



एसजेवीएन लिमिटेड

मिनी-रत्न शिड्यूल 'A' पीएसयू
निगमित पर्यावरण विभाग

ISO 9001:2015 Certified

कार्यालय: कार्यकारी निदेशक,
निगमित पर्यावरण विभाग,
शक्ति सदन, शनान,
जिला शिमला,
हिमाचल प्रदेश -171006
टेल. नं.: 0177-2660180
ईमेल: sjvn.ced@sjvn.nic.in

संख्या: SJVN/CHQ/ENV/F-31/2023-40

दिनांक: 01/06/2023

सेवा में,

डॉ वाई पी सिंह, सदस्य सचिव
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय,
वायु विंग, इंदिरा पर्यावरण भवन, ज़ोर बाग रोड,
नई दिल्ली-110003,
Email: yogendra78@nic.in

**Sub: Six Monthly Monitoring Report on Compliance to Environmental Aspects
(For period October, 2022 – March, 2023) i.r.o Dhaulasidh HEP (66 MW),
Himachal Pradesh.**

**Ref: EC letter No. J-12011/15/2010-IA.I, February 21, 2013 for Dhaulasidh HEP
(66 MW)**

Sir,

Kind reference is invited to above referred endorsement vide which Dhaulasidh Hydroelectric Project (66 MW) of SJVN in District Hamirpur and Kangra, (Himachal Pradesh) is granted Environment Clearance. As per EIA notification 2006, submission of six monthly compliance report is required as to be submitted. Further, it is desired vide notification dated 26.11.2018 to submit half yearly compliance reports in soft copies only.

Therefore, Six Monthly Monitoring Report on compliance to Environmental Aspects (for the period ending March 2023) is submitted for your kind information, please.

संलग्नक: यथोपरि।

सधन्यवाद,

भवदीय,
एसजेवीएन लिमिटेड के लिए,

(कार्यकारी निदेशक)

प्रतिलिपि (केवल ईमेल के माध्यम से):

1. Inspector General of Forests, MoEF&CC, IRO, Shimla, C.G.O. Complex, Shivalik Block, Longwood, Shimla -171001, Himachal Pradesh, E-mail: iro.shimla-mefcc@gov.in
2. सदस्य सचिव, हिमाचल प्रदेश प्रदूषण नियंत्रण बोर्ड, हिम परिवेश, बी.सी.अस, नया शिमला-171006, Email: mspcb-hp@nic.in

CIN L40101HP1988GOI008409 website: www.sjvn.nic.in

पंजीकृत एवं कॉर्पोरेट कार्यालय: एस जे वी एन लिमिटेड, शक्ति सदन, शनान, शिमला, हिमाचल प्रदेश-171006

3. अतिरिक्त प्रधान मुख्य वन संरक्षक (सी), क्षेत्रीय कार्यालय (उत्तर मध्य क्षेत्र), पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, 25, सुभाष रोड, देहरादून-248001, Email: moef.ddn@gmail.com

“SIX MONTHLY COMPLIANCE REPORT ON ENVIRONMENT CLEARANCE CONDITIONS”

Period of Compliance: 01.10.2022 to 31.03.2023

Name of Project	Dhulasidh Hydro Electric Project
Location	Hamirpur (HP)

Conditions imposed by the Ministry of Environment & Forests, GOI while granting Environment Clearance vide letter no. J-12011/15/2010-IA-I dated 21/02/2013

Sl. No.	Conditions of Environment Clearance	Status as on 31/03/2023
1	PART-A: SPECIFIC CONDITIONS	
i	The Catchment Area Treatment (CAT) Plan as proposed in the EMP report (Chapter-2 in EMP dated May, 2012) shall be strictly implemented in consultation with Himachal Pradesh State Forest Department. Major works shall be completed before impounding of reservoir. The financial allocation of Rs. 10.947 crores for CAT Plan implementation shall be fully utilized and not to be diverted for any other purpose. As per plan, the area of CAT is 114.74 sq. km.	<ul style="list-style-type: none"> ➤ The Revised CAT plan was approved on date 05/12/2018 for Rs. 19.77 Cr. ➤ Amount of Rs. 19.77 Crore had been deposited in Adhoc CAMPA on 09.10.2019 (copy enclosed as Annexure - A) Shall be ensured.
ii	The details of land holding of project affected persons whose land is being acquired shall be submitted to this Ministry including Regional Office. The R&R benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 or as per the State Rehabilitation and Resettlement Policy, whichever is more beneficial to project affected persons (PAFs). Adequate publicity of the compensation package of NRRP 2007 shall be given in the affected villages. All R&R issues shall be completed before commissioning of the project.	All essential land required for project activities is under possession. However, non-essential land is being purchased. R & R plan approved on dated 29.07.2020. However, the R&R plan shall be ensured as per State Govt. approval. Remaining condition shall be ensured in due time.
iii	A Monitoring Committee for R&R shall be constituted which must include representatives of project affected persons including from SC/ST category and a woman beneficiary.	Shall be ensured. (Annexure-B)
iv	All the commitments made during the public hearing by the developer shall be fulfilled.	Condition is being complied
v	Dumping and consolidation/ compaction of muck shall be carried out only in the designated muck dumping sites as submitted in the EIA/EMP Report. As per the proposed muck disposal plan, out of the 0.882 Mm ³ muck to be generated 0.118 Mm ³ will be utilized for construction purpose and remaining 0.764 Mm ³ will be dumped at the 2 designated disposal sites in an allocated area of 4.30 ha.	Condition is being complied. 690933.55 m ³ muck has been generated, out of which 78,000 m ³ has been utilized and 6,12,933.55 m ³ has been dumped in approved muck dumping sites

