

No.

6196

H.P. Forest Department  
Kinnaur at Reckong Peo

Dated, 12 Jan. 2024

From:

DCF Kinnaur Forest Division

To: CCF Rampur (T),

**Subject :** Diversion of 7.3722 hectare of forest land as Additional Forest Land requirement in already approved Diversion in favour of Shongtong Karchham Hydro electric Project, Himachal Pradesh Power Corporation under the the jurisdiction of Kinnaur Forest Division, Distt. Kinnaur, Himachal Pradesh. (Online Proposal No FP/HP/HYD/40611/2019) - Regarding.

Sir

On the subject cited proposal clarification submitted by the project Proponent in response to sought by Hon,ble FAC meeting held on 20.10.2023& has been attended and para wise reply of the same is as under:

S.N	Observations	Reply of the observations
1	<b><u>Point No. I</u></b> Copy of approved Muck management Plan Is to be submitted	The revised muck management plan for additional Land Measuring 7.3722 ha is concerned; project Proponent have proposed 4 number sites for dumping of muck in the present Proposal with area measuring 5.2248 ha. at four location with 4 patches as also shown in Kml with Dumping sites A,B,C&D. Approved dumping sites reclamation & Muck Management Plan, is being attached as <b>Annex-A</b>
2.	<b><u>Point No. II</u></b> The State Govt. shall submit a detailed report regarding the slow progress in implementation of CAT plan and the failure of Compensatory Afforestation plantations.	It is submitted that in the last FAC meeting scheduled on 20.10.2023 it was discussed that against the CAT Plan amount of Rs. 70.195 Crore only 50 lacs has been utilized, that this statement is not correct. Even though <i>out of Rs 70.195 Crore undersigned has reported Physical and Financial Progress of Rs. 35.35 Crore.</i> (Consolidated Progress duly signed is attached As <b>Annex-B</b> ) It is further submitted that utmost efforts are being taken to speed up the progress in implementation of CAT Plan & CA. So far as failure of the 50 Compensatory

		<p>Afforestation plantation in one patch is concerned,</p> <p>it is submitted that the area in question is quit rocky, and near to the habitation. The failure of plantation is due to grazing and draught which will be re-planted from the provisions of yearly maintenance cost kept for .</p>
3.	<p><b><u>Point No. III</u></b></p> <p>There is a voilation over an area of 0.5883 ha. as reported by the State. The detailed justification for violation and action taken report against those responsible for violation shall be submitted by the State.</p>	<p>It is submitted that after getting the approval for diversion of 63 Ha. area under FCA 1980, HPPCL awarded the construction work to M/s Patel Engineering Ltd. The work was started at different sites i.e. HRT, Power House, Surg Shaft and approach road etc. during the construction phase some boundary pillars got damaged due to which the actual boundary could not be ascertained and inadvertently the construction of approach road to SFT was constructed beyond the proposed area. As the Forest Department raised the objection regarding the construction of said road and re-demarcation conducted on site as per earlier diversion and it was found that some part of the construction has been executed beyond the boundary of the diverted area and construction activities has been stopped by the Contractor. As it is the essential part of the project due to enhancement of the capacity of the project new proposal for diversion of forest area along with violated area i.e. 0.5883 ha. has been prepared. The violation of 0.5883 ha. was not executed deliberately but was a mistake for which HPPCL is agreed for paying penal NPV or any other penalty by Gol. The General Manager of the Contracting agency Sh. P.P. Sharma, General, Manager (M/s PEL) has got retired and HPPCL take the sole responsibility of the violation and is ready to pay the penalty raised against the violation.</p>
4.	<p><b><u>Point No. IV</u></b></p> <p>The reservoir to be created due to dam</p>	<p>The process for declaring/ notifying the submerged area as Reserve Forest under</p>



	construction and subsequent submergence is required to be declared as Reserve Forest under Indian Forest Act. 1927. A copy of notification for the same shall be submitted.	Indian Forest Act, 1927 has been initiated. In order to this, the HP State Govt. has appointed Asstt. Settlement officer Shimla as Forest Settlement officer <i>Vide Notification No FFE-B-F014/1/2023 DATED 11.01.2024 Copy enclosed as Annex-C</i>
5.	<b><u>Point No. V</u></b> The State Government shall examine the writ petition pertaining to the instant project which is pending before the Hon'ble High Court and ensure that the same has no bearing on the instant proposal for diversion of additional forest land.	<i>It has no bearing on instant proposal for diversion of additional forest land. Once Hon'ble FAC recommend its in-principal/(Stage-I) clearance. This petition automatically set-aside/quashed. Certificate in this regard is also being attached as Annex-D</i>
6.	<b><u>Point No. VI</u></b> The State Govt. has reported that there are six (6) approved dumping sites in earlier diverted area and accordingly submitted the area details of these six dumping sites but the said KML file includes eight (patches) out which six are dumping sites and two (2) job facility sites. Thus, it is not clear whether these two patches of job facility have been mistakenly included in the KML file of approved dumping sites of earlier diverted area or being currently used for dumping sites. The same shall be clarified by the state government.	In this regard it is submitted that the two job facility sites has been inadvertently included in the KML file of dumping sites. The job facility sites are not being used for dumping sites and revised KML of 6 dumping sites in the shape of CD is hereby attached for information.

Since, Shongtong Karchham HEP is HP Govt.s flagship project, this delay in getting forest clearance will caused huge finical implication to the state exchequer. It is therefore requested to kindly recommend the proposal for fetching stage-I( In-principal Clearance) please.

DA: As above.

Yours faithfully

  
Deputy Conservator of Forests,  
Kinnaird Forest Division,  
At Reckong Peo.

12/01/2024 14:51



**Revised muck management plan for Muck  
Management Plan for Proposed Addl. Forest Land  
Measuring (7-3722 Ha.)**

**Approved By:-**

*AK*  
**Divisional Forest Officer,**  
**Kinnaur Forest Division**  
**At Reckong Peo, Distt. Kinnaur,**  
**Himachal Pradesh -172107**

*SK*  
**Surender Kumar**  
**Director (Civil), HPPCL**  
**Himfed Building, BCS,**  
**New Shimla-171009**

**Submitted By:-**

*SK*  
**Dy. General Manager (E&RR)**  
**Shongtong Karchham HEP,**  
**HPPCL, Reckong Peo Kinnaur.**  
**Himachal Pradesh -172107**

*KM*  
**General Manager**  
**Shongtong Karchham HEP,**  
**HPPCL, Reckong Peo**  
**Kinnaur (Hr)**



## Muck Management Plan

**Brief Introduction:** Himachal Pradesh Power Corporation Limited being a HP State Govt. Undertaking executing the Shongtong Karchham Hydro Electric in Distt. Kinnaur HP. Ministry of Environment and Forest & climate change (MoEF&CC) has granted Environment Clearance (EC) and forest clearance for construction of Shongtong Karchham HEP, in the year 19 May 2011 and 14 November 2012 respectively. After following the due procedure Expert Appraisal Committee of MoEF&CC after recommending the EIA and EMP (muck management plan being a part of EMP) granted final EC.

