

No

No 1193

H.P. Forest Department

Dated Reckong Peo, the, 31 May, 2023

From: DCF Kinnaur Forest Division

To: CCF Rampur.

Subject: - Diversion of 7.3722 Ha. of forest land as additional forest land requirement in already approved diversion in favour of Shongtong Karchham Hydro Electric Project, HPPCL under the jurisdiction of Kinnaur Forest Division Distt. Kinnaur, H.P. (Online No. FP/HP/HYD/4061/2019).

Ref: - MoEF&CC, Forest Conservation Division Indra Paryavaran Bhawan Ali Ganj, Jorbag Road New Delhi dated 19.05.2023 further endst. No. 894 dated 25.05.2023 from CF Rampur.

Sir,

Jai Hind,


This is in compliance to EDS raised by Assistant Inspector General of Forest MoEF&CC Forest Conservation Division New Delhi please find enclose herewith the compliance to the short comings received from Project proponen i.r.o. subject cited FC case are as under: -

Sr. No.	Observation	Compliance/Reply
1	The KML files of the dumping site as sought on 29.03.2023 has been provided, however the details including the KML file of the project area affected by flood and that due to the restriction imposed by army authorities has not been provided. The same shall be submitted.	The dumping area (DS-1) affected by the flood could not be utilized by the project proponen & dumping site (DS-3) where restriction were impose by the Army Authorities, were partially utilize as per the permission granted by Army Authorities but now once again restrained/restricted the dumping activities on DS-3. Copy of the Restriction imposed by Army authorities is being provided as Annex-A KML shaped file of these sites is now being submitted in CD as received by the Project proponen.
2	In compliance to observation of this Ministry vide point (iii) of letter dated 29.03.2023, the status of implementation of the CAT plan has not been provided by the State Government.	The consolidated, utilization/implementation of CAT Plan as on 31.03.2023, Rs. 41, 06, 94,500 against Rs. 60,40,00,000 deposited for the CAT plan by project proponen (Shongtong Karchham HEP) copy of the details of physical and financial progress of CAT plan i.r.o. STKHEP is attached as Annexure-B.
3	The State Govt. may confirm	All the conditions stipulated in stage-II approval

	that all the conditions stipulated in the Stage-II approval dated 14.11.2012 for diversion of 63.5015 ha. of forest land for construction of 402 MW Shongtong Karchham Hydro Electric Project under FCA, 1980 and Environment Clearance dated 19.05.2011 have been complied.	dated 14.11.2012 and Environment Clearance (EC) dated 19.05.2011 are being complied in all respect. By the project proponent copy of the same is being regularly provided to this office by the Project proponent. The committee constituted by IRO MoEF&CC Shimla has also visited the project site on dated 19.05.2023 to 21.05.2023 and visiting team were fully satisfied with the implementation of the stipulated condition. Copy of the implementation of compliance condition of EC and FC reported by project proponent is attached as Annexure-C.
4	The shape file/KML files for diverted forest area i.e.63.5015 showing various components have been submitted in line feature instead of polygon. Therefore, the correct KML file of 63.5015 ha. in polygon format shall be submitted.	The shape file/KML files for diverted forest area i.e. 63.5015 ha. in polygon format is being submitted in CD.
5	KML file of approved forest area (63.5015 ha.) and approved components therein i.e. HRT and Adit-2 is found overlapping with the CA site namely C-170 approved in this project. Therefore, the accuracy of the KML file of said CA site needs to be verified.	The KML file of approved forest land (area 60.5015 ha.) in which the component of HRT are underground i.e. notional (Benith the surface of the proposed CA site No. 170). Hence, in KML file it appears as over lapping with the CA site of C-170. But in actual C-170 is the surface diversion whereas the component of HRT are underground Benith/below the surface of CA site which is duly verified.

This is for your kind Perusal and further necessary action at your end please.

Thanking you,

  
Deputy Conservator of Forest,  
Kinnaur Forest Division,  
At Reckong Peo.

Endst. No.

Dated R/Peo,

Copy is forwarded to:

The General Manager STKHEP-HPPCL R-Peo for information w.r.t their office letter No.920-22 dated 28/04/2023 please

Tele: 3404

136 (I) Inf Bde Gp OMC  
PIN-909136  
c/o 56 APO

C/1412/10/HAMN

29 Sep 2020

General Manager  
Shongtong-Karchham HEP, (450 MW)  
HPPCL, Reckong Poo,  
Distt Kinnaur HP-172107

1789  
03/10/2020

**PERMISSION FOR PORTAL EXCAVATION TO START UNDERGROUND  
TUNNELING WITHIN 1200 YARDS OF AMMUNITION POINT POWARI  
IN DISTRICT KINNAUR OF HIMACHAL PRADESH**

1. Please refer :-

- (a) Govt of India, Min of Defense, Center for Fire, Explosive & Environment Safety (CFEES) letter No CFGEES/ESG/800/1/2020 dt Jun 2020.
- (b) HPPCL letter No HPPCL/GM-STKHEP/EPC Contract/2020-4559-63 dt 28 Sep 2020.

2. As per directions received from Headquarters Western Command, the permission to carry out blasting for SFT cannot be granted as full CFEES clearance has not been provided.

3. This is for your information please.

G.M.  
A.G.M.  
F&A  
P&A  
P&C  
&R  
Sr. M.O.  
Sr. M.O.

  
(Kapil Negi)  
Waj  
Adm Offr  
for OC

**Copy to:-**


HQ 136 (I) Inf Bde Gp (Q) -  
PIN-908636  
c/o 56 APO

for info along with a/m cited para 1 (b) copy att.

08/12/20  
08/12/20

For info as discussed bt.

08/12/20

50 (RMS)  


भारत सरकार, रक्षा मंत्रालय  
अग्नि, विस्फोटक एवं पर्यावरण सुरक्षा केंद्र  
बि. एस. के. मजुमदार मार्ग, तिमरपुर,  
दिल्ली - ११००४४.  
फैक्स (०११) २३८१६४४७  
फोन (०११) २३८०७१८८



No. CFEES/ESG/400/1/2021  
Govt. of India, Min. of Defence  
Centre for Fire, Explosive & Environment  
Safety, (CFEES)  
Brig. S. K. Mazumdar Marg, Timarpur,  
Delhi-110054  
Fax : (011) 23819547  
Phone : 23907188  
Date: 19 Jan 2021

All correspondence to be addressed  
to Director CFEES

सभी पत्रादि निदेशक सी.एफ.ई.एस.के. पते से  
भेजे जाने चाहिए।

Office of Deputy Commissioner  
Kinnaur District at R/Peo.

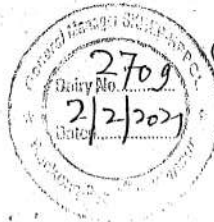
✓ HPPCL

Shongtong-Karchham Hydro Electric Project  
Reckong-Peo,  
Distt. Kinnaur (HP) -172107

**Permission for portal excavation to start underground tunneling in the vicinity of  
Ammunition Point at Powari in District Kinnaur of Himachal Pradesh**

- Refer the following
  - Letter No. KNR-111-156-(DRA)/2014-1076394 dated 21 Dec 2020.
  - CFEES/ESG/400/1/2020 dated 18<sup>th</sup> Jun 2020 (Copy enclosed).
  - Letter No. C/142/ /AMN/ dated 12 Jun 2020
  - C/142/ 76/AMN/ dated 16 Mar 2020
  - HPPCL letter No. HPPCL/STKHEP/EPC Contract/ 2020-7241-45 dated 20-02-2020
- CFEES has already communicated about the risk due to excavation of SFT by blasting to the Ammunition Point and risk to SFT falling within OQD, due to any accidental explosion in ammunition storage buildings of Ammunition Point vide CFEES letter referred above as 1 (b).
- CFEES does not play any role in according permission for construction in the vicinity of Ammunition Point. It is prerogative of authorities of Ammunition Point to accord or deny permission for any construction within OQD of ammunition buildings.  
You are requested to approach authorities of Ammunition Point regarding construction of SFT falling within OQD of explosive buildings.

G.L.  
A.G.M.  
F&A  
F&A  
F&A  
D&A  
Sr. M-I  
Sr. M-II



*Hemlata Gautam*

(हेमलता गौतम/ Hemlata Gautam)

वैज्ञानिक 'ई' / Scientist 'E'  
कृते निदेशक/ For Director

Copy to

136 Inf Bde Gp OMC  
PIN-909136  
C/o 56 APO

HQ 136 (I) Inf Bde Gp (Q)  
PIN-908636  
C/o 56 APO

*Jy. Mgtl (EMV/R&R)*

*(Signature) 03.02.21  
-am (R&R)*

1123/Muck Dumping/37/QM

Himachal Pradesh  
Power Corporation Ltd  
Dist- Kinnaur (Reckong Peo)

Registered Post  
136 (I) Inf Bde Gp OMC  
PIN-909136  
c/o 56 APO

20 Jan 2020



**DUMPING OF EXCAVATION MUCK AT DESIGNATED  
DUMPING SITE NO 03**

1. Refer to HPPCL, Shimla letter No SWD-(A)4-5/2017-Loose-I dated 17 Sep 2019.

2. It is intimated that permission for dumping excavated earth at site No 3 has been recorded. The dumping will be carried out under supervision and restrictions as mandated as per provision of WoDA-1903. Following aspects have to be strictly adhered to:-

- (a) Safety and Security of Ammunition point, persons & stores.
- (b) No dumping will be allowed to take place above the ground level in the immediate vicinity/perimeter of Ammunition Point.
- (c) No crowding/ unauthorised movement of vehs in the restricted zone.
- (d) No construction/ obstruction of any kind (Temporary / Permanent) will be allowed.
- (e) No blasting / hazardous activity in notified area in vicinity of Ammunition Point.
- (f) Dumping will be carried out in a phased manner so as to prevent crowding of vehicles in the vicinity of Ammunition Point.
- (g) The activity if found unsuitable would be stopped forthwith on requisition of Military authorities and subsequent attention is drawn to WoDA 1903.

3. In view of the above, you are requested to forward tentative plan covering dumping schedule prior to commencement of dumping.

S61  
S-82-2020

  
(Mani Singh)  
Lt Col  
Officer Commanding

Copy to

136 (I) Inf Bde Gp (Q) -  
908636  
56 APO

For info.pl.

SM (R & R)  
For information & m.a. please



C/1412/Lippa/Amn

09 Feb 2023

Sh. Surendra Singh Rathore, IAS  
Deputy Commissioner  
Kinnaur (Reckong Peo)  
Himachal Pradesh-172102



**DIVERSION OF 48.6711 HA OF FOREST LAND IN FAVOUR OF 136 (I) INF BDE GP OMC FOR THE RELOCATION OF AMMUNITION POINT FROM POWARI TO LIPPA OF KINNAUR IN MOORANG RANGE WITHIN THE JURISDICTION OF FOREST DIVISION DISTT KINNAUR HP**

1. PI ref the fwg:-

- (a) Orders of Hon'ble High Court Shimla dated 02 Nov 2020 on CWP 1667/2013 dated 28 May 2015.
- (b) O/o Deputy Commissioner, Kinnaur letter No KNR.111.156 (DRA)/2014/1087838 dated 27 Jan 2023.

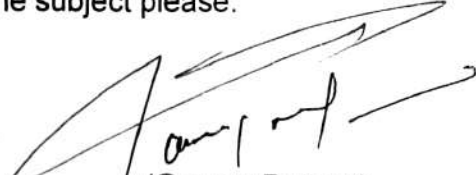
2. It is submitted that as per para 1 (b) above, Gram Sabha rejected the ibid proposal unanimously due to which District Collector, Kinnaur was unable to issue compulsory FRA certificate because there is no provision to override the decision of Gram Sabha under the act. Since, the matter was already discussed in the Hon'ble High Court and accordingly a status report/affidavit on execution petition No 106/2016 in CWP 1667/2013 dated 05 Sep 2018 by the Deputy Commissioner (On behalf of respondent of 1 to 4) was presented before the Hon'ble High Court to expedite the matter on priority. However, till date no significant progress has been made in this regard for handing over the aforesaid land. The non fructification of long

outstanding case is a matter of deep concern as it is critically hampering Operational preparedness of Indian Army amid growing tensions along Line of Actual Control with China. It is also reiterated that the placement of critical Ammunition and Infra development in this sector is held up due to delay in handing over of ibid land. The same has been viewed seriously by higher Army authorities as delay has severe repercussions on national security.

3. In addition, it is also intimated that a case of violation of Works Of Defence Act 1903 in the form of illegal construction activities and dumping of excavated muck at Dumping site No 3 has been observed on the left and right bank of the river Satluj site which is lying within the notified area upto 1200 yards from the Ammunition point as well as Depot area of 136 (Independent) Infantry Brigade Group Ordnance Maintenance Company at Poari. The direction on the ibid matter has already been passed by the Hon'ble Court wrt CWP/1667 dated 02 Nov 2020. Therefore, it is requested to issue necessary directions to all stake holders to refrain from any kind of activities within the notified area of 1200 yards till the time necessary directions received from higher Headquarters.

4. This is for your information and prompt action on the subject please.



  
(Gaurav Parmar)  
Major  
Administrative Officer  
for Officer Commanding

Copy to :-

Additional Chief Secretary  
Govt of Himachal Pradesh  
Himachal Pradesh Secretariat,  
Shimla-171002 (H/P)

Additional Chief Secretary (Power)  
Govt of Himachal Pradesh  
Himachal Pradesh Secretariat,  
Shimla-171002 (H.P)

Secretary (Revenue)  
Govt of Himachal Pradesh  
Himachal Pradesh Secretariat,  
Shimla-171002 (H.P)

The Commissioner (TD)  
Govt of Himachal Pradesh

Dr Ajay Kumar, IAS  
Managing Director  
HPPCL, Himfed Building, BCS  
New Shimla, Shimla  
HP-171009

General Manager  
HPPCL, Reckong Peo  
District-Kinnaur

- For information and necessary action please.

- This is for your information and issue of necessary directions please.

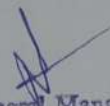
- This is for your information wrt to issue early clarification on the subject as asked vide DC, Kinnaur letter No KNR-111-156 (DRA) /2014/1087888 dated 27 Jan 2023 please.

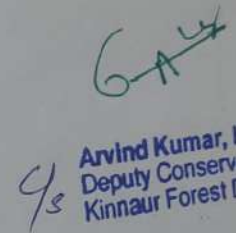
- It has been observed that at dumping site No 3 movement of men, material, earth moving machineries and vehicles has been increased significantly which is matter of deep security concerns as it is in close proximity of Ammunition point. Therefore, you are requested to issue necessary directions to all concerned to stop all the activities within the notified area as per Orders of Hon'ble High Court dated 02 Nov 2020. This is for your information and issue of necessary direction to all concerned please.

