife and Biodiversity


Pr. Chief Conservator of Forests (WL)
and Chief Wildlife Warden (IP) Shimla

Financial Projection of Conservation and Preservation Measures

To implement the conservation plan, above works are proposed within forest area. To improve the habitat and conserve the flora and fauna following items of works are proposed and tentative financial allocation for the same is given in Table 2:

Table 1: Budget Allocation for Conservation and Preservation Measures

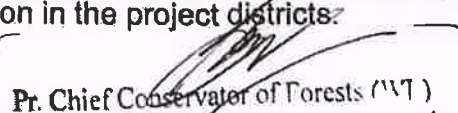
S.No	Activities	Budget to be allocated (INR) in Lakhs
1	Information, Education and Communication (IEC) material and Organising Wild Life Awareness Programmes for conservation of Natural Habitats and awareness of local people along with procurement of resources for local/communities/institutions	15.00
2	Study Tour for Communities / officials for Wildlife knowledge enhancement	10.00
3	Establishment of trained teams via Capacity Building Training and Emergency Response Training of Teams	10.00
4	Purchase of equipment's such as Nets, tranquilizers equipment, Emergency Response Equipment and Cages etc. for proper rescue and translocation of wild animals	10.00
5	Specific Studies as per decision of Chief Wildlife Warden (CWW)	5.00
6	Upgradation of MSC Tutikandi for Monkey Sterilization	30.00
7	Upgradation of Quarantine Facility Kufri Zoo	5.00
8	Squeeze cages for RR Tutikandi (3no.)	5.00
	TOTAL	90.00 Lakh

Table 2: Year Wise utilization % of Funds

Sr. No	Year	%age of funds utilization
1	1 st	30 %
2	2 nd	30 %
3	3 rd	20 %
4	4 th	10 %
5	5 th	10 %

1.6 Fire Protection Measures

Himachal Pradesh witnesses the fury of forest fire every year which causes destruction to thousands of acres of forest land every year. As part of the wildlife management plan SJVN shall allocate a budget of INR 10.00 lakh for fire protection measures which can be utilized by the State Forest Department for early detection, control and management of forest fire during the fire season in the project districts.


Pr. Chief Conservator of Forests (CVT)
and Chief Wildlife Warden (IIP) Sampla

1.7 Monitoring Committee

The monitoring and evaluation of conservation plan and wildlife conservation & management plan of Sunni Dam HEP will be carried out by a Monitoring Committee.

The activities of Committee shall be under the direct administrative control of the Chief Wildlife Warden/Principal Chief Conservator of Forests, Himachal Pradesh. The committee will comprise of the following members:

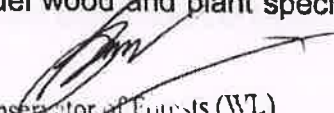
Chief Wildlife Warden/Principal Chief Conservator of Forests, Himachal Pradesh	Chairman
Head of Project or his/her representative	Member
Divisional Forest Officers	Members(s)
Renowned wildlife expert	Member
Local body representative at least two panchayats one from each district (on rotational basis)	Members(s)

The Chairman of the committee will have the right to assign various activities to various members for proper functioning and result-oriented tasks. The committee will monitor the progress of the proposed plan. Total financial outlay for the Committee would be INR 05.00 lakhs only.

1.8 Good Practices during project Construction

For supporting the efficient and effective implementation of the wildlife conservation management in the project area, conservation and management of the wildlife habitat and population the following good practices will be adhered by contractor and the SJVN during construction period.

- Adequate measures to prevent exposure of any of local floral and faunal species from the wastes generated during construction activities must be ensured through the immediate wastes collection and storage of waste on designated location;
- Construction vehicles should use the designated Right of Way (RoW) only at all times to minimize soil compaction and impacts on vegetation;
- Use dust screens in the construction site during all construction activities.
- The Project authority will be bound by the rules and regulations of the Wildlife Protection Acts or any such agency of the State, which may exist or will be promulgated from time to time for the preservation of habitats and protection of biodiversity.
- Temporary construction facilities (TCF), site office and material laydown yard should be constructed in low vegetation areas and away from wildlife habitats. Further, efforts should be made to minimize the footprint of the TCF using appropriate technologies such as provision of energy-efficient lighting, waste & water management in accordance to applicable standards of the state and central govt.
- All workers of project will be provided with identity cards and would not be allowed to enter in forest areas and villages without a valid permission. The exploitation of forest produce including fuel wood and plant species would be prohibited.


Pr. Chief Conservator of Forests (WL)
and Chief Wildlife Warden (HP) Shimla


- Use regular dust suppression (water and dust stop powder etc.) in the designated Right of Way and construction areas to reduce/minimize dust generation
- Considering the movement of wild animals at night, project proponent shall adopt a controlled blasting. Workers will be encouraged to remove alien and invasive plant species from the working sites. The workers will be discouraged to plant any alien species in project areas.
- Any construction, chemical, or hazardous wastes generated during the construction stage should be appropriately collected, stored, and disposed of to minimize exposure to flora and fauna.


1.9 Cost Estimates

The overall cost of works under site specific conservation plan and wildlife conservation & management plan for Sunni Dam HEP (382 mw) would be INR 105.00 Lakh as given in table-3

Table 3: Estimated Cost of conservation plan and wildlife conservation & management

S.N.	Item	Amount (Rs. Lakh)
1.	Conservation Plan for Wildlife	90.00
2.	Fire Protection Measures	10.00
3.	Monitoring Committee	05.00
	Total	105.00 Lakh


 P. Chief Conservator of Forests (WL)
 and Chief Wildlife Warden (HP) Namla

	एसजेवीएन लिमिटेड	कार्यालय: नर्मदा नदी निर्माण, नियमित पर्यावरण विभाग, शक्ति भवन, अमरावती, जिला भिमाणा, रियासत प्रदेश - 471006 टेलीफोन नं. - 0177-2660180 ईमेल - env@sjvn.com , space@sjvn.com
	मिनी-रत्न शिड्यूल 'A' पीएसयू नियमित पर्यावरण विभाग ISO 9001:2015 Certified	SJVN/CC/ENV/F38/173 Dated: 27/02/2022

To

Member Secretary,
 River Valley and Hydroelectric Projects,
 MoEF&CC, Govt. of India,
 Indra Paryavaran Bhawan, Jor Bagh,
 New Delhi - 110003
 E-mail: 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-1**) 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.	

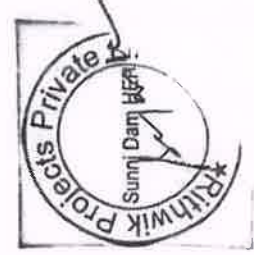
3	5. III. i	Conjunctive use of surface water to be planned in the project to check water logging as well as to increase crops productivity. The field drains shall be connected with natural drainage system.	<p><i>It is therefore proposed that the said conditions may be deleted.</i></p> <p>This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.</p> <p><i>Therefore, said condition is proposed to be deleted.</i></p>
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.	<p>This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.</p> <p><i>Therefore, said condition is proposed to be deleted.</i></p>
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.	<p>This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.</p> <p><i>Therefore, said condition is proposed to be deleted.</i></p>
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.	<p>This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.</p> <p><i>Therefore, said condition is proposed to be deleted.</i></p>
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.	<p>This condition may have been included inadvertently here as it applies to irrigation projects. Sunni Dam HEP is a hydropower project.</p> <p><i>Therefore, said condition is proposed to be deleted.</i></p>

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,


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

Enclosures: As above



MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF APRIL -2024 (01.04.2024 to 30.04.2024)					
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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	20,000	20,000		The muck generated is being utilized for a) Upstream and Downstream dyke b) Bench development work at private land for job facilities at Right bank. c) Protection work for approach roads, camps, workshop etc. d) Approach road work at Lunsu Dumping yard.
2	Dam and Intake	3,600	3,600	23,600.00	

MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF May -2024 (01.05.2024 to 31.05.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	14,426	14,426	30,376.05	The muck generated is being utilized for a) Upstream and Downstream dyke b) Bench development work for job facilities at Right bank. c) Protection work for approach roads. d) Approach road work at Lunsu Dumping yard.
2	Dam and Intake	15,950	15,950		



MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF JUNE -2024 (01.06.2024 to 30.06.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	9,106	9,106		<p>The muck generated is being utilized for</p> <p>a) Bench development work for job facilities at Right bank.</p> <p>b) Protection work for approach roads.</p> <p>c) Approach road work at Lunsu Dumping yard.</p> <p>d) Lunsu dumping yard.</p>
2	Dam and Intake	2,500	2,500		
				11,606.00	



Rithwik Projects Pvt. Ltd.
Sunni Dam, HEP (382 MW)

MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF JULY -2024 (01.07.2024 to 31.07.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	9,260	9,260		The muck generated is being utilized for a) Bench development work for job facilities at Right bank. b) Protection work for approach roads. c) Approach road work at Lunsu Dumping yard. d) Lunsu dumping yard.
2	Dam and Intake	5,100	5,100	14,360.00	



Rithwik Projects Pvt. Ltd.
 Sunni Dam, HEP (382 MW)

MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF AUGUST -2024 (01.08.2024 to 31.08.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	500	500		The muck generated is being utilized for a) Bench development work for job facilities at Right bank. b) Protection work for approach roads. c) Approach road work at Lunsu Dumping yard. d) Lunsu dumping yard.
2	Dam and Intake	129		129	
				629.00	



Rithwik Projects Pvt. Ltd.
 Sunni Dam, HEP (382 MW)

MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF SEPTEMBER -2024 (01.09.2024 to 30.09.2024)

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)		
			Generated	Utilized	Location of utilization
1	Power House Complex	8,000	8,000		<p>The muck generated is being utilized for</p> <p>a) Bench development work for job facilities at Right bank.</p> <p>b) Protection work for approach roads.</p> <p>c) Approach road work at Lunsu Dumping yard.</p> <p>d) Lunsu dumping yard.</p>
2	Dam and Intake	9,000	9,000	17,000.00	



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

Indira Paryavaran Bhawan
Jorbagh Road, Aliganj
New Delhi - 110 003
Dated: 22nd December, 2021

To,

The Addl. Chief 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.Ft.48-3705/2017 (FCA) dated 06th July, 2021 and letter No. Ft. 48-3705/2017 (FCA) dated 26.10.2021 on the above mentioned subject, seeking prior approval of Central Government under Section-2 of the Forest (Conservation) Act, 1980, and to say that the said proposal has been examined by the Forest Advisory Committee (FAC) constituted by the Central Government under Section-3 of the aforesaid Act.