Now due to enhancement in the exiting 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 within the boundary of 1200 yards. Project proponent has to propose additional land measuring 7-3722 ha. Additional forest land for diversion. Out of 7-3722 ha. 5-22-4 ha. of land is proposed for dumping of muck at free locations near Tangling, Usarang & Rang up mohal of Kalpa District. The detail of the propose dumping site along with the Khasara No. and area is as under: -

Sr. No.	Location of dumping site	Khasara No.	Area (in ha.)
1	Near Tangling, DS-A	2/2	2-38-13
2	Near Tangling, DS-B	2/1	1-10-05
3	Rang, DS-C	561/1, 568, 569	1-44-70
4	Usaring, DS-D	3/2	0-29-60
5		<b>Total</b>	<b>5-22-48</b>

In the proposed site for dumping.e DS-A, &B situated at Tangling area measuring 3-48-18there is no trees stnding on the location , and in DS -C situated at Rang Area measuring 1-44-70ha only 15 numbers of trees are standing that too maximum of broad leafed trees out of 15Number trees 10 no. are of Kunish and 1 is of Khidik and only 4 numbers trees are of Neoza( pinus Geradiana) apart from this only 32 no of sapling are there , out of which 20 nos are of Kunish, 9 are of Ash,5 Nos are of Alanthus and Only 2 number of Neoza saplings

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Conservator of Forests  
Forest Division at Kalpa

Director  
HP Power Corporation Limited,  
Himad Building SOG,  
New Shimla-171009 (H.P.)

District Engineer (HEP)  
Kinnaur District

District Engineer (HEP)  
Kinnaur District

District Engineer (HEP)  
Kinnaur District

**Trees standing on proposed diverted Land:**

Sr. No.	Location of dumping site	Khasara No.	Area (in ha.)	Trees standing (Numbers)	Remarks
1	Near Tangling, DS-A	2/2	2-38-13	Nil	Note: - In Khasara. Number 561/1,568,569(DS-C) there are 20 (Khunish), (Alunthus)- 5, (Ash.) -9 (Newza)- 2,splings are there.
2	Near Tangling, DS-B	2/1	1-10-05	Nil	
3	Rang, DS-C	561/1, 568, 569	1-44-70	15	
4	Usaring, DS-D	3/2	0-29-60	Nil	
5		<b>Total</b>	<b>5-22-48</b>	<b>15</b>	

The capacity of propose dumping sites with 40% swelling factor are as under: -

Sr. No.	Location of dumping site	Khasara No.	Area (in ha.)	Capacity of dumping site with 40% SF (in cum)	Capacity of DS after 12% compaction
1	Near Tangling, DS-A	2/2	2-38-13	18,500	20,720
2	Near Tangling, DS-B	2/1	1-10-05		
3	Rang, DS-C	561/1, 568, 569	1-44-70	1,47,194	1,64,857
4	Usaring, DS-D	3/2	0-29-60	45,271	50,703.5
	<b>Total</b>		<b>5-22-47</b>	<b>2,10,965</b>	<b>2,36,280</b>

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Deputy Conservator of Forests,  
Kinnaird Forest Division at R.P. HP.

General Manager  
Kinnaird Forest Division  
R.P. HP, Kinnaird Forest Division  
Dist. Kinnaird (HP)

Dr. General Manager (ESM)  
Kinnaird Forest Division  
R.P. HP, Kinnaird Forest Division  
Dist. Kinnaird (HP)



**Muck disposal :** Considering a swelling factor of 40% quantity of muck generated from various component will be dump to these proposed dumping sites about 2,10,965.0 cum of muck and about 11,981.4 cum of muck will be utilize for construction of protection measures i.e. wire create and filling of wire create and its cladding. The detail of muck disposal site along with the expenditure to be occurred for the protection measures are tabulated below: -

### MUCK MANAGEMENT PLAN

Suitable retaining walls shall be constructed to develop terraces so as to support the muck on vertical slope and for optimum space utilization. Loose muck would be compacted layer wise. The muck disposal area will be developed in a series of terraces of boulder crate wall and masonry wall to protect the area/muck from flood water during monsoons. In-between the terraces, catch water drain will be provided.

The terraces of the muck disposal area will be ultimately covered with fertile soil and suitable plants will be planted adopting suitable bio-technological measures. The basic aim and objectives of the muck management plan are to:

- Protect these areas from soil erosion
- Develop these areas by afforestation
- Develop them into parks, gardens etc.
- Utilize the maximum quantity of muck for development of infrastructure of the project
- Develop these areas in harmony with the landscape of the project area.

Various activities proposed as a part of the management plan are given as below:

- Land acquisition for muck dumping sites
- Civil works (construction of retaining walls, boulder crate walls etc.)
- Dumping of muck
- Levelling of the area, terracing and implementation of various engineering control measures e.g., boulder, crate wall, masonry wall, catch water drain.
- Spreading of soil
- Application of fertilizers to facilitate vegetation growth over disposal sites.

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Deputy Conservator of Forests,  
Karnataka Forest Divisional Office HP.

General Manager (E&R)  
Shreeganga Karoligum NER, Bangalore  
HPPCL, Hoskote, Bangalore (H. P.) 172107  
Dist. Kinnar (HP)

Director (Civil),  
Power Corporation Limited,  
4 Building ECS,  
Bangalore 560001

For stabilization of muck dumping areas following measures of engineering and biological measures have been proposed

### Engineering Measures

- Wire crate wall
- Boulder crate wall
- R.C.C
- Catch water Drain

Financial expenditure to be occurred for the protection of these dumping sites.

Sr. No	Description of items	Qty.	Rate	Unit	Amount
<b>1. Tangling DS-A&amp;B</b>					
1	Wire crate of G.I. wire filled with boulders .	2343.75	2080	M3	48,75,000.0
2	Providing & laying cement concrete work 1:2:4 and cutting complete cladding work	288	4076.8		1,17,4118.4
<b>2. Rang DS-C</b>					
1	Wire crate of G.I. wire filled with boulders .	5664.06	2080	M3	1,17,81,250.0
2	Providing & laying cement concrete work 1:2:4 and cutting complete cladding work	722.50	4076.8		29,45,488.0
<b>3. DS-D, Usarang</b>					
1	Wire crate of G.I. wire filled with boulders .	2683.59	2080	M3	55,81,873.44

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Director (Civil),  
Power Corporation Limited,  
Infed Building ECS,  
New Shimla-171009 (H.P.)