Name of C A I Plan		Shongtong Karchham HEP				Balance	
Cost of C A I Plan		66340000					
Amount Deposited till date		66340000					
Sl. No.	Components/Activity	Name of Division	Total Provision			Year wise Expenditure (In Rupees)	Balance
			Units	Phy	Fin		
1	Afforestation Measure						
a	Barriers Development				4300000	9818427	
b	Normal Plantation (Irrigated)				3213000	0	
	Normal Plantation ( Non-Irrigated)				272000	3727700	
c	Enrichment (Irrigated)				1286000	0	
	Enrichment ( Non-Irrigated)				2701000	13146910	
d	Conservation and development of Chilgoza pine				100000000	0	
	<b>Sub Total of Afforestation</b>				<b>111772000</b>	<b>26693037</b>	<b>85078963</b>
	Soil and water conservation endeavours					0	
2							
a	Landslides/Slip				25950000	112167792	
b	Nalla Treatment				61450000	120512887	
c	River Bank Stabilization				5000000	26040941	
d	Avalanche control				22800000	13568200	
e	Van Sarovar				2500000	0	
	<b>Sub Total Soil and water</b>				<b>117700000</b>	<b>272289820</b>	<b>-154589820</b>
3	Prevent for Envirmental Service				20000000	0	20000000
4	Research, Farming and capacity build up Publicity & Awareness, Documentation				10000000	2892929	7107071
5	Infrastructure built up and Forest Protection					0	
a	Building Repair				12175000	21276512	
b	Path				4875000	10725600	
c	Vehicle and operational Support				45700000	9519294	
d	Silt Monitoring				5500000	100000	
e	<b>Forest Protection</b>					0	
i	Boundary Pillar				1650000	650000	
ii	Fuel Seving				500000	497600	
iii	Sign and Board				200000	125000	
iv	Reward				200000	0	
	<b>Sub total infrastructure and forest proction</b>				<b>70800000</b>	<b>42894006</b>	<b>27905994</b>
6	Wild life measures					1650000	
	Protected Area				5000000	1200000	
	<b>Out side protected area</b>					0	
1	Planing				100000	0	
2.1	Implementation				7550000	4500000	
2.2	Help to resolve to man-animal conflict				9000000	1150000	
2.3	Wildlife habitat magement				1500000	124281	
3	Tranning				1000000	950000	
4	Resarch and Monitoring				1000000	500000	
5	Contingencies				1000000	0	
	<b>Sub Total wildlife measures</b>				<b>26150000</b>	<b>8424281</b>	<b>17725719</b>



	Site specific work plan (Micro planing)				8500000	100000	8400000
9	Contingencies				17500000	270000	17230000
	Total CAT Plan Activities				390022000	353564073	36457927
	The balance amount to Rs. 21.40 Crore against which no works have been proposed, may be used for funding Eco-Task Force in Satluj basin as also for the comprihensive CAT Plan of Satluj River basin.				214000000		
	G. Total:				604022000		

  
 Dy. General Manager  
 Shongtong-Karchham HEM,  
 HPPCL, Reckong Poo,  
 Distt. Kinnaur (H. P.) 172107

  
 Arvind Kumar, IFS  
 Deputy Conservator of Forests,  
 Kinnaur Forest Division at R/Peo H.F







## HIMACHAL PRADESH POWER CORPORATION LTD.

(A State Government Undertaking)

Shongtong-Karchham Hydro Electric Project, Reckong-Pe, Kinnaur-172107 HP

Phone: 01786-223310, Fax :01786-223174, Email- skhep.hppcl@gmail.com

No. HPPCL/GM-STKHEP/ EC-Vol-II /23-24- 1785

Dated:- 20/05/2023

To

Integrated Regional Office  
Ministry of Environment, Forests and Climate change (GOI),  
CGO Complex, Shivalik Khand, Longwood ,  
Shimla, Himachal Pradesh-171001,  
Ph. No. 0177-2658285,2652541,.

**Sub: Six Monthly Report of Shongtong-Karchham Hydroelectric Project (402MW) in village Powari, District-Kinnaur (H.P.) being executed by H.P Power Corporation Ltd.- Environment Clearance & FC Condition regarding.**

Sir,

In reference to above cited subject matter please find enclosed herewith six monthly report of Shongtong-Karchham HEP being executed by Himachal Pradesh Power Corporation Ltd. (HPPCL) as under:

S. No.	Conditions	Compliance Status
1	Names and address of the Project-In charge along with their telephone, FAX, mobile and Email address.	Er. Khem SinghThakur General Manager (HoP) Shongtong-Karchham HEP (402MW), HPPCL, Reckong Peo, Distt. Kinnaur (H.P.)- 172107. Office Ph.- 01786-223310, Fax-01786-223174 Mob. No. – 9418074930 Email:-gmstkhep@gmail.com
2	Current Status of construction of project and likely date of commissioning.	Project is under construction. Estimated Date of commissioning: 31.07.2025
3	Exact Location of the project site including district etc.	Barrage at Powari with Power house at Ralli, near District Headquarters of Kinnaur (H.P.) at Reckong-Pe.



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4	Current status of point wise compliance of the stipulated environmental conditions/safeguards.	Point wise compliance of the stipulated environmental conditions/safeguards is attached as <b>Annexure - I</b>
5	The area of forest land to be diverted for passage or other purpose in your project and forest status approval from Ministry of Environment & Forests as per Forest (Conservation) Act, 1980.	Forest land diverted – 63.5015 Hectares.  Forest clearance given by MoEF on 14 <sup>th</sup> Nov. 2012, vide F.No. 8-78/2010 FC.  Addl. case for diversion of 7.3722 ha. is in advanced stage of getting clearance from MoEF &CC
6	Action Taken or proposed to be taken to release minimum environmental flow of water in the river during lean season.	As per HP Hydro Power Policy 2007 minimum of 15% of Environmental Flow has to be maintained at all time downstream of the barrage. But during Environmental Clearance of the project the EAC (RVP), MoEF had added a condition to have an Environmental Flow Assessment done by a reputed institute. The Environmental Flow Assessment study based on hydraulic rating and habitat simulation method has been prepared by National Institute of Hydrology (NIH), Roorkee. The same has been submitted to Director-IA-I, MoEF, New Delhi for approval. Since project is under construction & diversion of river has not



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				undertaken yet undertaken and the entire river is flowing through its own natural course project proponent will implement the Recommendation of NHI Roorkee.
7	Inform the details of funds earmarked for CAT Plan implementation, funds released to State Forests Department and subsequently physical achievement in respect of the CAT Plan implementation in the following Performa in due course of time:-			As per HP Govt. notification no. FFE-B-F-(2)-72/2004-PT-II dated 30/09/2009, 2.5% of total project cost has been kept for Catchment Area Treatment Plan which comes out to be Rs. 604.4 million has been deposited in Ad-hoc CAMPA account, New Delhi pertaining to the state vide UTRN: UCBAH12275077542, dated 01/10/2012, submitted to the office of D.F.O, Kinnaur. During the reporting period HP forest department HP has report a The Physical and financial Progress of the Rs 34,04,140 during the quarter and consolidated progress of the FY 2022-23 is Rs 50,06,900/- as reported by DFO Kinnaur Copy is attached as <b>Annex-II</b>
S.No.	Funds released by the project authorities till date.	Funds sent by the Forest. Deptt. till date.	Details of Engineering Works done till date	Area covered by plantation and no. of plants planted.



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	Rs. 60.44 crores	No Progress report under CAT Plan is reported during this quarter by HP Forest Department has reported 34,04,140/- during the quarter and consolidated progress of t FY 2022-23 is Rs 50,06,900/-
8	Physical and financial progress about implementation of R&R scheme may be updated from time to time. A copy of the R&R Scheme finalized so far may be submitted.	The activities undertaken under R & R plan have been attached as <b>Annexure-III</b>
9	A copy of the proceedings/commitments made during the public hearing may be submitted and a plan having physical and financial targets to meet the commitments may be submitted.	Compliance of commitments made during public hearing is attached as <b>Annexure-IV</b> .
10	Submit latest monitoring reports in respect of Ambient air Quality, Noise level, Ground Water Quality, Bio-Chemical Oxygen Demand (BOD) and Coliform count of surface water etc. carried out by HP SPCB or a private approved lab.	Environment monitoring is being done by the HPSPCB. All the desired monitoring instruments has been procured and handed over to HPSPCB. Copy of monitoring report carried out by the HP State pollution control board is enclosed as <b>Annexure-V</b> However, HPSPCB has revised the environment monitoring plan amounting to Rs. 52.56 lakhs during construction period i.e 2024-25 and total of 237.23 lakhs for the operation periods up to 2064-65, & PP has deposited Rs 30.66 lakhs up to the FY 2022-23 .
11	Submit comprehensive physical and financial progress about disbursement of medical facilities by contractor to the workers during the compliance period.	The M/s PEL being the main contractor has constructed Two first Aid Posts. Ambulances along with four medical attendants' have also been deployed at project site. From



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		Oct 2022 to March 2023 Contractor has provided Medicine of Rs. 111364/- and spent Rs. 938574/- on salary of medical attendant and Rs. 885600/- spent on salary of ambulance Driver & Rs. 9,60,000/- has been spent on maintenance and insurance of ambulance driver.
12	Submit update details about the quantum of crate works/ wire crate works / breast walls etc. at different dumping sites along with expenditure figures till date.	Total No. of wire crate has been constructed at all Dumping sites from Oct. 2022 to March 2023 = 1089 Nos . Expenditure occurred for wire crate /CC Cladding work from Oct.2022 to March 2023 = 9778241/-/- Total Provision of EMP = Rs. 16,47,10,000/-
13	Submit information about the no. of dumping sites, their area, their capacities, and the distance from the water course and whether they fall in private area or forest land.	The detailed Muck statement till Feb 2023 has been attached as <b>Annexure-VI</b> .  Out of 10.0944 hectare of land required for dumping yards, 4.158 hectare is in private land and the rest of 5.9364 hectare is in forest land.
14	Submit update figures for allocation of funds for different Environment management Plans along with plan for utilization of funds for next two years.	Provisions is being Made for each FY and the Expenditure and its utilization details are attaches as <b>Annex-VII</b>
15	Submit update physical and financial progress about	HPPCL has deposited Rs. 1,





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compensatory afforestation in the following Performa:-	74, 65, 952/- (Rs. One crore seventy four lac sixty five thousand nine hundred fifty two only) towards the cost of compensatory afforestation as per CA scheme. Progress Report under CA has attached as (Annexure-VIII).	
<b>Funds released by the project authorities till date.</b>	<b>Funds spent by the forest deptt. Till date.</b>	<b>Location area covered by plantation and no. of plants planted till date.</b>
Rs. 1, 74, 65, 952/-	Progress Report during the reporting period under CA is being attached as <b>Annexure-VIII</b>	
16	Update physical and financial progress about Fisheries Development may be submitted indicating the amount to be kept for Fisheries Development.	The 1st Installment of Rs. 35.00 Lakh was released on dated 29/03/2013. Director-cum-warden of fisheries has submitted the Utilization Certificate (UC) of amount Rs. 3.75 lakh on dated 19/08/2016 used for providing solar LED lights at Trout fish farm at Sangla and replacement of sluice valves at Trout fish farm at Sangla. The balance amount Rs. 31.25 lakh is unutilized. 2 <sup>nd</sup> Installment will be released after Utilization Certificate of balance amount is received from Fisheries deptt. PP has requested the Director Fisheries for Physical and



## HIMACHAL PRADESH POWER CORPORATION LTD.

(A State Government Undertaking)

Shongtong-Karchham Hydro Electric Project, Reckong-Peo, Kinnaur-172107 HP

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		financial Progress of Balance amount so that next installment could be released.		
17	The information about no. of laborers engaged by different contractors, quantity of free fuel supplied and expenditure incurred may be submitted in the following Performa since the beginning of the project:-			
	<b>Year/Period</b>	<b>No. of Beneficiary</b>	<b>Quantum of free fuel supplied or subsidy provided</b>	<b>Financial expenditure incurred (Rs.)</b>
	April to June 2022	466	139Nos. of LPG Cylinders.	2,53,810/-
	July to Sept 2022	466	114 ns of LPG cylinders	2,08,054/-
18	The information about no. of laborers medically checked up by different contractors expenditure incurred on medicines and other medical facilities may be submitted in the following Performa:-			
	<b>Year/Period</b>	<b>No. of labourers medically checked contract wise</b>	<b>Expenditure incurred on providing medicines (Rs.)</b>	<b>Expenditure incurred on providing other facilities (Rs.)</b>
	Oct 2022 to Dec .2022	NIL	55682/-	11,06,026/-
	Jan 2023 to March 2023	Nil	55682/=	11,77,148/-
19	Submit the details of social welfare measures and other schemes being run for the locals and project affected people.		The schemes which has been initiated at project level are as under:-  1. Scheme for involving Community based Organization (CBO) in R&R activities e.g. Mahila Mandal,	



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		<p>youth club etc.</p> <p>2. Competition Scheme for school students and sports tournament scheme.</p> <p>3. Scheme for organizing one day Training cum Awareness camps.</p> <p>4. Scheme for providing assistance to PAF for self employment.</p> <p>5. R&amp;R Medical Fund scheme.</p> <p>6. Merit and Support scholarship Scheme for the wards of Project Affected People.</p> <p>7. Scheme for Annual Varshik Mela.</p> <p>8. Clearing of Road Blockages at NH-5 and the link roads at Reckong Peo due to heavy snowfall.</p> <p>9. Provided Vehicles for the patients for visiting hospitals in bad weather.</p>
20	Submit the newspaper cutting about the advertisement about environmental clearance in the newspapers.	Already submitted to your office vide letter no. HPPCL/SM(R&R)-SKHEP/Env-IV/2011-1718-20, dated 22/07/2011. <b>The issue stand closed.</b>
21	Submit general information about the project in 13 point data sheet.	Enclosed separately in this report

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

Yours faithfully

Page 8 of 12

  
Dy. General Manager  
Shongtong-Karchham HEP,  
HPPCL, Reckong Peo,  
Distt. Kinnaur (H. P.) 172107



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### Copy to:-

1. The Chief Environment Specialist, HPPCL, Himfed Building, BCS, New Shimla -9 for kind information & needful action please.
2. The Divisional Forest officer Kinnaur, Reckong- Peo, Distt. Kinnaur, for information please.
3. The Sr. Manager (IT), HPPCL, Himfed Building , BCS, New Shimla -9 with a request to upload the same on HPPCL web site
4. The Assistant Engineer, HPSPCB- Rampur, Distt. Shimla, for information & needful action.



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### Ministry of Environment & Forests Northern Regional Office Dehra Dun

#### DATA SHEET

1	Project Type	River Valley Project
2	Name of the Project	Shongtong – Karchham HEP
3	Clearance letter (s)/O.M No. & dates:	J-12011/58/2007-IA-I, dated 19/05/2011
4	Location: a) District (s) b) State (s) c) Latitudes /Longitudes	a) Kinnaur b) Himachal Pradesh c) Latitude- 31°32'30" Longitude - 78°16'50"
5	Address for correspondence:	O/o The General Manager, Shongtong – Karchham HEP, HPPCL, Reckong-Peo, Distt. Kinnaur (H.P.)- 172107
6	Salient features: a) Of the project b) Of the environmental Management plans	Desired information already submitted. Please refer letter no. HPPCL/SM(R&R)-SKHEP/Env-IV/2011-1718-20, dated 22/07/2011.
7	Breakup of the project area a) Submergences area: Forest and Non-forest b) Others	a) Submergence Area is 27.7605 hectares. b) Detail of the land for various components of the project has been already submitted vide letter no. HPPCL/SM(R&R)-SKHEP/Env-IV/2011-1718-20, dated 22/07/2011.
8	Break up of project affected population with enumeration of those losing houses/dwelling units only, agricultural land only dwelling	A detailed baseline survey of the project area for the formulation of Social Impact Assessment Report was done by Yashwant Parmar Horticulture University, Nauri, Distt. Solan (H.P.) from 2008 to 2010. The public hearing in all the Panchayat's were held in the month of Feb 2011.



