

No. FCA-1/Kinnairt/8840
H.P. Forest Department
Dated Raipur, the 21-3-2020
To :- DFO, Kinnairt at Raipur

Subject :-

Division of 73722 has of Additional Forest land in favour of Kinnairt H.P. 450 MW due enhancement in the existing capacity of Kinnairt H.P. 450 MW and due to change in the river course during flood and usage of already diverted dumping site used by BRO within the jurisdiction of Kinnairt Forest Division District Kinnairt, H.P.

Memorandum

Please refer to your office Memo No. 1864 dated 29.07.2020 on the subject cited above.

From the perusal of reply observations as received vide letter under reference, it is observed that same has been prepared in hasty and slip shod manner as the following shortcomings/discrepancies has been noticed :-

1) The check list No. 4 & 10 placed in the proposal folder has not been revised as per the observations raised vide this office letter No. 7601 dated 03.3.2020.

2) The reply to the observation raised at point (v) vide this office letter No. 7601 dated 03.3.2020 has not been amended. The consequence of the Army Authorities has not been placed in the proposal folder.

3) The Check list No. 11 placed in the proposal folder has not been revised as per the observations raised vide this office letter No. 7601 dated 03.3.2020.

4) Reply to the observation No. XVI is not satisfactory. In this regard you are directed to send your independent report by making the spot visit. You have only submitted the hard copies to this office, but the entire question has not been transferred on the MAFS web portal, despite of several discussions.

5) The reply to the observation No. 11 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

6) The reply to the observation No. 12 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

7) The reply to the observation No. 13 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

8) The reply to the observation No. 14 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

9) The reply to the observation No. 15 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

10) The reply to the observation No. 16 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

11) The reply to the observation No. 17 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

12) The reply to the observation No. 18 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

13) The reply to the observation No. 19 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

14) The reply to the observation No. 20 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

15) The reply to the observation No. 21 dated 03.3.2020 is not satisfactory. You are directed to attend the observations and ensure that proper wise reply to the observations be deposited in covering letter. The proposal folder is returned to you for being rechecked.

No.

H.P. Forest Department

Dated Rekong Peo, the, 26th May 2020

To:-CCF (T) Rampur.

From: DFO Kinnaur.

Subject -

Diversions of 7.3722 hectare of additional forest land in favour of Himachal Pradesh Power Corporation Ltd. for the construction of Shongtong Karcham HEP 450 MW due to enhancement in the existing capacity of HEP 402 to 450 MW and due to change in the river course during flood and usage of already diverted dumping site used by BRO within the jurisdiction of Kinnaur Forest Division District Kinnaur H.P.

Memo;

Kindly refer to your Office letter No. 7601 Dated Rampur, the 5.3.2020 on the subject cited above.

After attending the observations, raised vide above referred letter, the complete reply of the observations are shown at page-122 to 125 of proposal folder this is for your kind information and further necessary action at your end please.

Encl: - As above.

Divisional Forest Officer,
Kinnaur Forest Division at
Rekong Peo (H.P.) 172107

Dated R/Peo, the

28th May 2020

Encl. No.

1885

Copy is forwarded to:

General Manager, Shongtong-Karcham HEP 450 MW District Kinnaur H.P.
for information and similar necessary action.

Divisional Forest Officer,
Kinnaur Forest Division at
Rekong Peo (H.P.) 172107

No. 7601
H.P. Forest Department

Dated Rampur, the 5-3-2020

From: - C.F. Rampur.

Subject: -

Diversion of 7.3722 hac. of additional forest land in favour of Himachal Pradesh Power Corporation Ltd. for the construction of Shongtong Karat HEP 450 MW due to change in the existing capacity of HEP 402 to MW and due to change in the river course during flood and usage of already diverted dumping site used by BRO within the jurisdiction of Kinnaur Forest Division, District Kinnaur, H.P. has been scrutinized in this office and it is observed that same has been submitted in hasty and slip show manner without examining the two alternatives routes/sites feasibility as warranted by the Law and FCA Guidelines/Rules. The following shortcomings/observations have been noticed:-

Memo:

Please refer to your office letter No. 7855 dated 26.02.2020 on the subject cited above.

2. The case for the diversion 7.3722 hac. of additional forest land in favour of Himachal Pradesh Power Corporation Ltd. for the construction of Shongtong Karat HEP 450 MW due to enhancement in the existing capacity of HEP 402 to 450 MW and due to change in the river course during flood and usage of already diverted dumping site used by BRO within the jurisdiction of Kinnaur Forest Division, District Kinnaur, H.P. has been scrutinized in this office and it is observed that same has been submitted in hasty and slip show manner without examining the two alternatives routes/sites feasibility as warranted by the Law and FCA Guidelines/Rules. The following shortcomings/observations have been noticed:-

i) No. date and place has been mentioned in the all check list placed in the proposal folders by the User Agency as well as by DFO.

ii) Name of the areas proposed for diversion with legal status has not been mentioned in the column No. V of Part-II, which be done now. The

compartment Nos may also be given.

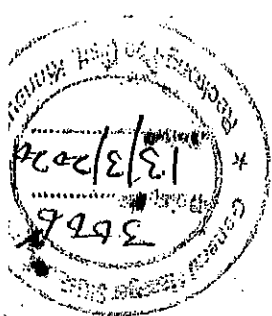
iii) Check list No. 4 & 10 placed in the proposal folders are not adequate. These should be prepared by giving justification/ complete details of area and Nos of trees involved in the alternatives examined and reasons for their rejections/ acceptance showing on map. Reference of previously diverted land by Govt may also be given in the check lists No.4.

iv) Locations maps of already diverted land and additional land proposed for diversion both be prepared by showing all components of the projects in distinct colour and place in the proposal folders.

v) The user agency has proposed 1.44-70 hac area in Khasra Nos 561/1, 568 & 569 for muck dumping adjacent to the existing dumping area No.3 on right bank of river Satluj near Shongtong Bridge, which has been already banned by the Hon'ble High Court in CWP No. 1667/2013 in order dated 28.05.2015 and falls within 1200 yards. Hence, consent/ NoC of the Army Authorities is mandatory and be placed in the proposal folder.

SM (Envy) / 30 (4-8-20)
For M.A. Pleak
12/12/20
13/3/2020
13/3/2020

To: - DFO, Kinnaur at R/Peo.



Sr. No.	Name of Forest compartment	Species names (Local)	Botanical Name	Girth in c.m. (trees)	More than 90
				0-10	
				10-20	
				20-30	
				30-40	
				40-50	
				50-60	
				60-70	
				70-80	
				80-90	
			Total		

abulated as under:-

proposals folders with the FRA proceeding, which be done now. Check list No.15 regarding species wise and girth class wise enumeration and abstract of trees on the forest area has not been prepared as per guidelines of the MoEF. As such the same may be prepared on the for

alternatives examined and reasons for their rejections/acceptance. The Gram Sabha's consent and FRCs of Shudharang area 1-44-70 hac, Usarai Barang area 0-29-60 hac, and Tangling Powari have not been placed in the file with the FRA proceedings, which be done now.

activity. Please clarify to the user agency is to be surrendered or otherwise. Check list No.1 placed in the proposal folder is not adequate. This should be prepared by giving complete detail of area and Nos of trees involved in the project and reasons for their rejections/acceptance.

the User Agency has proposed 0-13-60 ha. of forest land in Khasra No.810/2 for the purpose of approach road to River Bound Material (RBM) site at Powari left bank of Salju river, which is Govt. land and falls within the definition of forest land. It should have been diverted for mining under FCA 1980 or otherwise. Khasra No. 810/2 has already been diverted for the purpose for surface activity. Please clarify to this office whether the already diverted area for the User Agency is to be surrendered or otherwise.

The User Agency has proposed 0.56-36 hac of forest land in Khasra No.854/823/1 for the purpose of intake tunnels and diversion tunnel and its working areas in between existing road and vertical cliff. The area be shown component wise alongwith extent of area. An area of 0.49-17 hac has already been diverted for intake tunnel/diversion tunnel. Please clarify to this office whether the already diverted area for the purpose is being used by the User Agency is to be surrendered or otherwise.

by the User Agency is to be surrendered or otherwise. User Agency has proposed 0.15-73 hac area in Khasra No. 1/1 as Gar
nk in Dariya, wherein crematorium has already been established, which have
n shown in Jamabandi. Hence this land cannot be diverted for the purpose as

ing/job facility area be shown separately.
User Agency has proposed 0-15-73 hac area in Khastara No.1/1, 0-35-86 hac, Khastara No. 838/1, 0-02-00 hac and 034-36 in Khastara No.840/1 for silt
ing Tunnel's outlet portal and approach road to portal & its working area.
area be bi-furcated component wise alongwith extent of area. An area of
R has already been diverted for silt flushing Tunnel. Please clarify to
office in detail whether the already diverted area for the purpose is being
Agency is to be surrendered or otherwise.

Use Agency has proposed 0-58-83 hac area in Kh. No.21/1 for the purpose of portal on left bank of river Salu including its working areas. The

[illegible]

xiv) The check list No. 17, 18 & 20 placed in the proposal folders have not been marked as per the MoEF check list.

xv) Dumping Management Plan be prepared by taking swelling factor @45% as per the guidelines of MoEF and placed in the proposal folder The detailed Reclamation Plan should be realistic exhaustive and complete in all respect alongwith relevant maps distinct colours. It should also include the detail of design of structure, back fillings, afforestation and be placed in the proposal folders.

xvi) The use of already diverted dumping site by the BROs is illegal and intimate what action has been taken against them. The extent of area and Kh. Nos be also intimate.

xvii) Certificate to the effect that land which is to be surrendered by the User Agency has actually been utilized till date or not and the land is under the possession of Forest Department be furnished and NPV will be revised accordingly (by adjustment of already paid amount) and placed in the proposal folders.

xviii) After necessary correction in the revenue papers check list No. 7 & 8 be prepared afresh accordingly. Similarly joint inspection report, DFO Site Inspector Report, NPV and CA be prepared accordingly and placed in the proposal folders.

Besides this the following shortcomings have been noticed in the revenue

papers:-

i) खसरा नो 838/1 का रकबा भूगोलिक तलीमा के 0-02-00 बनवा है परन्तु जो क्षेत्र लिस्ट -7 में उक्त खसरा नम्बर का रकबा लिखा है। वह 0-35-86 है 0 वह गलत लिखा है।

ii) खसरा नो 1/1 तलीमा किन्हे बूक में गैर भूमिकन दरिया लिखा गया है परन्तु नकर जमाबंदी में खसरा नो 1/1 में गैर भूमिकन भूमिमान घाट दर्ज है और जमाबंदी में भूगोलिक बूक लिस्ट 7 का रकबा आपस में मेल नहीं खा रहा है।

iii) खसरा न 1/1 जो तलीमा काटा गया है वह पुरा नम्बर भी साविक नहीं बनाया गया है अब अगर गैर भूमिकन दरिया है तो तलीमा अवस शानरा में इसकी चौड़ाई किनारी है और न ही दरिया की बहार वाली लाइन नहीं दिखाई गई है जिससे यह जाहीर हो कि वह यह गैर भूमिकन दरिया है स्पष्ट करें।

iv) महान पोवारी के खसरा नो 810/1 रकबा नंदादी 0-42-61 है 0 पुरानी काईल में सु-अवर्न किया गया था परन्तु अब नई काईल में खसरा नो 810/2 को approach road के लिए अवस तलीमा में दिखाया गया है। जिसका रकबा 0-13-60 है 0 लिख गया है, और खसरा नो 810/1 व 810/3 को नई काईल में बदलकर रकबा लिखा गट है परन्तु पुरानी काईल के भूगोलिक बूक लिस्ट 7 में खसरा नो 810 रकबा नंदादी 1-54-66 है 0 को पुरा लिया गया था। अब पहले खसरा नो 810 को पुरा ही रकब surrendered किया जावे तथा बाद में इसकी द्वारा से इसकी proposal file तैयार की जावे।

V) खसरा नं 3/2 घाटल मुखिया से आता है परन्तु बैंक लिस्ट 7 में कल्या बारांग लिखा गया है जो गलत है तथा अक्स तलीमा में जो फाल्ड बुक बनाई गई है उसमें खसरा नं 0

3/2 की किस (Status) नहीं लिखा गया है स्पष्ट करें।

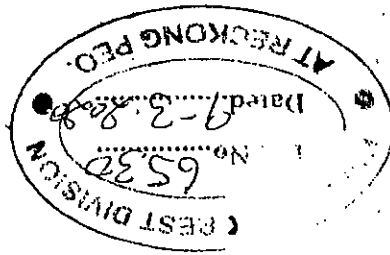
VI) मुखिया फाईल के मुताबिक जा रतवा प्रोब्लम को भीमनात कार्ड के लिये जो लिया गया था उसमें खसरा नं 0 बारा नहीं लिया गया है अब इसमें खसरा नं 0 आया तलीमा व बैंक

लिस्ट 7 में भी खसरा नं 0 दिखाया जाये।

The proposal folder in original is returned herewith after retaining one copy in

this for record.