Deputy Commissioner of Forests,  
Kinnaur Forest Division at Reta HP.

General Manager  
Shanglong Karcham HEP,  
HPPCL, Shanglong Pao  
Dist. Kinnaur (HP)

By General Manager (E&R)  
Shanglong Karcham HEP,  
HPPCL, Shanglong Pao  
Dist. Kinnaur (H. P.) 172107



2	Providing & laying cement concrete work 1:2:4 and cutting complete cladding work	280.80	4076.8		11,44,765.44
	<b>Total (1+2+3)</b>				<b>2,75,02,495.28</b>

### Reclamation Plan

The muck generated and dump in these designated dumping sites will be properly protected by constructing wire create filled with boulders. After completing the dumping of muck these dumping sites will be properly reclaimed in consultation with the HP forest department.

### Biological Measures

- Plantation of suitable tree species and soil binding species
- Plantation of ornamental plants
- Barbed wire fencing

Muck generally lacks nutrients and therefore, are difficult to re-vegetate. However, if no attempts to vegetate the slopes are made, the muck could slide lower down during rain and may eventually wash off the check dams also. Since, top soils are not available in large quantities in Himalayas, it may not be possible to apply a thin layer of soil over the muck. Bio-fertilizer technique developed by National Environmental Engineering Research Institute (NEERI) can be adopted in the proposed project. NHPC has successfully used this technique in Uri hydroelectric project. Similar approach can be utilized in the proposed project as well. In this process, the unused excavated material is piled and stacked with proper slopes at the designated muck disposal sites. The slopes are broken up by creating benches across them. This is done to provide stability to the slopes and also to provide ample space for planting of trees that would further help in holding and consolidating biotechnological approach. The traditional methods of afforestation of these areas would be supplemented with the use of fungus, i.e. Vesicular Arbuscular Mycorrhizae (VAM) and nitrogen fixing bacteria that form partnership with plant roots. These grow on plant roots and provide water and nutrition especially phosphorus to plants

  
 Director (Civil),  
 HP Power Corporation Limited,  
 Himfed Building EGS,  
 New Shimla-171009 (H.P.)

g  
 Deputy General Manager of Forests,  
 Kinnaur Forest Division at R.D. HP.

  
 General Manager (E&R)  
 Kinnaur Hydro Electric Project,  
 Himachal Pradesh, India.  
 HP-PCL, R.D. Kinnaur, Dist. Kinnaur (H. P.) 171107  
 Udaipur Kinnaur (HP)

at faster rate. The seeding of plants would be inoculated with VAM and nitrogen fixing bacteria before planting. It has been found that plants inoculated with bio-fertilizers grow at faster rate especially in the medium where the soil/rock is devoid of nutrients.

The afforestation with suitable plant species shall be done. About 1000-1200 trees/ha shall be planted. Major species recommended for plantation are listed in Table below

#### Species recommended for plantation over muck disposal site

Botanical Name	Local Name
<b>Trees</b>	
<i>Populus ciliate</i>	Popular
<i>Pinus roxburghii</i>	Chir
<i>Cedrus deodara</i>	Deodar
<i>Salix acutifolia</i>	Bhains
<b>Shrubs</b>	
<i>Artemisia nilgarica</i>	Kunja
<i>Berberis aristata</i>	Kingor
<i>Berberis lyceum</i>	Kingor
<i>Rosa Moschata</i>	Ban gulab

Cs  
 Deputy Conservator of Forests,  
 Kimsur Forest Division at R/Ped HP.

Kmm  
 General Manager  
 General Manager (E-RR)  
 HPCL, New Delhi-110002,  
 Dist. Manager (H.P.) 172107

Directr (C/II),  
 HP Power Corporation Limited,  
 Himfed Building BCS,  
 New Shimla-171019 (H.P.)



Reclamation plan approved by the concern forest division is as under:-

Full Title of the Project:

Diversion of 7-3722 ha. of forest land in favour of Himachal Pradesh Power Corporation Ltd.  
Proposal No. FP/HP/HYD/40611/2019.

Date of Proposal:

13 Nov. 2019

### RECLAMATION PLAN FOR MUCK DUMPING

Dumping site situated at up Muhul Rang, Yusaring & Tangling area measuring 05-22-48 ha. Tehsil Kalpa, Range Kalpa, Forest Division Kinnaur, District Kinnaur having capacity of 210965 cum will be used for dumping of excavated muck from the project. After leveling dumping site will be rehabilitated by planting plants like, Poplar, Alinthus, Moru, and shrubs i.e Kungja, Kingor, Ban Gulab and other suitable site specific Local species. The reclamation plan for the dumping yard is as under :-

Particulars of works	Area in ha. for raising of 1100 tall plants per ha. with 4 stand RC fence post	Norms of ha. wage rate of Rs. 375/- per day (including 25%)	Add 25% increase due to increase in wage rate from 375/- to 400/- on the norms depicted in col. 3	Years of execution of works	Add 10% escalation in subsequent years	Tentative rates	Total amount (Rs.)	Area planted 5.2248 ha. (16500 tall plant planted)
Initial cost for plantation	(For 05-22-48 ha.) 5742 tall plants	138700 (2023-24)	152570	2024-25	13870	152570	152570	797147.73
Detail of Maintenance of plantation for Ten Years								
1 <sup>st</sup> year	5-2248 ha.	14200	15620	2024-25	1420	15620	15620	81611.4
2 <sup>nd</sup> year	5.2248 ha.	9600	10560	2025-26	960	7986	10560	55173.9
3 <sup>rd</sup> year	5.2248ha.	4900	5390	2026-27	490	5390	5390	52248
4 <sup>th</sup> year	5.2248 ha.	4900	5390	2027-28	2213	5838	29190	52248
5 <sup>th</sup> year	5.2248 ha.	4900	5390	2028-29	2797	6422	32110	52248
6 <sup>th</sup> year	5.2248 ha.	4900	5390	2029-30	2372	4872	24360	52248
7 <sup>th</sup> year	5.2248ha.	4900	5390	2030-31	2859	5359	26795	52248
8 <sup>th</sup> year	5.2248ha.	4900	5390	2031-32	3395	5895	29475	52248
9 <sup>th</sup> year	5.2248 ha.	4900	5390	2032-33	3984	6484	32420	52248

Director (C.I.M.),  
HP Power Corporation Limited,  
Himad Building BCS,  
New Shimla-171009 (H.P.)