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	<p>units and agricultural land and landless labourers /artisans.</p> <p>a) SC/ST/Adivasis b) Others</p> <p>(Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures. If a survey has been carried out give details and year of survey)</p>	<p>The observations raised by the local residents have been incorporated in the final report. The report has submitted to your office vide this office letter no. HPPCL/SM(R&amp;R)/EC-Vol-I/2012-5543, dated 18/03/2013.</p>
9	<p>Financial details:-</p> <p>a) Project cost as originally planned and subsequent revised estimates and the year of price reference.</p> <p>b) Allocations made for environmental management plans with item wise and year wise break up.</p> <p>c) Benefit cost ration/internal Rate of Return and the year of assessment.</p> <p>d) Whether (c) includes the cost of environmental management as shown in (b) above.</p> <p>e) Actual expenditure incurred on the project so far:</p> <p>f) Actual expenditure incurred on the environmental management plans so far:</p>	<p>a) Estimated Project Cost (Base cost) – Rs. 2279.16 crores (Dec. 2010 price level)</p> <p>b) And c) Please refer letter no. HPPCL/SM(R&amp;R)-SKHEP/Env-IV/2011-1718-20, dated 22/07/2011.</p> <p>d) Yes</p> <p>e) Expenditure incurred on project till 31/03/2023 is Rs. 181188.23 Lakhs . Detail is attached as <b>Annexur-IX</b></p> <p>f) Expenditure incurred on EMP till 31/03/2023 is Attached as <b>Annexure VII</b></p>
10	<p>Forest land requirement:</p> <p>a) The status of approval for diversion of forest land for non-forestry use.</p> <p>b) The status of tree felling</p>	<p>a) Forest clearance given by MoEF on 14th Nov. 2012, vide F.No. 8-78/2010 FC.</p> <p>b) The tree felling from private &amp; Forest land has been completed.</p>




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	<p>c) The status of compensatory afforestation, if any.</p> <p>d) Comments on the viability &amp; sustainability of compensatory afforestation programme in the light of actual field experiences so far.</p>	<p>c) HPPCL has deposited Rs. 1, 74, 65, 952/- (Rs. One crore seventy four lac sixty five thousand nine hundred fifty two only) towards the cost of compensatory afforestation in CAMP A/C of MoEF.</p> <p>d) Progress report under Compensatory Afforestation has been attached as <b>Annexure-VIII</b>.</p>
11	<p>The status of tree felling in non-forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.</p>	<p>The DFO, Kinnaur vide his letter no. 14118 dated 21/01/2015 handed over the possession of trees standing in private land (Lot. No. 4/2015-17) to Divisional Manager, Forest Working Division, HPSFDC Ltd, Rampur for felling. Total 575 trees has been felled from the private land by HPSFDC Ltd.</p>
12	<p>Status of construction:-</p> <p>a) Date of commencement (actual and/or planned)</p> <p>b) Date of completion (actual and/or planned)</p>	<p>a) June 2012 (As per TEC)</p> <p>b) Planed date of completion 31.7.2025.</p>
13	<p>Reasons for the delay if the project is yet to start:-</p>	<p>Construction activities in the project have been started.</p>

  
**Dy.General Manager (E&RR),  
Shongtong-Karchham HEP,  
HPPCL, Reckong Peo,  
Distt. Kinnaur (H.P.)-India**

**Conditions stipulated under Environmental Clearance**

Part A	Compliance Status					
(i) The following Catchment Area Treatment Plan, as proposed in the EIA/EMP Report shall be completed in 5 years-	As per HP Govt. notification no. FFE-B-F-(2)-72/2004-PT-II dated 30/09/2009, 2.5% of total project cost has been kept for Catchment Area Treatment Plan which comes out to be Rs. 701.95 millions. Out of which Rs. 604.4 million has been deposited in Ad-hoc CAMPA account, New Delhi pertaining to the state vide UTRN: UCBAH12275077542, dated 01/10/2012, submitted to the office of D.F.O, Kinnaur. During the reporting period HP forest department HP has reported the physical and financial progress of 34,04,140 during the quarter and consolidated progress of the FY 2022-23 is Rs 50,06,900/- up to March 31 <sup>st</sup> March 2023( Copy of the same is attached as <b>(Annex-I)</b> )					
Treatment Measures	I Year	II Year	III Year	IV Year	V Year	Total
A) Biological Measures						
Afforestation /Gap	81	80	80	80	80	401
Plantation (ha.)						
Pasture Development (ha.)	476	475	470	470	470	2361
Nursery Development (nos.)	5	5	-	-	-	10
B) Engineering Measures						
Step Drain (Rmt.)	57	57	57	57	57	285
Check Dams (nos.)	5	5	5	5	5	25
(ii) The details of the land holding of project affected persons whose land is being acquired shall be submitted to this Ministry. The benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 (NRRP, 2007) or as per the State Rehabilitation and Resettlement Policy, whichever is higher. Adequate publicity for the compensation package shall be given in the affected villagers. All R&R Issues shall be completed before commissioning of the Project.	The benefits to the land losers have been given as per Rehabilitation and Resettlement of HPPCL duly approved and notified by Govt. of Himachal Pradesh. The details of benefits have been submitted to your office vide this office letter no. HPPCL/SM(R&R)/EC-Vol-I/2012-5543, dated 18/03/2013.					



<p>(iii) All commitments made during the public hearing shall be fulfilled completely.</p>	<p>Project proponent is abiding with the commitments made during the public hearing and status of the compliance to public hearing is being reported separately in the report as <b>Annexur-IV</b>.</p>
<p>(iv) A scientific study from a reputed institute for deciding the minimum environmental flow to be released during the lean season should be undertaken. Till the study is completed, 20 % of the average flow of four consecutive leanest months of 90% dependable year shall be maintained as environmental flow. After the study is completed, whichever is higher figure shall be adopted.</p>	<p>The project proponent has complied with this condition. The environmental flow assessment study has been conducted by NIH Roorkee. The EAC in its meeting held on 10<sup>th</sup> and 11<sup>th</sup> December, 2013 desired to have presentation on Environment flow study. The presentation was given by project proponent before the EAC on 16 October, 2014. The EAC observe that Environment flow study was carried out in accordance with the Flow duration curve method. While this is generally in order but for further clarity the same should be carried out through Hydraulic rating and Habitat Simulation method. The technique shall factor the need of aquatic faunal population. Also the adequacy of environmental flow in terms of depth, velocity and top width needs to be checked and proposed a fresh. Accordingly the environment flow study has been revised as desired by EAC and submitted to MoEF&amp;CC for approval same will be complied by the Project Proponent.</p>
<p>(v) The equipment likely to generate high noise level during the construction period or otherwise shall meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under Environment Protection Act. (EPA), 1986.</p>	<p>The equipment likely to generate high noise level during the construction period in the project area meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010. In compliance to this condition acoustic enclosures on all DG sets have been provided by the main contractor i.e. M/s Patel Eng. Ltd.</p>

<p>(vi) Consolidation and compilation of the muck shall be carried-out only in the designated muck dumping sites, approved by the State Pollution Control Board. As per the proposed muck disposal plan given in your EIA/EMP, about 3.57Mm<sup>3</sup> Will be generated out of which 0.47 Mm<sup>3</sup> will be reutilized for back filling and 1.05 Mm<sup>3</sup> as construction material/protection works and remaining 2.04 Mm<sup>3</sup> shall be disposed off at 8 designated disposal areas. This shall be strictly implemented. The dumping sites shall be at least 30m horizontally away from the high flood level of the river.</p>	<p>The project proponent is committed to comply this condition. However, the reduction in the capacity of dumping sites has occurred due to geographic changes occurred in the course of river by the passage of time, muck dumping of excavated material during widening of NH -5 &amp; PWD roads by BRO and PWD respectively and removal of landslides material occurred in the vicinity and dumping in the designated dumping sites from time to time due to which the capacity of dumping site has decreased. to address the issues a committee comprising of HPPCL Officers and M/s PEL Executives as enlisted below was constituted by the GM-STKHEP vide loose note dated 29 Oct., 2016 to re-assess the capacity of all the designated dumping sites handed over to M/s PEL and to explore the possibility for their optimum utilization. To mitigate the muck dumping problem, efforts are being made to identify additional areas for dumping within the project area as well as beyond the project area. in this process, some prospective land belonging to the Army Authorities was identified for muck dumping within project area. in addition to this private land is being identifying in Ribba/Skibba village upstream of the project area were also utilized and some more Pvt. land is being under finalization with the land owners After finalization of the land and getting necessary approvals the revised muck management plan is in progress with the Consultant draft Muck Management Plan was presented before the EAC on its 32<sup>nd</sup> Meeting once it finalized same will be implemented in totality.</p>
<p>(vii) The proposed Compensatory Afforestation Programme on 128 ha. Of land with identified plant species @ 1500 plants per hectare shall be taken-up immediately. The allocated funds for this purpose shall not be diverted to any other purposed.</p>	<p>The HPPCL has deposited the requisite cost towards CA with Department of Forest, Govt. of HP amounting to Rs. 1, 74, 65,952/- (One crore seventy-four lakhs sixty-five thousand nine hundred and fifty two) only vide DD No. 630072 dated 02.04.2011 (worth Rs. 7, 44, 26,798/- including amount for NPV) drawn on Reckong Peo branch of State Bank of India vide their letter No. HPPCL/GM-</p>

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	<p>STKHEP/Forest/ 2010-24-27, dated 02.04.2011 as per the bill issued by DFO Kinnaur vide letter No 9216 dated 30.03.2011. Physical and progress of Compensatory Aforestation received from DFO Kinnaur is attached as <b>Annexure-VIII</b>. The allocated fund for this purpose has not been diverted to any other purpose since APOs are being approved by State / Center CAMPA.</p>
<p>(viii) Greenbelt development in 40 ha of land along the approach roads, residential areas, office complex, barrage site and other working areas with various native plant species shall be undertaken immediately. The allocated budget of Rs. 40 lakhs for this purpose shall not be diverted to any other purpose.</p>	<p>The Greenbelt development will be taken up in consultation with HP Forest Department shortly after the completion of civil work.</p>
<p>(ix) The revised Fisheries Management Plan submitted vide letter NO. HPPCL/ESMU-2/Shongtong/09-1658-61 dated 9<sup>th</sup> February, 2010 shall be undertaken in consultation with the Fisheries Department, Government of Himachal Pradesh. Breeding and hatching of indigenous fish i.e. Snow Trout will be carried out separately. The same shall also be followed in the proposed hatchery at Sangla with separate bays.</p>	<p>The 1st Installment of Rs. 35.00 Lakh was released on dated 29/03/2013. Director-cum-warden of fisheries has submitted the Utilization Certificate (UC) of amount Rs. 3.75 lakh on dated 19/08/2016 used for providing solar LED lights at Trout fish farm at Sangla and replacement of sluice valves at Trout fish farm at Sangla. The balance amount Rs. 31.25 lakh is unutilized. 2<sup>nd</sup> Installment will be released after Utilization Certificate of balance amount is received from Fisheries Deptt. This is still awaited from Director of Fisheries Govt. of HP. PP has requested the Director fisheries for the same so that next installment could be released.</p>
<p>(x) The proposed Wildlife Management &amp; Development and Conservation of Biodiversity Plans at a cost of Rs. 764.50 lakhs shall be taken-up strictly as outlined in the EIA/EMP Report and implemented in consultation with the State Forest Department without any diversion of funds. A report of implementation shall be included in the sixth monthly compliance report to be submitted to the Ministry.</p>	<p>The condition has been compiled by the project proponent. Biodiversity conservation plan includes Compensatory Afforestation (CA), NPV and cost of trees for which HPPCL has already deposited the requisite amount with H.P forest Department/CAMPA. The cost on account of wildlife Management (Chapter-7) has been included under revised CAT Plan of STKHEP and approved by the H.P forest Department. Rs.60.44 crore toward cost of implementation of CAT plan has</p>

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	already been released to H.P forest Department/CAMPA. During this period the progress report of same has not been received by this office from DFO wildlife.
(xi) About 1.5% of the total project cost shall be spent for the Local Area Development.	The condition is being compiled by the project proponent. Till date Rs. 25.56 Crore has been deposited as LADF out of which 21.06 lakh were spent on various heads of development activities in project affected Panchayat's and being regularly monitored at local area Development Committee During its various meeting .
(xii) Any other clearance from any other organization/department, if required shall be obtained.	Renewal of Consent to Establish is required to obtain from H.P State Pollution control Board. However, as per latest notification of No. B-29012/ESS/CPA/2016-17/2570 dated 02/02/2017 issued by Member Secretary, Central Pollution Control Board, MoEF&CC, Govt. of India, addressed to the Member Secretary of all State Pollution Control Boards vide which under para (iv) of the aforementioned letter it is stated that <b>“Further, all the projects requiring Environmental Clearance either from State Level EIA Authority or MoEFCC may be exempted from obtaining the consent to establish. Such projects may be directly granted CTO subjected to EC and installation of pollution control devices.”</b> Renewal of the same is being regularly applied by the project proponent by depositing the requisite renewal fee of the same every year.
<b>Part-B General Conditions</b>	

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<p>(i) Adequate arrangement for providing free fuel like kerosene/wood /LPG shall be made for the labourers engaged in the construction work so that indiscriminate felling of trees is prevented.</p>	<p>The condition is being complied with. From Oct 2022 To March 2023, 229 nos. LPG cylinders have been provided during The reporting period.</p>
<p>(ii) Medical facilities as well as recreational facilities shall also be provided to the labours.</p>	<p>Two nos. First Aid post has been made functional at Site office Ralli and Barrage location. Contractor has provided Medicine of Rs. (111364/-/- and spent Rs. 938574/-on salary of medical attendant and Rs. -960000/- spent on Ambulance. Rs. 885600/has been spent on salary of ambulance driver. Total No. Medical attendant provided = 04 Total No. of ambulance = 04</p>
<p>(iii) Labourers to be engaged for construction work shall be thoroughly examined by health personnel and adequately treated before issuing them work permit.</p>	<p>Prior to enrollment in the execution activities all the labourers are thoroughly checked up. After ensuring the complete fitness, the labourers are being engaged.</p>
<p>(iv) No fugitive dust emissions should be observed at the construction sites. Water sprinkling arrangements shall be made to suppress the fugitive emissions.</p>	<p>The condition is being compiled by the contractor. The DG sets have been provided with acoustic enclosures and proper stack height regular maintenance of DG sets are being carried out. On account of this an expenditure of Rs.8,88,000/- and 4,00,000/- were occurred during this reporting period . The water tanker has been deployed in the project area to sprinkle the water in the project area to suppress the dust emission due to movement of vehicles</p>
<p>(v) Potable drinking water and proper sanitary facilities shall be provided for the labour force and the local area people.</p>	<p>Potable drinking water and proper sanitary facilities has been provided near each Adit portal for the labourers in addition to this the same has also been provided at the labour camps at Ralli and Tangling. for which an expenditure of Rs 3,00,000/- were incurred towards the salary of drivers and helper for water supply in supply of drinking water in Main contractors residential accommodations for drinking purpose.</p>

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<p>(vi) Restoration of construction area including dumping sites shall be ensured by leveling, filling up of burrow pits, landscaping etc. The area shall be properly treated with suitable plantation.</p>	<p>The project proponent is committed to restoration of construction area including dumping sites by leveling, filling up of burrow pits, landscaping etc. The plantation work will be taken up after finishing of construction phase. In the mean time gabion walls have been provided at each dumping site and are being strengthened by providing Cement Concrete Cladding.</p>
<p>(vii) Separate financial provision shall be made in the total budget of the project for implementation of the above suggested safeguard measures. The same shall be informed to the Ministry.</p>	<p>The condition has been complied with; separate provisions in EMP under various chapters/heads have been made for implementation of suggested measures.</p>
<p>(viii) Environmental parameters shall be monitored and six monthly monitoring reports shall be submitted to the Regional Office of the Ministry and State Pollution Control Board for their review.</p>	<p>Monitoring reports are being submitted regularly. Last Six monthly report was submitted to the MoEF&amp;CC, Regional Office Dehradun on dated 07.06.12.2022</p>
<p>(ix) A Multi-Disciplinary Committee (MDC) to monitor environmental safeguards during the construction shall be construction by the Ministry on the suggestions of the Proponent, Six monthly monitoring report of this Committee shall be displayed on the web-site of the Proponent.</p>	<p>The condition is being compiled by the project proponent as an Ecological Monitoring Unit has been set-up under the Chairmanship of DFO, Kinnaur to monitor the impact of the project on flora and fauna of the area as submitted to your office vide this office letter no. HPPCL/SM(R&amp;R)/EC-Vol-I/2012-5543, dated 18/03/2013.</p>
<p>(x) Videography of the project area shall be carried out to ascertain that no damage occurs, the PP shall pay compensation for the damages.</p>	<p>The Videography of the entire Project Affected Area has been done along with water resources inventory. The project proponent will ensure that no damage to houses of the local people occurs. To monitor the ground vibration arise due to blasting in tunnels six Nos. seismographs has been installed in each Project affected Panchayat's and monitoring report is being submitted to concerned Panchayat's, Member secretary, LADC and President, Zila Parishad. Copy of the same reports of Seismograph From Oct.2022to March 2023 is enclosed as <b>Annexure- IX</b></p>

<p>The Project Proponent shall provide full cooperation and all required documents / data to the Officials of relevant Regional Office of MOEF who would be monitoring the implementation of environmental safeguards.</p>	<p>Project proponent commits to provide full co-operation and all required documents / data to the Officials of relevant Regional Office of MOEF who would be monitoring the implementation of environmental safeguards. RO Shimla, has desired some information vide there office letter NO. 14-3 IRO/Site inspection 2021/1/160 Dated 06.04.2023 Same has been provided through Email and through proper Channel (DFO to CF, to Nodal officer and then to RO.)</p>
<p>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.</p>	<p>The project proponent is abiding by the condition. For effective implementation of the environment safeguard, as proposed in EIA/EMP and other policies HPPCL has establish an Environment cell at each project level with experienced and qualified environment and R&amp;R staff are placed at respective site office</p>
<p>The environmental management plan shall be strictly adhered to and a sum of Rs. 84.891 Crores, the budgetary provisions for implementation of EMP shall not be diverted for any other purpose.</p>	<p>The condition will be complied with; the cost of EMP has increased due to HP Govt. notification regarding CAT Plan and Environment Monitoring Plan which is being adhered.</p>
<p>Any change in the scope of the project shall be intimated to the Ministry and fresh approval if required, shall be taken from the Ministry.</p>	<p>The presentation before the Environment Appraisal Committee was held on 10/12/2013, 16/09/2014 &amp; 16/10/2014 &amp; 30.011.2022 at MoEF&amp;CC, New Delhi &amp; through Video Conferencing for revalidation of Environmental Clearance due to enhancement of installed capacity, for which work of up Revision/gradation of the EIA &amp;EMP is awarded to M/S WAPCOS for which is under process.</p>
<p>The Ministry reserves the right to 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.</p>	<p>Environment safeguard measures as forced by ministry are being implemented. Additional safeguard measures, if any proposed by ministry will also implemented. So far no additional measure suggested.</p>