vi	A minimum environmental flow of 6.7 cumec i.e. equivalent to 20% of the minimum discharge available during 4 consecutive leanest months of the 90% dependable year shall have to be released as environmental flow for sustenance of aquatic life and downstream use. And also 6.7 cumec shall have to be maintained during November-May.	The minimum environmental flow as specified shall be maintained during operation stage of the project.
vii	Continuous monitoring system for the flow measurement shall be installed and data be displaced at appropriate site for information of civil society and stake holders. Six monthly results shall be submitted to the Regional Office of the Ministry and SPCB.	Shall be maintained during operation stage of the project.
viii	Real-time telemetry and data acquisition system including all weather hydro meteorological station shall be installed for in-flow monitoring and advance flood warning. Advance flood warning and advance communication systems shall be installed in consultation with the downstream Authorities.	Flood Early Warning System has been installed.
ix	The fishery conservation & management plan as proposed in the EMP shall be implemented in consultation with the Fisheries Department, Government of Himachal Pradesh. As proposed, the stocking programme in the reservoir in about 15.76 ha and to stock the snow trout as well as 10 km upstream/ downstream of river shall be taken-up and implemented with the help of State Fisheries Department. Establishment of hatchery should also taken-up with the help of Forest Department. Allocated amount of Rs.50 lacs for this purpose shall be fully utilized and not to be diverted for any other purpose/activity.	The revised Fisheries Management plan for Dhaulasidh HEP is under process of formation, as informed by Fisheries Department (Annexure-C)
x	As proposed in the EMP, the Compensatory Afforestation Programme in 115.4 ha shall be taken-up in consultation with State Forest Department. In addition to this NPV, Biodiversity Conservation and Management Plan and development of a herbal nursery near Sanotu village in an area of 0.50 ha shall be taken-up strictly. The allocated grant of Rs.5.589 crores for this purpose shall be fully utilized and not to be diverted for any other purpose. For compensatory Afforestation programme preference shall be given to native species.	As part of diversion of forest land, compensatory afforestation over 115.40 Ha of forest land had been proposed. An amount of Rs. 7.05 crore had been deposited to Forest department on dated 09.10.2019 (copy enclosed as Annexure - A). Shall be ensured.
xi	The Biodiversity Conservation and Management Plan shall be taken-up as outlined in the EIA/EMP report and to be implemented in consultation with the State Forest Department. A report of implementation shall be included in the six-monthly progress and compliance report to be submitted to the Ministry including its Regional Office.	Shall be ensured.
xii	Greenbelt development along the reservoir as proposed in total 10 ha of land with 13 plant species shall be undertaken. Total budget of Rs.10 lacs has been allocated including restoration shall be fully utilized not to be diverted for any other purpose.	Shall be ensured

xiii	Equipments likely to generate high noise levels shall have to meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000 and as amended in 2010 under the Environment Protection Act (EPA), 1986. For this, necessary insulators etc. may be installed to contain noise level.	Condition is being complied
xiv	Any other clearance from any other organization/department, if required shall be obtained by the project proponent before commencement of the project.	Shall be ensured.
2	PART-B: GENERAL CONDITIONS	
i	Adequate arrangement for providing free fuel like kerosene/wood/LPG shall be made at project site for the labour engaged in the construction work so that indiscriminate felling of trees is prevented. The project proponent shall ensure this.	To avoid indiscriminate felling of trees, canteen facility is being provided by the contractor to the labour force, engaged in construction activities of the project.
ii	Medical facilities as well as recreational facilities shall also be provided to the labourers.	First aid kits and a doctor are available at site.
iii	All the labourers to be engaged for construction works shall be thoroughly examined by health personnel and adequately treated before issuing them work permit.	Condition is being complied
iv	No fugitive dust emissions should be observed at the construction sites. Water sprinkling arrangements shall be made to suppress the fugitive emissions.	Water sprinkling is being undertaken at project site to suppress fugitive dust emission.
v	Potable drinking water and proper sanitation facilities should be provided for the labour force and the local area people.	Condition is being complied
vi	Restoration of construction area including dumping site of excavated materials shall be ensured by leveling, filling up of burrow pits, landscaping etc. The area should be properly treated with suitable plantation.	Restoration of construction area and dumping site shall be done after completion of the project components and in synchronization with construction activities.
vii	Environmental parameters shall be monitored regularly and six-monthly reports shall be submitted to the Regional Office of the Ministry and State Pollution Control Board for review.	Condition is being complied. (Annexure - D)
viii	The project proponent shall also submit six monthly compliance reports of the stipulated EC conditions (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF & CC / State Pollution Control Board. Both monitoring report and compliance report shall be up-loaded on the web-site of the project proponent.	Six monthly compliance reports are being submitted regularly, last submitted on 01/12/22.
5	The project proponent shall provide full cooperation and all required documents, data and access to the officials of regional office of MOEF & CC who would be monitoring the implementation of environment safeguards	Shall be ensured.