2. After careful consideration of the proposal of the Government of Himachal Pradesh and on the basis of the recommendations of the Forest Advisory Committee, the Central Government hereby agrees to accord "*In-principle*" approval under 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 Hydroelectric Project (382 MW) within the jurisdiction of Shimla, Kotgarh and Karsog Forest Divisions, in District Shimla and Mandi, Himachal Pradesh subject to the following conditions:

A Conditions which need to be complied prior to submission of compliance report for seeking Stage-II approval

1 Compensatory Afforestation (CA):

- (i) The cost of Compensatory Afforestation at the prevailing wage rates as per CA scheme and the cost of survey, demarcation and erection of permanent pillars, if required on the CA land, shall be deposited by the user agency. The CA will be maintained for 10 years. The scheme may include appropriate provision for anticipated cost increase for works scheduled for subsequent years. 25% of CA cost will be deposited extra by the user agency for soil and moisture conservation (SMC) activities on the CA land;
- (ii) Compensatory levies to be realized from the User Agency under the project shall be transferred/ deposited, through e-challan, into the account of CAMPA pertaining to the State concerned through e-portal (<https://parivesh.nic.in/>);


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- (iii) State government shall submit a certificate that no plantation activities have been carried out by the Forest department under any scheme/plan/programme in the land proposed for CA in last 10 years;
- (iv) *The 9 Compensatory Afforestation sites pointed out by IRO Shimla would be revisited by the State Government and it will be ensured that the areas proposed are suitable for planting, do not include MDF/VDF and do not overlap with any other area;*
- (v) All the funds received from the user agency under the project shall be transferred/ deposited to CAMPA fund through e-portal (parivesh.nic.in) only;

2 NPV:

The User Agency shall transfer the funds towards the cost of Net Present Value (NPV) of the forest land being diverted under this proposal from the User Agency as per the orders of the Hon'ble Supreme Court of India dated 28.03.2008, 24.04.2008 and 09.05.2008 in Writ Petition (Civil) No. 202/1995 and the guidelines issued by this Ministry vide its letter No. 5-3/2007-FC dated 05.02.2009 through online portal of CAMPA account of the State Concerned;

- 3 The approved Catchment Area Treatment (CAT) Plan is to be implemented at the cost of user agency. The commensurate cost of CAT plan will be deposited in the CAMPA account through e-portal only;
- 4 *The adequate corrections in the component-wise breakup and the layout plan shall be done as suggested by the sub-committee of the FAC.*
- 5 The correct and complete KML files of diverted area and the CA areas shall be uploaded on the *E-greenwatch* portal with all requisite details;
- 6 State Government shall complete the settlement of rights, in term of the Scheduled Tribes and Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, if any, on the forest land to be diverted and submit the documentary evidence, as prescribed by this Ministry's letter No. 11-9/1998-FC (Pt.) dated 03.08.2009 read with 05.07.2013, in support thereof;
- 7 The compliance report shall be uploaded on **e-portal** ([https:// parivesh.nic.in/](https://parivesh.nic.in/)).


B. Conditions which need to be complied on field after handing over of forest land to the user agency by the State Forest Department and undertaking in this respect shall be submitted prior to Stage-II approval

- 1 Legal status of the diverted forest land shall remain unchanged;
- 2 CA 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. As far as practicable a mixture of local indigenous species will be planted and monoculture of a species has to be avoided;
- 3 *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 safety measures, engineering structures and instrumentation, as suggested by IIT (ISM) Dhanbad, should be strictly followed.*
- 5 *The user agency should preserve the top soil of the excavated area so that proper reclamation of the site could be achieved.*
- 6 *The bio-reclamation of the area should be done with suitable species of grasses, shrubs and trees, in close coordination with the forest department.*
- 7 The State Government will ensure that the R&R Plan is implemented 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. 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;
- 8 At the time of payment of the NPV at the present rate, the user agency shall furnish an


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- undertaking to pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India;
- 9 The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;
 - 10 The land identified for the purpose of CA shall be clearly depicted on a Survey of India toposheet of 1:50,000 scale
 - 11 The State government will carry out adequate Soil and Moisture Conservation works in the catchment area (e.g. stop dams, sunken pits, contour trenches, percolation pits, etc.) to gets enough recharge of water. These works would be in addition to the plantation proposed to be done under CA;
 - 12 The State Government shall ensure that the forest land located between FRL and the FRL-4 meters may be afforested by planting appropriate indigenous tree species;
 - 13 The User agency shall provide free water for the forestry related projects;
 - 14 No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;
 - 15 User agency shall ensure water discharge in downstream of the project to maintain minimum 'environmental flow'.
 - 16 No construction of buildings /labour camp/huts shall be allowed on the forest land;
 - 17 User agency in consultation with the State Forest Department shall create and maintain alternate habitat/home for the avifauna, whose nesting tress 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;
 - 18 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 under the supervision of the State Forest Department.
 - 19 The User Agency shall obtain the Environment Clearance as per the provisions of the Environmental (Protection) Act, 1986, if required;
 - 20 No labour camp shall be established on the forest land and 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;
 - 21 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;
 - 22 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;
 - 23 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;
 - 24 The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;
 - 25 No damage to the flora and fauna of the adjoining area shall be caused;
 - 26 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
 - 27 No muck/debris is thrown/dumped on the river/stream bed. The muck shall be dumped on the designated dumping sites only. Excavation shall be carried out in a scientific way to avoid rolling down of muck into river/stream;
 - 28 The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any,


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for the time being in force, as applicable to the project.

- 29 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
- 30 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 to this Ministry by the end of March every year;
3. After receipt of compliance report on fulfillment of the conditions mentioned above, the proposal shall be considered for final approval under Section-2 of the Forest (Conservation) Act, 1980. Transfer of forest land shall not be affected till final approval is granted by the Central Government in this regard.

Yours sincerely,


(Suneet Bhardwaj)

Asst. Inspector General of Forests (FC) 24/11/2021

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 Hectare |
| 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.

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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 14th 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 87th meeting held on 28th Dec, 2022 with following features:

- | | | |
|---|---|--|
| a. Online SEIAA Proposal No. | : | SIA/HP/MIN/65903/2021 HP SEIAA/2021-854 (TORs)
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
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)
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:
i) Construction phase: Developer/ Project Proponent.
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 60th meeting held on 17th Feb., 2023 and considered the recommendations made by SEAC in its 87th meeting held on 28th 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 14th September, 2006 of Ministry of Environment & Forests, GoI 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 2nd 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 2nd 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 29th 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). 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, NO₂, CO₂ and SO₂ 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 wall 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 runoff; 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 to 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 (Nallahs/Buyer Ponds etc). The collected water should be utilized for watering the mine area, roads, green belt

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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 × 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, Knøe 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 device 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 Terminalla bellirica species known as baheda and other shrubs, tress 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.


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


Endst. No. As Above.

Dated:

2023.

Copy to following for further necessary action:

1. The Secretary (Environment), Ministry of Environment, Forests & Climate Change (MoEF&CC), Gol, Indira 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, Gol, Indira 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, Gol, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi - 110003
8. Record File.


(Lalit 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: 23rd 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.Ft.48-3705/2017 (FCA) dated 06th 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;


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;


23/08/2022

- 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 tress 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


23/08/2022

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)

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
 10th FLOOR, PHASE-III, NEW BHIMLA, 171009

HPSPCB No: 66

Date: 06/08/2022

Industry Registration ID: HP00377391

Application No: 62116/11

To,
 Sumi Dam HEP (382 MW)
 Kullam Colony, Sumi
 Sumi
 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/ACTH/NEW/RI/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	Suminder Pal Bansal, (Director)
Address of Industrial premises	Sumi Dam HEP (382 MW), Kullam Colony, Sumi, Sumi, Shimla-171301
Capital Investment of the Industry	261451.0 lakhs
Category of Industry	Resi
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	1416.31 Crore Cubic meter per year	Cubic Meter/Year
		K.G./Month

Handwritten notes:
 J.C.P.
 Sumi Dam / Env /
 Study
 Record /
 H

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.

Apoorv Deygan, IAS
Member Secretary
For & on behalf of



(H. P. State Pollution Control Board)

Encls. No.:

Copy To:-

1. The Regional Officer, HSPCB, 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 8UNNI
 Dairy 27/08
 Date: 08.08.2022

Handwritten signature
 23/08/2022

HOP/SGM

2) WSR. AGM (Envr.)

CC: AGM (C)

CC: DGM (PP&M)

"This is computer generated document from HPOCMMS"
 To verify this document please scan the QR Code.

TERMS AND CONDITIONS

A. SPECIFIC CONDITIONS

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

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

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

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

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

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

$$De = 2 LW / (L+W)$$
 Where L = length in mts. W = Width in mts.
- ii) The sampling port shall be 7 to 10 cm in diameter
- 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
 $H = 14 (Qg)^{0.31}$
 $H = 7.4 (Qp)^{0.34}$
 Where Qg = Quantity of SO₂ in Kg/ln.
 Qp = 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://hpcpcb.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(S)-6/2013, dated-07-03-2014 (If Applicable).
5. Hydroelectric Projects shall install Online Real Time Monitoring System for the measurement of 15% of minimum discharge in lean season as per orders of Court/Government. The unit shall also ensure provisions for the regular and uninterrupted transfer of data from the real time online monitoring system for 15% of minimum discharge of flow to SPCB, failing which unit shall be liable for action on account of violation of the directions issued by Court/Government/SPCB in this regard (If Applicable).
6. Unit shall strictly adhere to the capacity approved by the Industries Department/ Department of Tourism & Civil Aviation/any other concerned Authority (As Applicable).
7. The unit shall not cause any nuisance/traffic hazard in vicinity of the area.
8. The unit shall ensure that there will not be significant visible dust emissions beyond the property line.
9. The unit shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.
10. The unit shall put display Board indicating environmental data in the prescribed format at the main entrance gate.
11. The unit shall maintain record regarding the operation of effluent treatment plant i.e. record of quantity of chemicals and energy utilized for treatment and sludge generated from treatment so as to satisfy the Board regarding regular and proper operation of pollution control equipment.
12. Any amendments/revisions made by the Board/CPCB/MOEF in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.

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.



By Order

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Page 7 of 8

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
Work Management
Complaints
Environmental Scrutiny
Public Information
Help

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



Send us your feedback and suggestions

click here for any help
02224510101/02224510102

In-progress Application

Application No	Application Date	Application For	Application Type	Certificate For	Status	Scrutiny Status	Scrutiny's By	Scrutiny's Date	Scrutiny's Group	Scrutiny's Officer
10222522	05-10-2023	both	Sinai Dam	HEP 382 MW	CTE	in-progress	in-progress	05-10-2023	RO-Shamla	JEE-II

Submitted Application

Annexure - IX



Sunni Dam HEP
Updated DPR

~~Annexure - V - IX~~



भारत सरकार Government of India
केंद्रीय जल आयोग Central Water Commission
वीन अभियंत्रिकी एवं विज्ञान विभाग F. E. & S. A. Directorate
आष्टी नगर (3), सेवा भवन 7 कृ पुरम नई दिल्ली 110066
दूरभाष / फोन Tel/Fax: 011-29583734 ई मेल / e-mail: fesadte-cwc@nic.in

No. 2/2/2017 (Vol-I)/FE&SA/145

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.