Encl: - As above (3 Nos Proposal)



Enclt. No. 39/0

Dated 18/8/92

Conservator of Forests, H.P.
Rampur Forest Circle, H.P.
5/3/2002

Copy forwarded to G.M, H.P.C. H.L.

Reckong P.O. for favour of information and necessary action. You are requested to go through the contents of letter which is the returned by letter G.F.T. Rampur and need full of scrutiny. Observations have been noticed may be supply to this office immediately one

O.F.O. Rampur

Acknowledgement Slip

This is to certify that hard copy of the proposal seeking prior approval of Central Government under the Forest (Conservation) Act 1980, as per details given below, along with all necessary enclosures has been received in the Office of the Himachal Pradesh on 13/11/2019.

1. Proposal No. : FP/HP/HYD/40611/2019
 2. Proposal Name : Shongtong Karcham HBP 450 MW

3. Category of the Proposal : Hydel

4. Date of Submission : 13/11/2019

5. Name of the User Agency with Contact Details

Name : Naveen
 Mobile No. : 9418938507
 State : Himachal Pradesh
 District : Kinnaur
 Pincode : 172107
 6. Area Applied (ha.) : 7.3722

Sd. Manager (F.P.)
 State, Himachal Pradesh HBP,
 Kinnaur Forest Division,
 Date, Kinnaur H.P., 172107

Divisional Forest Office
 Kinnaur Forest Division,
 At Reckong Pochi

Received on
 15-11-2019

Acknowledgement Slip

This is to certify that hard copy of the proposal seeking prior approval of Central Government under the Forest (Conservation) Act 1980, as per details given below, along with all necessary enclosures has been received in the Office of the Himachal Pradesh on 13/11/2019.

1. Proposal No. : FP/HP/HYD/40611/2019
 2. Proposal Name : Shongtong Karcham HEP 450 MW

3. Category of the Proposal : Hydel

4. Date of Submission : 13/11/2019

5. Name of the User Agency with Contact Details

Name : Naveen
 Mobile No. : 9418938507
 State : Himachal Pradesh
 District : Kinnaur
 Pincode : 172107
 6. Area Applied (ha.) : 7.3722

(System Administrator) *** This is a system generated email, please do not reply. ***

St. Manager (R&R)
 Shongtong Karcham HEP,
 Himachal Pradesh, Kinnaur H.P., 172107

Divisional Forest Office
 Kinnaur Forest Division,
 At Reckong Poo, Kinnaur H.P.

Received on 15-11-2019

Acknowledgement Slip

This is to certify that hard copy of the proposal seeking prior approval of Central Government under the forest (Conservation) Act 1980, as per details given below, along with all necessary enclosures has been received in the Office of District Collector/ Divisional Forest Officer of the Himachal Pradesh.

1. Proposal No. : FP/HP/HYD/40611/2019
2. Proposal Name : Shongtong Karcham HEP 450MW.
3. Category of the Proposal : Hydel
4. Date of Submission : 13/11/2019
5. Name of the User Agency with Contact Details : Naveen : 9418938507 : Himachal Pradesh : Kinnaur : Pincode : 172107 : 6. Area Applied(ha.) : 7.3722

(System Administrator)

This is a system generated email, please do not reply.

Divisional Forest Officer,
Kinnaur Forest Division
at Reckong Peo (H.P.)

COLLECTOR
KINNAUR DISTRICT
AT RECKONG PEO

Acknowledgement Slip

This is to certify that hard copy of the proposal seeking prior approval of Central Government under the forest (Conservation) Act 1980, as per details given below, along with all necessary enclosures has been received in the Office of District Collector/ Divisional Forest Officer of the Himachal Pradesh.

1. Proposal No. : FP/HP/HYD/40611/2019
2. Proposal Name : Shongtong Karcham HEP 450MW.
3. Category of the Proposal : Hydel
4. Date of Submission : 13/11/2019
5. Name of the User Agency with Contact Details

Name : Naveen
 Mobile No. : 9418938507
 State : Himachal Pradesh
 District : Kinnaur
 Pincode : 172107
 6. Area Applied (ha.) : 7.3722

(System Administrator)

This is a system generated email, please do not reply.

Divisional Forest Officer,
 Kinnaur Forest Division
 at Reckong Peo (H.P.)

COLLECTOR
 KINNAUR DISTRICT
 AT RECKONG PEO

Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)
Office of the General Manager

Shongtong-Karchham Hydro Electric Project

Reckong-Peo, Distt. Kinnaur (H.P.), Phone: - 01786-223310, Fax:-01786- 223174

No. HPPCL/GM-STKHEP/AFL/2019-6514-16

DATED: - 15/1/2020

To

The Divisional Forest Officer,
Kinnaur Forest Division,
at Reckong-Peo

Distt. Kinnaur (HP.)

Subject: - Proposal for diversion of Additional Forest land area measuring 7.2237 ha.
In favour of Shongtong Karchham HEP in Distt. Kinnaur (HP)

Sir,

The Shongtong Karchham Hydro Electric Project (450 MW) has been allotted to the Himachal Pradesh Power Corporation Ltd. which is a joint venture of Govt. of Himachal Pradesh and Himachal Pradesh State Electricity Board Ltd. This division has been entrusted to prepare/divert the additional Forest land case of the project. The components of the aforesaid project are coming in the jurisdictions of Forest Block Kalpa under Forest Range Kalpa of your Forest Division. All the documents required for the proposal of forest land diversion as per the check list issued by the State Forest Department are hereby being submitted. After examination and found complete in all respect by the Nodal Officer, PCCF, Forest Conservation Act 1980, Govt. of Himachal Pradesh. Kindly forward the proposal as early as possible, for diversion of forest land please.

Thanking You

Yours faithfully,

St. Manager

Shongtong-Karchham HEP,
HPPCL Reckong Peo (H.P.).

DA: - As above

Copy to:-

1. The Deputy Commissioner, Kinnaur at Reckong Peo, alongwith Copy of Proposal with its enclosures for kind information please.
- 2 The CES, HPPCL, Himfied building, BCS, New Shimla -09, (H.P.) for information please.

Himachal Pradesh Power Corporation Limited

(A State Government Undertaking)

Office of the General Manager

Shongtong-Karchham Hydro Electric Project

Reckong-Peo, Distt. Kinnaur (H.P.), -172107, Phone: - 01786-223310, Fax: -01786-223174

NO: - GM-STKHHP/HPPCL(AFL)/03/2019:- 5075-76

Dated:-

8/11/2019

To

The Divisional Forest Officer,
Kinnaur Forest Division,
at Reckong-Peo
Distt. Kinnaur, (H.P.).

Subject:-

Proposal of Diversion of Addl. forest land in respect of Shongtong-Karchham
Hydro Electric Project (450MW) in Kalpa Tehsil, Distt. Kinnaur, Himachal
Pradesh-

Sir,

The Shongtong-Karchham Hydro Electric Project 450 MW has been allotted to the
Himachal Power Corporation Ltd. which is a joint venture of Govt. of Himachal Pradesh and Himachal Pradesh
State Electricity Board. This diversion is entrusted to prepare the addl. Forest Clearance case of the project. The
components of the aforesaid project are coming in the jurisdictions of Forest Block Kalpa, Forest Range Kalpa of
your Forest Division. All the documents required for the proposal of forest and land diversion as per the check list
issued by the State Forest Department are hereby submitted. Kindly forward the proposal as early as possible for
necessary action

Thanking You

Yours faithfully,

St. Manager (K.A.R.P.)
Shongtong Karchham HEP, IED,
HPPCL-Reckong-Peo (H.P.),
Distt. Kinnaur H.P., 172107

D/A:- As above

Copy to:-

The CES, HPPCL, Himtd building, BCS, New Shimla-09, (H.P.) for information please

CHECK LIST **PROPOSAL FOR DIVERSION OF FOREST LAND FOR NON-FORESTRY USE UNDER FOREST (CONSERVATION) ACT, 1980**

Sr. No.	Name of the Document (s)	Provided or not.	If not provided Why?	Page number
1.	Check list of the project proposal	Yes		1-4
2.	Demand letter of the project authority/ application. If submitted.	Yes		5
3.	Main application Form Part-I to V as prescribed in the rules under Forest (Conservation) Act, 1980. with all its columns duly filled up and signed by the competent authorities with date, place and their official seal. All the information of Part-I of the Form A including item-wise Breakup of the forest area required must be given in the Form itself by expending the columns.	Yes		6-21
4.	Detail note on the project. It must include the information regarding the number of village and number of persons to be benefited from the project including employment generation.	Yes		22-26
5.	Map of the project site / forest area demanded clearly showing forest boundaries and adjoining areas with their land use in district colours in 1:50000 or any other suitable scale on original Survey of India toposheet. If the area is very small, in addition to above, an index map may be submitted showing forest (boundaries and a location map on a larger scale with land use of the area required duly signed by DFO and CF concerned.	Yes		27
6.	Lay-out plan of project site. In case of linear diversions of forest land, linear map or a diagrammatic map of the project site. If it is not a linear diversion. Should be enclosed.	Yes		28
7.	Statement showing the details of forest area involved i.e. Survey No./ Coupe No./ Compartment No. etc. and item-wise breakup of the forest area proposed for diversion duly signed by DFO	Yes		29-30
8.	Statement giving the details of non-forest area involved in the proposal.	No		-
9.	Certificate from the Collector Deputy Commissioner that no alternative suitable non-forest land is available for the project in question.	Yes		31
10.	Justification for locating the project in forest area to be submitted by User agency and countersigned by DFO.	Yes		32
11.	Certificate for minimum use of forest land to be submitted by User Agency, giving details of area and trees involved in the alternatives examined and reasons for their rejection duly countersigned by DFO.	Yes		33