6	The responsibility of implementation of environmental safeguards rests fully with the M/S SJVN Ltd and Government of Himachal Pradesh.	Noted
7	Besides the above stated conditions, the project proponent and Government of Himachal Pradesh shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time. The Government of Himachal Pradesh may also like to monitor implementation of EMP at regular intervals.	Agreed
8	The implementation of Environmental Management Plan shall be strictly adhered to and a sum of Rs.34.15 crores, the budgetary provisions for implementation of EMP shall be fully utilized and not to be diverted for any other purpose. The project proponent may critically monitor & review project to ensure completion of scheduled. Project management tools like PERT/CPM may be used to monitoring progress.	-do-
9	This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work of the project.	Noted
10	Any change in the scope of the project shall be intimated to the Ministry and fresh issue of this letter for commencement of construction work of the project.	Agreed
11	The Ministry reserves the right to review this clearance order and add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.	Noted
12	A multi-disciplinary Committee (MDC) for monitoring the implementation of environmental safe guards during construction shall be constituted by the project proponent (PP) in consultation with the Ministry as early as possible. A panel may be proposed by the PP and submitted to Ministry. The project proponent shall organize six monthly meetings of the Committee and submit the monitoring report to the Ministry.	Multi-Disciplinary Committee (MDC) was formed by the MoEF&CC, GOI vide F.No. J-12011/15/2010-IA.I dated 28.12.2022 (Annexure-E). 1 st MDC meeting was conducted at DSHEP, Hamirpur on dated 18.01.2023.
13	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, urban local body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.	Needful done
14	The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project location, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and	The advertisement was published in local Punjab Kesari and Apka Faisla News papers on dated 16.11.2013 and 22.11.2013 respectively

	copies of clearance letter are available with the State Pollution Control Board/ Committee and may also be seen at website of the Ministry of Environment and Forests at http://www.envior.nic.in .	
15	After 5 years of the commissioning of the project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency to be decided in consultation with the Ministry.	Shall be ensured.
16	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days from the date of issue, as prescribed under Section 10 of the National Green Tribunal Act, 2010.	Noted

3)	Conditions imposed by the Ministry of Environment, Forest and Climate Change, GOI while granting Amendment in Environment Clearance vide letter no. J-12011/15/2010-IA.I dated 19/05/2021	
Sl No.	Conditions Imposed	Compliance Status
i	Issues raised during public hearing and accordingly promised by PP should be implemented in stipulated time frame.	Shall be ensured
ii	Necessary control measures such as water sprinkling arrangements at all the construction and muck disposal sites and construction of paved roads leading to muck disposal sites shall be made to arrest fugitive dust and proper institutional mechanism be prepared for supervising this activity during operation & maintenance stage of the project.	Water sprinkling is being done at all construction sites to arrest the fugitive dust.
iii	Stabilization of muck disposal sites using biological and engineering measures shall be taken up to ensure that muck does not roll down the slopes and shall be disposed safely and that it does not pollute the natural streams and water bodies in surrounding area. The engineering measures for the muck disposal arrangements be evolved after carrying out required slope stability analysis.	Stabilization of dumping site shall be done after completion of construction activities
iv	Slope height of disposed muck should be maintained at 25 degrees for stabilization of muck.	Condition is being complied
v	Necessary consent shall be obtained from District Administration due to proposed change in private land use for dumping of muck	Shall be ensured

ANNEXURE - A



एसजेवीएन लिमिटेड SJVN LIMITED

भारत सरकार एवं हिमाचल सरकार का संयुक्त उपक्रम)
(A joint venture of Govt. of India and Govt. of HP)

धौलासिद्ध जल विद्युत परियोजना
Dhoola-Sidh Hydro Electric Project

हाउस नंबर-113 वार्ड नंबर-1 कृष्णा नगर, हमीरपुर (हि० प्र०)-177001
H.No.-113, Ward No.-1, Krishna Nagar, Hamirpur (HP) - 177001
CIN - L40101HP1988GOI008409

Annexure- A

Tele: 01972-222635
Fax : 01972-223235
E-Mail: hnp.dshnp@gmail.com
Web : www.sjvn.co.in

NO: SJVN/DSHEP/DGM(C)/Forest/2019 - 77

Dated: 10-10-2019

To

DFO,
Forest Division, Hamirpur,
Himachal Pradesh.

Sub: Diversion of 57.7365 ha of Forest Land in favour of M/s SJVN (A joint Venture of Govt of India and Govt of HP) for the construction of 66.00 MW Dhaulasidh HEP, within the jurisdiction of Palampur, Hamirpur and Dehra forest divisions, Distt Kangra and Hamirpur, Himachal Pradesh - Deposit of Amount of NPV, CA, CAT Plan etc.

Sir,

With reference to your demand letter no.8290 dated 04/10/2019 the net total amount of Rs 308237538/- has been deposited on 09/10/2019 as per detail given below.