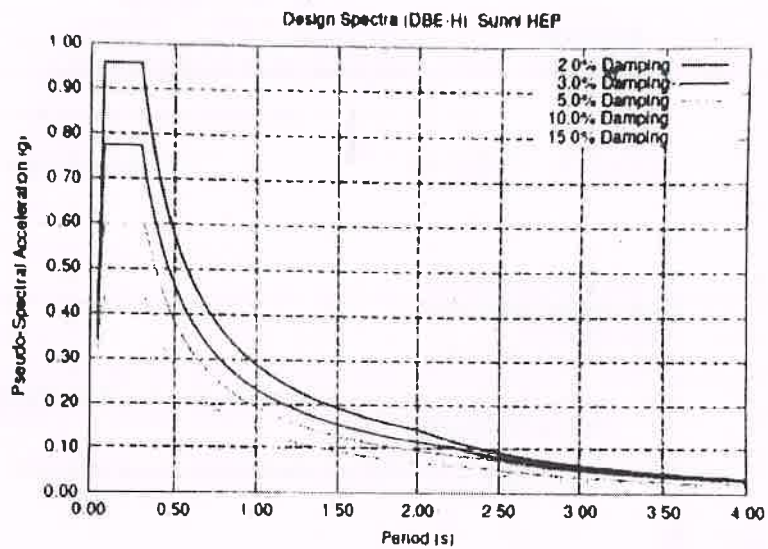
The NCSDP has approved study report of aforesaid project in its 34th meeting held on 26th February, 2019.

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)

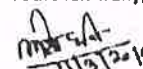


(b) Other seismic parameters

Max. Credible Earthquake	8.0	Horizontal distance to surface projection of fault (R_m) (km)	5
Horizontal seismic co-efficient (α_h)	0.24	Vertical seismic co-efficient (α_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,

o/c

 11/13/2019
 (Goverdhan Prasad)
 Director (FE&SA) &
 Member-Secy (NCSDP)



सर्वोच्च
Government of India
विद्युत विभाग
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
हाइड्रो प्रोजेक्ट आनुमति विभाग
Hydro Project Approval Division

Annexure VIII X

No. 211/SEC/EA/DIR/PAC/01/12/20

Date: 11.02.2021

OFFICE MEMORANDUM

Subject: Accord of Concurrence to Sumi Dam (4x73 MW+4x73 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 Sumi Dam HEP (4x73 MW+4x73 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, MoS (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-25-12/1/2019-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 PI.) 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:-

- Price Escalation
- Change in Law
- Change in quantities (duly approved by competent authority) due to Geological Surprises.
- 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:

8/5

- (i) 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 E&M design & Power Evacuation etc as given in Annex -IV and as incorporated in the final DPR.
- (iii) M/s SJVNL shall comply to the suggestions/observations of GSI 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 GSI. Results of explorations/investigations shall be communicated from time to time for concurrence of CEA/CWC/GSI 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 & Geotechnical 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., GSI, 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 got concurred from the Authority (CEA) before M/s SJVNL implements such changes.
- (ix) Tariff 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.

- for obtaining their clearance.
- (xii) 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. 15011/1/2015-PP Dated 13.12.2015 (the corrected letter as forwarded by MoWR, RD&GR, vide letter no. 15011/1/2015-PP Dated 22.12.2016, copy attached at Annexure-VII) for project design and shall ensure adequate flow for different months as prescribed by MoEF&CC particularly during lean months and longitudinal connectivity.
- (xiii) As per ISM-2 Dte., CWC letter dated 13.10.2019, there should not be any consumptive use of water as no allocation of Salluj water has been made to State of Himachal Pradesh as per Bhakra Nangal Agreement, 1959 and other conditions mentioned in WDMB letter dated 13.01.2012 (Copy enclosed at Annex-VIII).
- (xiv) 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.
- (xv) 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.
- (xvi) M/s SJVNL shall take appropriate precautions to avert flooding of powerhouse by adopting measures listed at Annexure - IX.
- (xvii) 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.
- (xviii) M/s SJVNL shall obtain the clearance from Ministry of Defence & shall comply with the conditions stipulated therein.
- (xix) 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.
- (xx) M/s SJVNL have obtained clearance from International angle from Ministry of Water Resources, RD&GR (now Ministry of Jal Shakti) vide letter no. Y-19011/1/2015-PP/1027-30 Dated 12.03.2018. M/s SJVNL shall comply with the condition stipulated in the clearance letter (copy attached at Annex-XI).
- (xxi) M/s SJVNL shall comply with the guidelines for participation of foreign Companies in tendering for work packages of Hydro Electric Projects in sensitive areas, issued by Ministry of Power vide No. 11/2003-100(NIIPC) [Vol. II], dated 03.09.09 appended at Annex-XII.
- (xxii) 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.

File No. CEA-SY-25-12/1/2019-PAC Division

- (xxiii) M/s SJVNL shall ensure availability of adequate quantities of rock/sand from quarries/excavated 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 11.09.1999 and its amendment dated 27.08.2004 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/s, 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 tying up essential inputs/statutory clearances, results of investigations/studies shall be submitted by M/s SJVNL to CEA/CWC/GSI/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 CEA 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/clarifications 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 01st June, 2021.
- i) 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 Concurrence recorded to the scheme by CEA and award of one of major civil packages (either Dam or HRT or Powerhouse) by M/s SJVNL is three years or more, a fresh Concurrence of CEA shall be obtained by M/s SJVNL.
- (xxx) The project developer has to approach CTU to seek connectivity/Long Term Access (LTA) 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 LTA, as per CERC Regulations. The developer must

File No.CEA-SY-25-12/1/2019-PAC Division

1. Chairman-cum-Managing Director, M/s SJNV Ltd., Corporate Office Complex, Shanau, Shimla-171006 (HP).
2. Secretary, Ministry of Power, Govt. of India, Shram Shakti Bhawan, Rafi Marg, New Delhi -110119.
3. Secretary, MoEF&CC, Government of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi -110003.
4. Chairperson, Central Electricity Regulatory Commission, 3rd & 4th Floor, Chandernagore Building, 36, Janpath, 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, Saudamini, Plot No.2, Sector 29, Gurgaon - 122001 (Haryana).
9. Adviser (Energy), Neeti Ayog, Yojana Bhawan, New Delhi - 110001
10. Member (Hydro/Planning/Thermal/Grid Operation & 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 -110606.
12. Joint Secretary (Hydro), Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110119.
13. Commissioner (Indus Wing), Ministry of Water Resources, RD&GR, 2nd Floor, Block-3, CGO Complex, Lodhi Road, New Delhi-110003.
14. Chief Engineer (HPPA/PSP&PA-I/F&CA/TCD/Legal/HEPR/HPP&H/E&TD), CEA, Sewa Bhawan, R.K. Puram, New Delhi - 110606.
15. Chief Engineer (PAO), CWC, Sewa Bhawan, R.K. Puram, New Delhi - 110066.
16. Chief Engineer, Design (NW&S), CWC, Sewa Bhawan, R.K. Puram, New Delhi -110066.
17. Director (JHM&EPE Division), Geological Survey of India, A-11, Pushpa Bhawan, Madangir Road, New Delhi - 110062.
18. Director, CSMRS, Olof Palme Marg, Hauz Khas, New Delhi-110016
19. Director [PA(H)/Hydrology(H)/CMD(H/NW&S)/ICD(H/NW&S)/F&S/ISM/CA-HW/H/CMC/Instrumentation], CWC, Sewa Bhawan, R.K. Puram, New Delhi - 110066.

condensed mode.

- (xxxii) Revalidation of Concurrence can also be considered, in case, the reason for delay in award of one of major civil packages (either of Dam/HRT/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.
- (xxxiii) Concurrence is subject to compliance by M/s. SJVNL, of various policies/guidelines etc. issued by Govt. of India from time to time.
- (xxxiii) M/s SJVNL shall comply strictly the "Public Procurement (Preference to make in India) Order, 2017 (PPP-MII Order)" issued by Department of Industrial Policy and Promotion, Ministry of Commerce & Industry, Govt. of India vide its letter no. P-45021/2/2017-B.E.-II dated 15.06.17. (Copy enclosed at Annex-XIII).
4. Monthly Status Report of compliance of the conditions stipulated under para 3 of this Concurrence letter shall be submitted by M/s. SJVNL to Chief Engineer (HPA), CEA.
 5. 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.

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

(V.K. Mishra)
Secretary, CEA

To,
As per list



Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	220424L-ED-001/A		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#	01 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	22/04/2024			
Period of Analysis	22/04/2024 To 26/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Near Main Office			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	26/04/2024			
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 ³	80.5	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	39.8	Max. 60	IDL/SP/03, Issue No-1
3	SO ₂	µg/m ³	14.6	Max. 80	IS 5182 (Part 2)
4	NO ₂	µg/m ³	16.7	Max. 80	IS 5182 (Part 6)
5	NH ₃	µg/m ³	23.5	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m ³	22.8	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.inEmail : commercial@idmalab.co.in

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- Samples not drawn by us unless otherwise stated.
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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-001/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a

Represents details provided by the customer.

End of Report

[Signature]
Reviewed by



[Signature]
26/04/24
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827,- 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited

TEST REPORT

Lab No.	220424L-ED-001/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#	01 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	22/04/2024		
Period of Analysis	22/04/2024 To 26/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Satish
Sampling Location#	Near Main Office		
Visual Observation	N/A		
Date of Sampling	18/04/2024		
Date of Reporting	26/04/2024		
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 ³	0.55	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.11	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<2.0	Max. 01	IS 5182 (Part 12)

Represents details provided by the customer.

End of Report

Reviewed by
26/04/24



18/04/24
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-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#	01 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	22/04/2024			
Period of Analysis	22/04/2024 To 26/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Right Abutment Near MAT			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	26/04/2024			
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 ³	78.4	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	35.8	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m ³	15.9	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m ³	17.3	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m ³	21.8	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m ³	22.8	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a

Reviewed by
[Signature]
26/04/24

Authorised signatory
[Signature]
26/04/24



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-002/A				Page No.	2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m ³	<0.1	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

End of Report

Dipti Jain
Reviewed by



[Signature]
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

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Idma Laboratories Limited

TEST REPORT

Lab No.	220424L-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#	01 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	22/04/2024		
Period of Analysis	22/04/2024 To 26/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Satish
Sampling Location#	Right Abutment Near MAT		
Visual Observation	N/A		
Date of Sampling	18/04/2024		
Date of Reporting	26/04/2024		
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 ³	0.50	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.14	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)

Represents details provided by the customer.