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<p>This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.</p>	<p>Status remains the same as per the stand status already conveyed vide previous compliance period ending June 2022. Due to amendment in the MoEF&amp;CC Notification S.O. 1886 (E) dated 20.04.2022, the EC validity of River valley and Hydro-electric project is 13 years which can be extended for 2 years. Also, the MoEF&amp;CC O.M. No. IA3-22/10/2022-IA.III [E-177258] dated 11.04.2022 same has been revised Accordingly, the validity of EC dated 19.05.2011 of Shongtong-Karcham (402 MW) Hydroelectric Power Project is valid upto 13.11.2026</p>
<p>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 any 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.</p>	<p>Status remains the same as per the stand status already conveyed vide previous compliance period ending June 2022. No Change. <b>This issue stand closed</b></p>
<p>The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://www.enyfor.nic.in">http://www.enyfor.nic.in</a>.</p>	<p>The project proponent has advertise in two local newspapers i.e. 'Divya Himachal' and 'The Indian Express' on 1<sup>st</sup> June 2011 informing that the project has been accorded environmental clearance by MoEF and copies of clearance letters are available with the State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://www.enyfor.nic.in">http://www.enyfor.nic.in</a>. Refer this office letter no. HPPCL/SM(R&amp;R)-SKHEP/Env-IV/2011-1718-20, dated 22/07/2011. <b>This issue stand closed</b></p>
<p>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, decided in consultation with the Ministry.</p>	<p>The project proponent will conduct the study undertaken by an independent agency, decided in consultation with the Ministry after 5 years of the commissioning of the Project, regarding impact of the project on the environment and downstream ecology.</p>

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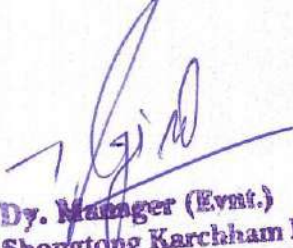


The Project Proponent shall submit six monthly compliance reports of the stipulated EC conditions and the monitoring data (both in hard copies as well by e.mail) to the respective Regional office of MoEF and the State Pollution Control Board. Both monitoring and compliance reports shall be up-loaded on the Web-site of the Proponent.

The condition is being complied with. Last Six monthly reports was submitted to the MoEF&CC, Regional Office Dehradun on dated 07. 06.2022.



**Dy. General Manager**  
Shongtong-Karchham HEP,  
HPPCL, Reckong Peo,  
Distt. Kinnaur (H. P.) 172107



**Dy. Manager (Evnt.)**  
Shongtong Karchham HEP,  
HPPCL Reckong Peo  
Distt. Kinnaur (HP)





## Expenditure incurred for implementation of the R&amp;R plan and other various development activities (including LADF) upto 31.03.2023

## 1. R&amp;R Schemes

Sr. No.	R&R Schemes	Achievement		Remarks
		Physical	Financial (in Laes)	
1	ITI Scheme	48	20.66	
2	Merit Scholarship Scheme	585	51.25	
3	Training Cum Awareness Scheme	17 (1380 people)	7.25	In this scheme 10 no. Medical Camps, 5 no. Horticulture and agriculture camps and 2 no. Training cum awareness camp were organized on Project Affected Areas (PAA's).
4	School Competition Scheme	20 (1100)students)	2.12	Under this scheme 16 no. school students competition were organized at Project Affected Areas on different topics like essay writing, painting slogan writing and declamation competition etc.
5	Sports Tournament Scheme	2 (180 People)	0.90	2 nos. sport Tournament (Mens & womens) were organised at project affected area i.e. volly ball competition, cricket, folk dance and solo songs etc.
6	CBO Scheme	5	2.8	1. Mandir Sanchalan Shankar Comeetee G.P. Powari. 2. Mahila Manda Mebar G.P. Mebar. 3. Mahila Mandal Khawangi G.P. Khawangi. 4. Mahila Mandal Barang G.P. Barang. 5. Mahila Mandal Shudharang G.P. Shudharang.
7	Self Employment Scheme	1	0.35	In this scheme 1 No. MPAF's namely Chunni Lal resident of Village Tangling has provided financial assistance for Retail Stop (Karyana/Chicken Shop)
8	Forest Right Scheme	1426	2450.5	500 days minimum wages to PAF's of 6 PAP's in respect of STKHEP.
9	Minor Mineral Scheme	224	168.75	This amount has been given to PAF's in lieu of loss of minor minerals.
Total=			2704.58	

## 2. Panchayat wise acquisition of Private land for construction of STKHEP.

Sr. No.	Name of Panchayat	Land	Compensation
1	Powari (80 person)	5.7071	1577.3
2	Mebar (Ralli)/Barang (22 person)	1.2687	350.65
3	Khawangi (18 person)	0.4016	110.99
4	Kalpa/Shudarang (9 person)	0.5932	163.94
Total=		7.9706	2202.88

## 3. Total payment made in respect of trees and structures

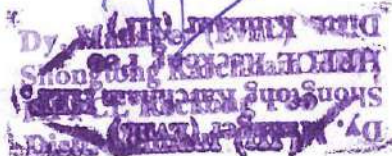
158.5

## 4. Panchayat wise Expenditure incurred under R&amp;R Grants.

Landless Grant				
1	Powari	64	40.00	Welfare grant as per R&R Plan (Part V)
	Khawangi	17	9.75	
	Barang	8	3.5	
	Mebar (Ralli)	14	7.0	
	Kalpa	9	4.5	
Total=		112	64.75	

2	Houselessd Grant	2	15	2 nos MPAF's namely Sh. Nardhan Sukh and Sh. Raj Kumar VPO Tangling (Powari) has provided the houseless grant as per R&R plan
3	Transportation Grants	9	1.8	9 nos. MPAF's has been given transportation grant as per R&R Plan. Out of 9 nos. 6 nos. MPAF's from Powari Panchayat and 1 no. from Khawangi Panchayat, 1 no. from Mebar Panchayat and 1 no. from Kalpa Panchayat.
4	Displaced Shopkeeper Grangs	4	8.8	4 nos. MPAF's namely Sh. Munni Lal, Sh. Suresh Kumar, Gulab Singh VPO Tangling (Powari) and Raj Kumar VPO Khawangi has provided the financial Assistance for dispalacement of shop @ 2.20 lac each including transportation grant.
5	Cattel shed Grant	2	0.4	2 nos. of MPAF namely Raj Kumar from Khawangi Panchayat and Shiv Dayal from Kalpa Panchayat has provided finacial assistance as per R&R Plan.
6	Rent for Temporary accomodation	1	0.18	1no. MPAF from Powari Panchayat has provided the assistance.
Total=			90.93	
<b>5. Detail of activities under LADF</b>				
Sr. No.	Toatal Liability against LADF	No. of Beneficiaries	Amount deposited till date (in Lacs)	Balance Amount (in Lacs)
1	4211.00	PAA/PAZ/Kinnaur	2556.00	1655
<b>6. Panchayat wise Detail of Crop compensation</b>				
Sr. No.	Name of Panchayat	No. of Beneficiaries	Amount (in Lacs)	Remarks
1	Powari	477	65.99	Crop compensation paid on account of Horiculture and Agriculture losses for the f.Y. 2013-16
2	Barang	399	41.69	
3	Mebar	115	10.93	
4	Khawangi	122	14.24	
5	Shudarang	265	19.8	
Total=		1378	152.65	
<b>7. Panchayat wise detail of other development activities</b>				
Sr. No.	Name of welfare activities	No. of Beneficiaries	Amount (in Lacs)	Remarks
<b>Name of Panchayat:</b>				
1	Khawangi	180	170.17	Various civil works i.e. construction of road, water supply and protection works.
2	Powari	224	482.99	
3	Barang	328	529.09	
4	Mebar	71	247.73	
5	Shudarang	158	61.67	
6	Kalpa	465	2.96	
Total=		1426	1494.61	
<b>8. Detail of the Sand &amp; Aggrigate issued to the PAF's of STKHEP</b>				
Sr. No.	No of PAF's benifited	Sand/Aggrigate (Cum)	Amount (in Lacs)	Remarks
1	685	15479.40	193.5	Provided free sand and aggrigate to PAF's of PAA
G.Total=		1+2+3+4+5+6+7+8=	9618.40	

Dy. General Manager  
Shongtong-Karchham HEP,  
HPPCL, Reckong Poo,  
Distt. Kinnaur (H. P.) 172107



*[Handwritten Signature]*  
JOKH

## Shongtong Karchham HEP (402 MW)

**FULFILMENT OF COMMITMENTS MADE IN PUBLIC HEARING-I&II:**

Detail of issues raised during Public Hearing on 28.07.2009 and 29.07.2009 for Shongtong-Karchham HEP (Powari-Ralli), organized by H. P. State Pollution Control Board at village Powari Tehsil Kalpa, Distt. Kinnaur H.P. respectively:-

Sr. No.	Issues Raised at Powari	Remarks on the issue raised	Activities done
1.	The representative of the public raised an objection that project affected families indicated in R&R plan (rehabilitation and resettlement ) is 158 whereas in the earlier R&R plan it was 438 and it was verbally assured by MD, HPPCL to include all 438 families in R&R plan. Therefore, till all the 438 families of Kalpa and Shudharang villages are not covered under project affected families the R&R plan should not be finalized.	This issue of R&R is under consideration of MD, HPPCL.	The families of Shudharang village have been covered under project affected families vide Deptt. of MPP & Power notification no. MPP(F)2-12/2008-II dated 29/08/2015. Similarly, families of Kalpa village have been covered under project affected families vide Deptt. of MPP & Power notification no. MPP(F)2-12/2008-II dated 19/08/2015.
2.	Cremation ground near dumping No. 3 should be protected.	Project Proponent has assured that the cremation ground shall be protected.	Project proponent assured that the cremation ground shall be protected.
3.	Confluence point of Tangling Nallah and Satluj river is a holy place which is used for local rituals. Local people have traditional rights and it should be protected and the Confluence point should be developed properly by the project proponent.	Project Proponent has assured that Confluence point of Tangling Nallah and Satluj shall be developed. A bridge on Tangling Nallah has been proposed.	The project proponent will construct a bridge on Tangling Nallah. in the mean time the existing bridge on Tangling Nallah has been strengthened.

## Shongtong Karchham HEP (402 MW)

4.	Local people have customary rights to collect forest produce such as herbs, medicine plants etc. will be damaged and will affect the income source, therefore all the people of Distt. Kinnaur should be included in project affected families.	All the customary rights related to the forest produce will be protected and every care will be taken so that there is no damage to the forest produce. In case some damage is observed the same shall be compensated by the Project Proponent.	The project proponent in accordance with R&R plan approved by Govt. of H.P has disbursed 500 days minimum wages to each project area family in lieu of loss of customary rights or usage of forest produce. till date Rs. 9.78 crore has been disbursed in PAF's of village Khawangi, Mebar, Barang, Powari and Shudharang.
5.	Studies on the affect on downstream projects due to desilting has not been done in EIA/EMP.	Project Proponent agreed to conduct studies.	Sedimentation Chambers four in nos. has been provided for desilting, so no impact on Down Stream projects is envisaged.
6.	Impact on water sources and biodiversity due to blasting during construction have not been indicated in EIA/EMP.	Project Proponent agreed to conduct studies.	The Videography of the entire Project Affected Area has been done along with water resources inventory (submitted with previous compliance report). The project proponent will ensure that no damage to houses of the local people occurs. To monitor the ground vibration arise due to blasting in tunnels six Nos. seismographs has been installed in each Project affected Panchayat's and monthly monitoring report is being submitted to concerned Panchayat's, Member secretary, LADC and President,

**Shongtong Karchham HEP (402 MW)**

			Zila Parishad.
7.	Design of the project is on the bases of ten years data and viability of the project is not properly designed.	Project proponent clarified that viability of the project has been properly designed.	Project proponent clarified that viability of the project has been properly designed.
8.	Alignment of the power project has been indicated in the EIA/EMP (Figure No. 1) on the right bank of river Satluj where as in figure No. 2 it is shown on the left bank of the river Satluj.	It will be corrected by project proponent.	It has been corrected by project proponent. This issue stand closed.
9.	In EIA/EMP para-7.5 page No. 7-18 it is mentioned that sand and aggregate has been collected by M/s JP Karchham Wangtoo Project from village Jangi and the same query will be used by HPPCL but as a matter of fact this quarry has never been used by M/s J.P. Karchham Wangtoo Project, which indicates the negligent attitude of agency preparing EIA and as such the data given in EIA is doubtful.	Sand and aggregate will be collected as per para-7.5 page no. 7-18 near village Jangi.	Sand and aggregate will be collected from quarry site at village Powari which is in submergence area of the project rather than village Jangi due to more economical and for this all the necessary approvals are being obtained.
10.	All the muck dumping sites indicated in the EIA/EMP is on the bank of river Satluj, which is in the flood zone area. In EIA/EMP design of dumping sites has not been shown. What will be the distance of dumping sites from HFL and what will be the angle of repose of muck has not been indicated.	Project Proponent clarified that Muck will be dumped in safe designated dumping sites away from HFL and with adequate safe engineering structure so that there is no seepage of muck into river.	Muck management Plan as approved by MoEF and HPSPCB is being implemented. The muck is being dumped in designated dumping sites and with adequate safe engineering structure so that there is no seepage of muck into river under the supervision of H.P forest deptt. and HPSPCB.. The Monthly muck statement is being submitted to HPSPCB every month.