Sr. No.	Cost For	Hamirpur Division (Rs)	Dehra Division (Rs)	Palampur Division (Rs)	Total (Rs)	Remarks/ Mode of payment
1	Compensatory Afforestation including maintenance of Plantation Area	7321490	10537024	2578200	20436714	Amount deposited in Himachal Pradesh CAMPA account through e-challan (PUNBR5201910091 9596186) dated 09/10/2019 amounting to Rs 268252161/-
2	NPV	15944689	24825227	8315138	49085054	
3	Contingencies	366080	526851	128910	1021841	
4	CAT Plan				197708552	
	Total (A)	23632259	35889102	11022248	268252161	
4	Cost of trees	20017779	11942670	4448494	36408943	Through DD No. 355165, 355166 & 35516, dated 09/10/19 amounting to Rs21299049/-, Rs 4899679/- & 13786649/- in favor of DFO Hamirpur, Palampur & Dehra respectively
5	Departmental Charges	1281270	1843979	451185	3576434	
	Total (B)	21299049	13786649	4899679	39985377	
	Grand Total	44931308	49675751	15921927	308237538	



एसजेवीएन लिमिटेड
SJVN LIMITED

भारत सरकार एवं हिमाचल सरकार का संक्युत उपक्रम)
(A joint venture of Govt. of India and Govt. of HP)

धौलासिद्ध जल विद्युत परियोजना

Dhaura-Sidh Hydro Electric Project

ह3स नंबर-113 वार्ड नंबर-1 कृष्णा नगर, हमीरपुर (हि० प्र०)-177001
H.No. -113, Ward No. -1, Krishna Nagar, Hamirpur (HP) - 177001
CIN - L40101HP1988GOI008409

Tele: 01972-222635

Fax : 01972-223235

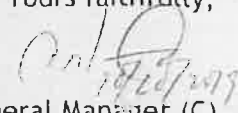
E-Mail: hop.dshep@gmail.com

Web : www.sjvn.nic.in

It is requested that the compliance report in respect of Dhaurasidh HEP may please be submitted to Nodal Officer FCA Shimla for further submission to MoEF&CC for Stage-II forest clearance.

Thanking you,

Yours faithfully,


Dy. General Manager (C)
DSHEP, Hamirpur

CC:

1. CF, Forest Circle, Hamirpur for information please
2. HOP, DSHEP, Hamirpur for kind information please

NO: SJVN/DSHEP/DGM(C)/Forest/2019 -

Dated:

AGENCY COPY

NEFT / RTGS CHALLAN for Ad-HOC CAMPA

Date : 07-10-2019

Agency Name.	DSHEPSJVN LTD
Application No.	5696500931
MoEF/SG File No.	NA
Location.	HIMACHAL PRADESH
Address.	H.N.-113, SJVN office Hamirpur
Amount(in Rs)	268252161/-

Amount in Words: Twenty-Six Crore Eighty Two Lakh Fifty-Two Thousand One Hundred and Sixty-One Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	HIMACHAL PRADESH CAMPA
IFSC Code:	CORP0000371 ,
Pay to Account No.	150705696500931 Valid only for this challan amount.
Bank Name & Address:	Corporation Bank Lodhi Complex Branch, Block 11 CGO Complex Phase I, Lodhi Road, New Delhi -110003

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only
- This challan is valid only for seven days

After making successful payment, User Agencies n
Email: helpdeskcampa@corpbank.co.in

ANNEXURE - B

(U)

From No.DCH/DRA/Dhau lasidh Project/2021- 30
The Deputy Commissioner,
District Hamirpur (H.P)

To Head of Project
Dhau la Sidh Hydel Power Project,
Hamirpur, District Hamirpur (H.P)

Dated, Hamirpur 11th January, 2023


Subject: - Constitution of Rehabilitation & Resettlement Committee under Section 45 of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement Act, 2013.

Sir,

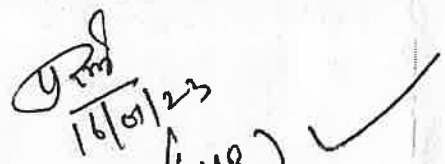
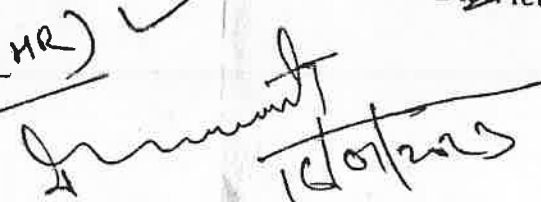
Kindly refer to the letter No. SJVN/DSHEP/HR/R&R/2022-1294 Dated 27/10/2022, received from O.P. Lakhanpal, Associate Consultant, Dhau lasidh Hydro Electric Project, Hamirpur (HP), vide which it has been requested to constitute the R&R Committee under Section 45 of the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation & Resettlement Act, 2013.

In view of the above, I have been directed to inform you that whereas you have directly purchased the land from land owners under Transfer of property Act 1894 and at that time you have not adopted the procedure under Right to fair Compensation Act 2013. Hence there is no need to constitute the R&R Committee now.

Yours Faithfully,


District Revenue Officer
District Hamirpur (H.P)




→ M.P. (HR) ✓

Am (R&R)

ANNEXURE - C

②

No. FSH-F (2)-39/2010-ARC-Dhulasidh 7977
Directorate of Fisheries,
Himachal Pradesh

E-mail

From

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

To

✓ Head of Project,
DSHEP, SJNV Ltd.
Village Salasi, P.O. Jeehan,
Tehsil Nadaun, District Hamirpur
H.P 177044
Phone No: 01972-223237
Fax: 01972-223235
E-mail: hop.dshep@gmail.com
E-mail: hop.dshep@sjvn.nic.in

Dated Bilaspur-174001 the, 08/08/22

Subject: -

Submission of Fisheries Management Plan-Dhulasidh HEP reg.