End of Report

Reviewed by
Dipti Jain
Asst. Test Manager



Authorised signatory
26/04/24



Idma Laboratories Limited

Idma Corporate Park,

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Panchkula - 134113,

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Idma Laboratories Limited



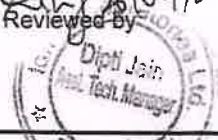
TEST REPORT

Lab No.	220424L-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#	01 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	22/04/2024			
Period of Analysis	22/04/2024 To 26/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Batching Plant Area			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	26/04/2024			
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 ³	79.4	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	38.7	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m ³	16.2	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m ³	18.1	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m ³	20.8	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m ³	21.7	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a

Reviewed by: *[Signature]*
26/04/24



Authorised signatory: *[Signature]*
26/04/24



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Lab No.		220424L-ED-003/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
9	Lead	µg/m³	0.12	Max. 1.0	EPA/625/R-96/010a	

Represents details provided by the customer.

End of Report

Dipti Jain
Reviewed by



Kartar Singh
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited

TEST REPORT

Lab No.	220424L-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#	01 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	22/04/2024		
Period of Analysis	22/04/2024 To 26/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Satish
Sampling Location#	Batching Plant Area		
Visual Observation	N/A		
Date of Sampling	18/04/2024		
Date of Reporting	26/04/2024		
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 ³	0.46	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.09	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)

Represents details provided by the customer.

End of Report

Signature
26/04/24
Reviewed by
Dipti Jain
Test Tech. Manager
Panchkula

Signature
26/04/24
Authorised signatory
Kaushal
Idma Laboratories Limited
Panchkula

Idma Laboratories Limited

Idma Corporate Park,
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Panchkula - 134113,
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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-004/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#	01 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	22/04/2024			
Period of Analysis	22/04/2024 To 26/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Near Dam Site.			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	26/04/2024			
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 ³	82.7	Max. 100	IS 5182 (Part 23)
2	PM2.5	µg/m ³	39.8	Max. 60	IDL/SP/03, Issue No-1
3	SO2	µg/m ³	17.1	Max. 80	IS 5182 (Part 2)
4	NO2	µg/m ³	18.3	Max. 80	IS 5182 (Part 6)
5	NH3	µg/m ³	20.7	Max. 400	IS 11255 (Part 6)
6	Ozone	µg/m ³	22.7	Max. 100	IS 5182 (Part 9)
7	Arsenic	ng/m ³	<1	Max. 06	EPA/625/R-96/010a
8	Nickel	ng/m ³	<8	Max. 20	EPA/625/R-96/010a

Reviewed by

Authorised signatory

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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-004/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
9	Lead	µg/m ³	0.14	Max. 1.0	EPA/625/R-96/010a

Represents details provided by the customer.

End of Report

Dipti Jain
26/04/24
Reviewed by

Karver Singh
26/04/24
Authorised signatory

Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

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Idma Laboratories Limited

TEST REPORT

Lab No.	220424L-ED-004/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#	01 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	22/04/2024	
Period of Analysis	22/04/2024 To 26/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Satish
Sampling Location#	Near Dam Site.	
Visual Observation	N/A	
Date of Sampling	18/04/2024	
Date of Reporting	26/04/2024	
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 ³	0.43	Max. 02	IS 5182 (Part 10)
2	Benzene	µg/m ³	2.22	Max. 05	IS 5182 (Part 11)
3	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 01	IS 5182 (Part 12)

Represents details provided by the customer.

End of Report

Reviewed by
Dipti Jain
26/04/24

Authorised signatory
Kartar Singh
26/04/24



Idma Laboratories Limited

Idma Corporate Park,

391, industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

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Idma Laboratories Limited



TEST REPORT

U LR : TC820724700001869F

Lab No.	240424L-FD-018	Page No. 1/3
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Dist.- Shimla Himachal Pradesh	
Type of Sample#	Ro Water	
Customer's Description of Sample#	Ro Water	
Quantity#	5 Ltr+250 ml	
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle, Location-Workman Camp Chabdi	
Mode of Collection of Sample	Sample Collected By Lab Person	
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated 15/06/2023
Date of Receipt of Sample	24/04/2024	
Period of Analysis	24/05/2024 To 01/05/2024	
Visual Observation	N/A	
Date of Reporting	01/05/2024	
Testing Protocol	IS 10500:2012: Amdt 1 to 4	

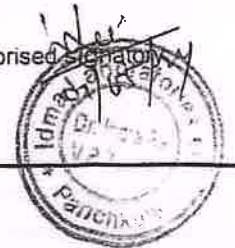
RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	--	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.19	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Boron	mg/L	0.0013	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
5	Calcium (as Ca)	mg/L	13.3	Max. 75	Max. 200	IS 3025 (Part 40) :1991
6	Chloride (as Cl)	mg/L	8.8	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
7	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
8	Total Hardness (as CaCO3)	mg/L	43.7	Max. 200	Max. 600	IS 3025 (Part 21) : 2009
9	Nitrate (as NO3)	mg/L	BLQ (LOQ-1.0)	Max. 45	No Relaxation	IS 3025 (Part 34) :1988
10	Total Dissolved Solids	mg/L	51	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023

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Idma Laboratories Limited

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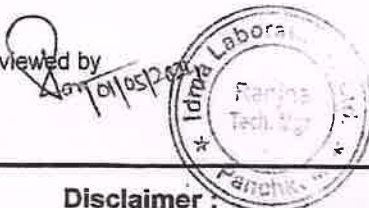


TEST REPORT

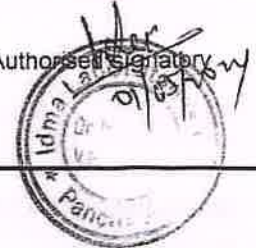
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Lab No.		240424L-FD-018				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Sulphate (as SO ₄)	mg/L	4.9	Max. 200	Max. 400	IS 3025 (Part 24) :1986
12	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
13	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
14	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 28) : 2021
METALS:						
15	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
16	Copper (as Cu)	mg/L	0.0055	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
17	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
18	Lead (as Pb)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 47) : 1994
19	Manganese (as Mn)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	0.0109	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.0008	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	0.0014	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	0.0163	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
26	Magnesium (as Mg)	mg/L	2.5	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022

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TEST REPORT

U/LR : TC820724700001869F

Lab No.		240424L-FD-018				Page No. 3/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	-	-	-	-	-
29	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185: 2016
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185: 2016

Opinion :

Remark: The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ : Below limit of quantification, LOQ :limit of quantification

Represents details provided by the customer.

****End of Report****



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TEST REPORT

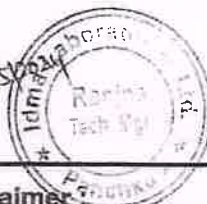
ULR : TC820724700001870F

Lab No.	240424L-FD-019		Page No. 1/3
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample#	Borewell Water		
Customer's Description of Sample#	Borewell Water		
Quantity#	5 Ltr+250 ml		
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle, Location-Near Site Batching Plant		
Mode of Collection of Sample	Sample Collected By Lab Person		
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023
Date of Receipt of Sample	24/04/2024		
Period of Analysis	24/04/2024 To 01/05/2024		
Visual Observation	N/A		
Date of Reporting	01/05/2024		
Testing Protocol	IS 10500:2012 Amdt 1 to 4		

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.13	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Boron	mg/L	0.0013	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
5	Calcium (as Ca)	mg/L	68.2	Max. 75	Max. 200	IS 3025 (Part 40) :1991
6	Chloride (as Cl)	mg/L	34.5	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
7	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
8	Total Hardness (as CaCO3)	mg/L	214.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009
9	Nitrate (as NO3)	mg/L	BLQ (LOQ-1.0)	Max. 45	No Relaxation	IS 3025 (Part 34) :1988
10	Total Dissolved Solids	mg/L	260	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023

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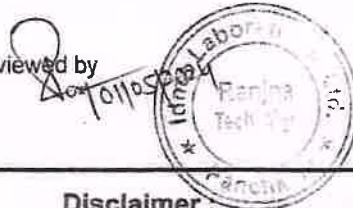


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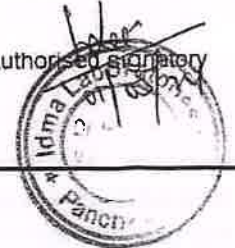
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Lab No.		240424L-FD-019				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
11	Sulphate (as SO ₄)	mg/L	12.9	Max. 200	Max. 400	IS 3025 (Part 24) :1986
12	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
13	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
14	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
METALS:						
15	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
16	Copper (as Cu)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
17	Iron (as Fe)	mg/L	0.0011	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
18	Lead (as Pb)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 47) : 1994
19	Manganese (as Mn)	mg/L	0.0027	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	0.0018	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.0040	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	0.0077	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
26	Magnesium (as Mg)	mg/L	10.6	Max. 30	Max. 100	IS 3025 (Part 46) :2023
27	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022

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TEST REPORT

U LR : TC820724700001870F

Lab No.		240424L-FD-019				Page No. 3/3
S. No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
28	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	-	-	-	-	-
29	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185: 2016
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185: 2016

Opinion :

Remark: The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ : Below limit of quantification, LOQ : limit of quantification

Represents details provided by the customer.

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TEST REPORT

ULR : TC820724700001871F

Lab No.	240424L-FD-020	Page No.	1/3
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri , Chouki, Post- Khaira, Teh.- Sunni Distt.- Shimla Himachal Pradesh		
Type of Sample#	Ro Water		
Customer's Description of Sample#	Ro Water		
Quantity#	5 Ltr+250 ml		
Packing, Markings, Seal & Quantity#	Plastic Can+Glass Bottle, Location-Bharara Camp		
Mode of Collection of Sample	Sample Collected By Lab Person		
Work Order No.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023
Date of Receipt of Sample	24/04/2024		
Period of Analysis	24/04/2024 To 01/05/2024		
Visual Observation	N/A		
Date of Reporting	01/05/2024		
Testing Protocol	IS 10500:2012 Amdt 1 to 4		

RESULTS

S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
	Chemical Testing (Water)	-	-	-	-	-
1	Color	Hazen	<1	Max. 5	Max. 15	IS 3025 (Part 4) : 2021
2	Odour	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5) : 2018
3	pH	-	7.07	6.5-8.5	No Relaxation	IS 3025 (Part 11) :2022
4	Boron	mg/L	BLQ (LOQ-0.0005)	Max. 0.5	Max. 2.4	IS 3025 (Part 57) : 2021
5	Calcium (as Ca)	mg/L	34.9	Max. 75	Max. 200	IS 3025 (Part 40) :1991
6	Chloride (as Cl)	mg/L	15.6	Max. 250	Max. 1000	IS 3025 (Part 32) : 1988
7	Cyanide (as CN)	mg/L	BLQ (LOQ-0.05)	Max. 0.05	No Relaxation	IS 3025 (Part 27) : 1986
8	Total Hardness (as CaCO3)	mg/L	108.2	Max. 200	Max. 600	IS 3025 (Part 21) : 2009
9	Nitrate (as NO3)	mg/L	BLQ (LOQ-	Max. 45	No Relaxation	IS 3025 (Part 34) :1988