## Shongtong Karchham HEP (402 MW)

11.	<p>Due to construction of tunnels in Kinnaur, the fragile areas are being damaged which can be protected by the use of Tunnel Boring Machine as being used in Parvati Hydel Power Project in Kullu District. There is no mention of TBM in EIA/EMP. It was suggested that TBM should be used for construction of tunnels in Distt. Kinnaur.</p>	<p>It was assured by project proponent that if technically, it is possible, TBM can be used.</p>	<p>As per the Geological strata around the project area and the alignment of the project using TBM is not possible. To monitor the blast vibrations arise due to blasting in tunnels six Nos. seismographs has been installed in each Project affected Panchayat's and monthly monitoring report is being submitted to concerned Panchayat's, Member secretary, LADC and President, Zila Parishad. The blast vibrations are under the permissible limits as no damage to house of local people has been observed.</p>
12.	<p>Distt. Kinnaur is in Seismic zone -4 and in the past Kinnaur has observed heavy earthquakes. Therefore, big projects should not come up in Kinnaur. In EIA/EMP seismic factor has not been taken in to consideration.</p>	<p>Seismically project has been designed.</p>	<p>During the designing the project, this aspect has been taken into consideration and project has been designed to bear the earthquakes.</p>
13.	<p>The existence of all the projects in river Satluj basin is in danger because of no international treaty with China on Satluj river. China has constructed many big projects on Satluj basin and is planning to divert Satluj water to Eastern Tibet which is likely to affect the projects in future. All these aspects has not been mentioned in EIA/EMP.</p>	<p>No comments.</p>	<p>Existence of dams in the river Satluj will have positive impact rather than negative impacts. it helps in control of flash floods or other natural calamities by regulating the devastating effect of flash flood and natural calamities.</p>

## Shongtong Karchham HEP (402 MW)

14.	<p>Alternative suggestions have been given in EIA/EMP. Suggestion No. 1 to construct Dam at Shongtong and to construct tunnel on the right bank of river Satluj is the best option but it has been rejected because of Army Camp near to the proposed Dam. In view of environmental impact and to save property of local people, the suggestion No. 1 may be looked upon.</p>	<p>On the basis of technical studies conducted it was decided to construct HRT on the left bank of river Satluj.</p>	<p>Technical, Economical and safety factor has been taken into consideration before deciding to construct HRT on the left bank of river Satluj. All necessary action to safeguard the environment and property of local people is being taken during the construction of the project.</p>
15.	<p>It is apprehended that the religious place, Kinner Kailash and Shivling will be damaged due to construction of Head Race Tunnel. In such an eventuality the religious sentiments of local people will be hurt and due to melting of glaciers on Kinner Kailash mountain flood situation can be observed. Whereas this aspect is not been addressed in EIA/EMP.</p>	<p>On the basis of studies conducted it was observed that Kinner-Kailash and Shivling are at sufficient height and there is to such threat to Kinner Kailash and Shivling.</p>	<p>To monitor the blast vibrations arise due to blasting in tunnels six Nos. seismographs has been installed in each Project affected Panchayat's and monthly monitoring report is being submitted to concerned Panchayat's, Member secretary, LADC and President, Zila Parishad. The blast vibrations are under the permissible limits as no damage to house of local people has been observed and the Kinner-Kailash and Shivling are at sufficient height and far from project. There is to such threat to Kinner Kailash and Shivling.</p> <p>The same has been submitted to MoEF&amp;CC while obtaining Environmental Clearance of the project.</p>

## Shongtong Karchham HEP (402 MW)

16.	In view of the fact that number of big projects are coming up in Satluj basin and in the year 1988, 1993,1997, 2000 and 2005 devastating floods were observed in river Satluj, therefore study on cumulative impact is required and Disaster management plan should be prepared.	Project Proponent informed that disaster management plan shall be prepared.	Dam Break Analysis and Disaster Management plan has been prepared and in place. <b>(submitted with previous compliance report)</b>
17.	2 % royalty should be given as per Gov. Of India National Hydro-Power policy 2008. Whereas instead of this in EIA/EMP only 100 unit free powers for 10 years has been mentioned. Provision of 2 % royalty should be made in R &R plan.	Project proponent informed that the issue is under consideration of state govt.	The project proponent is committed to provide royalty @ 1% as per H.P State Govt. Norms after the commissioning of the project.
18.	As per Himachal Pradesh hydro power policy 2006 provision 15 % release of water from the dam and to provide 70 % employment to the Himachali's have not been mentioned in EIA/EMP.	As per govt. notification 15% water will be discharged and 70% employment will be given to Himachalies.	The project proponent is committed to maintain 20% Environmental flow as per Environment Clearance condition. The environmental flow assessment study has been conducted by NIH Roorkee. The EAC in its meeting held on 10 <sup>th</sup> and 11 <sup>th</sup> December, 2013 desired to have presentation on Environment flow study. The presentation was given by project proponent before the EAC on 16 October, 2014. The EAC observe that Environment flow study was carried out in accordance with the Flow duration curve method. While this is generally in order but for further clarity the same should be carried out through Hydraulic rating and

## Shongtong Karchham HEP (402 MW)

			<p>Habitat Simulation method. The technique shall factor the need of aquatic faunal population. Also the adequacy of environmental flow in terms of depth, velocity and top width needs to be checked and proposed a fresh. Accordingly the environment flow study has been revised as desired by EAC and submitted to MoEF for approval.</p> <p>The preference shall be given to Himachalies for the employment in the project.</p>
19.	The detail of transmission line is not mentioned in EIA/EMP plan. It is also not mentioned whether there will be separate transmission line or it will be transmitted through integrated transmission line and separate environmental clearance will be obtained for transmission land.	EIA/EMP has been prepared on the bases of TOR approved by MoEF. Further, it was clarified by project proponent that up to Wangtoo separate transmission line shall be provided and for transmission line environmental clearance is not required.	As per the latest notification from Govt. of India the transmission lines for the project above 250 MW will be done by HPTCL/Power Grid Corporation India Ltd. (PGCIL).
20.	In case the project is sold/transferred to any other company in such case fresh NOC of Gram Panchayat should be obtained.	Project proponent clarified that this project will not be sold/transferred to any other company.	Being and HP Govt. Entity, It is submitted that the project has not been sold/transferred to any other company.
21.	Definition of main project affected family is not in accordance to the R & R policy of 2007 of Govt. of India.	It is as per R & R Plan approved by HP State Govt. vide letter No. Rev. (PC)A(10)-7/2008, dated 19.1.2009.	Followed up as per R&R Plan approved by HP State Govt.
22.	Base line date of Air quality of the area is mentioned in EIA/EMP but prediction of	Project proponent informed that studies will be conducted on this	The Environment monitoring plan is included in EIA/EMP,

## Shongtong Karchham HEP (402 MW)

	<p>enhancement of Air pollution has not been given and impact on flora-fauna is also not mentioned in EIA/EMP.</p>	<p>issue.</p>	<p>which will be implemented by HPSPCB. HPSPCB will monitor the Air, Water, Noise pollution levels in the project area. Copy of the monitoring reports is attached as <b>Annexure-V</b> Moreover, an Ecological Monitoring Unit has been set-up under the Chairmanship of DFO, Kinnaur to monitor the impact of the project on flora and fauna of the area.</p>
<p>23.</p>	<p>Construction of tunnels and blasting operation will have adverse impact on water sources, is not mentioned in EIA/EMP and how it will be compensated should be made clear.</p>	<p>A committee comprising of members of Project Proponent, IPH and representative of concerned Panchayat will be constituted and documentation including Videography/ photography of the existing water sources shall be carried out, before starting the construction work. In case of reduction observed in the flow of water, it shall be compensated by the project proponent.</p>	<p>A committee comprising of members of Project Proponent, IPH and representative of concerned Panchayat was constituted and documentation including Videography/ photography of the existing water sources had been carried out, before starting the construction work. Moreover, to monitor the blast vibrations arise due to blasting in tunnels six Nos. seismographs has been installed in each Project affected Panchayat's and monthly monitoring report is being submitted to concerned Panchayat's, Member secretary, LADC and President, Zila Parishad. The blast vibrations are under the</p>

**Shongtong Karchham HEP (402 MW)**

			permissible limits. In case of reduction observed in the flow of water, it shall be compensated by the project proponent.
24.	Compensation for acquiring land should be through negotiation.	The project proponent agreed for negotiation.	Land has been acquired after negotiation with the land holders.
25.	Which area will be developed under CAT plan is not mentioned. Implementation of CAT plan should be prepared on annual basis and Implementation of CAT plan should be under taken consultation of local people/Panchayat.	Implementation CAT plan is to be done by forest department.	As per HP Govt. notification no. FFE-B-F-(2)-72/2004-PT-II dated 30/09/2009, 2.5% of total project cost has been kept for Catchment Area Treatment Plan which comes out to be Rs. 701.95 millions. Out of which Rs. 604.4 million has been deposited in Ad-hoc CAMPA account, New Delhi pertaining to the state vide UTRN: UCBAH12275077542, dated 01/10/2012, submitted to the office of D.F.O, Kinnaur. . During the reporting period HP forest department HP has not reported or submitted any progress report whereas the HP forest department HP has reported the physical and financial progress of 34,04,140 during the quarter and consolidated progress of the FY 2022-23 is Rs 50,06,900/- up to March 31 <sup>st</sup> March 2023( Copy of the same is

**Shongtong Karchham HEP (402 MW)**

			attached as (Annex-I)
26.	Health survey of workers should be conducted.	Agreed by project proponent.	<p>Prior to enrolment in the execution activities all the labourers are thoroughly checked up. After ensuring the complete fitness, the labourers are being engaged. Two nos. First Aid post has been made functional at site office Ralli and Barrage location. Contractor has provided Medicine of Rs. (1,11,364/- and spent Rs. 938574/- on salary of medical attendant and Rs. 960000/- spent on Ambulance.</p> <p>Rs. 885600/- has been spent on salary of ambulance driver.</p> <p>Total No. Medical attendant provided = 04</p> <p>Total No. of ambulance = 04</p>
27.	25 % employment should be given to the local people.	Employment will be provided to the local people in accordance to the notification of H.P. Government.	<p>As per H.P Govt. notification employment will be provided to the local people. In compliance of this M/s PEL has provided employment to 74 nos. peoples and HPPCL has provided 10 Nos. employment to local people on outsource</p>

## Shongtong Karchham HEP (402 MW)

			basis.
28.	All males above the age of 18 years should be treated a separate family and should be incorporated in R & R plan. As forest produce is likely to be destroyed due to construction of project, therefore, families which are depending upon forest produce for their livelihood should also be added in project affected families.	Project Proponent informed that there is no such provision in R & R plan approved by the State Govt.	During the impose of section-IV the families registered in Panchayat's Parivar register has been considered as Project affected families and accordingly benefits under R&R plan has been given to them.
29.	Due to submergence of sand / grits quarry in the project local people should be provided sand/grits and it should be made available through for next 40 years and there should be agreement between local people and project proponent.	Project proponent assured to give only free sand grit to construct two rooms set to each PAF.	The project proponent is providing the sand and aggregates free of cost to project affected families to construct two rooms set. Detail of sand and aggregates provided to PAF's in this monitoring period is attached as <b>Annexure-III.</b>
30.	RCC structure should be provided along the banks of reservoir in order to avoid land slide.	Project Proponent agreed to provide RCC structure along the banks of reservoir.	RCC structure in reservoir area will be constructed when construction of the dam in the barrage area will be started.



## Shongtong Karchham HEP (402 MW)

Detail of issues raised during Public Hearing on 28.07.2009 and 29.07.2009 for Shongtong-Karchham HEP (Powari-Ralli), organized by H. P. State Pollution Control Board at village Ralli, Tehsil Kalpa, Distt. Kinnaur H.P. respectively:-

Sr. No.	Issues Raised at Ralli	Remarks on the issue raised	Status Till date
1.	Dust from the construction of project is likely to pose serious health problems and will cause damage to orchards and crops which has not been indicated in EIA/EMP report. solution to this problem should be indicated in EIA/EMP	Mitigation measure to control dust due to construction of project have been suggested in EIA/EMP report, which has been assured by the project proponent to be implemented, so that water/air quality is kept within the prescribed norms and there is no damage to the orchards/crops and to the health of local people. Moreover, the same is also checked by HPSPCB time to time.	The project proponent is following the mitigation measures to suppress the dust and gaseous emission. The condition is being compiled by the contractor. The DG sets have been provided with acoustic enclosures and proper stack height. The water tanker has been deployed in the project area to sprinkle the water in the project area to suppress the dust emission due to movement of vehicles. HP State pollution Control board is monitoring the parameters quarterly and all the parameters are within the prescribed limits.
2.	Two stone crushers are proposed to be established by the HPPCL. Mebar and Ralli villagers will be mostly affected. These villages should be properly compensated by the project proponent in case of damage caused by establishing stone crusher.	Project Proponent assured that pollution control measures as prescribed in EPA, 1986 shall be provided so as to keep pollution within the prescribed limit in case any damage is caused due to construction of project	The project proponent is following all the safeguard measures. Till date only one Stone crusher has been installed at Barrage area well away from Ralli village, in case any damage is caused due to construction of project

## Shongtong Karchham HEP (402 MW)


		it shall be compensated by the project proponent.	it shall be compensated by the project proponent.
3.	Muck should be dumped in proper and safe place adequately away from HFL.	Project Proponent clarified that Muck will be dumped in safe designated dumping sites away from HFL and with adequate safe engineering structure so that there is no seepage of muck into river.	Muck management Plan as approved by MoEF and HPSPCB is being implemented. The muck is being dumped in designated dumping sites and with adequate safe engineering structure so that there is no seepage of muck into river under the supervision of H.P forest deptt. and HPSPCB.. The Monthly muck statement is being submitted to HPSPCB every month.
4.	Tunnel Boring Machine (TBM) should be used for construction of underground works so that there is minimum damage in the project area.	It was assured by project proponent that if technically, it is possible, TBM can be used.	As per the Geological strata around the project area and the alignment of the project using TBM is not possible. To monitor the blast vibrations arise due to blasting in tunnels six Nos. seismographs has been installed in each Project affected Panchayat's and monthly monitoring report is being submitted to concerned Panchayat's, Member secretary, LADC and President, Zila Parishad. The blast vibrations are under the permissible limits as no damage to house of local people has been observed.


## Shongtong Karchham HEP (402 MW)

5.	Due to submergence of sand/grits quarry in the project local people should be provide sand/grits and it should damage available through for next 40 years and there should be agreement between local people and project proponent.	Project proponent assured to give only free sand grit to construct two rooms set to each PAF.	The project proponent is providing the sand and aggregates free of cost to project affected families to construct two rooms set. Detail of sand and aggregates provided to PAF's in this monitoring period is already attached as <b>Annexure-III</b>
6.	Provision for 2% royalty should be made in R&R plan as per Govt. of India National Hydel Power policy 2008.	Project Proponent informed that this issue is under consideration of state govt.	The project proponent is committed to provide royalty @ 1% as per H.P State Govt. norms
7.	There are two water sources above villages Mebar and Ralli which are used for drinking as well as for irrigation. These sources are at the height of 10-11 thousand feet which is likely to be damaged due to construction of surge shaft. The project proponent should give in writing to provide water for drinking as well as for irrigation in case these sources are damaged due to construction of project.	A committee comprising of members of Project Proponent, IPH and representative of concerned Panchayat will be constituted and documentation including Videography/ photography of the existing water sources shall be carried out, before starting the construction work. In case of reduction observed in the flow of water, it shall be compensated by	A committee comprising of members of Project Proponent, IPH and representative of concerned Panchayat was constituted and documentation including Videography/ photography of the existing water sources had been carried out, before starting the construction work. Moreover, to monitor the blast vibrations arise due to blasting in tunnels six Nos. seismographs has been installed in each Project affected Panchayat's and monthly monitoring report is being submitted to concerned Panchayat's, Member secretary, LADC and President, Zila Parishad. The blast vibrations are under the permissible limits. In case of

Shongtong Karchham HEP (402 MW)

			reduction observed in the flow of water, it shall be compensated by the project proponent.
8.	Compensation for acquiring land should be through negotiation by Deputy Commissioner Kinnaur.	The project proponent agreed for negotiation.	Land has been acquired after negotiation with the land holders.
9.	Workers from other state employed in this project should not be allowed to vote in the elections.	Additional Magistrate informed that as per constitution of India, voting right can be exercised at only one place.	As per constitution of India, voting right can be exercised at only one place. The works belonging to their residence areas can only vote in that area.

  
**Dy. General Manager**  
Shongtong-Karchham HEP,  
HPPCL, P. O. Reckong Peo,  
Distt. Kinnaur (HP) 172107

  
**Dy. Manager (Eval.)**  
Shongtong Karchham HEP,  
HPPCL Reckong Peo  
Distt. Kinnaur (HP)



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

Report No: 7722654/W-5464

13/12/2022

**ISSUED TO:** Shongtong Karchham HEP  
- M/s Shongtong Karchham HEP HPPCL-Reckong Peo, Distt. Kinnaur HPPCL Corporate  
Office, Tutikandi, Shimla R-Peo, Kalpa  
Distt. Kinnaur, H.P. 172107

Sample received on: **02/12/2022**  
Description of sample: **Shongtong Karcham HEP U/s DAM**

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	COD	4	mg/L	NA	NA
2	Nitrate-N	0.33	mg/L	NA	NA
3	Nitrite-N	0.0	mg/L	NA	NA
4	Ammonical Nitrogen	0.0	mg/L	NA	NA
5	pH	8.12		NA	NA
6	DO	9.2	mg/L	NA	NA
7	Fecal Coliform	1.8	MPN/100ml	NA	NA
8	BOD	0.6	mg/L	NA	NA
9	Turbidity	2.3	NTU	NA	NA
10	Fluoride	0.2	mg/L	NA	NA
11	TDS	81.0	mg/L	NA	NA
12	Potassium	2.17	mg/L	NA	NA
13	TSS	5.0	mg/L	NA	NA
14	Boron	0.14	mg/L	NA	NA
15	Sulphate	25.77	mg/L	NA	NA
16	Ca <sup>++</sup>	19.23	mg/L	NA	NA
17	Conductivity	127.6	microsiemens	NA	NA
18	Sodium	3.20	mg/L	NA	NA
19	Total Phosphate	0.0	mg/L	NA	NA

The value of Fecal Coliform shall be read as <1.8 MPN/100 ml.