Deputy Commissioner of Forests,  
Kinnaur Forest Division at N.H. 107, H.P.,

(Signature)

(Signature)

10 <sup>th</sup> year	5 ha.	4900	5390	2033-34	4633	7133	35665	52,248.00
							Total	5,54,769.00
Total a+b								13,35,917.0
Add contingencies charges @ 5%								67,596.00
Departmental Charges @ 17.5%								2,33,785.00
G. Total								16,37,297.50

Muck Dumping Certificate: It is certified that the tree standing on the proposed land will be felled as per the norms of HP Forest Department under the supervision of HP State Forest Development Corporation Ltd. It is also certified that the said area will be developed by user agency. Hence the proposal is being recommended & Approved.

Director (Civil),  
HP Power Corporation Limited,  
Himad Building BCS,  
New Shimla-171009 (H.P.)

Deputy Conservator of Forests,  
Karnah Forest Division at (H.P.)

By (Consent) (Signature) (Date)  
Deputy Conservator of Forests,  
Karnah Forest Division at (H.P.),  
District, Himachal Pradesh, 172009

Consent of User Agency  
Signature  
Date




S. No.	Particular	Area (ha)	Unit Rate (Rs/ha)	Amount (Rs.)
1.	Cost of afforestation including Cost of material	5.2248	152570	7,97,148.00
2.	1 <sup>st</sup> year Maintenance	5.2248	15620	81611.4
3.	2 <sup>nd</sup> year Maintenance	5.2248	10560	55173.9
4.	3 <sup>rd</sup> year Maintenance	5.2248	5390	52248
5.	4 <sup>th</sup> year Maintenance	5.2248	29190	52248
6.	5 <sup>th</sup> year Maintenance	5.2248	32110	52248
7.	6 <sup>th</sup> year Maintenance	5.2248	24360	52248
8.	7 <sup>th</sup> year Maintenance	5.2248	26795	52248
9.	8 <sup>th</sup> year Maintenance	5.2248	29475	52248
10.	9 <sup>th</sup> year Maintenance	5.2248	32420	52248
11.	10 <sup>th</sup> year Maintenance	5.2248	35665	52248.00
			Total	554769.00
	Total(A+B)			1335917.00
	Contingencies (5% of Total Cost)			67596.00
	Departmental Charges @ 17.5%			2,33,785.00
	Grand Total			16,37,297.50

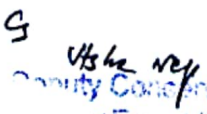
## BUDGET

The total expenditure required for stabilization of these three muck disposal sites has been estimated to be of the order of Rs 24.60 Crore. The details are given in below:

**TABLE**  
Break-up of cost for stabilization of muck disposal sites

S. No.	Items	Cost (Rs. Lakhs)
1.	Construction of check dams wire crates along Dumping sites @Rs. 2080/ m <sup>3</sup>	2,22.83
2.	PCC cladding @ Rs. 4076.5m <sup>3</sup> for 1292 m <sup>3</sup>	52.64

  
Director (Civil),  
HP Power Corporation Limited,  
Himfid Building BCS,  
New Shimla-171009 (H.P.)

  
Deputy Conservator of Forests,  
Forest Division, Shimla

  
Dy. Comm. Manager (E&R),  
H.P. Power Corporation Ltd.,  
District Engineer (H. P.) 172107

3.	Preparation of muck disposal site @ Rs 5.0 Lakhs /ha for 5.2248ha	26.124
4.	Provision of 15 cm soil layer over an area 5.2249 ha @ Rs. 4 lakhs/ha	20.90
5.	Development of vegetation ( Reclamation )	16.38
	Total	2459.46

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*File copy*  
 Deputy Conservator of Forests,  
 Kinnaur Forest Division at RUPPO HP.

*[Signature]*  
 Dy. General Manager (E&RR)  
 Shergarh-Marchant HEP,  
 HPPCL, Redborg Pao,  
 Distt. Kinnaur (H. P.) 172107

*[Signature]*  
 Director (Civil),  
 HP Power Corporation Limited,  
 Himfed Building BCS,  
 New Shimla-171005 (H.P.)

*KSM*  
 General Manager  
 Shergarh-Marchant HEP  
 HPPCL, Redborg Pao  
 Distt. Kinnaur (H.P.)





**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**



**Full Title of the Project:**

Diversion of 7-3722 ha. of forest land in favour of  
Himachal Pradesh Power Corporation Ltd.  
Proposal No. FP/HP/HYD/40611/2019.

**Date of Proposal:**

13 Nov. 2019

**CERTIFICATE FOR RECLAMATION OF MUCK DUMPING**

I, Naveen Sharma, Dy. General Manager, (E&RR) Shongtong Karchham HEP (450 MW), HPPCL, R/Peo, District Kinnaur, Himachal Pradesh on behalf of Himachal Pradesh Power Corporation Limited hereby, undertake that the forest area to be diverted for dumping sites will be developed/afforested as per the reclamation plan of HP Forest Department.

I, Naveen Sharma, Dy. General Manager, (E&RR) Shongtong Karchham HEP (450 MW), HPPCL, R/Peo, Distt. Kinnaur, Himachal Pradesh on behalf of Himachal Pradesh Power Corporation Limited further, undertake that the forest land diverted for muck dumping sites will be return back to HP Forest Department.

**Date:**

**Place:**

*(Signature)*  
**Dy. General Manager**  
**(Name & Signature of User Agency)**  
Shongtong-Karchham HEP,  
HPPCL, Reckong Peo,  
Distt. Kinnaur (H. P.) 172107

*VSK neg*  
**Deputy Conservator of Forests,**  
Kinnaur Forest Division, Reckong-Peo HP.

*(Signature)*  
**Director (Civil),**  
HPPCL, Reckong-Peo,  
Himachal Pradesh Power Corporation Limited,  
Himachal Building BCS,  
New Shimla-171009 (H.P.)