Sir,

I invite a reference of your office letter no. SJVN/DSHEP/04-01/H-28/2022-1158, dated 28.07.2022 on the subject cited above.

In this context, I would like to inform that revised Fisheries Management Plan of above said HEP is under the process of formation at Assistant Director Fisheries Palampur level. As this office receives FMP for Dhulasidh HEP (66MW) same will be supplied to your good office without any further delay. Hence, information submitted for your kind perusal, please.

Yours faithfully,



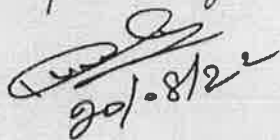
(Satpal Mehta)

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

E-mail : fisheries-hp@nic.in
Tel/Fax: 01978-224068


11/8/22

→ DGM (M) / Sr Mgr (Geo)


20/08/22





ANNEXURE - D

Idma Laboratories Limited

TEST REPORT

Lab No.	230323N-E-001		Page No. 1/2	
Customer	Rithwik Projects Pvt. Limited DSHEP 66 MW Hydro Electric Project Dhaula Sidh Hamirpur Himachal Pradesh			
Type of Sample	Ambient Air			
Customer's Description of Sample	Ambient Air			
Quantity	1 No			
Packing, Markings	Filter Paper Packed in Polythene Pouch			
Mode of Collection of Sample	Sampling by Laboratories			
Work Order No.	E MAIL	Dated	12/03/2023	
Date of Receipt of Sample	23/03/2023			
Period of Analysis	23/03/2023 To 28/03/2023			
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects	
Sampling Location	Coffer DAM Near Site Area			
Visual Observation	N/A			
Date of Sampling	22/03/2023			
Date of Reporting	28/03/2023			
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013			
Testing Protocol	NAAQS			

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m ³	79.3	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	18.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	22.7	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	28.1	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	37.9	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.61	Max. 2	NAAQMS/36/2012-13



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

commercial@idmalab.co.in

Disclaimer :

- The Test Report is only for the sample tested.
- Samples not drawn by us unless otherwise started.
- Total liability of Idma Laboratories Limited is limited to the invoiced amount.
- If sample(s) not consumed, they will be stored & retained as per Company Policy / quality System Procedure.
- The Test Report shall not be reproduced except in full without the written approval of the laboratory.
- The Test Report is intended only for guidance & not for legal purpose or for advertisement.
- The Test Report in full or parts shall not be used for promotional or publicity purpose.
- Legal disputes are subjected to Panchkula Jurisdiction only.
- Any complaint/discrpancies in this Test Report Should be communicated in writing within 15 days of the dispatch of Test Report.
- In case of any dispute, the terms & conditions of Idma Laboratories Limited shall prevail.
- In case of any feedback/complaints, please send email at testing@idmagroup.co.in or call at 0172 - 5064827 / 5064830

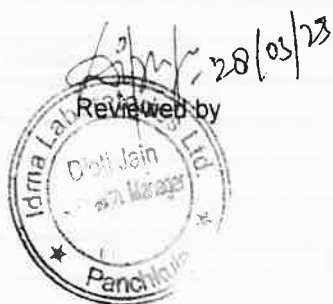


Idma Laboratories Limited

TEST REPORT

Lab No.	230323N-E-001				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	23	Max. 100	NAAQMS/38/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	<2.0	Max. 5	NAAQMS/38/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m^3	<0.9	Max. 1	NAAQMS/38/2012-13(GC method)
10	Arsenic	ng/m^3	<1	Max. 6	NAAQMS/38/2012-13
11	Nickel	ng/m^3	<8	Max. 20	NAAQMS/38/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1	NAAQMS/38/2012-13

End of Report



Idma Laboratories Limited

Idma Corporate Park,

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Tel No. 0172 - 5064827,- 5064830

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Idma Laboratories Limited

TEST REPORT

Lab No.	230323N-E-002	Page No. 1/2	
Customer	Rithwik Projects Pvt. Limited DSHEP 66 MW Hydro Electric Project Dhaula Sidh Hamirpur Himachal Pradesh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	E MAIL	Dated	12/03/2023
Date of Receipt of Sample	23/03/2023		
Period of Analysis	23/03/2023 To 28/03/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Crusher Plant Area		
Visual Observation	N/A		
Date of Sampling	22/03/2023		
Date of Reporting	28/03/2023		
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m ³	82.6	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	19.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	22.7	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	29.1	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	38.6	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.62	Max. 2	NAAQMS/36/2012-13



[Signature]
28/03/23
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Idma Laboratories Limited

TEST REPORT

Lab No.		230323N-E-002				Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method	
7	Ozone	µg/m ³	22	Max. 100	NAAQMS/36/2012-13(Chemical method)	
8	Benzene	µg/m ³	<2.0	Max. 5	NAAQMS/36/2012-13(GC method)	
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m ³	<0.9	Max. 1	NAAQMS/36/2012-13(GC method)	
10	Arsenic	ng/m ³	<1	Max. 6	NAAQMS/36/2012-13	
11	Nickel	ng/m ³	<8	Max. 20	NAAQMS/36/2012-13	
12	Lead	µg/m ³	<0.1	Max. 1	NAAQMS/36/2012-13	