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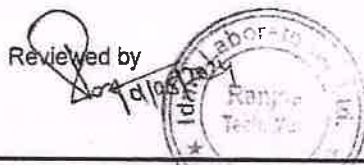


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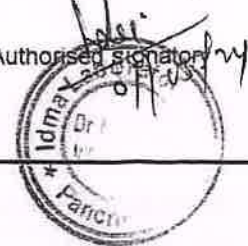
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Lab No.		240424L-FD-020				Page No. 2/3
S.No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
9			1.0)			
10	Total Dissolved Solids	mg/L	163	Max. 500	Max. 2000	IS 3025 (Part 16) : 2023
11	Sulphate (as SO ₄)	mg/L	4.9	Max. 200	Max. 400	IS 3025 (Part 24) :1986
12	Turbidity	NTU	<1	Max. 1	Max. 5	IS 3025 (Part 10) : 2023
13	Taste	Qualitative	Agreeable	Agreeable	Agreeable	IS 3025 (Part 8) :2023
14	Free Residual chlorine	mg/L	BLQ (LOQ-0.1)	0.2 Min.	1	IS 3025 (Part 26) : 2021
METALS:						
15	Cadmium (as Cd)	mg/L	BLQ (LOQ-0.0005)	Max. 0.003	No Relaxation	IS 3025 (Part 41) :2023
16	Copper (as Cu)	mg/L	0.0018	Max. 0.05	Max. 1.5	IS 3025 (Part 42) : 1992
17	Iron (as Fe)	mg/L	BLQ (LOQ-0.0005)	Max. 1.0	No Relaxation	IS 3025 (Part 53) : 2003
18	Lead (as Pb)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 47) : 1994
19	Manganese (as Mn)	mg/L	0.0011	Max. 0.1	Max. 0.3	IS 3025 (Part 59) : 2006
20	Nickel (as Ni)	mg/L	0.0007	Max. 0.02	No Relaxation	IS 3025 (Part 54) : 2003
21	Zinc (as Zn)	mg/L	0.0177	Max. 5	Max. 15	IS 3025 (Part 49) : 1994
22	Aluminum (as Al)	mg/L	0.0081	Max. 0.03	Max. 0.2	IS 3025 (Part 55) : 2003
23	Selenium (as Se)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 56) : 2003 or IS:15303:2003
24	Silver (as Ag)	mg/L	BLQ (LOQ-0.0005)	Max. 0.1	No Relaxation	Annex J of IS: 13428 : 2005
25	Mercury (as Hg)	mg/L	BLQ (LOQ-0.0005)	Max. 0.001	No Relaxation	IS 3025 (Part 48) :1994
26	Magnesium (as Mg)	mg/L	5.1	Max. 30	Max. 100	IS 3025 (Part 46) :2023

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TEST REPORT

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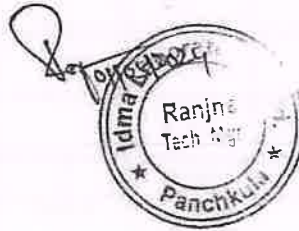
Lab No.		240424L-FD-020				Page No. 3/3
S. No.	Test Parameter	Units	Results	Requirements		Test Methods
				Acceptable Limit (Max)	Permissible Limit (Max)	
27	Total Arsenic (as As)	mg/L	BLQ (LOQ-0.0005)	Max. 0.01	No Relaxation	IS 3025 (Part 37) :2022
28	Total Chromium (as Cr)	mg/L	BLQ (LOQ-0.0005)	Max. 0.05	No Relaxation	IS 3025 (Part 52) : 2003
	Biological Testing (Water)	-	-	-	-	-
29	E. coli	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185: 2016
30	Total Coliform Bacteria	/100ml	Absent	Shall not be detectable in any 100ml sample	-	IS 15185: 2016

Opinion :

Remark: The Test report pertains to the sample, as collected by the IDMA lab person from the customer premises and the result related only to the tested sample. BLQ : Below limit of quantification, LOQ : limit of quantification

Represents details provided by the customer.

****End of Report****



Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

Panchkula - 134113,

Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-009/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#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No			
Packing, Markings#	Thimble 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	22/04/2024			
Period of Analysis	22/04/2024 To 29/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Stack Attach DG Cummins 380 KVA			
Visual Observation	N/A			
Date of Sampling	19/04/2024			
Date of Reporting	29/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (ATMOSPHERIC POLLUTION):	-	-	-	
	STACK MONITORING -GENERAL INFORMATIONS:	-	-	-	
1	Stack Height	Meters	5	-	-
2	Stack Diameter	Meters	0.2032	-	-
3	Ambient Temperature	°C	29	-	-
4	Stack Temperature	°C	118	-	-
5	Velocity	m/s	10.2	-	-
6	Type of Fuel	-	HSD	-	-

Reviewed by
Dipti Jain
Asst. Tech. Manager
29/04/24

Authorised signatory
29/04/24

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Lab No.		220424L-ED-009/A				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Sampling Flow rate	LPM	15	-	-	
8	Sampling Time	Minutes	50	-	-	
9	Volumetric Flow rate	Nm ³ /hr	909.0	-	-	
PARAMETERS:						
10	PM	g/kW-hr	0.05	Max 0.2	IS:11255(Part -1)	
11	CO	g/kW-hr	0.94	Max 3.5	IS:13270	
12	SO2	g/kW-hr	0.78	-	IS: 11255(Part -2)	

Represents details provided by the customer.

End of Report

Reviewed by

 Dipti Jain
 Asst. Tech. Manager
 Panchkula

Authorised signatory



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Idma Laboratories Limited

TEST REPORT

Lab No.	220424L-ED-009/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#	Stack Emission (DG)			
Customer's Description of Sample#	Stack Emission (DG)			
Quantity#	01 No			
Packing, Markings#	Thimble 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	22/04/2024			
Period of Analysis	22/04/2024 To 29/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Stack Attach DG Cummins 380 KVA			
Visual Observation	N/A			
Date of Sampling	19/04/2024			
Date of Reporting	29/04/2024			
Sampling Protocol	LATS/80/2013-14 USEPA:2013			
Testing Protocol	CPCB			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
1	NOx+HC	g/kW-hr	1.03	Max 4.0	IS: 11255(Part -7)

Represents details provided by the customer.

End of Report



Idma Laboratories Limited

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	220424L-ED-010		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 (DG)			
Customer's Description of Sample#	Noise Level (DG)			
Quantity#	01 No			
Packing, Markings#	Instrument at Site.			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.#	RPPU/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	22/04/2024			
Period of Analysis	22/04/2024 To 29/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	DG Noise 380 KVA			
Visual Observation	N/A			
Date of Sampling	19/04/2024			
Date of Reporting	29/04/2024			
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)	72.9	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	-	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.4	-	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.4	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer.

End of Report

Dipti Jain
Reviewed by

Kartar Singh
29/04/24
Authorised signatory

Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-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#	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	22/04/2024		
Period of Analysis	22/04/2024 To 30/04/2024		
Sampling Team Idma	Idma Representative Team	Client	Mr. Satish
Sampling Location#	Up-Stream, Sattuj River		
Visual Observation	N/A		
Date of Sampling	19/04/2024		
Date of Reporting	30/04/2024		
Sampling Protocol	IS:17614 (PART-1):2021		
Testing Protocol	-		

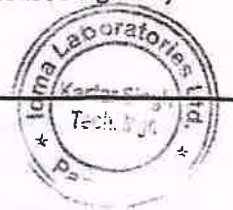
RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.38	IS 3025 (Part 11)
2	Alkalinity as CaCO ₃	mg/L	105	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	35.4	IS 3025 (Part 40)
4	Dissolved Oxygen (DO)	mg/L	7.1	IS 3025 (Part 38)
5	Hardness Total (as CaCO ₃)	mg/L	119	IS 3025 (Part 21)
6	Total Dissolved Solids	mg/L	185	IS 3025 (Part 16)
7	Sulphate as SO ₄	mg/L	12.8	IS 3025 (Part 24)
8	Turbidity	NTU	<1	IS 3025 (Part 10)
9	Residual Free chlorine	mg/L	<0.1	IS 3025 (Part 26)

Reviewed By
Dipti Jain



Authorised signatory



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Idma Laboratories Limited



TEST REPORT

Lab No.		220424L-ED-011		Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods
10	Magnesium as Mg	mg/L	8.01	IS 3025 (Part 46)
11	Iron as Fe	mg/L	0.0030	IS 3025 (Part 53)
12	Lead as Pb	mg/L	BLQ(LOQ-0.0005)	IS 3025 (Part 47)
	Biological Testing (Water)	-	-	-
13	F. colifom	MIPN/100ml	84	IS 1622:1981
14	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)
15	Chemical Oxygen Demand	mg/L	<4	IS 3025 (Part 58)

Opinion :

Represents details provided by the customer.

End of Report

Reviewed by
Dipti Jain
Dipti Jain
Asst. Tech. Manager

Kanta
30/04/24
Authorised signatory

Idma Laboratories Limited

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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-012		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.#	RPPL/SDHEP/WO/23-24/25	Dated	15/06/2023	
Date of Receipt of Sample	22/04/2024			
Period of Analysis	22/04/2024 To 01/05/2024			
Sampling Team Idma	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Down-Stream, Satluj River			
Visual Observation	N/A			
Date of Sampling	19/04/2024			
Date of Reporting	01/05/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	-			

RESULTS

S.No.	Test Parameter	Units	Results	Test Methods
	Chemical Testing (Water)	-	-	-
1	pH	-	7.36	IS 3025 (Part 11)
2	Alkalinity as CaCO3	mg/L	102	IS 3025 (Part 23)
3	Calcium as Ca	mg/L	34.1	IS 3025 (Part 40)
4	Dissolved Oxygen (DO)	mg/L	7.0	IS 3025 (Part 38)
5	Hardness Total (as CaCO3)	mg/L	116	IS 3025 (Part 21)
6	Total Dissolved Solids	mg/L	182	IS 3025 (Part 16)
7	Sulphate as SO4	mg/L	11.4	IS 3025 (Part 24)
8	Turbidity	NTU	<1	IS 3025 (Part 10)
9	Residual Free chlorine	mg/L	<0.1	IS 3025 (Part 26)

Reviewed by: *Dipti Jain*
15/05/24



Authorised signatory: *Kartar Singh*
01/05/24



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	220424L-ED-012			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Methods
10	Magnesium as Mg	mg/L	7.9	IS 3025 (Part 46)
11	Iron as Fe	mg/L	0.0034	IS 3025 (Part 53)
12	Lead as Pb	mg/L	BLQ (LOQ-0.0005)	IS 3025 (Part 47)
	Biological Testing (Water)	-	-	-
13	Biochemical Oxygen Demand (3-days at 27 °C)	mg/L	<2	IS 3025 (Part 44)
14	Chemical Oxygen Demand	mg/L	<4	IS 3025 (Part 58)
15	F.Collform	MPN/100 mL	70	IS 1622 :1981

Opinion :

Represents details provided by the customer.