*KMM*  
**General Manager**  
Shongtong-Karchham HEP,  
HPPCL, Reckong Peo,  
Distt. Kinnaur (HP)

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Dumping site situated at up Muhal Rang, Yusaring & Tangling area measuring 05-22-48 ha. Tehsil Kalpa, Range Kalpa, Forest Division Kinnaur, District Kinnaur having capacity of 210965 cum will be used for dumping of excavated muck from the project. After leveling dumping site will be rehabilitated by planting plants like, Popular, Alinthus, Moru, and shrubs i.e Kungia, Kingor, Ban Gulab and other suitable site specific Local species. The reclamation plan for the dumping yard is as under :-

Particulars of works	Area in ha. for raising of 1100 tall plants per ha. with 4 stand RC fence post	Norms of ha. wage rate of Rs. 375/- per day (including 25%)	Add 25% increase due to wage rate from 375/- to 400/- on the norms depicted in col. 3	Years of execution of works	Add 10% escalation in subsequent years	Tentative rates	Total amount (Rs.)	Area planted 5.2248 ha. (16500 tall plant planted)
Initial cost for plantation	(For 05-22-48 ha.) 5742 tall plants	138700 (2023-24)	152570	2024-25	13870	152570	152570	797147.73
<b>Detail of Maintenance of plantation for Ten Years</b>								
1 <sup>st</sup> year	5-2248 ha.	14200	15620	2024-25	1420	15620	15620	81611.4
2 <sup>nd</sup> year	5.2248 ha.	9600	10560	2025-26	960	7986	10560	55173.9
3 <sup>rd</sup> year	5.2248ha.	4900	5390	2026-27	490	5390	5390	52248
4 <sup>th</sup> year	5.2248 ha.	4900	5390	2027-28	2213	5838	29190	52248
5 <sup>th</sup> year	5.2248 ha.	4900	5390	2028-29	2797	6422	32110	52248
6 <sup>th</sup> year	5.2248 ha.	4900	5390	2029-30	2372	4872	24360	52248
7 <sup>th</sup> year	5.2248ha.	4900	5390	2030-31	2859	5359	26795	52248
8 <sup>th</sup> year	5.2248ha.	4900	5390	2031-32	3395	5895	29475	52248
9 <sup>th</sup> year	5.2248 ha.	4900	5390	2032-33	3984	6484	32420	52248

Director (Civil),  
HP Power Corporation Limited,  
Himachal Pradesh,  
New Delhi-110009 (H.P.)

Deputy Conservator of Forests,  
Kinnaur Forest Division at Narnaul, H.P.

General Manager  
Shanglong Karolam HEP,  
HPCL, Shanglong Poo  
Dist. Kinnaur (H.P.)

Dr. General Manager (E&E)



10 <sup>th</sup> year	5 ha.	4900	5390	2033-34	4633	7133	35665	52,248.00
							Total	5,54,769.00
								13,35,917.00
Total a+b								67,596.00
Add contingencies charges @ 5%								2,33,785.00
Departmental Charges @ 17.5%								16,37,297.50
G. Total								

Muck Dumping Certificate: It is certified that the tree standing on the proposed land will be felled as per the norms of HP Forest Department under the supervision of HP State Forest Development Corporation Ltd. It is also certified that the said area will be developed by user agency. Hence the proposal is being recommended & Approved.

Date :-

Place:-

*As my*  
Divisional Forest Officer,  
Kinnaur Forest Division,  
At Reckong Peo, Distt. Kinnaur,  
Himachal Pradesh -172107

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

*✓*  
DY. General Manager (E & RR)  
Shongtong Karchham HEP,  
HPPCL, Reckong Peo Kinnaur.  
Himachal Pradesh -172107

Director (Civil),  
HP Power Corporation Limited,  
Himachal Pradesh BCO,  
New Shimla-171009 (H.P.)



**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**



**Full Title of the Project:**

Diversion of 7-3722 ha. of forest land in favour of Himachal Pradesh Power Corporation Ltd.  
Proposal No. FP/HP/HYD/40611/2019.

**Date of Proposal:**

13 Nov. 2019

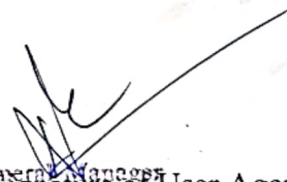
**CERTIFICATE FOR RECLAMATION OF MUCK DUMPING**

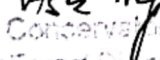
I, Naveen Sharma, Dy. General Manager, (E&RR) Shongtong Karchham HEP (450 MW), HPPCL, R/Peo, District Kinnaur, Himachal Pradesh on behalf of Himachal Pradesh Power Corporation Limited hereby, undertake that the forest area to be diverted for dumping sites will be developed/afforested as per the reclamation plan of HP Forest Department.


I, Naveen Sharma, Dy. General Manager, (E&RR) Shongtong Karchham HEP (450 MW), HPPCL, R/Peo, Distt. Kinnaur, Himachal Pradesh on behalf of Himachal Pradesh Power Corporation Limited further, undertake that the forest land diverted for muck dumping sites will be return back to HP Forest Department.


**Date:**

**Place:**

  
(Name & Signature of User Agency)  
Dy. General Manager  
Shongtong-Karchham HEP,  
HPPCL, Reckong Peo,  
Distt. Kinnaur (H. P.) 172107

  
Deputy Conservator of Forests,  
Kinnaur Forest Division, Reckong Peo, H.P.

  
General Manager  
Shongtong Karchham HEP,  
HPPCL, Reckong Peo  
Distt. Kinnaur (HP)

  
Director (Civil),  
HP Power Corporation Limited,  
Himfed Building BCS,  
New Shimla-171009 (H.P.)



I/295571/2023



**HP State Pollution Control Board**

HIM Parivesh Bhawan, Phase-III, Below BCS, New  
Shimla-09

Phone No. 0177-2673766, 2673020 FAX-0177-  
2673018

**No. HPSPCB/ Shongtong Karchham/(RO Rampur)/ 12969-70**

**Dated:** 12/12/2023

To

✓ The Director (Personnel),  
Shongtong Karchham, HPPCL,  
Shimla-H.P.

**Subject: Diversion of 7.3722 Ha of forest land as addition 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. Himachal Pradesh; concurrence of revised muck management plan request thereof.**

Sir,

This has reference to your office letter no 259-60 dated 18.11.2023, on the subject cited above. In this regard as desired by you the copy of the revised Muck Management Plan duly signed by the concerned DFO Kinnaur and Director Civil HPPCL is hereby attached for perusal and further action. Once the same shall become the part of approved Environment Monitoring Plan, the State PCB will monitor the quality of Air and Water as per the mandate of State board under Water (prevention and Control of Pollution) Act, 1974 and Air (prevention and Control of Pollution) Act, 1981.