12	Undertaking by User Agency to bear the cost of compensatory afforestation duly counter-signed by the DFO.	Yes	34		
13.	Undertaking by User Agency to play the Net Present Value (NPV) of the forest land involved duly counter-signed by the DFO.	Yes	35		
14	A certificate from the competent authority in the State in the prescribed (vide MOEF letter No. 11-9/98-FC (pt.) dated 5th July 2013) format that all forest rights under the Forest Rights Act, 2006 have been settled in respect of the forest area proposed for diversion, wherever applicable. In case, the process for settlement of rights under FRA has not been initiated, grant of stage-I approval under the FCA to the proposal will be considered only if a certificate from the competent authority concerned, clearly stating that the process for settlement of rights under the FRA has not been initiated along with evidences supporting that settlement of rights under the FRA will be initiated and completed before the final approval, is enclosed with the proposal (vide F. No. 11-179/2012-FC Dated: December 20, 2013).	Yes	36-40		
15	Species-wise Girth class-wise enumeration list and abstract of trees (abstract to be given at the end of the list) standing on the forest area in question pearly typed or computerized and duly signed by DFO.	Yes	41-44		
16.	Site inspection report of the forest area involved in the project proposed by concerned DFO or higher level Forest Officer in prescribed format.	Yes	45		
17	Details of non-forest land/ degraded forest area identified for compensatory afforestation viz. Survey No. / Compartment No. Village Tehsil. District etc. along with map in appropriate scale showing the boundaries of adjoining forest areas with their land use in district colours.	No	-		
18	Detailed scheme for compensatory afforestation on identified non-forest area/ degraded forest area at prevalent wage rates duly signed by DFO and counter-signed by the CF concerned. The CA scheme must include all the technical details, details of work schedule total financial outlay and proposed monitoring mechanism.	No.	-		
19.	Certificate from the DFO, that non-forest land selected for compensatory afforestation is in a compact block and contiguous to forest area or in close proximity of forest area and suitable from the management and protection point of view.	No	-		

20	Suitability certificate from Divisional Forest Officer that the area identified for compensatory afforestation is suitable for raising plantation.	Yes	46-56
21	Certificate from the Chief Secretary, regarding non-availability of non-forest land in the State for raising compensatory afforestation wherever applicable. the this certificate will be based on the certificate signed by DFO and Deputy Commissioner/ Collector of the district concerned about non-availability of such non forest land	Yes	52
22	In case of proposal which requires entry/ exit through Protected Forest Strips along/ Road/ Railway line/ Transmission line, the following information / documents must be given:- a. No. Objection Certificate From land owning agency. i.e. NHAI/ PWD, Railway or Canal/ Irrigation Departments. b. Change of Land Use certificate from town and Country planning/ any other competent authority	No.	-
23	For the projects involving forest land for construction of buildings/right of way for buildings, the built-up area, details of DG sets to be installed, and raw materials to be used (in case of industries) should be clearly mentioned.	No.	-
24	Status of clearance under Environment Protection Act 1986, wherever required	Yes	58-63
25	NOC of the State Pollution Control Board for establishment of the project, wherever required	Yes	64-66
26	Detail scheme for rehabilitation of project affected persons, wherever required.	No.	Being case for Forest land R&R Diversion of Addl. plan is already being implemented in the project
27	Detail catchment Area Treatment Plan, wherever required. The CAT Plan should be prepared on the basis of actual survey of area and its classification in various categories requiring different engineering/ Afforestation and other treatment in phase manner execution of such work, wherever required	Yes	Being case for Forest land CAT Diversion of Addl. plan is already being implemented in the project since no changed in Catchment area is involved
28	Detail Reclamation Plan, wherever required. It should be realistic exhaustive and complete in all respects along with relevant maps in distinct colours, it should also include the details of back filling afforestation and execution of such works, wherever required.	Yes	Being case for Forest land EMP Diversion of Addl. plan is already being implemented in the project
29	Costs benefit analysis as per the guidelines issued under Forest (Conservation) Act, 1980 in prescribed format, wherever required.	Yes	72-75
30	Any other information/documents necessary for giving clarifications on the project may be specified and attached..		

Date :- 18/02/2020
Place :- R.P.P.

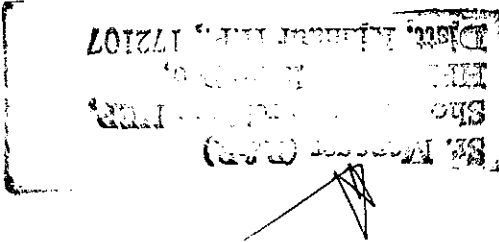
Countersigned by:-

Nodal Officer (FC)

Government of

Office seal.

Divisional Forests Officer,
Forest Division,
Office Seal



31 The following information/document must be given :- a) Component-wise total area requirement b) Copy of Memorandum of Understanding d) Copy of Implementation Agreement Already provided. Being HP Govt. Undertaking MoU & IA is not required although Copy of allotment letter is attached	II Documents/Information Required for Proposals for Hydro Electric Projects
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1. Project allotment document by Govt. of HP to the HPPCL. 2. Copy of Forest Clearance from MOEFCC for the construction of STKHEP 402 MW. 3. Certificate Providing details of Villages benefited by this Project as desired by Nodal Officer. 4. Reply/ Compliance to the observation made by the nodal officer. 5. Copy of Techno-Economic Clearance. 6. NOC from various departments i.e Irrigation and Fisheries. 7. Authorization letter. 8. Inescapability Certificate from DC 9. Revenue papers of Proposed Addl. land. 10. Digital land use Maps of Proposed areas Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes 76 80 81-83 84-87 87-93 94 95 96-100 101	11. Reply to the observation raised by HP on 13.3.20
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FORM - A

Form for seeking prior approval of Central Government under section 2 of the Forest(Conservation) Act, 1980 for Diversion of fresh forest area

PART - I

(To be filled up by User Agency)

A. General Details

A-1. Project Details

(i). Proposal No. : FP/HP/HYD/40611/2019

(ii). Name of Project for which Forest Land is required : Shongtong Karcham HEP 450 MW

(iii). Short narrative of the proposal and Project/scheme for which the forest land is required : due to enhancement in the existing capacity of HEP 402 to 450 MW due to change in the river course during flood and also usage of already diverted dumping site used by BRO and restriction impose by the Army Authorities for construction activities with in the boundary of 1200 yards.

(iv). State : Himachal Pradesh

(v). Category of the Project : Hydel

(vi). Shape of forest land proposed to be diverted : Non Linear

(vii). Estimated cost of the Project(Rupees in lacs) : 280783

(viii). Total Area of Forest Land proposed for diversion(in ha.): 7.3722

(ix). Non-Forest Land required for this project(in ha.): 0

(x). Total period for which the forest land is proposed to be diverted(in years): 40

A-2. Details of User Agency

(i). Name : SHONGTONG KARCHHAM HYDRO ELECTRIC PROJECT, HPPCL

(ii). Address : Shongtong Karchham HEP, HPPCL, Reckong peo, Distt. Kinnaur

(iii). Address2 : NIL

(iv). State : Himachal Pradesh

(v). District : Kinnaur

(vi). Pin : 172107

(vii). Landmark : NIL

(viii). Email address : skhep.hppcl@gmail.com

(ix). Landline Telephone No. : 1786-223310

A-3. Details of Person Making Application

(xiii). Legal status of User Agency : State PSU

(xii). Website (if any) : NIL

(xi). Mobile No. : 9625642686

(x). Fax No. : 1786-

(i). First Name: Naveen

(ii). Middle Name: NIL

(iii). Last Name: Sharma

(iv). Gender: Male

(v). Designation: Senior Manager

(vi). Address 1: STKHIEP, HPPCL, Reckong Peo Distt. Kinnaur Himachal Pradesh

(vii). Address 2: Near DC Office

(viii). State: Himachal Pradesh

(ix). District: Kinnaur

(x). Tehsil: Kalpa

(xi). Pin: 172107

(xii). Landmark: Near DC Office

(xiii). Email Address: nogs_gill@yahoo.com

(xiv). Landline Telephone No.: 1786-223310

(xv). Fax No.: 01786223174

(xvi). Mobile No.: 9418938507

(xvii). Copy of documents in support of the competence/authority of the person making this application to make application on behalf of the User Agency:

B. Details of land required for the Project

B-1. Details of proposal seeking prior approval of Central Government under the Act, or diversion of forest land for the Project already submitted in the past

List of proposal submitted in Past					
S.no	Proposal	Proposal	Moef	Area Proposed	Area
Date of					

Details of Divisions involved			
S.no	Division Name	Forest Land(ha.)	Non-Forest Land(ha.)
1.	Khinaur	7.3722	9

District wise breakup			
S.no	District Name	Forest Land(ha.)	Non-Forest Land(ha.)
1.	Kinnaur	7.3722	0

Villages wise breakup		
S.no	Village	Forest Land(ha.)
1	Barang	0.295
2	Powah	0.6995
3	Tangling	4.9296
4	Shudharang	1.447
	Non-Forest Land(ha.)	0

S.no	Component	Forest Land(ha.)	Non-forest Land(ha.)
1	Dumping site No 3	1,447	0
2	Road to RBM Site	0.136	0
3	Intake Tunnel	0.5636	0
4	Adit-I	0.5883	0
5	DS Near Adit-I	2.3813	0
6	DS Adit -I	1.1305	0
7	SFT	0.8595	0
8	DS Adit II	0.296	0

Patch wise details	
Patch No.	Area of Patch(In ha.)
1.	1.447
View File	

2.	0.136		View File
3.	0.5636		View File
4.	0.5883		View File
5.	2.3813		View File
6.	1.1005		View File
7.	0.8595		View File
8.	0.296		View File

(iii). Copy of Survey of India Toposheet indicating boundary of forest land proposed to be diverted: 

(iv). Scanned copy of the Geo-referenced map of the forest land proposed to be diverted prepared by using GPS or Total Station: 

D. Justification for locating the Project in forest land and details of alternatives examined:

- (i). Copy of note containing justification for locating the Project in forest land: 

E. Employment likely to be generated

- (i). Whether the Project is likely to generate employment? : Yes

- (ii). Permanent/Regular Employment(Number of persons): 25

- (iii). Temporary Employment(Number of person-days): 3000

F. Displacement of People due to the Project, if any

- (i). Whether Project involves displacement?: No

G. Details of Cost-Benefit analysis for the Project

- (i). Whether the Project requires Cost-Benefit analysis?: Yes

- (a). Copy of Cost-Benefit analysis: 

H. Status of Environmental Clearance

- (i). Whether the Project requires Clearance under the Environment (Protection) Act 1986? : Yes

- (a). Status of the Environmental Clearance to the Project: EC obtained

- (b). Environmental Clearance File No.: J-12011/58/2007-IA-I

- (c). Copy of Environmental Clearance to the Project: 

- (d). Date of grant of Environmental Clearance to the Project: NIL

I. Status of Wildlife Clearance

- J. Applicability of special provisions governing Scheduled Areas
- (i). Whether the Project or a part thereof is located in any Protected Area or their Eco sensitive zone? : No

K. Status of settlement of rights under the Forest Rights Act, 2006 on the forest land proposed to be diverted

- (i). Whether the process for settlement of Rights under the Forest Rights Acts 2006 on the forest land proposed to be diverted has been completed? : Yes

- (a). Copy of documentary evidence in support of settlement of rights under the Forest Rights Act, 2006 on the forest land proposed to be diverted:

L. Details of land identified for Compensatory Afforestation

- (i). Whether non-forest or Revenue forest land is required to be provided by User Agency? : No
- (ii). Whether the area of non-forest land or Revenue forest land required to be provided by User Agency for raising Compensatory Afforestation is less than area of forest land proposed to be diverted? : No
- (iii). Reason for not providing Non-Forest Land: Certificate from Chief Secretary regarding non-availability of suitable non-forest/ revenue forest land

M. Hydel/Irrigation/Multi-purpose Project

- (i). Installed power generation capacity of the Project(in MW): 450

- (iii). Total command area of the Project(in ha.): 0

- (a). Copy of the approval of competent authority to the Carcl.ment Area Treatment Plan (CAT Plan):

- (b). Copy of the approved CAT plan:

Additional Information Details

S.No	Documents	Remarks
1	Aut. orization letter	
2	Joint Ins. action and Demarcation Report	
3	Layout Plan of Project	
4	Undertaking to Pay the bills of NPV	
5	Undertaking to Pay the bills CA	
6	certificate for minimum use of Forest land	
7	statement showing details of Forests area proposed for diversion	
8	Alternative considered	

Print page

		avoiding / Minimising the use of Forest land
9		Allotment of HEP to HPPCL by Govt of HP
10		Copy of Forest Clearance of Shongtong Karchham 402 MW
11		certificate providing details of Villages benefited
12		Certificate of non availability of non forest land issued by DC
13		Reply/ Complyce of the observation made by the Nodal officer Fc

PART-I

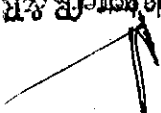
1.	Project details:	
(i)	Short narrative of the proposal and project/scheme for which the forest land is required.	Shontong-Karcham Hydro Electric Project is a run of river type of hydel project on River Satluj with all the project components proposed to be located on the left bank of Satluj river to harness the available hydel potential of the river. Generation capacity of the project is 402 MW from design discharge of 371 cumecs with net head of 125.00 m. The project envisages to divert the water of River Satluj through diversion structure (comprising of a barrage with 6 bays of size 10 m width with crest at EL. 1937.70 M, diversion tunnel at EL. 1936.50 M near village Powari on left bank of Satluj River, a small storage reservoir with bed level & full reservoir level at EL. 1936.00 M & 1956.00 M respectively with a storage capacity of 431 Ham along with 4 nos underground Sedimentation Chambers), the run it through a concrete lined circular 10.00 m dia, 8019.58 m long HRT (Head Race Tunnel), pass it into circular steel lined Pressure Shafts, underground Valve Chamber, underground powerhouse to generate 402 MW power and then leave the water through Tail Race Tunnel 10.00 M dia & 90 M long back to Satluj River at Ralli village. There will be an open 39.50 m dia & 120 m deep Surge Shaft before powerhouse. Land required for Construction of this project is 77.3326 hac. (63.5015 hac. forest land and 13.8311 hac. private land). Power generated from this project would be transmitted from the Bus-bar at the powerhouse site by the state transmission utility to PGCIL, sub-station at Karcham (over 15 kms distance). The state utility will submit separate proposal for its transmission line etc up to Karcham.
(ii)	Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map.	Enclosed
(iii)	Cost of the project:	Rs. 2807.83 crores (at July, 2011 price level) including IDC & LADC.
(iv)	Justification for locating the project in forest area.	With the state of Himachal Pradesh having about 65 % of its total geographical area classified as forestland, no project of this magnitude can be constructed without involvement of forestland. The project has been studied in detail while conducting the investigation to weigh and decide on the technical details and in the process various alternatives have

	(v) Cost-benefit analysis (to be enclosed).	(vi) Employment likely to be generated.	been considered, analyzed/scrutinized with the option of locating them on either of the banks of Satuj from not only technical point of view but also from the angle of causing least damage to environment besides using least forest area. Consequently to this exercise, alignment along left bank has been found best suited as the components of the project intercept less forestland as compared to all other available feasible options, due to change in capacity / Capacity enhancement from 402 Mw to 450 Mw and restriction imposed by the Army authorities for the construction, re-alignment of some Project components were made due to which this necessity of add. Forest land was arise, to undertake the construction works for the successful completion of project for the interest of State as well as Nation. Keeping in view the minimum requirement of add. Forest Land, therefore this location is suitable for the construction of this project.
			Enclosed on the prescribed format.
	2. Purpose-wise break-up of the total land required:		Approximately 3000 skilled, semi-skilled and un-skilled persons during construction phase would be employed for a period of 66 months (including infrastructure development, besides about 25 directly employed regular staff in the operation phase. In addition, the project would generate indirect employment in both construction and operations phases like tourism, fishery, small industry, retail business and distantly located industries supplied with power from the project.
	3. Details of displacement of people due to the project, if any:		Project components do not involve any displacement of individual or a family.
	i Number of families.		None.
	ii Number of Scheduled Castes/Scheduled Tribe families		None.
	iii Rehabilitation plan. (to be enclosed)		Not required.
	4. Whether clearance under Environment (Protection) Act, 1986 required? (Yes/No).		Yes.
	5. Undertaking to bear the cost of raising and maintenance of compensatory afforestation and/or penal compensatory afforestation as well as cost for protection and regeneration of Safety Zone, etc. as per the scheme prepared by the State		Undertaking enclosed.

	Government (undertaking to be enclosed).	6. Details of Certificates/documents enclosed as required under the instructions. 1. Map showing location of the project (including roads etc) on 1:50,000 scale (Item 1.ii of Form-A) 2. Justification: Alternative sites considered/examined and reasons for their rejection (Item 1.iv of Form-A) 3. CB analysis (Item 1.v of Form-A) 4. Component-wise land requirement of the project and its current land use (Item-2). 5. Undertaking to bear the cost of Compensatory Afforestation (CA), additional CA, NPV, cost of trees involved in the proposal and CAT Plan 6. Revenue papers of the land involved.
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Date:- 18/02/2020

Place:- R/100

Signature

 Name: S.M. Waleed (R & R)
 Designation: Shongtong Archhara HRP,
 District: Khamti, Khamti H.P., 172107
 Address (of User Agency)

State serial No. of proposal _____

(To be filled up by the Nodal Officer with date of receipt)

(To be filled up by the Nodal Officer with date of receipt)

State serial No. of proposal _____

(To be filled by the concerned Deputy Conservator of Forests)

State serial No. of proposal _____

PART-II

7.	Location of the project/scheme:	
i.	State/union Territory	Himachal Pradesh.
ii.	District	Kinnaur.
iii.	Forest Division	Kinnaur Forest Division at Reckong-Peo.
iv.	Area of forestland proposed for diversion (in ha)	7.3722 hectare.
v.	Legal status of forest	UPF
vi.	Density of vegetation	2.79 or (say 3) based on total number of trees and total forest area calculated as per guidelines issued by PCCF HP for NPV.
vii.	Species-wise (scientific names) and diameter class-wise enumeration of trees (to be enclosed. In case of irrigation/hydel projects enumeration at FRL, FRL-2 meter & FRL-4 meter also to be enclosed.)	List of enumeration of trees and abstract of trees are enclosed.
viii.	Brief note on vulnerability of the forest area to erosion	The area where the project is located is covered with hard and competent rock formations, which are not susceptible to erosion. The possibility of erosion of all lands including forestland due to construction of the proposed project has been reduced to the barest minimum by locating all components on the hard rocky strata. Adequate and effective measures would be taken to retain the dumped muck in the muck disposal areas by way of a combination of engineering and biological measures as also in road construction. Thus, the project would not cause any significant possibility of erosion.
ix.	Approximate distance of proposed site for diversion from boundary of forest.	Barrage site and Powerhouse site of the proposed project is located partly within the forest area.
x.	Whether forms part of National Park, wildlife sanctuary, tiger reserve, elephant corridor, etc. (If so, the details of the area and comments of the Chief Wildlife Warden to be	It is certified that the project does not involve land from National Park, Wildlife Sanctuary, Biosphere Reserve or similar protected area.

	Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure, etc.		
iii.	Total financial outlay for compensatory afforestation scheme.	Copy attached.	
v.	Certificates from competent authority regarding suitability of area identified for compensatory afforestation and management point of view. (To be signed by the Deputy Conservator of Forests).	Copy attached.	
i.	Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7 (xi, xii), 8 and 9 above.	Copied	
12.	Division/District profile:		
i.	Geographical area of the district.	628742 hectare.	
ii.	Forest area of the district.	36904 hectare.	
iii.	Total forest area diverted since 1980 with number of cases.	1034.1728hec. and no. of cases are 77.	
iv.	Total compensatory afforestation stipulated in the district/division since 1980 onward	1390.0616 hectare.	
(a)	forest land including penal compensatory afforestation,	1390.0616 hectare	
(b)	Non-forest land.	Nil	
v.	Progress of compensatory afforestation as on (date) on	1097 hectare. 1097 hectare.	
(a)	Forest land	1097 hectare.	

(b)	non-forest land	
13.	Specific recommendations of the DCF for acceptance or otherwise of the proposal with reasons.	The proposal of project is a run of the river scheme using barest minimum of forestland and having detailed Environment Impact Assessment following it with Environment Management Plan; hence disturbance to ecology and environment would be least and would be duly mitigated. Therefore the proposal is recommended for approval.

Date:- 18.07.2020
Place:- Rabangli

Signature Mr. M. M. M.
Name Mr. M. M. M.
Divisional Forest Office
As Reckoning Officer

PART-III

(To be filled by the concerned Conservator of Forests)

14.	Whether site, where the forest land involved is located has been inspected by concerned Conservator of Forests (Yes/No). If yes, the date of inspection & observations made in form of inspection note to be enclosed.	
15.	Whether the concerned Conservator of Forests agree with the information given in Part-B and the recommendations of Deputy Conservator of Forests.	
16.	Specific recommendation of concerned Conservator of Forests for acceptance or otherwise of the proposal with detailed reasons.	

Signature

Name

Official Seal

Date:-

Place:-

(To be filled in by the Nodal Officer or Principal Chief Conservator of Forests or Head of Forest department)

PART-IV

17. Detailed opinion and specific recommendation of the State Forest Department for acceptance of otherwise of the proposal with remarks. (While giving opinion, the adverse comments made by concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon).	
--	--

Signature

Name

Official Seal

Date:-

Place:-

PART-V

(to be filled in by the Secretary in charge of Forest Department or by any other authorizes officer of the state Government not below the rank of an under Secretary)

Recommendation of the State Government-

(Adverse comments made by any officer or authority in Part -B or Part -C or Part-D above should be specifically commented upon)

Signature

Name & Designation

(Official seal)

Date:-

Place:-

CHECK LIST SERIAL NO.4
DETAILED NOTE ON
THE PROJECT

HISTORY

Large untapped hydro potential exists in the Himalayas, which can make a substantial contribution to the total power generation in the country. The country has no other option but to tapped hydel power in a big way if it has to avoid energy crisis in the long run. India has a large economically exploitable hydro potential assessed as equivalent to about 25000 MW of installed capacity including pumped storage projects and small hydro schemes. The actual installed capacity at present is not even 10% of the assessed potential, out of this assessed capacity medium and large hydro electric projects contribute 84044 of potential at 60% load factor of which only 13942.60MW (16 %) has been harnessed. The balance 84% of untapped potential is concentrated in Northern and North Eastern region of the country.

Hydro power is a critical resource for any country and its potential can not be realised without one enabling environment and strong commitment from Govt. Government of India has taken a conscious decision to have a three pronged strategy for expeditious development of hydro power potential in India and out of 1 lac MW of capacity additions projected by the financial year 2012-30000MW will be hydro power which will be contributed by northern and North Eastern region.

Indian power Secretary-facing challenges and despite significant growth in generation over the years, it has been suffering from shortage and supply constraints. Energy and peak load shortages were 7.8% and 13% respectively in the year 2000-2001. As GDP growth accelerates to an ambitious 8-10%, the shortage will become more severe. This prevailing chronic and ever growing power shortage in the country can surely be tackled by expeditious development of the vast and economically viable hydro electric potential of 21000 MW in the snow fed rivers of Himalach Pradesh, which emanate from the western Himalayas. The states which power potential need to focus on the full development of their potential at the earliest.