End of Report

Reviewed by
[Signature]



[Signature]
01/05/24
Authorised signatory



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Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-013		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#	Waste Water (STP Outlet)			
Customer's Description of Sample#	Waste Water (STP Outlet)			
Quantity#	5 Ltr.			
Packing, Markings#	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	22/04/2024			
Period of Analysis	22/04/2024 To 29/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	STP Plant			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	29/04/2024			
Sampling Protocol	IS:17614 (PART-1):2021			
Testing Protocol	CPCB			

RESULTS

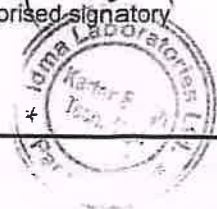
S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.86	6.5-9.0	IS 3025 (Part 11)
2	Chemical Oxygen Demand (COD)	mg/L	56	-	IS 3025 (Part 58)
3	Biochemical Oxygen Demand	mg/L	16	Max 30	IS 3025 (Part 44) BOD 3-days at 27 °C
4	Oil & Grease	mg/L	<2.5	-	IS 3025 (Part 39)
5	Total Dissolved Solids (TDS)	mg/L	451	-	IS 3025 (Part 16)
6	Total Suspended Solids (TSS)	mg/L	26	Max 100	IS 3025 (Part 17)

Represents details provided by the customer.

End of Report

Reviewed by
[Signature]
29/04/24

Authorised signatory
[Signature]
29/04/24



Idma Laboratories Limited

Idma Corporate Park,

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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-005		Page No. 1/1	
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#	01 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	22/04/2024			
Period of Analysis	22/04/2024 To 26/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Near Main Office			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	26/04/2024			
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)	70.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	65.7	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Signature
Reviewed by



Signature
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)

Tel No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Email : commercial@idmalab.co.in

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	220424L-ED-006		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#	01 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	22/04/2024			
Period of Analysis	22/04/2024 To 26/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Right Abutment Near MAT.			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	26/04/2024			
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)	67.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	59.1	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

[Signature]
Reviewed by



[Signature]
26/04/24
Authorised signatory



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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-007		Page No.	1/1
Customer#	Rithwik Projects Private Limited Sunni Dam Hydro Electric Project Chebri, Chouki, Post- Khakra, Teh.- Sunni Distt.- Shimla Himachal Pradesh			
Type of Sample#	Noise Level (Ambient)			
Customer's Description of Sample#	Noise Level (Ambient)			
Quantity#	01 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	22/04/2024			
Period of Analysis	22/04/2024 To 26/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Batching Plant Area.			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	26/04/2024			
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)	63.4	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Reviewed by
[Signature]
26/04/24



Authorised signatory
[Signature]
26/04/24



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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-008		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#	01 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	22/04/2024		
Period of Analysis	22/04/2024 To 26/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Satish
Sampling Location#	Near Dam Site.		
Visual Observation	N/A		
Date of Sampling	18/04/2024		
Date of Reporting	26/04/2024		
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)	70.8	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	63.7	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Dipti Jain
Reviewed by
Dipti Jain
Asst. Tech. Manager

Kato
26/04/24
Authorised signatory



Idma Laboratories Limited

Idma Corporate Park,
391, Industrial Area, Phase - 1,
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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-010		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 (DG)		
Customer's Description of Sample#	Noise Level (DG)		
Quantity#	01 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	22/04/2024		
Period of Analysis	22/04/2024 To 29/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Satish
Sampling Location#	DG Noise 380 KVA		
Visual Observation	N/A		
Date of Sampling	19/04/2024		
Date of Reporting	29/04/2024		
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)	72.9	Max. 75.0	CPCB PROTOCOL JULY 2015
2	0.5 m surface acoustic enclosure when door are open	dB (A)	101.8	-	CPCB PROTOCOL JULY 2015
3	0.5 m surface acoustic enclosure when door are Close	dB (A)	76.4	-	CPCB PROTOCOL JULY 2015
4	Insertion Loss	dB (A)	25.4	Min. 25	CPCB PROTOCOL JULY 2015

Represents details provided by the customer.

End of Report

Reviewed by
Dipti Jain
Asst. Tech. Manager

Kartar
29/04/24
Authorised signatory



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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	220424L-ED-005		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#	01 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	22/04/2024		
Period of Analysis	22/04/2024 To 26/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Satish
Sampling Location#	Near Main Office		
Visual Observation	N/A		
Date of Sampling	18/04/2024		
Date of Reporting	26/04/2024		
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)	70.6	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	65.7	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Signature
26/04/24
Reviewed by
Dipti Jain
Asst. Tech. Manager

Signature
26/04/24
Authorised signatory
Idma Laboratories Ltd
Kartar Singh
Tech. Manager

Idma Laboratories Limited

Idma Corporate Park,

391, Industrial Area, Phase - 1,

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Idma Laboratories Limited



TC-8207

TEST REPORT

Lab No.	220424L-ED-006		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#	01 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	22/04/2024			
Period of Analysis	22/04/2024 To 26/04/2024			
Sampling Team	Idma Representative Team	Client	Mr. Satish	
Sampling Location#	Right Abutment Near MAT.			
Visual Observation	N/A			
Date of Sampling	18/04/2024			
Date of Reporting	26/04/2024			
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)	67.2	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	59.1	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Silje 26/04/24
Reviewed by



Karar Singh
26/04/24
Authorised signatory



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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-007	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#	01 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	22/04/2024		
Period of Analysis	22/04/2024 To 26/04/2024		
Sampling Team	Idma Representative Team	Client	Mr. Satish
Sampling Location#	Batching Plant Area.		
Visual Observation	N/A		
Date of Sampling	18/04/2024		
Date of Reporting	26/04/2024		
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)	63.4	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Reviewed by
[Signature]
26/04/24



Authorised signatory
[Signature]
26/04/24



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Idma Laboratories Limited



TEST REPORT

Lab No.	220424L-ED-008	Page No. 1/1
Customer#	Rithwik Projects Private Limited Sunnl 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#	01 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	22/04/2024	
Period of Analysis	22/04/2024 To 26/04/2024	
Sampling Team	Idma Representative Team	Client Mr. Satish
Sampling Location#	Near Dam Site.	
Visual Observation	N/A	
Date of Sampling	18/04/2024	
Date of Reporting	26/04/2024	
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)	70.8	Max 75	CPCB PROTOCOL July 2015.
2	LNight	dB(A)	63.7	Max 70	CPCB PROTOCOL July 2015.

Represents details provided by the customer.

End of Report

Reviewed by
Dipti Jain
Dipti Jain
Asst. Tech. Manager

Kartar Singh
26/04/24
Authorised signatory



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MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF APRIL -2024 (01.04.2024 to 30.04.2024)

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)			Location of utilization
			Generated	Utilized		
1	Power House Complex	20,000	20,000			The muck generated is being utilized for a) Upstream and Downstream dyke b) Bench development work at private land for job facilities at Right bank. c) Protection work for approach roads, camps, workshop etc. d) Approach road work at Lunsu Dumping yard.
2	Dam and Intake	3,600	3,600	23,600.00		



MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF May -2024 (01.05.2024 to 31.05.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	14,426	14,426	30,376.05	The muck generated is being utilized for a) Upstream and Downstream dyke b) Bench development work for job facilities at Right bank. c) Protection work for approach roads. d) Approach road work at Lunsu Dumping yard.
2	Dam and Intake	15,950	15,950		



MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF JUNE -2024 (01.06.2024 to 30.06.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	9,106	9,106		<p>The muck generated is being utilized for</p> <p>a) Bench development work for job facilities at Right bank.</p> <p>b) Protection work for approach roads.</p> <p>c) Approach road work at Lunsu Dumping yard.</p> <p>d) Lunsu dumping yard.</p>
2	Dam and Intake	2,500	2,500	11,606.00	



Rithwik Projects Pvt. Ltd.
 Sunni Dam, HEP (382 MW)

MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF JULY -2024 (01.07.2024 to 31.07.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	9,260	9,260		<p>The muck generated is being utilized for</p> <p>a) Bench development work for job facilities at Right bank.</p> <p>b) Protection work for approach roads.</p> <p>c) Approach road work at Lunsu Dumping yard.</p> <p>d) Lunsu dumping yard.</p>
2	Dam and Intake	5,100	5,100	14,360.00	



Rithwik Projects Pvt. Ltd.
 Sunni Dam, HEP (382 MW)

MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF AUGUST -2024 (01.08.2024 to 31.08.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	500	500	629.00	The muck generated is being utilized for a) Bench development work for job facilities at Right bank. b) Protection work for approach roads. c) Approach road work at Lunsu Dumping yard. d) Lunsu dumping yard.
2	Dam and Intake	129	129		



Rithwik Projects Pvt. Ltd.
Sunni Dam, HEP (382 MW)

MONTHLY STATEMENT OF MUCK/DEBRIS DISPOSAL FOR THE MONTH OF SEPTEMBER -2024 (01.09.2024 to 30.09.2024)

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)		Location of utilization
			Generated	Utilized	
1	Power House Complex	8,000	8,000		The muck generated is being utilized for a) Bench development work for job facilities at Right bank. b) Protection work for approach roads. c) Approach road work at Lunsu Dumping yard. d) Lunsu dumping yard.
2	Dam and Intake	9,000	9,000	17,000.00	



Annexure - XIV



सत्यमेव जयते

INDIA NON JUDICIAL

Government of Himachal Pradesh

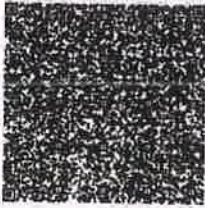
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₹10 ₹10 ₹10 ₹10

Certificate No. : IN-HP12147838012154W
 Certificate Issued Date : 19-Mar-2024 04:01 PM
 Account Reference : SELFPRINT (PU) hp-self/ SUNNI/ HP-SM
 Unique Doc. Reference : SUBIN-HPHP-SELF20694110257858W
 Purchased by : SUNIL SHARMA
 Description of Document : Article 5 Agreement or Memorandum of an Agreement
 Property Description : AGREEMENT WITH SHIVALIK SOLID WASTE MANAGMENT FOR OIL
 Consideration Price (Rs.) : 10
 (Ten only)
 First Party : RITHWIK PROJECTS PVT LTD
 Second Party : SHIVALIK SOLID WASTE MANAGMENT
 Stamp Duty Paid By : RITHWIK PROJECTS PVT LTD
 Stamp Duty Amount(Rs.) : 10
 (Ten only)

DATED- 16-04-2024

₹10



SELF PRINTED CERTIFICATE TO BE VERIFIED BY THE RECIPIENT AT WWW.SHCILESTAMP.COM

IN-HP12147838012154W

Please write or type below this line

This AGREEMENT is entered at Nalagarh on this 16th Day of the Month Of April 2024.