Signed by

Anil Joshi

Date: 12-12-2023 14:21:05  
(Anil Joshi, IFS)

Member Secretary

HP State Pollution Control Board

**Endst. No. HPSPCB/ Shong Tong Karchham/ (RO Rampur)/**

**Dated:**

Copy forwarded to the following for information and necessary action:

1. The Asstt. Environmental Engineer, HPSPCB, RO Rampur, Distt. Shimla, H.P.

## हिमाचल प्रदेश सरकार

### वन विभाग

संख्या: एफ.एफ.ई.-बी.-एफ014/1/2023 तारीख: शिमला-2, 11 जनवरी, 2024

### अधिसूचना

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार ने अपने पत्र एफ.संख्या 8-78/2010/एफ.सी., तारीख 14.11.2012 द्वारा हिमाचल प्रदेश पावर कॉरपोरेशन लिमिटेड (एच.पी.पी.सी.एल.) के पक्ष में जिला किन्नौर, हिमाचल प्रदेश में शोंगटोंग-कड़छम जल विद्युत् परियोजना के सन्निर्माण हेतु 63.5015 हैक्टेयर वन भूमि के व्यपवर्तन के लिए जलमग्नता के कारण बने संपूर्ण जलाशय को भारतीय वन अधिनियम, 1927 के अधीन संरक्षित वन के रूप में घोषणा के अध्यक्षीन अनुमोदन प्रदान किया था;

पूर्वोक्त अधिनियम के अधीन संरक्षित वन के रूप में जलाशय क्षेत्र की घोषणा, सांस्कृतिक और सौंदर्यपरक सेवाओं सहित जल व्यवस्था की पारिस्थितिकीय प्रणाली (ईको सिस्टम) सेवाओं को प्रदान करने के अतिरिक्त प्रवासी पक्षियों, सरीसृपों, मछलियों और सूक्ष्म जीव-जन्तुओं आदि हेतु व्यवहार्य आवास प्रदान करेगी;

अतः हिमाचल प्रदेश के राज्यपाल, भारतीय वन अधिनियम, 1927 की धारा 4 की उप-धारा (1) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, जलमग्नता के कारण बने 27.7605 हैक्टेयर (27.0107 हैक्टेयर वन भूमि और 0.7498 हैक्टेयर प्राइवेट भूमि) के क्षेत्रफल वाले शोंगटोंग-कड़छम जल विद्युत् परियोजना के संपूर्ण जलाशय को संरक्षित वन के रूप में सृजित करते हैं। प्रस्तावित संरक्षित वन की सीमाएं निम्न प्रकार से होंगी:-

**उत्तर:-**उत्तरी सीमा ग्राम पंचायत पोवारी के पोर गांव से प्रारम्भ होकर जी.पी.एस. को-ऑर्डिनेट  $31^{\circ}33'19.02''$  उत्तर  $78^{\circ}16'51.11''$  पूर्व में 1986 मीटर की ऊंचाई के साथ

**पश्चिम:-**पश्चिम (उत्तर-पश्चिम) सीमा, रिकांगपियो (जिला मुख्यालय) के पहुंच मार्ग के संगम बिन्दु के समीप राष्ट्रीय उच्च मार्ग 05 पर सतलुज नदी की दायीं तरफ से प्रारम्भ होकर जी.पी.एस. को-ऑर्डिनेट  $31^{\circ}32'54.96''$  उत्तर  $78^{\circ}16'44.20''$  पूर्व सहित 1990 मीटर की ऊंचाई तक

**पूर्व:-**पूर्व (दक्षिण-पूर्व) सीमा, बैराज धुरी सड़क समीप से ग्राम पंचायत पोवारी के अन्तर्गत पुरबनी गांव तक जी.पी.एस. को-ऑर्डिनेट



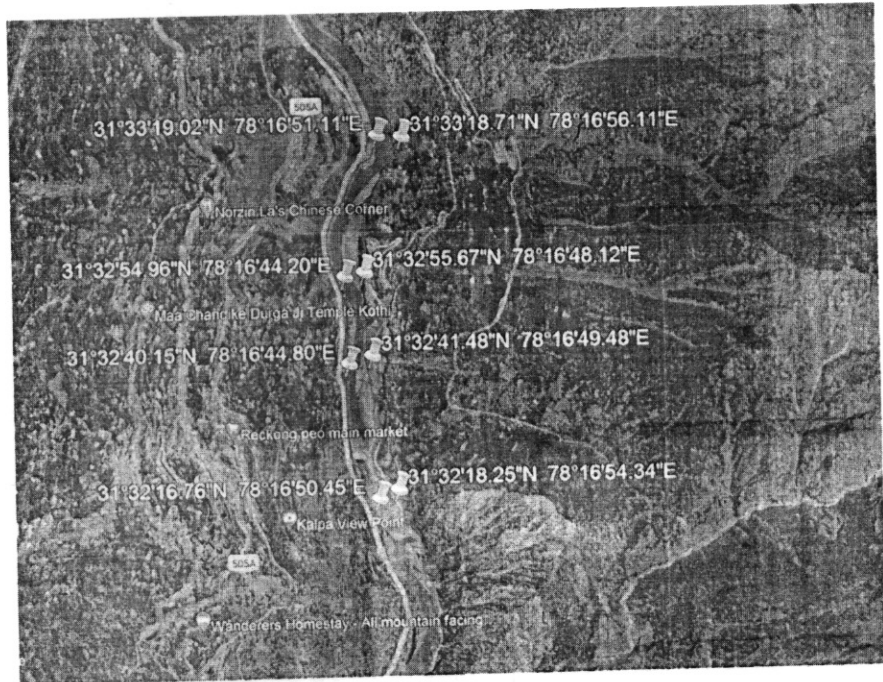
31°32'40.15"उत्तर 78°16'44.80"पूर्व सहित 1982 की मीटर की ऊंचाई तक

**दक्षिण:**—दक्षिण (दक्षिण-पश्चिम) सीमा 1981 मीटर की ऊंचाई पर खवांगी गांव में एन.एच.-05 के पास सतलुज नदी के दाहिने किनारे से प्रारम्भ होती है जी.पी.एस. को-ऑर्डिनेट 31°32'16.76"उत्तर 78°16'50.45"पूर्व

जलमग्नता शोंगटोंग-कड़छम जल विद्युत् परियोजना के प्रमुख जी.पी.एस. स्थान निम्नलिखित तालिका के अनुसार हैं:-

क्रम संख्या	अक्षांश	देशांतर	ऊंचाई
1.	31°33'19.02" उ०	78°16'51.11"पू०	1986
2.	31°32'54.96"उ०	78°16'44.20"पू०	1990
3.	31°32'40.15"उ०	78°16'44.80"पू०	1982
4.	31°32'16.76"उ०	78°16'50.45"पू०	1981
5.	31° 32'18.25"उ०	78°16'54.34"पू०	2050
6.	31°32'41.48"उ०	78°16'49.48"पू०	2029
7.	31°32'55.67"उ०	78°16'48.12"पू०	2014
8.	31°33'18.71"उ०	78°16'56.11"पू०	2026

हिमाचल प्रदेश के किन्नौर में शोंगटोंग-कड़छम जल विद्युत् परियोजना के प्रस्तावित संरक्षित वन क्षेत्र का गूगल मानचित्र निम्नलिखित है:-



इसके अतिरिक्त, राज्यपाल, हिमाचल प्रदेश, भारतीय वन अधिनियम, 1927 की धारा-4 की उप-धारा (1) के खण्ड (ग) द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, पूर्वोक्त सीमाओं की भीतर या किसी वन उपज में सम्मिलित किसी भी भूमि में या उस पर किसी भी व्यक्ति के पक्ष में विद्यमान किसी भी अधिकार के अस्तित्व, प्रकृति और सीमा की जांच और अवधारणा करने और उसका निपटान करने हेतु, भारतीय वन अधिनियम, 1927 के अध्याय-II में यथा उपबंधित, सहायक बंदोबस्त अधिकारी, शिमला को, वन बंदोबस्त अधिकारी के रूप में नियुक्त करते हैं।

आदेश द्वारा,

डॉ० अमनदीप गर्ग, भा.प्र.से.