End of Report



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Idma Laboratories Limited

TEST REPORT

Lab No.	230323N-E-003	Page No. 1/2	
Customer	Rithwik Projects Pvt. Limited DSHEP 66 MW Hydro Electric Project Dhaula Sidh Hamirpur Himachal Pradesh		
Type of Sample	Ambient Air		
Customer's Description of Sample	Ambient Air		
Quantity	1 No		
Packing, Markings	Filter Paper Packed in Polythene Pouch		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	E MAIL	Dated	12/03/2023
Date of Receipt of Sample	23/03/2023		
Period of Analysis	23/03/2023 To 28/03/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Colony Area		
Visual Observation	N/A		
Date of Sampling	22/03/2023		
Date of Reporting	28/03/2023		
Sampling Protocol	NAAQMS/36/2012 13 USEPA:2013		
Testing Protocol	NAAQS		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Ambient air)	-	-	-	-
1	PM10	µg/m ³	81.5	Max. 100	NAAQMS/36/2012-13(Gravimetric method)
2	SO2	µg/m ³	17.4	Max. 80	NAAQMS/36/2012-13(Improved West & Gaeke method)
3	NO2	µg/m ³	20.3	Max. 80	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
4	NH3	µg/m ³	22.7	Max. 400	NAAQMS/36/2012-13(Modified Jacob & Hochheiser method)
5	PM2.5	µg/m ³	35.2	Max. 60	NAAQMS/36/2012-13(Gravimetric method)
6	CO	mg/m ³	0.61	Max. 2	NAAQMS/36/2012-13



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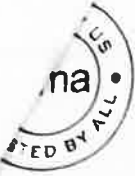
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TEST REPORT

Lab No.		230323N-E-003			Page No. 2/2
S.No.	Test Parameter	Units	Results	Specifications	Test Method
7	Ozone	$\mu\text{g}/\text{m}^3$	22	Max. 100	NAAQMS/38/2012-13(Chemical method)
8	Benzene	$\mu\text{g}/\text{m}^3$	<2.0	Max. 5	NAAQMS/38/2012-13(GC method)
9	Benzo-a-Pyrene(BaP) - Particulate phase	ng/m^3	<0.8	Max. 1	NAAQMS/38/2012-13(GC method)
10	Arsenic	ng/m^3	<1	Max. 6	NAAQMS/38/2012-13
11	Nickel	ng/m^3	<8	Max. 20	NAAQMS/38/2012-13
12	Lead	$\mu\text{g}/\text{m}^3$	<0.1	Max. 1	NAAQMS/38/2012-13

End of Report



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TEST REPORT

Lab No.	230323N-E-004		Page No. 1/1
Customer	Rithwik Projects Pvt. Limited DSHEP 66 MW Hydro Electric Project Dhaula Sidh Hamirpur Himachal Pradesh		
Type of Sample	NOISE LEVEL (AMBIENT)		
Customer's Description of Sample	NOISE LEVEL (AMBIENT)		
Quantity	1 No		
Packing, Markings	Instrument at Site		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	E MAIL	Dated	12/03/2023
Date of Receipt of Sample	23/03/2023		
Period of Analysis	23/03/2023 To 28/03/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	DG Area		
Visual Observation	N/A		
Date of Sampling	22/03/2023		
Date of Reporting	28/03/2023		
Sampling Protocol	CPCB Protocol:2015		
Testing Protocol	EPA/CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Limits	Test Method
	CHEMICAL DISCIPLINE (Noise Levels)	-	-	-	-
1	Lday	dB(A)	69.8	Max 75	EPA Guideline Manual July 2008
2	LNight	dB(A)	57.7	Max 70	EPA Guideline Manual July 2008

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TEST REPORT

Lab No.	230323N-E-005	Page No.	1/1
Customer	Rithwik Projects Pvt. Limited DSHEP 66 MW Hydro Electric Project Dhaula Sidh Hamirpur Himachal Pradesh		
Type of Sample	Soil		
Customer's Description of Sample	Soil		
Quantity	2 kg		
Packing, Markings, Seal & Quantity	Polythene Bag		
Mode of Collection of Sample	Sampling by Laboratories		
Work Order No.	E MAIL	Dated	12/03/2023
Date of Receipt of Sample	23/03/2023		
Period of Analysis	23/03/2023 To 28/03/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Site Area		
Visual Observation	N/A		
Date of Sampling	22/03/2023		
Date of Reporting	28/03/2023		
Sampling Protocol	EPA540/R-95/141:1995/LSASDPROC-300-R 2020		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	CHEMICAL TESTING (Soil)	-	-	-
1	pH	-	6.89	USEPA 1998 , 9045D
2	Conductivity	µs/cm	219	USDA Soil Method Manual 1996 & 2014
3	Moisture	%	14.7	USDA Soil Method Manual 1996 & 2014
4	Total Kjeldhal Nitrogen	mg/kg	162.3	EPA Method 1688
5	Calcium and Magnesium	mg/kg	648	USEPA 1640
6	Nitrate Nitrogen	mg/kg	70.4	USDA Soil Method Manual 1996 & 2014
7	Total Potassium	mg/kg	18.6	USEPA 1640:1997
8	Iron	mg/kg	122.1	USEPA 1640:1997
9	Sodium Absorbtion Ratio (SAR)	-	4.8	USDA Soil Method Manual 1996 & 2014