**Dr Praveen Sharma , SO**  
RL Shimla



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

Report No: 7722740/W-5473

13/12/2022

**ISSUED TO:** Shongtong Karchham HEP  
- M/s Shongtong Karchham HEP HPPCL-Reckong Peo, Distt. Kinnaur HPPCL Corporate  
Office, Tutikandi, Shimla R-Peo, Kalpa  
Distt. Kinnaur, H.P.172107

Sample received on: 02/12/2022

Description of sample: Shongtong Karcham HEP D/s Dam Site R. Satluj

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	COD	4.8	mg/L	NA	NA
2	Nitrate-N	0.72	mg/L	NA	NA
3	Nitrite-N	0.0	mg/L	NA	NA
4	Ammonical Nitrogen	0.0	mg/L	NA	NA
5	pH	7.89		NA	NA
6	DO	9.2	mg/L	NA	NA
7	Fecal Coliform	1.8	MPN/100ml	NA	NA
8	BOD	0.7	mg/L	NA	NA
9	Turbidity	4.2	NTU	NA	NA
10	Conductivity	134.30	microsiemens	NA	NA
11	Sodium	3.38	mg/L	NA	NA
12	TDS	85.0	mg/L	NA	NA
13	Potassium	11.05	mg/L	NA	NA
14	Fluoride	0.16	mg/L	NA	NA
15	Boron	0.22	mg/L	NA	NA
16	Sulphate	26.89	mg/L	NA	NA
17	Total Phosphate	0.0	mg/L	NA	NA
18	Ca <sup>++</sup>	19.23	mg/L	NA	NA
19	TSS	5.0	mg/L	NA	NA

The value of Fecal Coliform shall be read as <1.8 MPN/100 ml.

Dr Praveen Sharma , SO  
RL Shimla



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

Report No: 7722942/W-5463

13/12/2022

ISSUED TO: Shongtong Karchham HEP  
- M/s Shongtong Karchham HEP HPPCL-Reckong Peo, Distt. Kinnaur HPPCL Corporate  
Office, Tutikandi, Shimla R-Peo, Kalpa  
Distt. Kinnaur, H.P. 172107

Sample received on: 02/12/2022

Description of sample: Drinking Water Shongtong Karchham HEP

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	COD	4	mg/L	NA	NA
2	pH	7.80		NA	NA
3	Conductivity	634.0	microsiemens	NA	NA
4	DO	9.0	mg/L	NA	NA
5	Fecal Coliform	1.8	MPN/100ml	NA	NA
6	BOD	0.9	mg/L	NA	NA
7	Turbidity	5.1	NTU	NA	NA
8	Sodium	23.36	mg/L	NA	NA
9	TDS	399.0	mg/L	NA	NA
10	Potassium	27.0	mg/L	NA	NA
11	TSS	6.7	mg/L	NA	NA
12	Fluoride	0.18	mg/L	NA	NA
13	Boron	0.15	mg/L	NA	NA
14	Nitrate-N	1.65	mg/L	NA	NA
15	Nitrite-N	0.0	mg/L	NA	NA
16	Ammonical Nitrogen	0.0	mg/L	NA	NA
17	Sulphate	69.66	mg/L	NA	NA
18	Total Phosphate	0.0	mg/L	NA	NA
19	Ca <sup>++</sup>	70.54	mg/L	NA	NA

The value of Fecal Coliform shall be read as <1.8 MPN/100 ml.

Dr Praveen Sharma , SO  
RL Shimla



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

Report No: 7723044/W-5466

13/12/2022

ISSUED TO: Shongtong Karchham HEP  
- M/s Shongtong Karchham HEP HPPCL-Reckong Peo, Distt. Kinnaur HPPCL Corporate  
Office, Tutikandi, Shimla R-Peo, Kalpa  
Distt. Kinnaur, H.P. 172107

Sample received on: 02/12/2022

Description of sample: Tangling Nala

SAMPLING PARAMETERS					
Sr. No.	Parameter Name	Results	Units	Permissible Limit	Remark/Result Analysis
1	Nitrate-N	1.02	mg/L	NA	NA
2	pH	8.01		NA	NA
3	Conductivity	171.6	microsiemens	NA	NA
4	DO	9.6	mg/L	NA	NA
5	Fecal Coliform	1.8	MPN/100ml	NA	NA
6	BOD	0.6	mg/L	NA	NA
7	TSS	7.5	mg/L	NA	NA
8	COD	3.2	mg/L	NA	NA
9	Ammonical Nitrogen	0.0	mg/L	NA	NA
10	Turbidity	3.4	NTU	NA	NA
11	Sodium	3.83	mg/L	NA	NA
12	TDS	116.0	mg/L	NA	NA
13	Potassium	4.25	mg/L	NA	NA
14	Fluoride	0.16	mg/L	NA	NA
15	Boron	0.14	mg/L	NA	NA
16	Sulphate	11.51	mg/L	NA	NA
17	Total Phosphate	0.0	mg/L	NA	NA
18	Ca <sup>++</sup>	24.84	mg/L	NA	NA
19	Nitrite-N	0.0	mg/L	NA	NA

The value of Fecal Coliform shall be read as <1.8 MPN/100 ml.

Dr Praveen Sharma , SO  
RL Shimla








**EXPENDITURE INCURRED ON IMPLEMENTATION OF ENVIRONMENT  
MANAGEMENT PLAN IN R/O SHONGTONG KARCHHAM HEP (402 MW) TILL  
31/03/2023**

Sr. No.	Component	Budget Allocated in EMP	Budget Utilized/Released	Implementation Agency
<b>1</b>	<b>Compensatory Afforestation and Biodiversity Conservation Plan</b>			
	Compensatory	16647259	17465952	HP Forest Deptt. – DFO,
	NPV	36830870	56960846	HP Forest Deptt. – DFO, Kinnaur
	Cost of Trees	6470000	8545256	HPPCL & HP Forest Deptt. – DFO, Kinnaur
	<b>Total</b>	<b>59948129</b>	<b>82972054</b>	
<b>2</b>	<b>CAT Plan</b>			
	CAT Plan	<b>604416000</b>	<b>604416000</b>	HP Forest Deptt.
<b>3</b>	<b>Fisheries Management Plan</b>			
	Fisheries Management Plan	<b>22600000</b>	<b>3500000</b>	HP Fisheries Deptt.
<b>4</b>	<b>Public Health Delivery System</b>			
	Control of Malaria	<b>62300000</b>	<b>16513429</b>	HPPCL/Contractor/State Aids Control Society (SACS)
	Development of Medical			
	HIV/AIDS Prevention and			
	Disposal of Biomedical			
<b>5</b>	<b>Environment Management in Labor Camps</b>			
	Provision of Heating	0	22207234	EPC Contractor.
	Provision of Water Supply	0	18001406	
	Sanitation and Sewage	6200000	14851360	
	Solid Waste Management	4350000	702210	
	Provision of Free Fuel	29670000	6956069	
	Police Post	20090000	99316659	
	<b>Total</b>	<b>60310000</b>	<b>162034938</b>	
<b>6</b>	<b>Muck Management Plan</b>			
	D1:max.quality to be	<b>18,47,10,000</b>	<b>9769237</b>	EPC Contractor. However will be inspected by HPSPCB, HP State Forests Deptt., MoEF from time to time.
	D2:max.quality to be			
	D3:max.quality to be			
	D4:max.quality to be			
	D5:max.quality to be			
	D6:max.quality to be			
	D7:max.quality to be			
	D8:max.quality to be			
	<b>Total</b>		<b>9769237</b>	
<b>7</b>	<b>Restoration and Landscaping of Construction Sites</b>			
	<b>Restoration of borrow area</b>			EPC Contractor & HPPCL in consultation with HP Forest Department
	Filling up the land with soil	1000000	0	
	Cost of green manure	400000	0	
	Cost of sapling (10,000)	50000	0	
	Cost of fertilizers and	400000	0	
	Fencing with RCC pillars	300000	0	
	Maintenance activities	250000	0	
	Digging of pits	100000	0	
	Construction of garland	2000000	0	

	Bench terracing	5000000	0	
	Total	10500000	0	
	Landscaping and	5000000	0	
	<b>Total</b>	<b>15500000</b>	<b>0</b>	
8	<b>Environment Management in Road Construction</b>			
	Clearing and grubbing @	300000	320000	EPC Contractor.
	Provision of breast walls,	1800000	3106552	
	Provision of drainage	600000	901625	
	Roadside plantation, Jute	420000	0	
	Provision of water for	2000000	2200000	
	Compaction of Kutchra	2000000	2150000	
	<b>Total</b>	<b>7120000</b>	<b>8678177</b>	
9	<b>Green Belt Development Plan</b>			
	Plantation in the area of 40	<b>4000000</b>	<b>0</b>	EPC Contractor & HPPCL in
10	<b>Control of Air Pollution</b>			
	Repair of roads during construction phase	2000000	3110000	EPC Contractor and supervise by HPPCL and HPSPCB
	3 Traffic managers @ Rs. 10,000 per month for 6 years including 10% escalation per year	2780000	5119500	
	5 sweeper @ Rs. 5,000 per month for 6 years including 10% escalation per year	2310000	1080000	
	Provision for water spray @ Rs. 200/ tanker for 10 tankers per day for a period of 6 years (@ escalation of 1-0% every year)	5630000	18529075	
	<b>Total</b>	<b>12720000</b>	<b>27838575</b>	
11	<b>Control of Noise Pollution</b>			
	Construction of acoustic enclosure for DG sets	500000	1535391	EPC Contractor and supervise by HPPCL and HPSPCB
	Maintenance of DG sets	600000	1990722	
	<b>Total</b>	<b>1100000</b>	<b>3526113</b>	
12	<b>Control of Water Pollution</b>			
	Settling Tanks at various	<b>3000000</b>	185000	EPC Contractor and
13	<b>R&amp;R Plan</b>			
	Financial Assistance under standard R&R plan	16500000	9093000	HPPCL
	Funds for R&R scheme	7800000	270458000	
	Contingencies including compensation for unforeseen damages, development works etc.	15000000	2637801000	
	LADF	421100000	255600000	
	<b>Total</b>	<b>460400000</b>	<b>3172952000</b>	

Environment Monitoring Plan				
14	Effluent from septic tanks	28080000	5835794	Himachal Pradesh State Pollution Control Board (HPSPCB)
	Water Quality (Surface)			
	Water Quality			
	Water-related diseases			
	Noise			
	Air quality			
	Meteorological aspects			
	Environment Monitoring	4000000	4000000	Centre for Science and
	<b>Total</b>	<b>32080000</b>	<b>9835794</b>	
		<b>1,53,02,04,129</b>	<b>4039503038</b>	
15	Compensation due to loss	10000000	15265000	HPPCL
16	Consultancy for CDM	5000000	0	HPPCL
17	Consent to Establish and	4500000	4618000	HPPCL
	<b>Total (Rupees)</b>	<b>1,54,97,04,129</b>	<b>4090325888</b>	
<b>Note</b> Additional amount of Rs. 13673737 for regenerating equivalent amount of degraded forest area in				
	<b>Grand Total (Rupees)</b>		<b>4103999625</b>	

  
**Dy. General Manager**  
 Shongtong-Karchham HPP,

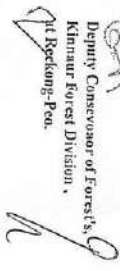
HPPCL, Reckong Poo,  
 Distt. Kinnaur (H. P.) 176107

  
**Manager (Asst.)**  
 Shongtong Karchham HPP,

HPPCL Reckong Poo,  
 Distt. Kinnaur (H.P.)



B/Nagar	B/Nagar	B/Nagar	B/Nagar	Uf-Mansoh	maint	1600	10	46000	0	36100	10	9800	10	46000
B/Nagar	B/Nagar	B/Nagar	B/Nagar	Uf-Isaba Nagar	maint	4600	15	69000	0	48000	15	24000	15	69000
Kilba	Kaechham	Sepm	Uf-Dharwadung	maint	4600	15	69000	0	20329	15	48671	15	69000	
Kilba	Kaechham	Sepm	Uf-Wedung	maint	4600	10	46000	0	0	10	46000	10	46000	
Kilba	Kaechham	Sioug	C-165-1	maint	4600	10	46000	10	46000	0	0	10	46000	
Kilba	Kaechham	Sioug	C-165-1	maint	4600	10	46000	0	46000	0	0	10	46000	
Kilba	Kaechham	Isall	Uf-Kall	maint	4600	10	46000	0	46000	10	0	10	46000	
Total 8th year Maintenance						115	529000	35	308529	80	220471	115	529000	
9th year Maintenance														
Kalpa	Uma	Kunang	C-248	maint	4600	10	46000	0	0	10	46000	10	46000	
B/Nagar	B/Nagar	B/Nagar	C-73	maint	4600	20	92000	20	91000	0	1000	20	92000	
Total 9th year Maintenance						30	138800	20	91000	10	47000	30	138000	
10th year Maintenance														
Kalpa	Uma	Kunang	C-248	maint	4600	10	46000	0	0	10	46000	10	46000	
Total 10th year Maintenance						10	46000	0	0	10	46000	10	46000	
Total Maintenance						117	8931450	33	1366256	104	331623	117	8933650	
Grant Total Advance work, Planting in Land bank.						117	7718300	33	1366256	104	331623	117	7718300	
Total Maintenance & Raising of Nursery						10	46000	0	0	10	46000	10	46000	
Total Maintenance						117	8931450	33	1366256	104	331623	117	8933650	
Total Maintenance & Raising of Nursery						10	46000	0	0	10	46000	10	46000	

  
 Deputy Conservator of Forests,  
 Kinnaur Forest Division,  
 Pt Reckong-Poo.

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**COMPLIANCE OF FC CONDITIONS MONITORING REPORT IN R/O SHONGTONG-KARCHHAM HEP**

I	Name of Project	Shongtong Karchham HEP
II	Name of Monitoring/Reporting Agency and address	Himachal Pradesh Power Corporation Limited
III	Report for the period	1 <sup>st</sup> Oct. 2022 to 31 <sup>st</sup> March 2023.

1. Forest Clearance: Forest Clearance for the project was granted by MoEF vide F.no. 8-78/2010-FC, dated 14<sup>th</sup> Nov. 2012 (submitted with previous compliance report).

Sr. No.	Description	Compliance Status
1.	Legal Status of the diverted forest land shall remain unchanged.	HPPCL will not seek any changes in status of diverted forest land.
2	The Compensatory Afforestation (CA) will be raised and maintained over double the area proposed for diversion in a degraded forest land (i.e. 128 ha) at the cost of User Agency.	Condition is complied with by paying the requisite amount to CAMPA through DFO Kinnaur. The HPPCL has deposited the requisite cost towards CA with Department of Forest, Govt. of HP amounting to Rs. 1, 74, 65,952/- (One crore seventy-four lakhs sixty-five thousand nine hundred and fifty two) only vide DD No. 630072 dated 02.04.2011 (worth Rs. 7, 44, 26,798/- including amount for NPV) drawn on Reckong Peo branch of State Bank of India vide their letter No. HPPCL/GM-STKHEP/Forest/ 2010-24-27, dated 02.04.2011 as per the bill issued by DFO Kinnaur vide letter No 9216 dated 30.03.2011. Progress report up to 31.03.2023 under CA of Kinnaur Forest Division is attached as <b>Annexure-VII</b> .
3	The user Agency shall pay the additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India.	Condition has been complied with by paying the requisite amount to CAMPA /DFO Kinnaur. HP Forest Department through DFO Kinnaur raised a bill for Rs. 5, 69, 60,846/- (Five crore sixty-nine



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		<p>lakh sixty thousand eight hundred and forty-six) only against NPV vide letter No. 9216 on dated 30.03.2011 and same has been deposited vide DD No. 630072 dated 02.04.11 with the DFO Kinnaur HP (submitted in previous compliance report). An undertaking to pay the additional NPV, if so determined as per the final decision of Hon'ble Supreme Court of India has already been given. Progress of the NPA is not being submitted by the Concerned Forest Department</p>
4	All the funds received from the user Agency under the project shall be transferred to Ad-hoc CAMPA pertaining to the state.	Project proponent has deposited all the funds to the DFO, Kinnaur H.P forest department and further deposited to Ad-hoc CAMPA by DFO, Kinnaur.
5	The State Government shall ensure that minimum flow of 15% is maintained at all time.	The project proponent is committed to maintain 20% Environmental flow as per Environment Clearance condition. The environmental flow assessment study has been conducted by NIH Roorkee. The EAC in its meeting held on 10 <sup>th</sup> and 11 <sup>th</sup> December, 2013 desired to have presentation on Environment flow study. The presentation was given by project proponent before the EAC on 16 October, 2014. The EAC observe that Environment flow study was carried out in accordance with the Flow duration curve method. While this is generally in order but for further clarity the same should be carried out through Hydraulic rating and Habitat Simulation method. The technique shall factor the need of aquatic faunal population. Also the adequacy of environmental flow in terms of depth, velocity and top width needs to be checked and proposed a fresh. Accordingly the environment flow study has been revised as desired by EAC and submitted to MoEF for approval.