TABLE
SHARE OF HYDRO POWER IN INDIA'S INSTALLED CAPACITY

YEAR	TOTAL INSTALLED CAPACITY (MW)	HYDRO POWER CAPACITY (MW)	%AGE SHARE OF HYDROPOWER
1962-63	5801	2936	50.60
1969-70	14102	6135	43.50
1979-80	28448	11384	40.00
1989-90	63636	18308	28.80
1991-92	69070	19189	27.80
1993-94	76718	20366	26.60

HYDRO POTENTIAL IN HIMACHAL PRADESH

The total potential in Himachal Pradesh is 12235.24MW at 60% load factor, with an installed capacity of 20392.07 MW. The Satluj basin in Himachal Pradesh has a hydro power potential of 9443.75MW, which represents approximately 50% of its likely installed capacity. In addition to the Satluj other rivers that are part of the great Indus

Basin and parts through Himachal Pradesh also contribute to the power potential of the state. Important ones among these are Beas river 4597MW, Ravi river 2294MW and Chenab river 2748 MW and Yamuna 591.52 MW. The total identified hydro power potential of Himachal Pradesh in its various stages of development is indicated in table.

TABLE
STATUS OF HYDRO POWER POTENTIAL IN HIMACHAL PRADESH.

STATUS	
Harnessed so far	6045.07
Under execution	4387.50
For which DPR is ready	1244.50
Under Investigation	3672.50
Schemes which are yet to be investigated	4292.50
Him Urya	750.00
Total:-	20392.07
HYDROPOWER IN MW	

Total exploitable hydro power in Himachal Pradesh is 12235 MW, which is 14.56% of India's total hydro power. Basin wise hydro power potential in Himachal Pradesh is depicted in table; figure deposit important river basin of Northern India.

BASIN	
Beas Basin	4597.00
Ravi Basin	2294.00
Satuj Basin	9411.25
Yamuna Basin	591.52
Chenab Basin	2748.00
Mini Micro project	750.00
Total:-	20391.77
HYDRO POWER IN MW	

The proposed Shongtong Karchham Hydro Electric Project is envisaged as run of the river development on the Satuj River, in the reach between Karchham and Powari villages in Kinnaur Dist of Himachal Pradesh. The project will utilize the head available between village Powari and maximum water level in pond of Karchham Wangtoo hydro electric project (1000MW). The project area is about 220 Km from Shimla, the state capital on National Highway-22.

OBJECTIVE AND SCOPE OF WORK

The main objective of the study is to carry out the Environmental Impact assessment (EIA) for the proposed Shongtong-Karchham Hydro Electric Project to meet the environmental clearance criteria of the Ministry of Environment and forest, Government of India. The scope of study would be as outlined in the EIA guidelines of Ministry of Environment and forest for water resources / river valley project. This

St. Manager (R&R)
Shongtong-Karchham HEP,
HPP, Teckong-Deo,
Dist. Kinnaur H.P., 172107

will facilitate the regulatory funding agency to decide that the project options are environmentally sound and sustainable on long-term basis. The study would include the description of project setting, appraisal of project activities and assessment of environmental impacts related to the location, design, and construction and operation of the project. An Environmental Management Plan (EMP) has been prepared to mitigate/eliminate the negative impacts. The cost of the environmental management and monitoring programs has worked out for budgetary provisions in the overall project cost.

PROJECT LOCATION AND APPROACH

Himachal Pradesh is located in the western portion of the Great Himalayan Mountain Range of Northern India, bounded by the state of Jammu and Kashmir to the North, Tibet to the East, and the plains of Northern India to the South and west. The Satluj River is one of the major rivers draining this region. It rises in the Tibetan plateau, passes via steep valleys and gorges through the Himalayan Mountains and foot hills and meets the Arabian sea across the plains of Northern India.

The project site area is about 220 Km from Shimla, the state capital of National Highway-22 and is an immediate upstream development to the under construction Karcham Wangtoo HEP (1000MW) on the Satluj river.

GENERAL

The Shongtong-Karcham Hydro Electric Project has been envisaged with the purpose of exploiting the potential in the Satluj River at Ralli. The project involves the construction of a diversion barrage, intake structure with 4 intake bays with gates and four no. intake tunnels passing through four No. sedimentation chambers, 1 lead race tunnel 8002 Km long culminating in open surface surge shaft, three nos circular steel lined underground pressure shafts will convey the water to the 3 Nos Francis turbines to generate 402MW (3 x 134 MW) of power in a underground power house. The project is expected to provide annual energy generation of about 1735.50MU in a 90 % dependable year. The project shall also provide peaking capacity benefits of 402 MW for about 4 hours per day during lean season. The project will be constructed in a period of 6 years. Some preliminary works on infrastructure facilities will be carried out prior to taking up construction of the main power project the start of the main project components is expected by March, 2008 and the project is likely to be commissioned by the end of July, 2013. Shongtong-Karcham HEP 402MW is techno economically viable and its early execution is planned for reducing the gap between availability and demand of power in the Northern Region of the country.

NEED OF PROJECT

Installed power generation capacity in India increased for 1362 MW in 1947 to 64,729 MW in 1990 during that period, energy production jumped from 4 to 264 TWH. However despite that appreciable growth, power demand has almost throughout

Mr. Manoj Kumar (R&R)
Shongtong-Karcham HEP,
HEPCT, 20 Karcham-170,
Distt. Mandi H.P., 172107

outstripped the supply. At the end of the 7th plan, the shortfall in energy availability on an all India basis was 6.8 % and the shortage with to peak availability was 19%. The hydro power potential of Himachal Pradesh is surplus to its own requirement. However, the surplus power is usefully made available to meet the power and energy requirements in other parts of the country, and very particularly, the Northern Grid. Therefore, it is necessary to look into energy and power requirement of the Northern Region while planning of hydropower development in Himachal Pradesh, Power demand and supply for the Northern region are given in table whereas energy and pack load demand for the Region during 1995-2010 is given in Table.

TABLE
POWER DEMAND AND SUPPLY (1990-1995).

ITEM	UNIT	1990-91	1992-93	1993-94	1994-95
Installed capacity	MW	19203	20581	22195	24274
Peak availability	MW	11408	11291	12777	14008
Peak load	MW	14908	16259	17721	19240
Surplus/Deficit	MW	-3500	-4338	-4944	-5232
Energy Availability	GWH	80803	82755	88165	106143
Energy Requirement	GWH	79338	86553	93396	110841
Surplus / Deficit	GWH	1465	-3798	-6231	-4698

TABLE
ENERGY AND PEAK LOAD DEMAND (1995-2010)

PERIOD	ENERGY (GWH)	PEAK LOAD (MW)
1995-1996	119887	22466
1996-1997	129587	24234
1997-1998	139976	26124
1998-1999	151086	28143
1999-2000	162954	30295
2005-2006	248332	45634
2009-2010	318715	58117

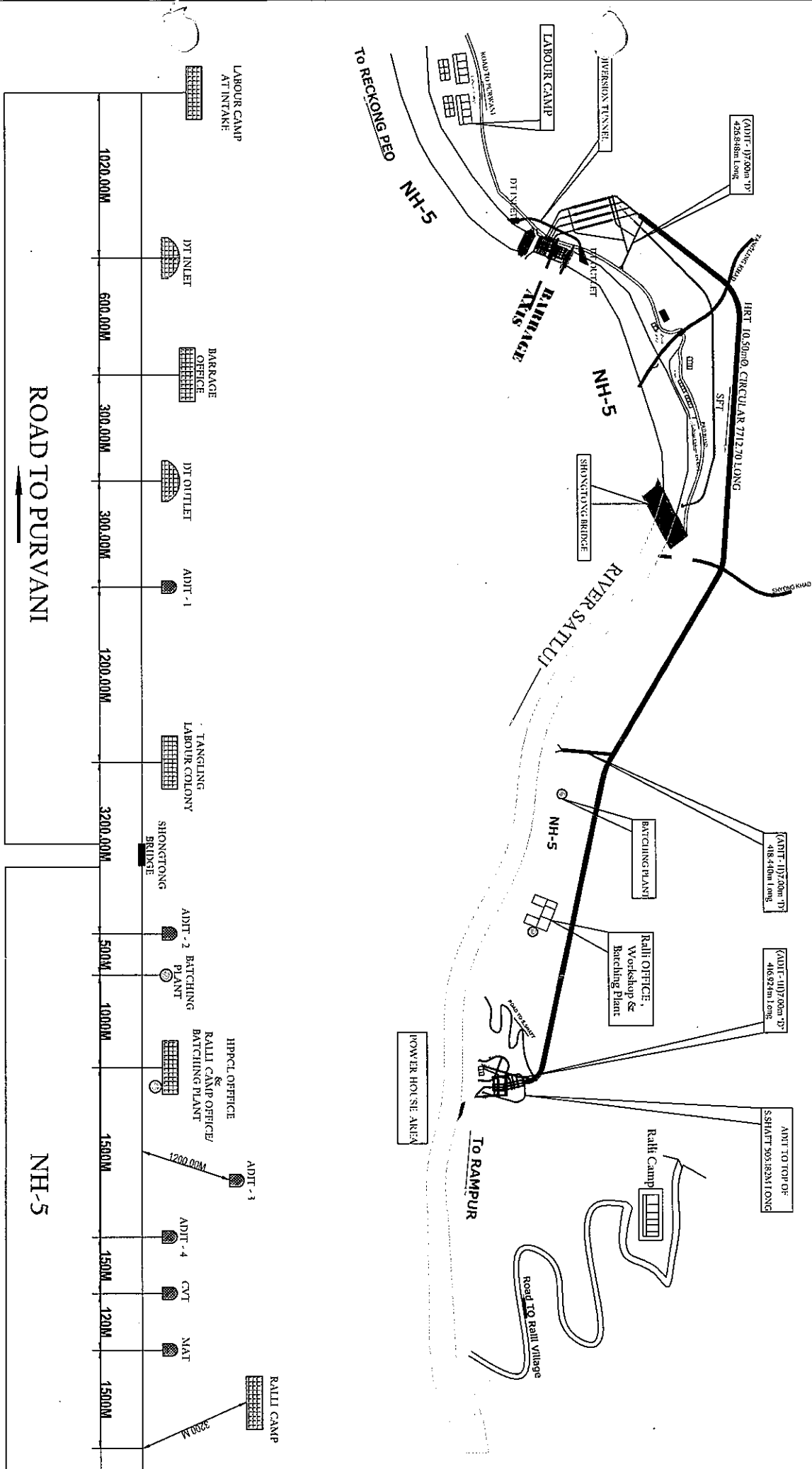
From table and table it can be seen that peak demand over a period of 20 years is likely to quadruple (four times) from 14908 MW in 1990-91 to as much as 58117 MW in 2009-2010. From the growth of peak demand and anticipated installed generating capacity on the basis of schemes proposed for benefits under construction/consideration during eighth and ninth five year plan, it is observed that there is dire need to provide additional capacity to the Northern Grid to meet the increasing demand of the grid. Thus new schemes are required to be taken up immediately for their implementation to get the timely benefit.

The most important source of power development in the Northern region is Hydro resources located in Himachal Pradesh, Uttarakhand and Jammu and Kashmir. Shongtong Karchham Hydro Electric Project is very good and attractive scheme from the view of deriving benefits by feeding power to the Northern grid.