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TEST REPORT

Lab No.	230323N-E-006	Page No. 1/2	
Customer	Rithwik Projects Pvt. Limited DSHEP 66 MW Hydro Electric Project Dhaula Sidh Hamirpur 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.	E MAIL	Dated	12/03/2023
Date of Receipt of Sample	23/03/2023		
Period of Analysis	23/03/2023 To 28/03/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Surface DT Area		
Visual Observation	N/A		
Date of Sampling	23/03/2023		
Date of Reporting	28/03/2023		
Sampling Protocol	IS:17614 (P-1) 2021		
Testing Protocol	-		

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	<5	APHA 2120 B&C 23rd Edition, 2017
2	pH	-	7.33	APHA 4500H+B 23rd Edition, 2017
3	Alkalinity as CaCO ₃	mg/L	126	APHA 2320 B 23rd Edition, 2017
4	Calcium as Ca	mg/L	27.4	APHA 3500-Ca B 23rd Edition, 2017
5	Chloride as Cl	mg/L	32.9	APHA 4500Cl- B 23rd Edition, 2017
6	Fluoride as F	mg/L	0.15	CPCB Guide Manual:Water & waste water Analysis
7	Hardness Total (as CaCO ₃)	mg/L	118	APHA 2340C 23rd Edition, 2017
8	Total Dissolved Solids	mg/L	235	APHA 2540 C 23rd Edition, 2017
9	Taste	Qualitative	Agreeable	APHA 2160 B 23rd Edition, 2017



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TEST REPORT

S.No.	Test Parameter	Units	Results	Test Method
10	Iron as Fe	mg/L	0.03	APHA 3125 B 23rd Edition 2017
	Biological Testing (Water)	-	-	-
11	E. Coli	MPN/100ml	110	APHA 9221B&C 23rd Edition 2017
12	Total Coliform Bacteria	MPN/100ml	350	APHA 9221B&C 23rd Edition 2017

Opinion :

****End of Report****



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TEST REPORT

Lab No.	230323N-E-007		Page No. 1/2
Customer	Rithwik Projects Pvt. Limited DSHEP 66 MW Hydro Electric Project Dhaula Sidh Hamirpur 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.	E MAIL	Dated	12/03/2023
Date of Receipt of Sample	23/03/2023		
Period of Analysis	23/03/2023 To 28/03/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	Outlet DT Area		
Visual Observation	N/A		
Date of Sampling	23/03/2023		
Date of Reporting	28/03/2023		
Sampling Protocol	IS:17614 (P-1) 2021		
Testing Protocol			

RESULTS

S.No.	Test Parameter	Units	Results	Test Method
	Chemical Testing (Water)	-	-	-
1	Color	Hazen	<5	APHA 2120 B&C 23rd Edition, 2017
2	pH	-	7.41	APHA 4500H+B 23rd Edition, 2017
3	Alkalinity as CaCO3	mg/L	132	APHA 2320 B 23rd Edition, 2017
4	Calcium as Ca	mg/L	28.3	APHA 3500-Ca B 23rd Edition, 2017
5	Chloride as Cl	mg/L	34.5	APHA 4500Cl- B 23rd Edition, 2017
6	Fluoride as F	mg/L	0.14	CPCB Guide Manual:Water & waste water Analysis
7	Hardness Total (as CaCO3)	mg/L	108	APHA 2340C 23rd Edition, 2017
8	Total Dissolved Solids	mg/L	264	APHA 2540 C 23rd Edition, 2017
9	Taste	Qualitative	Agreeable	APHA 2160 B 23rd Edition, 2017



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TEST REPORT

Lab No.		230323N-E-007			Page No. 2/2
S.No.	Test Parameter	Units	Results	Test Method	
10	Iron as Fe	mg/L	0.18	APHA 3125 B 23rd Edition 2017	
	Biological Testing (Water)	-	-	-	
11	E. Coli	MPN/100ml	90	APHA 9221 B&C 23rd Edition 2017	
12	Total Coliform Bacteria	MPN/100ml	220	APHA 9221 B&C 23rd Edition 2017	

Opinion :

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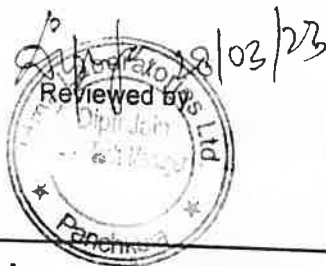
TEST REPORT

Lab No.	230323N-E-008		Page No. 1/1
Customer	Rithwik Projects Pvt. Limited DSHEP 66 MW Hydro Electric Project Dhaula Sidh Hamirpur 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.	E MAIL	Dated	12/03/2023
Date of Receipt of Sample	23/03/2023		
Period of Analysis	23/03/2023 To 28/03/2023		
Sampling Team Idma	Idma Representative Team	Client	Rithwik Projects
Sampling Location	STP Plant		
Visual Observation	N/A		
Date of Sampling	23/03/2023		
Date of Reporting	28/03/2023		
Sampling Protocol	IS:17614 (P-1) 2021		
Testing Protocol	CPCB		