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		The preference shall be given to Himachalies for the employment in the project.
6	The user agency shall set up Ecological Monitoring Unit to monitor the impact of the project on flora and fauna of the area.	As per the stipulations imposed by Forest Advisory Committee, MoEF&CC an Ecological Monitoring Unit (EMU) to monitor the impact of project on flora and fauna of the area was to be constituted Since, the Stage-I Forest Clearances to Shongtong Karchham HEP & Integrated Kashang HEP were granted within the same time period and with similar condition of setting up of an EMU. Thus, Divisional Forest officer Kinnaur at Reckong Peo through his office order issued vide No. 3KNR/2011-12 dated 5.04.2011” framed committee for the Ecological Monitoring to monitor the impact of aforesaid Projects on flora & Fauna within the jurisdiction of command area of the Shongtong Karchham HEP , as well as, Integrated Kashang HEP. Project proponent had agreed to comply the directions of above nominated committee. On dated 19/06/2015 this office received a letter from the O/o General Manager, IKHEP that a payment of Rs. 6,00,000/- has been made to DFO (Kinnaur) on account of APO for Ecological Monitoring Unit to monitor the impact of project on flora and fauna of the area in r/o IKHEP & STKHEP, HPPCL. The amount is chargeable to both the projects on pro rata basis .The same was verified by this office and Rs. 4,18,605/- from the total of Rs. 6,00,000/- were charged towards STKHEP, HPPCL.
7	The user agency shall keep the effect of camping labourers on the flora and fauna during the construction phase of 48 months at minimum by providing alternate fuel for cooking and heating.	Provision has been made in EMP to provide alternative fuel (i.e. LPG /kerosene/ electricity) for community kitchen. If fuel wood is to be procured, it has to be through authorized sources only. From Oct. 2022 to Dec 2022, 139Nos. & from Jan 2023 to March

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		2023, 114 LPG cylinders have been provided by the contractor i.e. M/s Patel Eng. Ltd to the labour and staff besides running community kitchens/mess at all the locations being the main contractor of STKHEP.
8	The entire reservoir created due to submergence shall be declared Reserve Forest under Indian Forest Act. 1927 within six months. However, regulated fishing shall be allowed. Nodal officer shall submit compliance report in this regard.	Since the Project is a Run-of-the-River type (RoR) hydropower project with diversion done through a barrage with head race tunnel (HRT). Thus, the submergence area is very small (27 hectares), which shall be got declared as Reserve Forest under Indian Forest Act. 1927 through HP State Forests Department with regulated fishing being allowed.
9	Catchment Area Treatment Plan should be implemented at the project cost under the supervision of the State Government.	As per HP Govt. notification no. FFE-B-F-(2)-72/2004-PT-II dated 30/09/2009, 2.5% of total project cost has been kept for Catchment Area Treatment Plan which comes out to be Rs. 701.95 millions. Out of which Rs. 604.4 million has been deposited in Ad-hoc CAMPA account, New Delhi pertaining to the state vide UTRN: UCBAH12275077542, dated 01/10/2012, submitted to the office of D.F.O, Kinnaur. The CAT plan of the project has been revised by Pr.CCF, HP Forest Deptt. on dated 29/04/2015. . During the reporting period HP forest department has reported the physical and financial progress of Rs. 34,04,140/- during the quarter and consolidated progress of Rs 50,06,900/- up to March 31 <sup>st</sup> March 2023( Copy of the same is attached as <b>(Annex-I)</b> )
10	Green belt of adequate width shall be	A plan for Green belt development

[Type the document title]

	<p>raised by the user agency around the reservoir at the cost of the project.</p>	<p>around reservoir and around surface components and along project roads at the cost of the project has been included in the EMP for which provision of 40 lacs has been made in EMP (Chapter-9). The same will be taken in consultation with forest deptt. After completion of civil work.</p>
<p>11</p>	<p>The user agency shall facilitate a basin level study on the impact of HEP's on the flora &amp; fauna of the as per the TOR submitted to MoEF.</p>	<p>Project proponent is committed to comply the outcomes of the basin level study of Satluj basin on the recommendations of MoEF, Govt. of India. Himachal Pradesh is getting study conducted for cumulative or ecological impact of all the Hydro power Projects in operation and under execution or are planned to implementation in near future in Satluj Basin of Himachal. Job of this study has been awarded to Indian council of Forestry research and Education Dehradun in Feb 2012 and accordingly Govt. of Himachal Pradesh has constituted Two member panel of Environment and social Expert PESE) Sh.D.C.Khanduri (Rtd.IFS) Dehradun and Dr. Rashmi Nayar - Associate Professor and Management of Land Acquisition Resettlement and rehabilitation Administrative Staff college of India.) towards states compliance for Environment and social Development policies in regard to the Development of Hydro Power Projects in the Satluj Basin of Himachal Pradesh. Recently in this regard the experts Panel along with the two senior officers of Directorate of Energy, GoHP, visited the various Hydro Power Projects and on 7<sup>th</sup> Dec, 2013 and DOE has organized a meeting with the Panel of Environment and social Experts(PESE)for Satluj basin from 12<sup>th</sup> August to 18 August at various location i.e. on 12.08.2014 at Jakhari and on 13<sup>th</sup> August 2014 at Reckong</p>

[Type the document title]

		<p>Peo and Lippa on 14<sup>th</sup> August 2014 at Pooh and Nako on 16<sup>th</sup> August at Tabo. Consequent upon this meeting on the demands of the stakeholders and villagers of various Villages DOE has been requested to hold a another meeting in the presence of panel of experts involved in the preparation of these reports and DOE has arranged another meeting with Stakeholder at Reckong Peo on 8<sup>th</sup> Dec 2014 and 9<sup>th</sup> Dec 2014 at Pooh . consequent upon the above facts the committee has submitted the draft report on CEIA of Satluj basin to DoE and DoE has placed the same in its official web site of DoE and ICFRI has submitted the final report to MoEF for approval. EAC of MoEF&amp;CC has proposed a physical meeting later as in line with the EAC 41<sup>st</sup> meeting of EAC of river valley and Hydro Electric Projects of MoEF&amp;CC GoI held on 1.02.2023 and comments/suggestion/observation from concern HEP's were requested from project proponents. Rest status remains same as Previous compliance Report.</p>
12	<p>The user agency shall carry out the muck disposal at pre-designated sites in such a manner so as to avoid its rolling down.</p>	<p>Project proponent will abide this condition and committed to comply. All the necessary steps to prevent rolling down of muck are being taken by constructing/raising retaining walls, Gabions &amp; other structures through its main contractor i.e. M/s Patel Eng Ltd. The detail muck statement is being submitted to HPSPCB regularly. During the reporting period project proponent has constructed 1086 no. of crates through its main contractor at various dumping sites.</p>
13	<p>The dumping area for muck disposal shall be stabilized and reclaimed by planting suitable species by the user</p>	<p>A detailed Muck Management Plan (MMP) has been prepared as part of EMP (Chapter-6) which prescribes for</p>

[Type the document title]

	<p>agency at the cost of project under the supervision of 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 State Forest Department. In a time bound manner as per Plan.</p>	<p>engineering and biological measures for stabilization of dumped muck. The MMP is being implemented diligently. As already submitted, its implementation is also being monitored strictly by the State Pollution Control Board.</p> <p>Total nos.1086 no of wire crate were being constructed during Oct. 2022 to March 2023. with an expenditure amounting to Rs 97,78,241/- were incurred</p>
14	<p>The user agency to consult other organization having experience in construction of roads in hilly areas such as BRO to avoid frequent road blocked due to landslides etc. and shall provide breast walls and retaining walls wherever necessary.</p>	<p>The user agency i.e. HPPCL is sister concern of Himachal Pradesh State Electricity Board Ltd.(HPSEBL) which have sufficient experience in construction of roads and related civil works. However, the agency like BRO, GREF and HPPWD etc. are also being consulted for proper construction of roads as and when required.</p>
15	<p>The Forest Department shall regenerate equivalent amount of degraded forest area, in addition to the condition no. 2. As the user agency does not have qualified manpower and control on the forest area to execute the same, they have paid for the same to the CF, Rampur. The Forest Department shall implement the same and submit a compliance report.</p>	<p>Total of Rs. 1,36,73,737/- have been deposited with D.F.O, Kinnaur for regenerating equivalent amount of degraded forest area, in addition to the condition no. 2 (Copy of the progress report submitted by the DFO Kinnaur has already conveyed to MoEFCC with previous compliance as Annexure-VII ) during the FY 2016-17 &amp; 2017-18 total progress of Rs 1,36,74,200/- has been received from forest Deptt.</p>
16	<p>The User Agency shall submit annual self monitoring report indicating status of compliance to the conditions stipulated in the approval, to the state government and the concerned Regional Office of the Ministry.</p>	<p>HPPCL is committed to abide by and comply with the condition. Last compliance report has been submitted to MoEF, Regional Office Dehradun &amp; Pr.C.C.F, and Shimla on 07.06.2022 (submitted with previous compliance reports).</p>
17	<p>All other conditions including standard</p>	<p>All other conditions including standard</p>

[Type the document title]

conditions applicable to the proposals under Forest Conservation Act, 1980 and under different rules regulations and guidelines including Environmental Clearance and rehabilitation shall be complied with before transfer of forest land.	conditions applicable to the proposals under various Acts and rules and clearances are acceptable to project proponent and will abide these condition and committed to comply.
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**Dy. General Manager**  
Shongtong-Karchham HEP,  
HPPCL, Reckong Peo,  
Distt. Kinnaur (H. P.) 172107



**Dy. Manager (Evnt.)**  
Shongtong Karchham HEP,  
HPPCL/Reckong Peo  
Distt. Kinnaur (HP)


TENTATIVE CUMULATIVE EXPENDITURE (As per SAP) UP TO 31.03.2023 IN R/O SHONGTONG-KARCHHAM HEP 450MW (Amt. in							
Code	Heads of the Account	Cummulative Exp. Upto 31st March 2022 (As per SAP)	Approved Budget for F.Y 2022-23	Cumulative Exp. for the F.Y 2022-23 upto 28.02.2023	Exp. for the month of March.2023 (tentative)	Cumulative Exp. for the F.Y 2022-23 upto 31.03.2023 (tentative)	Total Cumulative Expenditure upto 31.03.2023 (tentative) (Amt. in Lakh)
1	Establishment Charges:						
1.1	Salary	8273.35	1400.00	1009.39	153.01	1162.40	9435.75
1.2	Outsourced manpower Charges.	891.88	200.00	141.45	39.74	181.19	1073.07
1.3	Wages (Daily Paid staff)	1.13	0.00	0.00		0.00	1.13
1.4	T A	37.71	2.50	0.72	0.54	1.26	38.97
1.5	Medical	38.58	5.00	4.73	0.99	5.72	44.30
1.6	Staff Welfare.	62.93	6.00	2.44	2.77	5.21	68.14
1.7	CPF/CPS	22.57		0.00		0.00	22.57
1.8	Training/Seminar.	4.98	1.00	0.02		0.02	5.00
1.9	Honorarium, Stipend & incentives	33.73		0.00		0.00	33.73
1.10	Others (Gratuity)	920.88		0.00		0.00	920.88
	Total-1	10287.74	1614.50	1158.75	197.05	1355.80	11643.54
2	Motor Vehicle:					0.00	
2.1	Vehicle running & maintenance.	21.49	2.50	1.81	0.51	2.32	23.81
2.2	Vehicle Hiring Charges.	465.96	75.00	41.21	8.71	49.92	515.88
2.3	Vehicle Repairs	11.69	1.30	1.30	0.06	1.36	13.05
2.4	Other (O-Misc. Vehicle Hiring (PROJECT)	0.46	0.00	0.00		0.00	0.46
	Total:-2	499.59	78.80	44.32	9.28	53.60	553.19
3	Office Expenses:					0.00	
3.1	Rent	236.21	40.00	11.49	1.83	13.32	249.53
3.2	Electricity Fuel And water Charges.	39.30	6.00	2.23	1.03	3.26	42.56
3.3	Stationary	35.62	3.20	2.14	0.41	2.55	38.17
3.4	Books and periodicals	9.30	1.00	0.17	0.64	0.81	10.11
3.5	Freight and labour	2.30	0.50	0.10	0.15	0.25	2.55
3.6	Consumable Stores & Spares	11.30	1.00	0.76	0.25	1.01	12.31
3.7	Legal and Professional Charges	49.30	16.50	7.21	4.29	11.50	60.80
3.8	Remuneration to Auditors	2.96	0.80	0.00	0.53	0.53	3.49
3.9	Insurance	5.77	1.00	0.40		0.40	6.17
3.10	Postage	2.67	0.50	0.14	0.00	0.14	2.81
3.11	Communication (Telephone & Internet)	52.19	4.00	3.32	0.68	4.00	56.19
3.12	Hospitality	10.14	1.50	0.81	0.14	0.95	11.09
3.13	Publicity and Advertisement	22.65	4.00	0.19	0.07	0.26	22.91
3.14	Expenditure on Transit Camp.	4.08	1.50	0.67	0.26	0.93	5.01
3.15	Fee and subscription	0.24	0.20	0.00		0.00	0.24
3.16	Misc. Expenditure including Raising Day & Donations, Audit Expenses	3.63	1.50	0.02		0.02	3.64
3.17	Preliminary Expenses		0.00	0.00		0.00	0.00




<b>TENTATIVE CUMULATIVE EXPENDITURE (As per SAP) UP TO 31.03.2023 IN R/O SHONGTONG-KARCHHAM HEP 450MW (Amt. in</b>							
<b>Code</b>	<b>Heads of the Account</b>	<b>Cumulative Exp. Upto 31st March 2022 (As per SAP)</b>	<b>Approved Budget for F.Y 2022-23</b>	<b>Cumulative Exp. for the F.Y 2022-23 upto 28.02.2023</b>	<b>Exp. for the month of March.2023 (tentative)</b>	<b>Cumulative Exp. for the F.Y 2022-23 upto 31.03.2023 (tentative)</b>	<b>Total Cumulative Expenditure upto 31.03.2023 (tentative) (Amt. in Lakh)</b>
3.18	Business Development Expenses		0.00	0.00		0.00	0.00
3.19	Meeting Expenses	9.82	1.50	0.95	0.56	1.51	11.33
3.20	Bank Charges	0.84	0.05	0.00		0.00	0.84
3.21	Winter Heating Expenses	40.57	5.00	3.09	0.68	3.77	44.34
3.22	Other Misc. expenditure	2.61	0.00	0.00		0.00	2.61
	<b>Total:-3</b>	<b>541.50</b>	<b>89.75</b>	<b>33.69</b>	<b>11.52</b>	<b>45.21</b>	<b>586.70</b>
4	Repair & Maintenance:					0.00	
4.1	Building	25.30	8.00	0.00		0.00	25.30
4.2	Roads			0.00		0.00	0.00
4.3	Power, Water, Parks, etc.			0.00		0.00	0.00
4.4	Office Equipement & Furniture	4.56	1.50	1.12		1.12	5.68
4.5	Plant & Machinery	0.61		0.00		0.00	0.61
4.6	AMC	2.25	3.55	3.09	2.08	5.17	7.42
4.7	Others (R&M Construction Power)	24.41	10.00	1.22	2.80	4.02	28.43
	<b>Total:-4</b>	<b>57.13</b>	<b>23.05</b>	<b>5.43</b>	<b>4.88</b>	<b>10.31</b>	<b>67.44</b>
5	Land Acqution & R&R:					0.00	
5.1	Cost of Land	2226.48	135.00	0.00		0.00	2226.48
5.2	R&R Plan	320.14	11.00	3.13	2.15	5.28	325.42
5.3	LADA	3356.00	855.00	0.00	855.00	855.00	4211.00
5.4	Studies & Research			0.00		0.00	0.00
5.5	Other Social Welfare activities	2645.40	1000.00	272.52	443.88	716.40	3361.80
5.6	Wild Life Protection			0.00		0.00	0.00
5.7	Comensation/Damages	451.95	50.00	0.00	50.00	50.00	501.95
5.8	Others (Environment & Ecology Compliances)			0.00		0.00	0.00
	<b>Total:-5</b>	<b>8999.98</b>	<b>2051.00</b>	<b>275.65</b>	<b>1351.03</b>	<b>1626.68</b>	<b>10626.66</b>
6	Envirionment:					0.00	
6.1	CAT Plan	6054.10	0.00	0.00		0.00	6054.10
6.2	Compulsory afforestation	882.42	110.00	0.00		0.00	882.42
6.3	Studies and Research	0.00	20.00	5.31		5.31	5.31
6.4	EMP	13.20	35.70	33.46		33.46	46.66
6.5	Environment & Ecology	186.34	7.50	0.00		0.00	186.34
6.6	Others (Environment & Ecology Compliances)			0.00		0.00	0.00
	<b>Total:-6</b>	<b>7136.06</b>	<b>173.20</b>	<b>38.77</b>		<b>38.77</b>	<b>7174.83</b>
7	Infrastrurcture Work:					0.00	
7.1	Buildings	64.82	26.00	0.00		0.00	64.82
7.2	Roads & Bridges			0.00		0.00	0.00
7.3	Construction Power	584.29	60.00	47.87		47.87	632.16