Divisional Engineer
Kinnairt Force
at Reckong La

St. Manager (B&T)
Shongtong-Karchham HEP,
HPPCL, Reckong-Po,
Dist. Kinnaur H.P., 172107

SHONGTONG-KARCHHAM HYDRO ELECTRIC PROJECT (450 MW) LAYOUT PLAN OF PROJECT



ROAD TO PURVANI

TO PEO

TO RAMPUR

Divisional Forest Officer,
Kinnaur Forest Division
at Reckong Poo (I & S)

LOCATION OF PROJECT WITH DISTANCE

St. Manager (R&S)

Shongtong-Karchham HEP,
HP, Kinnaur P.O.,
Dist. Kinnaur H.P., 172107

CHECK LIST SERIAL NUMBER

STATEMENT SHOWING DETAILS OF FOREST AREA

PROPOSED FOR DIVERSION

S.No.	District	Division	Range/Tehsil/Village	Compartment or Khasra/Survey	Number of Km. for proposed Forest Area (Ha.)	Legal status of Forest Area	Remarks
1	Kinnaur	Kalpa	Kalpa (Shudharang)	561/1	0-21-91	Charagah Drakhtaan	Dumping area adjoining to the existing Dumping area No. 3 on right bank of river Sutluj near Shongtong bridge.
				568	0-84-09	Charagah Drakhtaan	
				569	0-38-70	Charagah Drakhtaan	
				Sub Total	1-44-70		
				3/2	0-29-60	Charagah Drakhtaan	Dumping Area near Adit-II on left bank of Sutluj River.
				Sub Total	0-29-60		
				21/1	0-58-83	Charagah Drakhtaan	Adit-I portal on left bank of river Sutluj including its working areas.
				2/1	1-10-05	Charagah Drakhtaan	Dumping Area on left bank of river Sutluj near Adit-I below existing HPPWD road Shongtong to Purbani.
				2/2	2-38-13	Charagah Drakhtaan	Dumping Area on left bank of river Sutluj near Adit-I below existing HPPWD road Shongtong to Purbani. D/s of proposed Adit-I
				1/1	0-15-73	Gair mumkin dariya	Silt Flushing Tunnel's outlet portal and approach road to portal & its working area.
				838/1	0-35-86	Charagah Drakhtaan	
				840/1	0-34-36	Charagah Drakhtaan	
				Sub Total	04-92-96		

Place.....R/f

Division of Forest Officer,
Forest Division
Divisional Forest Officer,
Office Stationery Forest Division
at Kockong Poo (H.P.)

[illegible]

OFFICE OF THE COLLECTOR, KINNAUR DISTRICT AT
RECKONG PEO, H.P.

No. KNR-(DRA)/- 1070396

Dated 27/09/19

NON-AVAILABILITY OF NON FOREST LAND CERTIFICATE

On the basis of report vide letter No. SDK-07-II (OK)/2374 dated 24-09-2019 of SDO (C), Kalpa at Reckong Poo & Basis of joint inspection report it is certified that the land area measuring 7-37-22 Hect. in up mohal Raang, Usaring, Tangling & Powari Tehsil Kalpa, District Kinnaur, H.P. is a forest land. It is further certified that no non forest land is readily available for construction of Shongtong Karchham Hydro Electric Project (450 MW) District Kinnaur, H.P.

It is also certified that the diversion of this forest land area measuring 7-37-22 Hect. in up mohal Raang, Usaring, Tangling & Powari Tehsil Kalpa, District Kinnaur, H.P. for construction of the Shongtong Karchham Hydro Electric Project (450 MW) is inescapable. The non availability of non forest land certificate is issued accordingly.



Place-
Dated

Collector,
District Kinnaur
at Reckong Poo.

St. Manager (R&R)
Shongtong-Karchham HEP,
H.P., Reckong-Poo,
Dist. Kinnaur H.P., 172107

JUSTIFICATION FOR LOCATING THE PROJECT IN
THE FOREST AREA

The area of Satuj river on both banks was surveyed with technical detail while conducting investigations. Thereafter various alternatives were analyzed, scrutinized as per required technical requirements. Incidentally, both the banks of Satuj river are terraced with the forestland. However left bank was found more suitable as the components of the project intercept less forest land and provide favorable geological conditions required for different components of the project as compared to the right bank. No other suitable area was available wherein use of forest land could be avoided/ minimized. In the present proposal, vegetation on the required area proposed for diversion is very low being mostly rocky/ barren. Since there is minimal destruction of green vegetation, therefore this location is suitable for construction of this Project. The forest area to be diverted is 0.7-37-22 Ha and complete detail of the same are attached in Checklist St. No 7. Number of trees involved in the proposed land are 112 including saplings. For the construction of Shongtong Karchham HEP, MOEFCC has already accorded approval for diversion of 63-50-15 Ha of land vide MOEF&CC FNo. 8-78/2010-FC dated 14.11.2012, copy of which is attached in the proposal folder.

(Signature of User Agency)

Office Seal
Distt. Kinnaur H.P., 172107

Countersigned By:-

Divisional Forest Officer,
Kinnaur Forest Division,
at Reckong-Po

CHECK LIST SERIAL NUMBER -11
CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that the forest area involved in the proposal for the project is unavoidable and barest minimum forest area i.e. 7.3722hectare is proposed for diversion, which involve 112 number trees including sapling which is already attached with proposal folder, Page no. 41 to 44. Enumeration list and abstract of trees as per guidelines of MoEF&CC is attached as Annexure - of reply and complete detail of land proposed for diversion is Annexed in Page no. 29.

Place R-fes

(Signature of User Agency)
St. Joseph (Bareilly)
 Office Seal
 Dist. Kinnaur H.P., 172107
 Counter signed by:-

Wing
 Divisional Forest Officer
 Kinnaur Forest Division
 at Reckong-Pee
 Office Seal

UNDERTAKING FOR PAYMENT OF COST OF COMPENSATORY AFFORESTATION

I/We **Shongtong Karcham HEP**, hereby, undertake to pay the entire amount for compensatory afforestation in lieu of the forest area diverted for **Construction of (450 MW) HEP** as per prevailing wage rates at the time of plantation.

Place **R/Luo**

Date **18/2/2020**

Counter Signed by:-

Sr. Manager (R&R)
Signature of User Agency, IITP,
Office Seal, IITP,
Dist. Ichamang M.P., 172107

Divisional Forests Officer
Forest Division Officer,
Office seal, Kinner Forest Division
at Keckong (P.O. 2)

UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE OF FOREST AREA

It is certify that I/We Shongtong Karchham HEP have applied for diversion of 7.3722ha. of Addl. forest area for the purpose of Construction of (450 MW) HEP I/We, hereby, to pay net present value (NVP) of the above forest land. I/We also hereby to pay the additional amount of NPV, if so determined as per the decision of the Hon'ble Supreme Court.

Place R/Lw

Date 18/02/2020

Counter Signed by :-

St. Manager (R&R)
Signature of User Agency HEP,
HEP Office Sealing Pco,
Dist. Kimmur H.P., 172107

Divisional Forests Officer
Forest Divisional Officer
Office seal Kimmur Forest Pco
at Reckong Pco (H.P.)

No.SDK-(Rdr.FRA)2019-2655
Office of the Sub-Divisional Officer (Civil) Kalpa
at Reckong Peo, Distt. Kinnaur, H.P.

To

The Deputy Commissioner,
District Kinnaur at Reckong Peo, H.P.

Dated: Peo-172107 the 26th Nov, 2019.

28

Sub: Certificate of FRA in respect of construction of Shongthong-Karchham HEP
and Kashang- Stage I & III

Sir,

The Sub-Divisional Level Forest Rights Committee meeting was convened on
26th November, 2019 at 11.30 AM under the chairmanship of undersigned for
considering the cases for the construction of Shongthong-Karchham-HEP and
Integrated Kashang HEP Stage-I & III. Copies of proceeding of the Sub-Divisional Level
Committee are enclosed herewith for necessary action by the District Level Forest
Rights Committee, please.

Yours faithfully,

Dr.(Maj) Avandner Kumar HAS,
Sub-Divisional Officer (Civil) Kalpa
at Reckong Peo, Distt. Kinnaur, H.P.

Sr. Manager (R&D)
Shree Krishna HEP,
Distt. Kinnaur H.P., 172107

**OFFICE OF THE SUB-DIVISIONAL OFFICER (CIVIL), KALPA
AT RECKONG PEO, DISTRICT KINNAUR (HP)**

Proceedings of the meeting of the Sub Division Level Committee constituted under Schedule Tribes & Other Traditional Forest Dwellers (Recognition of Forest Right Act, FRA)-2006

A meeting of the Sub-Division Level Committee of Kalpa Sub-Division, constituted under

FRA-2006 was held under the chairmanship of Dr. (Maj.) Avaniinder Kumar HAS Sub-Divisional Officer (Civil)-cum-Chairman Forest Rights Committee of the Sub-Division Kalpa at Reckong Pao on 26.11.2019 at 11:30 AM in which the application claiming rights in additional forest land in

respect of Himachal Pradesh Power Corporation Ltd. for the construction of Shongthong-

Karchham HEP 450 MW (Muhai Rang, FRC Shudarang Area 1-44-70 Hect. Muhai Usaring FRC

Barang Area 0-29-60 Hect. Muhai Tangling FRC Powari Area 4-92-96 Hect. Muhai Powari FRC

Powari Area 0-69-96 Hect. Total area 7-37-22 Hect.) duly processed and recommended by the

Forest Rights Committees of Shudarang, Barang and Powari (Tangling) were discussed to

consider the same for recommendation to the District Level Committee.

After scrutiny of the documents and detailed discussion, the above claims are hereby

recommended by Sub-Divisional Level Forest Right Committee for further consideration by the

District Level Forest Rights Committee, Distt. Kinnaur HP.

Decision (Recommended/Not Recommended)

Recommended

Dr. (Maj.) Avaniinder Kumar HAS
Sub Divisional Officer (C)-cum-
Chairman Sub-Divisional Forest
Rights Committee Kalpa at R/Peo.

General Manager,
Shongthong-Karchham
HEP (450 MW) R/Peo.
Himachal Pradesh Power Corporation Ltd.

1. Sh. Radha Singh V&PO Pangl Member SDLC

2. Ku. Chandra Vati V&PO Purbani, SDLC

3. Sh. Bharat Singh V&PO Sangla Member SDLC

4. Block Forest Officer Forest Range Kalpa (Official Member)

**OFFICE OF THE SUB-DIVISIONAL OFFICER (CIVIL), KALPA
AT RECKONG PEO, DISTRICT KINNAUR (HP)**

Attendance of the meeting of the Sub Division level Committee constituted under Schedule Tribes & Other Traditional Forest Dwellers (Recognition of Forest Right Act, FRA)-2006

A meeting of the Sub-Division Level Committee of Kalpa Sub-Division, constituted under FRA-2006 was held under the chairmanship of Dr. (Maj.) Avaniinder Kumar HAS SDO (Civil)

Kalpa at Reckong Pao on 26.11.2019 at 11:30 AM.

Following official/non-officials member were present in the said meeting.

Sr.No	Name of member & Designation	V&PO /Office	Signature and phone No.
1.	Marpal Chaudhary N.T.F		9805098035
2.	Chandra Velli		9805098035
3.	Mohan Singh Negi	B.O.K. Pao	9805098035
4.	Bhagat Singh	R.O.C Member	9805098035
5.	Rajay Ram Dimali	R.O. Lilla	9805098035
6.	Rajendra Singh	V.P.O. Pao	9805098035
7.	Teenu (Statistical Assistant)	P.O. ITDP	9805098035

OFFICE OF THE DEPUTY COMMISSIONER DISTRICT KINNAUR AT RECKONG PEO, H.P.

Proceedings of the meeting of the Distt. Level committee constituted under
Schedule Tribes & other Traditional Forest Dwellers (Recognition of Forest Right
Act, FRA) – 2006

A meeting of the Distt. Level Committee (DLC) of Distt. Kinnaur constituted under FRA-2006 was held under the chairmanship of Sh. Gopal Chand IAS Deputy Commissioner Kinnaur at Reckong PEO on 28.11.2019 at 11.00AM. Non-Official members namely Sh. Daulat Ram, Yashveer Singh Negi and Kewal Ram were not present despite proper intimation. However official member were present in the meeting and three cases of forest land diversion duly recommended by sub-Divisional committee was discussed and detailed deliberation was held for issuing certificates.