RESULTS

S.No.	Test Parameter	Units	Results	Specifications	Test Method
	CHEMICAL TESTING (Waste Water)	-	-	-	-
1	pH	-	7.59	6.5-9.0	APHA4500-H+ B23rd Edition 2017
2	Chemical Oxygen Demand (COD)	mg/L	106.2	-	CPCB Guide Manual:Water & waste water Analysis
	Biochemical Oxygen Demand (BOD), 3-days at 27 °C	mg/L	19	Max. 30	CPCB Guide Manual:Water & waste water Analysis
4	Oil & Grease	mg/L	2.2	-	EPA Method 1664
5	Total Dissolved Solids (TDS)	mg/L	745	-	APHA2540 C23rd Edition 2017
6	Total Suspended Solids (TSS)	mg/L	36	Max. 100	APHA2540 D23rd Edition 2017

End of Report



Authorized signatory



Idma Laboratories Limited

Corporate Park,

1, Industrial Area, Phase - 1,

Panchkula - 134113,

Ryana (India)

No. 0172 - 5064827, - 5064830

Website : www.idmagroup.co.in

Disclaimer :

- The Test Report is only for the sample tested.
- Samples not drawn by us unless otherwise started.
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- In case of any dispute, the terms & conditions of Idma Laboratories Limited shall apply.

ANNEXURE - E

F. No. J-12011/15/2010-IA.I
Ministry of Environment, Forest and Climate Change
Government of India
(IA Division)

2nd floor, Vayu Block,
Indira Paryavaran Bhawan,
Aliganj, Jor Bagh,
New Delhi - 110 003

Dated: 28th December, 2022

To,

The Addl. General Manager
SJVNL
Distt.- Hamirpur-177001 (H.P.)
E-mail: pkg1dshep@gmail.com

Subject: Regarding Constitution of Multi-Disciplinary Committee (MDC) to oversee the implementation of various environmental safeguards proposed in EIA/EMP report during construction of Dhaulasidh HEP (66 MW), S J V N Ltd. in Hamirpur District of Himachal Pradesh.

Sir,

This has reference to your letter No. letter No. SJVN/DSHEP/Envt/EC/ Compliance /2021-90 dated 29.10.2021 received in the Ministry from M/s SJVN Limited regarding constitution of Multi-Disciplinary Committee (MDC) to oversee the implementation of various safeguards proposed in EIA/EMP report of Dhaulasidh HEP (66MW), during construction period of the project in accordance of Environmental Clearance (EC) General Condition (Sr. No. 12). The aforesaid EC condition of the Environmental Clearance letter dated 21.02.2013 is reproduced as under:

"A multi-disciplinary Committee (MDC) for monitoring the implementation of environmental safe guards during construction shall be constituted by the project proponent (PP) in consultation with the Ministry as early as possible. A panel may be proposed by the PP and submitted to Ministry. The project proponent shall organize six monthly meetings of the Committee and submit the monitoring report to the Ministry."

2. The Competent authority has approved the constitution of Multi- Disciplinary Committee (MDC) as under:

S. No.	Name/Post	Discipline	Nomination
1.	Chief Conservator of Forests, Hamirpur Forest Circle, HP Forest	Forestry	Chairman ✓
2.	Head of the Integrated Regional Office (Shimla) as representative of MoEF&CC	MOEF&CC	Member ✓
3.	Himalayan Forest Research Institute, Shimla	Official Expert Ecology	Member ✓
4.	Chief Conservator of Forest (Wildlife) North, HP Forest Department, Dharamshala	Official Expert (Wild Life)	Member ✓
5.	Member Secretary, HPPCB, Himachal Pradesh	Member Secretary/ Representative	Member ✓



6.	Fisheries, HP Fisheries Department, Palampur, Distt: Kangra, Himachal Pradesh	Official Expert (Fisheries)	Member
7.	JE, Department of Agriculture, Hamirpur, Himachal Pradesh	Official Expert (Soil Conservation)	Member
8.	Prof. O. P. Monga, (Retired Prof. of Sociology, HPU) Solan, Himachal Pradesh	Non-official Expert (Sociology)	Member
9.	Head of Department (Environment), Dhaulasidh HEP, Hamirpur	Official Expert (Environment)	Member
10.	Sr. Manager (Environment) M/s SJVN, Shimla	Official Expert (Environment)	Member
11.	Addl. General Manager	Project Head, SJVNL	Member Secretary

3. Whenever MDC is convened, minutes of the meeting shall be submitted to the Ministry.

4. This issues with the approval of the Competent Authority.

Yours faithfully,

G. P. Singh
20.12.2022
(Yogendra Pal Singh)
Scientist 'E'

Copy to:

1. The Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, Shimla 1st & 2nd Floor, C.G.O. Complex, Longwood, Shimla - 171 001.
2. Dhaulasidh Hydro Electric Project, M/s Satluj Jal Vidyut Nigam Limited, Corporate H.Q., Shakti Sadan, Shanan, Shimla - 171 006.
3. Guard File