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7.4	Helipad/Water Transport			0.00		0.00	0.00
7.5	Plant & Machinery i.e. Treatment Plant Lab			0.00		0.00	0.00
7.6	Others (STP)			0.00		0.00	0.00
	<b>Total:-7</b>	649.11	86.00	47.87		47.87	696.98
8	<b>Main Work Civil</b>		20149.30			0.00	
8.1	Adits & Tunnels	0.00		0.00		0.00	0.00
8.2	Pressure Shaft/Penstock & Surge Shaft	1214.82		1968.03	1724.54	3692.57	4907.39
8.3	DAM, Intake Structure etc.	27109.16		5522.65	4185.15	9707.80	36816.96
8.4	HRT	19913.00		2083.60	4526.28	6609.88	26522.88
8.5	Power House	10522.10		2.04	1228.59	1230.63	11752.73
8.6	Others (Mobilisation,GST etc).	0.00		0.00		0.00	0.00
	<b>Total:-8</b>	58759.08	20149.30	9576.32	11664.56	21240.88	79999.96
9	<b>Main Works Electro/Mechanical (including Power Evacuation)</b>		3922.00			0.00	
9.1	Generation Equipment /Plant	33777.21		0.00	1793.90	1793.90	35571.11
9.2	Post Head Yard/switch yard(including power evacuation)			0.00		0.00	0.00
9.3	Transmission/ Power Supply System / Power	29.88	15.00	6.64	6.64	13.28	43.16
9.4	DG Sets/ AC Plants Batteries			0.00		0.00	0.00
9.5	E&M Service (Land Lease rent)(H-SHGKR-1-4-2-5)	141.13		44.99	45.29	90.28	231.41
9.6	E&M Service(Installing,Testing& Commissioning)				41.24	41.24	41.24
	<b>Total:-9</b>	33948.22	3937.00	51.63	1887.07	1938.70	35886.92
10.0	<b>Financial Charges:</b>					0.00	
10.1	Loan Repayment	0.00	0.00	0.00		0.00	
10.2	Interest during Const.Period (KEB)	10333.78	0.00	0.00		0.00	10333.78
10.3	Interest during Const.Period (ADP)	11703.21	0.00	0.00		0.00	11703.21
10.4	Interest during Construction(PROJECT)	3741.82	0.00	0.00		0.00	3741.82
10.5	Interest on loan CCL-KCCBL during Construction(PROJECT)	1147.49	0.00	0.00		0.00	1147.49
10.6	Interest on loan CCL-HPSCBL during Construction(PROJECT)	94.46	0.00	0.00		0.00	94.46
10.7	Guarantee fee to Power Financial Corporation	300.00	0.00	0.00		0.00	300.00
	<b>Total:-10</b>	27320.75	0.00	0.00		0.00	27320.75
11	<b>Other Capital Assets</b>					0.00	
11.1	Vehicle	8.92		0.00		0.00	8.92
11.2	Furniture & Fixture	21.75	3.20	0.25		0.25	22.00
11.3	Office equipment	77.13	3.05	1.73		1.73	78.86
11.4	Data Processing Equipment	14.08	5.24	0.24	3.62	3.86	17.94

TENTATIVE CUMULATIVE EXPENDITURE (As per SAP) UP TO 31.03.2023 IN R/O SHONGTONG-KARCHHAM HEP 450MW (Amt. in							
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11.5	ERP including Software	0.00	1.00	0.37		0.37	0.37
11.6	100KVA22/0.4KVS/Strn.line at Ralsana			0.00		0.00	0.00
11.7	Others (Explosive & Demolition)	287.43		0.23		0.23	287.66
11.8	ROU-Building, KC Negi Transit Camp	8.74		0.00		0.00	8.74
11.9	ROU-Building, Aparna Bacholer Accomodation	1.91		0.00		0.00	1.91
11.10	Rou-Building KC Negi Bachelor Accomodation P/U	1.72		0.00		0.00	1.72
11.11	ROU-Office Building R/Peo Main Bazar	0.00		0.00		0.00	0.00
11.12	Forest land on lease	4.06				0.00	
	Total:-11	425.74	12.49	2.82	3.62	6.44	428.12
12	Others:					0.00	
12.1	Investigation and Survey	2285.99	121.00	-5.31	44.20	38.89	2324.88
12.2	Consultancy Fees (General)	58.25	26.00	4.70	19.50	24.20	82.45
12.3	Processing Fee/EMD/Security			0.00		0.00	0.00
	Total:-12	2344.24	147.00	-0.61	63.70	63.09	2407.33
13	Mobilisation Advance:					0.00	
13.1	Against Civil Works		0.00	0.00		0.00	0.00
13.2	Against E&M		0.00	0.00		0.00	0.00
13.3	Others(Please Specify)		0.00	0.00		0.00	0.00
	Total:-13		0.00	0.00		0.00	0.00
14	Other Expenditure:					0.00	
14.1	Expenditure Allocation HO & CWP	6049.96	0.00	0.00		0.00	6049.96
14.2	Expenditure on Enabling Assets	51.23	0.00	0.00		0.00	51.23
	Total :- 14	6101.19	0.00	0.00		0.00	6101.19
	Grand Total 1 to 14	1,57,070.32	28,362.09	11,234.64	15,192.71	26,427.35	1,83,497.67
15	Other Income	-1791.62		-365.39	-152.43	-517.82	-2309.44
	Net Expenditure	155278.70		10869.25	15,040.28	25,909.53	181188.23

  
 Senior Finance Officer  
 Shongtong Karcham HEP,  
 HPPCL, Reckong Peo,  
 Distt. - Kinnaur (H.P.) 172107

  
 Dy Manager (E&A)  
 Shongtong Karcham HEP,  
 HPPCL, Reckong Peo,  
 Distt. - Kinnaur (H.P.) 172107



# हिमाचल प्रदेश पावर कॉर्पोरेशन लिमिटेड

(राज्य सरकार अधीनस्थ)

शौगटोंग-करच्छम (450 मे0 वा10) जल विद्युत परियोजना

रिकांग पिओ जिला किन्नौर (हि0 प्र0) -172107

फोन न0: 01786-223310, फैक्स न0- 223174

न0: शौ0क0/रा0एचपु0-सिरगोग्राफ/2021 1221-33

दिनांक:- 19/12/2022

सेवा में,

प्रधान,

ग्राम पंचायत मेबर, पोवारी, बारंग, ख्वागी व शुद्धारंग,

ते0 कल्या, जिला किन्नौर, हि0प्र0।

विषय:-

विस्फोट कम्पन और भूकम्प रिकॉर्डर (सिरगोग्राफ) के माह Nov 2022 के आंकडों के मूल्यांकन की सूचना।

के आंकडों के

महोदय/महोदया,

उपरोक्त विषय के संदर्भ में, आपको सूचित किया जाता है कि एच0पी0पी0सी0एल0 तथा परियोजना प्रभावित पंचायतों के साथ हुए समझौते के अनुसार उपरोक्त उपकरण को परियोजना प्रभावित पंचायतों ख्वागी, रल्ली, पोवारी और बारंग में अप्रैल 2014 तथा मेबर में नवम्बर 2014 एवं शुद्धारंग में नवम्बर 2016 को स्थापित किया गया है।

महा-निदेशक खान सुरक्षा (तकनीकी) के 1997 के सर्कुलर न0-7 के अनुसार विभिन्न प्रकार के ढांचों, सिरामे धरेलू मकान (कच्ची ईंटें/शीगैट) आदि हेतु विस्फोट कम्पन की उचित न्यूनतम सीमा 10 एम0 एम0/सेकण्ड है। उपरोक्त समय अवधि में विस्फोट कम्पन तथा भूकम्प रिकॉर्डर (सिस्मोग्राफ) के सभी आंकडे तय सीमा से नीचे पाये गये हैं।

परियोजना द्वारा महीने में जिरा तिथि/समय सबसे ज्यादा विस्फोटक की मात्रा इस्तेमाल की गई थी, केवल उन्ही तिथियों के आंकडों का मूल्यांकन किया गया है, तथा पाया गया है कि सभी आंकडे तय मानक से काफी नीचे हैं। अतः परियोजना द्वारा Nov 2022 तथा इससे पूर्व महीनों में विस्फोट करने से सम्बन्धित क्षेत्र में किसी भी प्रकार का नुकसान नहीं हो रहा है।

अतः Nov 2022 की कम्पन रिकॉर्डर के आंकडों के मूल्यांकन की विस्तृत रिपोर्ट आपको सूचना हेतु प्रेषित की जाती है।

धन्यवाद सहित।

संलग्न:- Nov 2022

के आंकडों की मूल्यांकन रिपोर्ट।

भवदीय,

वरिष्ठ-प्रबन्धक (आर0आर0),  
शौगटोंग-करच्छम एच0ई0पी0,  
एच0पी0पी0सी0एल0 रिकॉगपिओ,  
जिला किन्नौर (हि0प्र0)

प्रतिलिपि मूल्यांकन रिपोर्ट सहित निम्नलिखित को सूचना हेतु प्रेषित है:-

1. निदेशक (सिस्टम), हि0प्र0 ऊर्जा निगम सीमित, हिमफेंड भवन, बी0सी0एस0, न्यू शिमला-09।
2. उपायुक्त महोदय, किन्नौर स्थित रिकांग-पिओ, जिला किन्नौर हि0 प्र0।
3. महाप्रबन्धक, शौगटोंग-करच्छम एच0ई0पी0, एच0पी0पी0सी0एल0 रिकॉगपिओ, जिला किन्नौर, हि0 प्र0।
4. मुख्य सामाजिक एवं राहत व पुनर्वास विधेशक हि0प्र0 ऊर्जा निगम सीमित, हिमफेंड भवन, बी0सी0एस0, न्यू शिमला-09।
5. अध्यक्ष, जिला परिषद किन्नौर, हि0प्र0।
6. उप महा-प्रबन्धक (आर0एण्ड0आर0) शौगटोंग-करच्छम एच0ई0पी0, एच0पी0पी0सी0एल0 रिकॉगपिओ।
7. सदस्य, सचिव लाडा, जिला किन्नौर स्थित रिकांग पिओ।
8. आयुद्ध भण्डार, सी/ओ 56 ए0पी0ओ0, पोवारी, ते0 कल्या, जिला किन्नौर हि0प्र0।

Detail of data evaluated, recorded on Seismograph, for the month of November-2022, installed at Project affected Panchayats.

Location of Seismograph	Component	Location/ R.D	Date Of blast	Time of blast	Qty of explosive (Kg)	Delay Used	Depth & Dia. of Hole	Observed Peak Particle Velocity (mm/s)	Direction of maximum value of PPV	Frequency
Powari & Khawangi	Feeder Tunnel Gate Gallery	343.00	07.11.2022	5:30 PM	195	1 to 10	3.5m - 450	0.026	V	18.04,18.04,24.08
		369	28.11.2022	3:00 PM	195	1 to 10	3.5m - 450	0.007	E	4.66,4.52,4.66
	Chamber 1 (Benching)	159.00	03.11.2022	1:00 PM	24	1 to 10	3.5m - 450	0.037	N	18.07,18.07,18.12
		166.00	04.11.2022	6:55 PM	24	1 to 10	3.5m - 450	0.042	N	13.6,0.01,0.01
		228.50	21.11.2022	5:40 PM	24	1 to 10	3.5m - 450	0.004	N	0.01,7.93,0.01
	Chamber 2 (Benching)	6.00	03.11.2022	5:40 PM	25	1 to 10	3.5m - 450	0.033	E	12.69,12.9,0.01
		20.00	06.11.2022	4:10 PM	25	1 to 10	3.5m - 450	0.042	E	0.01,0.01,24.01
		37.00	10.11.2022	7:10 PM	25	1 to 10	3.5m - 450	0.036	E	13.86,15.09,0
	Chamber 3 (Benching)	43.00	11.11.2022	7:10 PM	26	1 to 10	3.5m - 450	0.026	N	0.13,54,18.32
		49.00	12.11.2022	6:50 PM	25	1 to 10	3.5m - 450	0.036	V	0.01,0.01,18.14
		175.00	05.11.2022	4:50 PM	26	1 to 10	3.5m - 450	0.028	E	0.01,18.08,18.08
	Chamber 4 (Benching)	181.00	06.11.2022	4:45 PM	26	1 to 10	3.5m - 450	0.026	N	0.01,0.01,24.12
		187.00	07.11.2022	6:50 PM	27	1 to 10	3.5m - 450	0.039	E	0.01,18.05,17.91
		151.00	02.11.2022	5:20 PM	26	1 to 10	3.5m - 450	0.041	V	0.01,0.01,0
	Chamber 4 (Benching)	157.00	03.11.2022	1:10 PM	27	1 to 10	3.5m - 450	0.046	E	24.08,0.01,24.08
		163.00	04.11.2022	5:50 PM	26	1 to 10	3.5m - 450	0.039	E	14.74,0.01,0.01
		182.00	07.11.2022	7:00 PM	26	1 to 10	3.5m - 450	0.033	N	0.01,0.01,0.01
		193.00	09.11.2022	5:35 PM	26	1 to 10	3.5m - 450	0.005	N	6.71,4.74,4.19
		194.00	11.11.2022	5:40 PM	27	1 to 10	3.5m - 450	0.201	V	24.09,11.68,24.09
			241.00	20.11.2022	4:35 PM	26	1 to 10	3.5m - 450	0.003	N

Barang	Face II	1981.50	06.11.2022	5:30 PM	300	1 to 10	3.5m - 450	0.018	V	0.01, 0.01, 49
		2004.00	27.11.2022	6:00 PM	285	1 to 10	3.5m - 450	0.005	N	49, 49, 49
	Face III	1742.50	04.11.2022	11:00 PM	300	1 to 10	3.5m - 450	0.034	E	49, 0.01, 49
		1744.50	06.11.2022	7:00 PM	290	1 to 10	3.5m - 450	0.011	E	49, 16, 69, 49
	Face IV (Benching)	1384.00	02.11.2022	2:30 PM	100	1 to 10	3.5m - 450	0.020	E	0.01, 6, 33, 6, 36
		1388.00	03.11.2022	5:30 PM	100	1 to 10	3.5m - 450	0.032	E	0, 1, 0, 02, 40
		22.50	05.11.2022	11:30 PM	275	1 to 10	3.5m - 450	0.003	N	49, 49, 49
		23.20	09.11.2022	11:45 PM	300	1 to 10	3.5m - 450	0.003	N	49, 0.01, 46, 88
	Branch URT-II	25.00	11.11.2022	12:00 PM	275	1 to 10	3.5m - 450	0.012	V	49, 0.01, 0.01
		26.69	12.11.2022	6:20 AM	250	1 to 10	3.5m - 450	0.013	N	0.01, 4, 39, 0.01

Permissible Safe value of peak particle velocity - 10mm/s.

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