BETWEEN

M/s SHIVALIK SOLID WASTE MANAGEMENT LIMITED having its registered office at Village – Majra, P.O. Dabhota, Nalagarh, Distt. - Solan, Himachal Pradesh, a Company registered under the Companies Act, 1956 and currently represented by its CEO Shri Ashok Sharma, Age about 64 years residing at Zirakpur, (PUNJAB) hereinafter referred to as "SSWML", which expression shall where context so requires or admit of, be deemed to include its successors or assignees) of on one Part.

1



19-Mar-2024 04:01 PM

RITHWIK PROJECTS PRIVATE LIMITED

AND

M/s Rithwik Projects Private Limited Company registered under the companies Act 1956 having its registered office at Village-Chabdi, P.O.-Khaira, Tehsil- Sunni, Dist.-Shimla, Himachal Pradesh-171018 and currently represented by its **Authorized Signatory Project Director Shri Sanjay Kumar s/o Shri Ramnath** age about 55 years, residing at D-1503, Plumeria Garden, Sector-Omicron-3, Greater Noida, Kasana, Gautam Buddha Nagar, Uttar Pradesh-201310 (Hereinafter referred to as **MEMBER** which expression shall where the context so requires or admits of, be deemed to include its successors or assignee) of the other Part.
(Hereinafter referred to as **MEMBER** which expression shall where the context so requires or admits of, be deemed to include its successors or assignee) of the other Part.

AND WHEREAS, the foremost and the sole objective of **SSWML** is to prevent Environmental Pollution Hazards and to observe the existing laws on Environmental Pollution Control.

AND WHEREAS, the **MEMBER** desires to send its **Used Oil/ Waste Oil/ & Lead Acid Batteries** (hereinafter referred to as '**HAZARDOUS WASTE**') to the **SSWML** as per the norms of Himachal Pradesh State Pollution Control Board (hereinafter referred to as "HPSPCB") and the **SSWML** having requisite facilities in this behalf, agrees to receive the **Used Oil/ Waste Oil/ & Lead Acid Batteries** sent by the **MEMBER** on the terms and conditions stated hereunder, which have been mutually agreed to by and between **SSWML** and the **MEMBER**.

AND WHEREAS, the parties hereto have decided to execute a **DEED OF AGREEMENT**:

NOW THIS AGREEMENT WITNESSES and it is hereby, mutually agreed by and between the parties hereto as follows:

1. DEFINATION AND INTERPRETATIONS:

- 1.1. 'TIME' shall be stated in 'Hours' and shall mean Indian Standard Time.
- 1.2. 'DAY' means a period of Twelve (12) consecutive hours beginning at 08:00 hours and ending at 20:00 hours.
- 1.3. 'WEEK' means a period of seven (7) consecutive days beginning from a day.
- 1.4. 'MONTH' means a period beginning at 0800 hours on the first day of calendar month and ending at 0800 hours on the first day of succeeding calendar month.
- 1.5. 'YEAR' means a period of three hundred and sixty five (365) consecutive days or three hundred and sixty six (366) consecutive days when such period includes a twenty ninth (29th) day of February, beginning at 0800 hours from a day.
- 1.6. 'FINANCIAL YEAR' means a period of three hundred and sixty five (365) consecutive days or three hundred and sixty six (366) consecutive days when such period includes a twenty ninth (29th) day of February, beginning at 0800 hours from a day.



- 1.7. The headings of or titles to the clauses in this AGREEMENT shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or of the AGREEMENT.
- 1.8. Words imparting the singular only also include the plural and vice versa, where the context so requires.
- 1.9. The present Agreement is entered in to by SSWML for collection storage, transportation and disposal of **Used Oil / Waste Oil / and Lead Acid Batteries** only of its Members.

2. PERIOD OF AGREEMENT:

- 2.1. This Agreement shall come in force, effective from the amendment / change is made in this Agreement.
- 2.2. Both the parties hereto agree that the present Agreement shall automatically come to an end in any of the following eventualities.
 - I) On expiry of Authorization granted to the Member and the same having not been renewed or the same having been not granted by HPSPCB.
 - II) On expiry of the present Agreement, where no fresh Agreement is signed and executed between parties hereto as mentioned above.
 - III) On Authorization to SSWML being cancelled, refused or not granted by HPSPCB.
3. Both the parties hereto further agree that in case of the present Agreement coming to an end owing to any of the aforesaid eventuality, it will be the sole responsibility of the Member to handle and treat its **Hazardous Waste** in accordance with the relevant provisions of Law and that SSWML will not be responsible in any manner whatsoever in respect of the **Hazardous Waste** of the Members.

4. OBLIGATION OF THE SSWML & MEMBERS:

- 4.1. For the facility of Members, SSWML will be making an arrangement for lifting the **Used Oil/ Waste Oil/ and Lead Acid Batteries** only, still its discretion of the Member in case want to have his own arrangement with the designated Trucks as per Guidelines of CPCB.
- 4.2. The MEMBER is obliged to pay in the bills raised by SSWML for lifting of Waste Oil in cheque (local account) or demand draft as per mutual understanding.

SSWML will pay to MEMBER for lifting of Used Oil & Lead Acid Batteries, as per mutual understanding.

- 4.3. SSWML will provide manifest Form 10 or Form 6 to the member industries when lift the **Used Oil/ Waste Oil & Lead Acid Batteries**.



- 4.4. The MEMBER alone shall be liable for any action initiated against the MEMBER under Hazardous Wastes (Management and Handling) Rules, 1989 or any other Pollution Laws or any other relevant Provisions of Law for the time being in force, by HPSPCB or any other Authority.

5. TRANSPORTATION:

- 5.1. Transport of **Solid Waste** shall be in accordance with the provisions of Rules issued by the Central Government under Motor Vehicles Act, 1988 and other guidelines issued from time to time and / or subject to the provisions of law for the time being in force.

6. FORCE MAJEURE:

- 6.1. In case of any force majeure, SSWML shall not be saddled with any liability- contingent or otherwise but in that case, it shall be the sole liability to share with the MEMBER.
- 6.2. Both the parties hereto agree that due to change in any Laws related to pollution or due to any directive of any Court or Authority, if **SSWML** is to incur any additional financial burden consequent upon any alteration and / or modification in the site, then, in that case the MEMBER shall be liable to contribute for the same proportionate to its disposal of **Hazardous Waste** in SSWML site.

7. PREVIOUS CORRESPONDENCE:

- 7.1. All discussion and meetings held and correspondence exchanged between **SSWML** and the MEMBER in respect of the AGREEMENT and any decision arrived at therein in the past and before the coming into force of the present AGREEMENT are herein superseded by the present AGREEMENT and no reference of such discussions or meetings or past correspondence shall be entertained by either SSWML or the MEMBER for interpreting the present AGREEMENT or otherwise.

8. LAWS GOVERNING THE AGREEMENT:

- 8.1. The present Agreement shall be subject to Indian Laws, Rules and Regulations and Notifications and Notifications etc., issued under such laws.

9. AMENDMENTS:

- 9.1. SSWML may at any point of time make suitable changes in the present Agreement after serving a notice to the MEMBER.

10. TERMINATION OF AGREEMENT:

- 10.1. SSWML has the unrestricted right to terminate this AGREEMENT by a written notice of **90 days** and deduct its all pending claims for the MEMBER.
- 10.2. This AGREEMENT can be terminated by either party after giving a written notice of at least **90 days** to the other party. If the cancellation is requested by the MEMBER.



11. JURISDICTION:

11.1. The present Agreement, SSWML and MEMBER mutually agree that the Civil Court at Nalagarh, only shall have jurisdiction for all the disputes/differences arising out of this Agreement.

12. The Address of the parties hereto unless changed by written notification to be given at least **15 days** in advance by registered letter prior to proposed date of change, shall be as follows:


ADDRESS OF PARTIES :

**M/s SHIVALIK SOLID WASTE MANAGEMENT LTD.
VILALGE - MAJRA, P.O. - DABHOTA, TEHSIL - NALAGARH,
DISTRICT - SOLAN, (H.P).**

THE MEMBER :

IN WITNESS WHERE OF the parties hereto acting through their properly constituted representatives has set their hands to cause this AGREEMENT signed and executed in their respective name(s) and on their behalf.


**For and on behalf of the
SHIVALIK SOLID WASTE MANAGEMENT LTD.**


Name : Shri Ashok Sharma
Designation : CEO
Address : S.C.O.No. 20-21, Kalka
Shimla Highway, Near Hotel Dolphin,
Baltana, Zirakpur, Punjab.

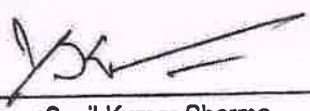
**For and on behalf of the
MEMBER**


Name : Sanjay Kumar
Designation : Project Director
Address : Rithwik Projects PVT.LTD.
Village Khaira PO Chebri
Sunni Distt Shimla 171018

Witness :

1. 
Name : RAVI VERMANA
Address : S/O 20-21, 1st floor
Kalka-Chd Highway
Zirakpur, Punjab

Witness :

1. 
Name : Sunil Kumar Sharma
Address: Manager Liaison, RPPL



Annexure-XV

E-Mail

From No. FSII-F (2)-39-148/2017-ARC-Sunni Dam Project- 863
Directorate of Fisheries,
Himachal Pradesh.

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

✓ Sr. General Manager (Envt.)
Environment & Forest Department.
SDHEP, (Sunni)
District-Shimla (HP)-172030.
e-mail:- envt.sdhep@sjvn.nic.in

Dated Bilaspur-174001 the, 31/01/24

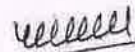
Subject: - Regarding revised Fisheries Management Plan of Sunni Dam
Hydroelectric Project (382 MW)

Sir,

I invite a reference of your office Letter No. SJVN/SDHEP/E&F/F04/22-727, dated: 23.06.2023 on the subject cited above **In this context**, revised Fisheries Management Plan of Sunni Dam (382MW) hereby enclosed as annexure-A for perusal and further necessary action at your end, please.

Grcls: A/A


Yours faithfully,



(Vivek Chandel)HPAS
Director-cum-Warden of Fisheries,
Himachal Pradesh, Bilaspur.
E-mail : fisheries-hp@nic.in
Tel/Fax: 01978-224068

Endst. No.: As above -

Date: Copy forward to the Secretary (Fisheries) to the Government of Himachal Pradesh, Shimla
2 along with enclosures for favour of information, please.