प्रधान सचिव (वन)

हिमाचल प्रदेश सरकार

पृष्ठांकन संख्या: यथोपरि

तारीख: शिमला-2,

11 जनवरी, 2024

प्रतिलिपि निम्नलिखित को प्रेषित है:-

1. सहायक वन महानिरीक्षक, पर्यावरण, वन एवं जलवायु परिवर्तन मन्त्रालय (वन संरक्षण प्रभाग), भारत सरकार, इन्दिरा पर्यावरण भवन, जोर बाग रोड़, अलीगंज, नई दिल्ली को उनके पत्र संख्या एफ.संख्या 8-78/2010/एफ.सी., तारीख 14.11.2012 के सन्दर्भ में।
2. वित्तायुक्त एवं-प्रधान सचिव (राजस्व) हिमाचल प्रदेश सरकार, शिमला-2
3. अतिरिक्त विधि परामर्शी एवं अतिरिक्त सचिव (विधि), हिमाचल प्रदेश सरकार।
4. प्रधान मुख्य अरण्यपाल (वन बल प्रमुख), हिमाचल प्रदेश, शिमला-01
5. प्रधान मुख्य अरण्यपाल (वन्य जीव), हिमाचल प्रदेश, शिमला-01
6. अतिरिक्त प्रधान मुख्य अरण्यपाल-एवं-नोडल अधिकारी (एफ.सी.ए.), हिमाचल प्रदेश, शिमला-01
7. अतिरिक्त प्रधान मुख्य अरण्यपाल (कार्य योजना एवं बंदोबस्त.), मण्डी, हिमाचल प्रदेश
8. प्रबन्ध निदेशक, हिमाचल प्रदेश पावर कोरपोरेशन लिमिटेड, शिमला-09
9. उपायुक्त, किन्नौर, जिला किन्नौर, हिमाचल प्रदेश।
10. सहायक बंदोबस्त अधिकारी, शिमला, हिमाचल प्रदेश।
11. मुख्य अरण्यपाल, रामपुर वन वृत्त, हिमाचल प्रदेश।
12. वन मण्डल अधिकारी, किन्नौर वन मण्डल, जिला किन्नौर, हिमाचल प्रदेश।
13. नियंत्रक, मुद्रण एवं लेखन विभाग, शिमला-5 को राजपत्र (असाधारण), हिमाचल प्रदेश में प्रकाशन हेतु।
14. संरक्षक नस्ति।

(विजय कुमार, भा.प्र.से.)

विशेष सचिव (वन)

हिमाचल प्रदेश सरकार

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(Authoritative English Text of this Department's Notification No. FFE-B-F014/1/2023 dated 11<sup>th</sup> January, 2024 as required under clause(3) of article 348 of the Constitution of India).

Government of Himachal Pradesh  
Department of Forest

No. FFE-B-F014/1/2023      Dated: Shimla-2, the

11<sup>th</sup> January, 2024

NOTIFICATION

WHEREAS, the Government of India, Ministry of Environment, Forest and Climate Change, vide its letter No. F. No. 8-78/2010/FC dated 14-11-2012 conveyed the approval for diversion of 63.5015 ha of forest land for the construction of Shongtong – Karcham Hydro Electric Project in Kinnaur District, Himachal Pradesh in favour of Himachal Pradesh Power Corporation Limited (HPPCL) subject to declaration of entire reservoir created due to submergence as Reserve Forest under Indian Forest Act, 1927;

AND WHEREAS, the declaration of reservoir area as Reserve Forest under the Act Ibid will provide viable habitat for migratory birds, reptiles, fishes and micro fauna etc. besides providing eco system services of water provision with cultural and aesthetical services;

NOW THEREFORE, in exercise of powers conferred by sub-section(1) of section 4 of the Indian Forest Act, 1927, the Governor of Himachal Pradesh is pleased to constitute the entire reservoir of the Shongtong Karcham Hydro Electric Project measuring 27.7605 ha (27.0107 ha forest land and 0.7498 ha private land) created due to submergence as Reserve Forest. The boundaries of the proposed Reserve Forest will be as under-

**North:-** North boundary starting from the Por village of Gram Panchayat Powari with an altitude of 1986 meters GPS Co-ordinate 31°33'19.02"N 78°16'51.11"E

**West:-** West (North West) boundary starting from right bank of river Satluj at NH-05 near junction point of approach road to ReckongPeo (Distt. Headquarter) at altitude of 1990 meters with GPS Co-ordinate 31°32'54.96"N 78°16'44.20"E



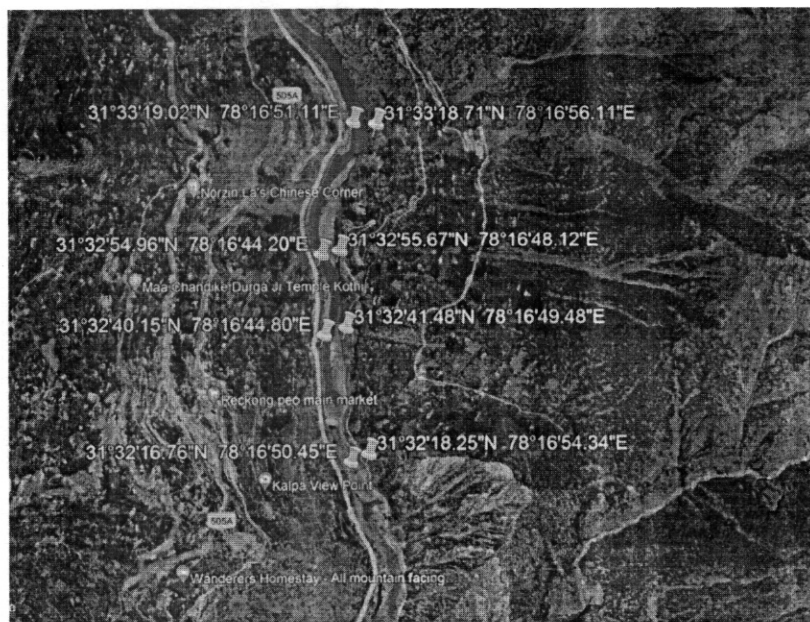
**East:-** East (South East) boundary starting from near barrage axis road to Purbani Village under Gram Panchayat Powari at an altitude of 1982 meters with GPS Co-ordinate 31°32'40.15"N 78°16'44.80"E