The first claim regarding diversion of forest land identified in Mohal Rang, FRC Shudarang Area 1-44-70 Hect. Muhal Usaring FRC Barang Area 0-29-60 hect. Mohal Tangling FRC Powari Area 4-92-96 Hect. Muhal Powari FRC Powari Area 0-69-96 Hect. total area measuring 7-37-22 Hect. situated at Teshil Kalpa regarding disposal of application claiming right in additional forest land required by Himachal Pradesh Power Corporation Ltd. for construction of Shongthong Karchham HEP 450 MW was discussed.

The second claim pertaining to land identified in mohal DPF-C 234 Kashang-I FRC Pangl total area measuring 0-93-48 Hect. situated at Gram Panchayat Pangl Tehsil Kalpa for the construction of Integrated Kashang HEP Stag-II & III by Himachal Pradesh Power corporation Ltd. was also discussed.

Third claim pertaining to the land identified in Up-Mohal Labrang area measuring 03-14-89 Hect. Centre Government Land (BRO) area measuring 00-07-86 Hect. and Private Land area measuring 00-43-22 Hect. total area measuring 03-65-97 Hect. situated at Gram Panchayat Pooh, Tehsil Pooh for construction of 66 KV transmission line from existing tower No.109 near 22 KV control point to 66/22 KV Pooh by Himachal Pradesh State Electricity Board Ltd. was also discussed.

Annexure-1

FORM-1

Government of Himachal Pradesh
Office of Deputy Commissioner Kinnaur.
Dated:- 30-01-19
To WHOSOEVER IT MAY CONCERN

No. 2014

In compliance of the Ministry of Environment and Forest (MoEF) Government of India's letter No. 11-9/98-FC(p) dated 3rd August, 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the process of settlement of rights under the scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (FRA for short) on the forest land proposed to be diverted for non-forest purposes read with MoEF's letter dated 5th February, 2013 wherein MoEF issued certain relaxation in respect of linear projects, it is certified that 7-37-22 Hect. of forest land proposed to be diverted in favor of HP Power Corporation Ltd. for the construction of Shongthong Karoham HEP 450 MW Village Rang, Usaring, Tangling and Powari Tehsil Kalpa in Kinnaur District which falls within jurisdiction of Shudarang, Barang and Powari Village in Kalpa Tehsil.

It is further certified that;

- The complete process for identification and settlement of rights under the FRA has been carried out for the entire 7-37-22 hect. of forest area proposed for diversion. A copy of records of all consultations and meeting of the Forest Rights Committee(s) Gram Sabha (s) Sub-Division Level Committee(s) and the District Level Committee are enclosed as annexure-A.
- The diversion of forest land for facilities managed by the Government as required under section 3(2) of the FRA have been completed and the Gram Sabhas have given their consent to it;
- The proposal does not involve recognized rights of Primitive Tribal Groups and Pre-agricultural communities.

Encls: As Above

Deputy Commissioner-cum-Chairman
District Level FRA Committee,
Kinnaur District, at Reckong Peo
St. Ignace (C.A.)
Dist. Kinnaur HEP, 172107

Enumeration list of tree, which are standing on the Diversion of additional Forest Land for construction of Shongthong-Karwham HEP, 450 MW Falling in Sub Mohal Tangling in khasra No. 1/1, area 0-15-73 hect. and Khasra No. 21/1 area 0-58-83 hect. in Tangling Beat, Shongthong forest Block, Kalpa Forest Rang, Kinnaur Forest Diversion during 10/019 as under:-

I - For Silt Flushing Tunnel:- Khasra No. 1/1 area 0-15-73 Hect.

Enumeration No.	Species	Dia	Class	Remarks
1/019	Neozsa	39-39	III	Green Standing on bank of River Satluj.
2/019	Thum	25-42	III	Green Standing Fit.
3/019	-do-	47-48	II A	-do-
4/019	Neozsa	48-49	II A	-do-
5/019	Thum	42-48	II A	-do-
Sappling : Neozsa 4 Nos, Thum 1 No.				
II - For Adit-I Portal on left bank of River Satluj				
Including its working areas khasra No. 21/1 area 0-58-83 hect.				
1/019	Neozsa	39-40	III	Green standing fit.
2/019	-do-	39-40	III	Dry standing on Rock/danger zone can't cut/convert.
3/019	-do-	65-68	I A	-do-
4/019	-do-	30-31	III	-do-
5/019	-do-	30-31	III	-do-
6/019	-do-	20-21	IV	-do-
7/019	-do-	21-22	IV	-do-
8/019	-do-	37-38	III	-do-
9/019	-do-	32-33	III	-do-
10/019	-do-	38-39	III	Green Standing fit.
11/019	-do-	26-27	IV	-do-
12/019	-do-	20-21	IV	-do-
13/019	-do-	61-65	I A	-do-
14/019	-do-	28-29	IV	-do-
15/019	-do-	12-13	V	-do-
16/019	-do-	28-29	IV	-do-

Classification

Species	V	IV	III	II A	II B	I A	I B	I C	I D	Total	Remarks
Neozsa	1	6	8	1	-	2	-	-	-	18 Nos.	
Volume	0.01	0.90	3.36	0.87	-	2.50	-	-	-	7.648 m ³	sappling
Thum	-	-	1	2	-	-	-	-	-	3 Nos.	Thum=1 Nos.
Volume	-	-	0.708	2.672	-	-	-	-	-	3.38 m ³	

Range Forest Officer
Kalpa Forest Range (H.P.)
Shongthong HEP, 450 MW Falling in Sub Mohal Tangling in khasra No. 1/1, area 0-15-73 hect. and Khasra No. 21/1 area 0-58-83 hect. in Tangling Beat, Shongthong forest Block, Kalpa Forest Rang, Kinnaur Forest Diversion during 10/019 as under:-

Range Forest Officer
Kalpa Forest Range (H.P.)
Shongthong HEP, 450 MW Falling in Sub Mohal Tangling in khasra No. 1/1, area 0-15-73 hect. and Khasra No. 21/1 area 0-58-83 hect. in Tangling Beat, Shongthong forest Block, Kalpa Forest Rang, Kinnaur Forest Diversion during 10/019 as under:-

Range Forest Officer
Kalpa Forest Range (H.P.)
Shongthong HEP, 450 MW Falling in Sub Mohal Tangling in khasra No. 1/1, area 0-15-73 hect. and Khasra No. 21/1 area 0-58-83 hect. in Tangling Beat, Shongthong forest Block, Kalpa Forest Rang, Kinnaur Forest Diversion during 10/019 as under:-

Sub Mohal Powari khasra No. 854/823/1 area 0-56-36 Hect.

II -- For Intake tunnel-Diversion tunnel out let and its working area in between existing HPPWD Road and vertical cliff.

Enumeration No.	Species	Dia	Class	Remarks
1/019	Neoza	85-86	IC	Green Standing fit.
2/019	-do-	19-20	V	Green Standing half broken fit.
3/019	-do-	19-20	V	Green Standing fit.
4/019	-do-	22-23	IV	-do-
5/019	-do-	22-23	IV	-do-
6/019	-do-	29-30	IV	-do-
7/019	-do-	25-26	IV	-do-
8/019	-do-	23-24	IV	Dry Standing top broken fit.
9/019	Mohru	35-36	III	Green Standing fit.
10/019	-do-	24-25	IV	-do-
11/019	Neoza	35-36	III	-do-
12/019	-do-	37-38	III	-do- on rock fit.
13/019	-do-	27-28	IV	Green Standing fit.
14/019	-do-	27-28	IV	-do-
15/019	-do-	27-28	IV	-do-
16/019	-do-	26-27	IV	-do-
17/019	Mohru	38-39	III	Green Standing half broken unfit.

Classification.

Species	Neoza	Volume	Mohru	Volume	Remarks
V	2	0.036	-	-	Sappling Neoza= 8 Nos. Mohru=10 Nos.
IV	9	1.35	1	-	
III	2	0.84	2	-	
IIA	-	-	-	-	
IIB	-	-	-	-	Total
IVA	-	-	-	-	
IIB	-	-	-	-	
IIB	-	-	-	-	
IC	1	1.25	-	-	IC
IC	-	-	-	-	
ID	-	-	-	-	ID
ID	-	-	-	-	
Total	14 Nos.	3.476 m ³	3 Nos.	1.627 m ³	

Signature of user
 Range Forest Officer
 Kalpa Kumbhar (IIP)
 District Forest Officer
 Kalpa Kumbhar (IIP)
 District Forest Officer
 Kalpa Kumbhar (IIP)
 District Forest Officer
 Kalpa Kumbhar (IIP)

Forest Block Officer
 Shongkhong Kal.
 Shongkhong Kal.
 Shongkhong Kal.

Tangling
 (Legal Guard)
 Tangling

[illegible]

Tangling
(Bear Guard)

Shengshong
Forest Block Officer
Shengshong Forest Office
Shengshong Forest Office

Signature of user)
Range Forest Officer
Kalpal Forest Range
Kalpal Kinnar (U.R.)
Dist. Kinnar (U.R.)
12/12/07

LL

trees with need to be felt is as under Vid D.F.O. Endst. No.

ABSTRACT

Representative
 Junior Officer (R-2)
 of user agency
 Kalpa Kinhar (H.P.)
 Kalpa Forest Range
 Kalpa Block Officer
 Forest Block Officer
 Kalpa

Full Title of the Project: Shongtong-Karchham HEP(450MW), HPPCL

File No. :

Date of Proposal: _____

CHECK LIST SERIAL NUMBER: 16

SITE INSPECTION REPORT NOT BELOW THE RANK OF DCF

(For the Forest land to be diverted under FCA)

A proposal has been received by this office from Shongtong-Karchham HEP, HPPCL for diversion (under FCA-1980) of 7-37-22 ha. of forest land for non forestry purpose. The subject envisages the use of forest land for Construction of Adit-I portal, silt flushing Tunnel (SFT)outlet portal and approach road to portal and its working area, intake tunnels and diversion tunnel outlet and its working area, approach road to RBM site and dumping area of the Components of Hydroelectric Project. The site inspection of the land involved in the proposal has been done by me on dated 11.7.12. On inspection of the site, it is found that the land required by the user agency is a forest measuring 7-37-22 ha. The requirement of forest land as proposed by the user agency in Col. 2 of part-I is unavoidable and is barest minimum required for the project. And there were No any rare/ endangered/ unique species of flora and fauna found in the area. Nor any protected archaeological/ heritage site/ or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required.

- (a) The user agency has not violated the provisions of Forest (Conservation) Act, 1980 and no work has been started without proper sanction.
- (b) It has been found that the user agency has violated the Forest (Conservation) Act, 1980 provisions. A detailed report as per para 1.9 of Chapter 1, Part C of Hand book of Forest (Conservation) Act, 1980 is attached).

(Note: Whichever of the above is applicable should be shown)

Specific recommendation for acceptance or otherwise of the proposal.

Place : _____
Date : 11.2.12

(Signature) _____

Name : _____

Designation Divisional Forest Officer
Office Seal Kinnaman Forest Division
At Reckong Po, Sikkim

Full title of the project: additional forest land in favour of HPPCL for Shongtong-Karchham HEP.
Date of proposal:

CHECK LIST SERIAL NUMBER

LAND SUITABILITY CERTIFICATE BY DFO CONCERNED.

This is to certify that 15.00 ha. land bearing Survey Sheet No. 53 I/2 near village Kalpa in Tehsil Kalpa District Kinnaur H.P. identified for Compensatory Afforestation is suitable for undertaking plantation from the management point of view and is free all sort of encumbrances and encroachments.