(Vivek Chandel)HPAS
Director-cum-Warden of Fisheries,
Himachal Pradesh, Bilaspur.
E-mail : fisheries-hp@nic.in
Tel/Fax: 01978-224068

Annexure II
179

Revised Project Proposal for the Mitigation of Fisheries Losses due to the Construction of Sunni Dam Hydro-Power (382MW) on river Sutlej.

An overview :

Himachal Pradesh is blessed with mosaic of snow fed rivers, streams, their tributaries and distributaries all along its length & breadth. The major rivers are Beas, Satluj and Ravi which along with their tributaries are known from the ages for their precious aquatic biodiversity ranging from larval stages of insects to fish species like indigenous Schizothorax, Salmonids, Carps and mighty Mahaseer.

River valley projects interfere with the riverine ecosystem and affect the fishery wealth in the concerned river. Dams act as physical barriers to the breeding and feeding runs of the fish and these results in irrevocable reduction of even extermination of fish fauna.

Satluj Jal Vidyut Nigam Limited (SJVN Ltd.) is implementing Sunni Dam HEP (373 MW) which is now enhanced to 382 MW by constructing 95 high concrete Dam across river Satluj near Village Khaira in Shimla and Mandi district HP and underground power house on right bank. The erection of this dam shall give rise to a 20 Km long reservoir. The dam is located at longitude $77^{\circ}12'39''$ E & latitude $31^{\circ}14'53''$ N. On the upstream of the project, Rampur (412 MW) HEP lies which utilized water discharge of 1500 MW Nathpa-Jhakri project. On the downstream of Sunni dam HEP, 800MW Koldam HPS lies. In between Rampur HPS and proposed Sunni dam project, Luhri HEP stage-I (nearly 50Kms upstream) and Luhri HEP stage-II (between LHHP-I & Sunni Dam) are also proposed. The following alternative studies were carried out to explore the selection of project layout:-

- * **Alternative-1:-** Dam & surface for power house at left bank.
- * **Alternative-2:-** Dam & underground power house at right bank.

Reservoir area:- Due to proposed 95m high concrete dam, a reservoir of about 20 kms in length will be created. It indicates that the reservoir is occupied by khaira quartzite on the lower level and dolomite/lime stone of khatpur formation on the higher levels.

Objectives:- Creation of infrastructure for the production of fish seed to affected cultureable fish species so as to make it available for stocking in open waters and to prospective fish farmers who will be affected by the project.

- * To develop sustainable fishery in Satluj river by stocking species of Indian major carps.
- * To provide source of livelihood to the affected fishermen/ local unemployed youth
- * Assistance to reservoir fishers on the purchase of gill nets and boats etc for fishing in upcoming reservoir.
- * Training to reservoir fishers in creating & operating of gill nets.

Development Strategy:-

The fish species which are of commercial importance and are culturable in captivity are as under:-

- Mahaseer (*Tor putitora*)
- Indian Major Carp (Rohu, Catla and Mrigal)
- Common carps (*Cyprinus Carpio* Hungarian strain)
- Schizothorax (captive breeding under trial)

Amnaseer

* Stocking of fish seed in the upcoming reservoir will be done from the existing Departmental seed farm Alsu in district. Mandi (HP) or by purchase from outside agencies.

* Fisheries training camps will be organized to educate the local unemployed youth in the surrounding panchayats to adopt fish culture activities.

* Construction of Hi-tech fish landing centre in the upcoming reservoir.

* Training to reservoir fishermen in casting and operating fish gill nets.

* **Timeline:-** Within two years of the project getting off the ground.

Financial requirements:-

The funds for fisheries Development being provided by SJVNI, are proposed to be utilized as under:-

S/N	Particulars/Item	Cost (Rs. Lakhs)
01	Assistance to 20 local fishermen/unemployed youth by purchasing fish cart @ approx. 30000/- per cart.	6.00 Lakhs.
02	Assistance to 50 reservoir Fishers for the purchase of gill nets @ 5000/- each and on the purchase of boat Rs. 40,000/- each	22.55 Lakhs
03	Training to fishermen likely to be brought under co-operative fold.	5.00 Lakhs
04	Training camps to project affected local unemployed youth in the surrounding panchayats for adopting aquaculture activities.	5.00 Lakhs
05	Purchases, transportation & stocking of fish seed (IMC+Hungarian Common Carp) in the upcoming reservoir @ 1.0 Lakh per year for at least ten years.	24.10 Lakhs
06	Augmentation of alternative water supply to Departmental Masheer fish Farm, Nagar-Sunni in Shimla Distt. From where the seed will be provided for stocking in the upcoming reservoir.	40.00 Lakhs
07	Construction of Hi- tech fish landing centers	71.00 Lakhs
08	Total	173.65 Lakhs
	Departmental Charges @ 10%	17.365 Lakhs
	Grand Total	191.015 Lakhs or say 191.0 Lakhs

Annexure - XVI

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-14/2023- 813-16

Dated: 4-10-2023

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 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/HUD/31019/ 2017) – **regarding CAT Plan & CA Scheme implementation status.**

Respected Sir,

This is in reference to our earlier letter no. SJVN/SDHEP/Envt. & Forest/F-03/2023-723-26 dated 19.06.2023 on the subject cited above.

In this regard, status of Karsog Forest Division has only been received. It is thus requested to kindly provide the status of implementation of approved CAT Plan of Sunni Dam HEP and Compensatory Afforestation Scheme of Shimla & Kotgarh Division 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 Shimla,
Distt. Shimla, H.P. – 171002
2. The Divisional Forest Officer,
Forest Division Kotgarh,
Distt. Shimla, H.P. – 172030

परियोजना कार्यालय: सुन्नी जिला-शिमला-171301
दूरभाष: 0177-2786586, Fax No.: 0177-2786895, www.sjvn.nic.in
कारपोरेट मुख्यालय: शक्ति सदन, शानान, 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
Corporate H.Q.: Shakti Sadan, Shanana, Shimla-171006 (HP)
SAVE ENERGY FOR BENEFIT OF SELF AND NATION

एसजेवीएन लिमिटेड

SJVN Limited

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

सुन्नी बांध जल विद्युत परियोजना

Sunni Dam Hydro Electric Project

ENVIRONMENT & FOREST DEPARTMENT

No. SJVN/SDHEP/Envt. & Forest/F-14/2023- 813-16

Dated: 4-10-2023

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 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/HUD/31019/ 2017) – **regarding CAT Plan & CA Scheme implementation status.**

Respected Sir,


This is in reference to our earlier letter no. SJVN/SDHEP/Envt. & Forest/F-03/2023-723-26 dated 19.06.2023 on the subject cited above.

In this regard, status of Karsog Forest Division has only been received. It is thus requested to kindly provide the status of implementation of approved CAT Plan of Sunni Dam HEP and Compensatory Afforestation Scheme of Shimla & Kotgarh Division 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

010

No. 3269
HP. Forest Department

To

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

Dated Karsog, the 02-08-2023

Received on
Post on 9/8/23
DGM (Env/For)

Am (E/For)

9/8/23

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.

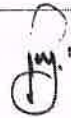
Sir,

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	Muhall Rondal Khasra No. 1403 (CA)	7.5	Muhall 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	Muhall Kehat Khasra No. 474 (CA)	9.3	Muhall Kehat Khasra No. 474 (CA)	9.3	
12	Muhall Kehat Khasra No. 524/411 (CA)	12.78	Muhall Kehat Khasra No. 524/411 (CA)	12.78	
13	Muhall Kehat	10.76	Muhall Kehat Khasra No.	10.76	

	Khasra No. 526/386 (CA)		526/386 (CA)		
14	Muhal Khamarla Khasra No. 763 (CA)	14.24	Muhal Khamarla Khasra No. 763 (CA)	14.24	
15	Muhal Khamarla Khasra No. 1434/134(CA)	3.23	Muhal Khamarla Khasra No. 1434/134(CA)	3.23	
16	Muhal Khamarla Khasra No. 1452/1(CA)	15.37	Muhal Khamarla Khasra No. 1452/1(CA)	15.37	
17	Muhal Detha Khasra No. 481 (CA)	9.71	Muhal Detha Khasra No. 481 (CA)	9.71	
18	Muhal Tundal Khasra No. 762 (CA)	5.58	Muhal Tundal Khasra No. 762 (CA)	5.58	
19	Muhal Tundal Khasra No. 774/676 (CA)	8.25	Muhal Tundal Khasra No. 774/676 (CA)	8.25	
20	Muhal Tundal Khasra No. 776/633 (CA)	5.82	Muhal Tundal Khasra No. 776/633 (CA)	5.82	
21	Muhal Nanj Khasra No. 600 (CA)	6.79	Muhal Nanj Khasra No. 600 (CA)	6.79	
22	Muhal Sanog Khasra No. 385 (CA)	7.2	Muhal Sanog Khasra No. 385 (CA)	7.2	
23	Muhal Tebban Khasra No. 1674/1580 (CA)	11.08	Muhal 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	
	Total	351.1942		251.1942	

This is for favour of information please.



**Divisional Forest Officer,
Karsog Forest Division, H.P.**

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-43/2023-723-26

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 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/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]

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

परियोजना कार्यालय: सुन्नी जिला-शिमला-171301
दूरभाष: 0177-2786586, Fax No.: 0177-2786895, 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
Corporate H.Q. : Shakti Sadan, Shanau, Shimla-171006 (HP)
SAVE ENERGY FOR BENEFIT OF SELF AND NATION

एसजेवीएन लिमिटेड
SJVN Limited



(भारत सरकार एवं हि.प्र. सरकार का संयुक्त उपक्रम)
(A Joint Venture of Govt. of India & Govt. of Himachal Pradesh)
A Mini Ratna & Schedule "A" PSU
CIN : L40101HP1988GOI008409

सुन्नी बांध जल विद्युत परियोजना
SUNNI DAM HYDRO ELECTRIC PROJECT

HR Department

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

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

अपने तथा राष्ट्र के हित में ऊर्जा की बचत 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.sivn.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)

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

Dated: - 30 - 03 - 20 23

To

General Manager (HR)
SDHEP, Sunni.

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

Sir,

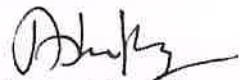
Please refer to your office letter no. SJVN/LHEP-II/SDHEP/HR/23-2539-40 dated 29.03.2023 on the above cited subject.

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, Jaishi & Bharara)	A/c N.: 50100490915200 Name: Collector Land Acq. RNR Shimla Bank: 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) Bank: Axis Bank, Sanjauli, Shimla, HP Branch Code: 4714 IFS Code: UTIB0004714	50,84,67,000/-

Thanking you,

Yours faithfully,


o/c (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 Sood)

Land Acquisition Collector
SDHEP, Sunni

o/c

Copy to : CGM -HOP, SDHEP Sunni

Annexure - XVIII