Dated 7.11.2014
Place:- Recong Pco.

[Signature]
(Dr. Chaman Lal Rao), HPFS
Divisional Forest Officer,
Kinnaur Forest Division
District Kinnaur, Pco (H.P.)
Office Seal

Full title of the project: Additional forest land in favour of HPPCL for Shongtong-Karchham

H.P.

File No.:

Date of proposal:

CHECK LIST SERIAL NUMBER-

LOCATION MAP.

Location Map of Non-Forest/Degraded Forest Area identified for
Compensatory Afforestation in lieu of proposal for diversion of 7,37.22 hac. of forest land for
Shongtong-Karchham H.P. Tehsil Kalpa. Distt. Kinnaur H.P.

Forest Division:- Kinnaur.

Forest Range:- Kalpa.

Block No./Compartment No.

/Survey No. 53 I/2

UF-33

=10 ha., (Kalpa Range)

53 I/2

UF-33

=5 ha. (Kalpa Range)

Area:- 15.00 ha.

Map attached of the area to be taken for Compensatory Afforestation.

Dr. Chaman Lal Rao
Dr. Chaman Lal Rao, HPFS
Divisional Forest Officer,
Kinnaur Forest Division,
Distt. Kinnaur, Poo (H.P.)
Office Seal

Full title of the project: additional forest land in favour of HPPCL for Shongtong-Karchham HEP.
 File No.:
 Date of proposal:

CHECK LIST SERIAL NUMBER.
SCHEME FOR COMPENSATORY AFFORESTATION.

Detail scheme for compensatory afforestation to be carried out in lieu of 07-37-22 hac. of forest area to be diverted for additional forest land in favour of HPPCL for Shongtong-Karchham HEP.

Tehsil Kalpa in Kinnaur District.

1. Details of degraded forest land/non forest land:-

Village:-	Kalpa
District:-	Kinnaur
Tehsil:-	Kalpa
Name of Forest Division:-	Kinnaur
Block No./Compartment No.	
/Survey No.	53 I/2
Area to be afforested:	15.00 ha.

2. Description of area:-

- i. Whether the site selected for compensatory afforestation is a land bank or not:- Yes.
- ii. If the CA site is other than the land bank, reasons be given:- Not applicable.
- iii. In case of non forest area identified form A, then what is the distance of CA site from the adjoining forest boundary:- Not applicable
- iv. Soil type:- loam moderately deep
- v. Topography:- a. Hilly
b. Slope: Steep
- vi. Whether the area is bearing any root stock of vegetation:- yes

3. Plantation Model:-

Copy of the approved compensatory afforestation scheme/model showing component wise physical and financial break up is enclosed.

4. Schedule of plantation programme:-

Detail of year wise break-up of requirement of funds is enclosed.

5. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

(a) General Details:- An area of 15.00 ha. will be taken up for planting under compensatory afforestation scheme in UF-33 = 10 ha., (Kalpa Range) & UF-33 = 5 ha., (Kalpa Range) in two compact patch. The area will be protected by Barbed wire fencing and a mixture of conifer and broad leaved species will be planted 1500 plants will be planted per hectare.

(b) Spacement:- 3.0 mtrs x 3.0mtr

(c) Species:- Conifer & other broad leave species.

- (d) Plantation Method:-Nursery grown one year old plants (in Polythene bags) will be planted in 30x30x30 cm pits in the selected area. Bush cutting will be done in the infested area. The plantation will be maintained for subsequent 10 years in which beating up of failures will be done. The plantation will be rainfed.
- (e) Soil Moisture Conservation Works: - Contour trenching will be done over the entire area to conserve the available moisture during rainy season so that moisture regime in the area is improved. Minor soil conservation works like gully plugging, check walls be done where ever required.
- (f) Protection (fencing, Watchman, People's participation etc.): -Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation. Further watch and ward as also fire protection will be ensured through regular departmental staff.
- (g) Proposed Monitoring Mechanism:- The plantation will be monitored as per existing monitoring mechanism in the forest department. The plantation will also be monitored by GOI representatives as per instructions. The plantation sites will be approachable from Kalpa .
- (h) Any other information:- Nil.

M. S. M. M. M.
 Divisional Forest Officer,
 Kinnairt Forest Division
 Dist. Kinnairt, P.O. (112)
 Office Seal

**BILL FOR COMPENSATORY AFFORESTATION SCHEME OVER 15.00 HACTARE FOREST
LAND IN LIEU OF DIVERSION OF 7.3722 HACTRAE FOREST LAND FOR CONSTRUCTION
OF SHONGTONG KARCHHAM 450 MW WITHIN THE JURISDICTION KALPA RANGE OF
KINNAUR FOREST DIVISION**

Area proposed for compensatory Afforestation in	15 ha.
Name of the proposed plantation area	UF-33 Kadhle
Plants to be planted per hectare	1100
Total number of plants to be planted	16500
Species to be planted	Conifer & Broad leave species

Particulars of works	Unit cost at wage structure for 2018-19	Year of execution of works	Cost escalation	Unit cost after applying cost escalation	Total amount
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Initial cost for raising compensatory Afforestation over an area of 15 hectare	120931	2019-20	10%	133024.1	1995362
1 st year maintenance	18562	2020-21	20%	22274.4	334116
2 nd year maintenance	12450	2021-22	30%	16185	242775
3 rd year maintenance	6337	2022-23	40%	8871.8	133077
4 th year maintenance	6337	2023-24	50%	9505.5	142583
5 th year maintenance	6337	2024-25	60%	10139.2	152088
6 th year maint.	6337	2025-26	70%	10772.9	161594
7 th year maint.	6337	2026-27	80%	11406.6	171099
8 th year maint.	6337	2027-28	90%	12040.3	180605
9 th year maint.	6337	2028-29	100%	12674	190110
10 th year maint.	6337	2029-30	110%	13307.7	199616

Total =	3903023
Contingencies Charges @ 5%	195151
Total cost of CA Scheme	4098174
Departmental Charges @ 17.5%	683029
G. Total =	4781203

Divisional Forest Officer,
 Kinnaur Forest Division
 Kinnaur Forest Division
 at Reckong Phep

Per Hectare Cost Norm for Planting with RCC Fencing under Compensatory Afforestation Scheme (1100 plants per hectare) at the wage rate of Rs. 312/- in H.P. State

Sl. No.	Particulars of works	Qty.	Rate in Rs.	Amount in Rs.
A	Survey, Demarcation & Fencing			
1	Survey and demarcation of plantation area	1 hac.	210.08 P/hac.	210.08
2	Preparation/purchase of RCC fence posts	50 No.	447.50 Per Post	17900
3	Carriage of RCC Fence posts upto 165 cm long over a distance of 2 Kilometer uphill/downhill.	50 Nos	69.78%	6978.00
4	Preparation/digging of holes 20X30X50 Cm Size	50 No	18.77%	938.50
5	Fixing of RCC fence posts including strutting	50 No	1491.70%	745.85
6	Carriage of barbed wire over distance of 2 Km	0.75 Qtl.	154.02 per Qtls per	231.03
7	Stretching and fixing of Barbed wire in 4-strands	600 Rmt	10.00 P/Rmt.	6000.00
8	Interlacing of thorny bushes along the fence	150 Rmt.	8.5 P/Rmt.	1275.00
9	Cost of Barbed wire	0.75 Qtl.	7750.02 P/Qtl.	5812.52
Total A:- Survey Demarcation & Fencing cost				
				40090.98
			Or Say	40091.00
B	Planting			
1	Bush cutting in strip (3mX3m)	1 hac	2485.05 hac.	2485.05
2	Digging of pits of 45x45x45cm size	1100 No.	1987.54%	21862.94
3	Filling of pits of 45x45x45cm size	1100 No.	566.68%	6233.48
4	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	1100 No.	3.96 per plant per Km	8712.00
5	Planting of plants raised in P/bags	1100 No.	4.55 per plant	5005.00
6	Construction of Inspection Path	100 Rmt.	22.91 Per Rmt.	2291.00
7	Cost of Sign Board, Carriage & Fixing	1 No.	L/S	4000.00
Total B:- Planting cost				
				50589.47
			Or Say	50590.00
C	Cost of plants			
1	Cost of P/bags plants	1100 Nos.	27.50 per plant	30250.00
Total C:- Nursery cost				
				30250.00
Grand Total (A+B+C):-				
				120931.00
			Or Say	120931.00
1st year maintenance (30% Beating Up)				
1	Re-digging of pits 45x45x45 cm	330 No.	993.78%	3279.474
2	Filling of pits 45x45x45cm	330 No.	566.68%	1870.044
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	330 No.	3.96 per plant per Km	2613.60
4	Planting of plants raised in P/bags	330 No.	454.18%	1498.79
5	Repair of fencing	60 Rmt	3.75 Per Rmt	225.00
Total				
				9486.91
6	Cost of P/bags plants	330 No.	27.50 per plant	9075.00
G. Total				
				18561.91
			Or Say	18562.00

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Divisional Forest Officer
Kinnairt Division
Batu Caves (H.P.)

Sr. No.	Particulars of works	Qty.	Rate in Rs.	Amount in Rs.
2nd year maintenance (20% Beating Up)				
1	Re-digging of pits 45x45x45 cm	220 No.	993.78%	2186.316
2	Filling of pits 45x45x45cm	220 No.	566.68%	1246.696
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	220 No.	3.96 per plant per Km	1742.40
4	Planting of P/bags plants	220 No.	454.18%	999.20
5	Repair of fencing	60 Rmt	3.75 Per Rmt	225.00
Total				6399.61
6	Cost of P/bags plants	220 No.	27.50 per plant	6050.00
G. Total				12449.61
Or Say				12450.00
3rd to 10th year maintenance (10% Beating Up)				
1	Re-digging of pits 45x45x45 cm	110 No.	993.78%	1093.
2	Filling of pits 45x45x45cm	110 No.	566.68%	623.348
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	110 No.	3.96 per plant per Km	871.20
4	Planting of P/bag plants	110 No.	454.18%	499.60
5	Repair of fencing	60 Rmt	3.75 Per Rmt	225.00
Total				3312.30
6	Cost of P/bags plants	110 No.	27.50 per plant	3025.00
G. Total				6337.30
Or Say				6337.00

Full title of the project: additional forest land in favour of HPPCL for Shongtong-Karchham

File No.:

Date of proposal:

BILL FOR NPV

CALCULATION OF NET PRESENT VALUE (NPV) OF ADDITIONAL FOREST LAND TO BE DIVERTED UNDER FCA, 1980 IN FAVOUR OF HPPCL FOR SHONGTONG KARCHHAM HEP WITHIN THE JURISDICTION OF KINNAUR FOREST DIVISION, DISTT. KINNAUR (H.P.)

1.	Area to be diverted.	07-37.22 hac.
2.	Name of area proposed for diversion	Mohal Radule UF-33 Kalpa
3.	No. of trees coming/standing in the forest land to be diverted including sapling	53 trees+59 sapling; Total= 112
4.	ECO-Value Class	Class-VI, Open Forest
5.	NPV rate applicable to open forest of class-VI	Rs. 6,99,000/- per hac.
6.	Calculation of Net Present Value	07-37-22 X 6,99,000 = Rs. 51,53,167/-
Total amount payable towards NPV		5153167/-

Note:-If any recovery is pointed out by the audit or higher authority will be effected in lump-sum from the user agency.

(Dr. Chaman Lal Rao), HPFS
Divisional Forest Officer,
Kinnaur Forest Division,
Distt. Kinnaur,
Office Shongtong Poo (H.P.)

Dated 1.11.2014
Place:- Recong Poo