**South:-** South (South West) boundary starting from right bank of river Satluj near NH-05 at Khawangi Village at an altitude of 1981 meters with GPS Co-ordinate 31°32'16.76"N 78°16'50.45"E

The prominent GPS locations of the submergence of Shongthong- Karcham Hydro Electric Project is as the table below:-

Sr. No.	Latitude	Longitude	Altitude
1	31° 33'19.02"N	78°16'51.11"E	1986
2	31°32'54.96"N	78°16'44.20"E	1990
3	31°32'40.15"N	78°16'44.80"E	1982
4	31°32'16.76"N	78°16'50.45"E	1981
5	31° 32'18.25"N	78°16'54.34"E	2050
6	31°32'41.48"N	78°16'49.48"E	2029
7	31°32'55.67"N	78°16'48.12"E	2014
8	31°33'18.71"N	78°16'56.11"E	2026

The Google map of the proposed of the Reserved Forest Area of Shongtong-Karcham Hydro Electric Project in Kinnaur, H.P. is as under:-



FURTHER, in exercise of the powers conferred by clause (c) of sub-section(1) of section-4 of the Indian Forest Act, 1927, the Governor, Himachal Pradesh is also pleased to appoint Assistant Settlement Officer, Shimla as Forest Settlement Officer to inquire into and determine the existence, nature and extent of any rights alleged to exist in favour of any person in or over any land comprised within aforesaid limits, or in or over any forest-produce, and to deal with the same as provided in Chapter-II of Indian Forest Act, 1927.

By order

Dr. Amandeep Garg, IAS  
Principal Secretary (Forest) to the  
Government of Himachal Pradesh.

**Endst: As above**

**Dated Shimla-2, the**

**11<sup>th</sup> January, 2024**

Copy is forwarded for information & necessary action to the followings:-

1. The Assistant Inspector General of Forest, Govt. of India, Ministry of Environment Forest and Climate Change (Forest Conservation Division), Indira Paryavaran Bhawan, Jor Bagh Road, Aliganj, New Delhi w.r.t. his letter No. 8-78/2010-FC dated 14-11-2012.
2. The Financial Commissioner-cum-Principal Secretary (Revenue) to the Govt. of Himachal Pradesh, Shimla, H.P.-171001.
3. The Addl. LR-cum-Additional Secretary(Law) to the Government of Himachal Pradesh, Shimla, 171002.
4. The Principal Chief Conservator of Forest (HoFF), H.P. Talland Shimla-171001.
5. The Principal Chief Conservator of Forest (WL), H.P. Talland Shimla-171001.
6. The Addl. Pr. Chief Conservator of Forest –cum-Nodal Officer (FCA), Himachal Pradesh, Shimla-171001.
7. The Addl. Pr. Chief Conservator of Forest (Working Plan & Settlement), Mandi, Distt. Mandi, Himachal Pradesh.
8. The Managing Director, Himachal Pradesh Power Corporation Ltd.(HPPCL), Shimla, Himachal Pradesh-171009.
9. The Deputy Commissioner, Kinnaur, Distt. Kinnaur, Himachal Pradesh
10. The Assistant Settlement Officer, Shimla, Himachal Pradesh-171009.
11. The Chief Conservator of Forest, Rampur Forest Circle, Himachal Pradesh.
12. The Divisional Forest Officer, Forest Division Kinnaur, Distt. Kinnaur, Himachal Pradesh.
13. The Controller, H.P. Printing & Stationery Department, Shimla-5 for publication in the Rajpatra, Himachal Pradesh.
14. Guard file.

Special Secretary (Forests) to the  
Government of Himachal Pradesh.

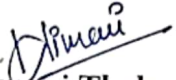



Himachal Pradesh Power Corporation Limited  
(A State Government Undertaking)  
HIMFED Building, BCS, New Shimla-171009.  
Phone No. 0177- 2671812

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### **CERTIFICATE**

This is to certify that the instant Civil Writ Petition CWP No. 3915 of 2023 titled as Durga Chand & Others Vs Union of India and Others pending for adjudication before the Hon'ble High Court of Himachal Pradesh pertaining to the Shongtong Karchham, Hydro Electric Project, HPPCL, Rekong Peo, Distt. Kinnaur, HP has no bearing on the instant proposal for diversion of additional forest land measuring 07-37-22 hectares.

  
Himani Thakur  
Asstt. Officer (Law)  
HPPCL, Himfed Building, BCS,  
New Shimla – 171009

  
Amit Kumar Sharma, IAS  
Director (Personnel)  
HPPCL, Himfed Building, BCS,  
New Shimla– 171009



1410/2023

No. FFE-B-F (14)-30/2021  
Government of Himachal Pradesh  
Department of Forests.

From

Secretary (Forests) to the  
Government of Himachal Pradesh.

To

The Principal Chief Conservator of Forests (HoFF)  
Himachal Pradesh, Talland, Shimla-171001.

Dated: Shimla-2, the

20<sup>th</sup> December, 2023.

**Subject:-** Regarding declaration of the entire reservoir of 402 MW Shongtong-Karcham Hydro Electric Project created due to submergence as Reserve Forest under Indian Forest Act, 1927 under Kinnaur Forest Division, Distt. Kinnaur, Himachal Pradesh.

Sir,

I am directed to refer to your letter No. Ft.54-28/2019 (Mgt.) WP dated 13-12-2023 and received on 15-12-2023 on the subject cited above and to say that the proposal for declaring submergence area measuring 27.0107 ha. of Shongtong Karcham Hydro Electric Project as Reserve Forest under Section-4 of the Indian Forest Act, 1927 and is presently under consideration of the Government level.

Yours faithfully,

*sd/-*

(Vijay Kumar, IAS)  
Special Secretary (Forests) to the  
Government of Himachal Pradesh.

Endst. No. As above. Dated: Shimla-2, the 20<sup>th</sup> December, 2023  
Copy forwarded to the Managing Director, H.P. Power Corporation Ltd. Shimla, H.P. for information.

Signed by Vijay Kumar  
Date: 20-12-2023 10:35:01  
(Vijay Kumar, IAS)  
Reason: Approved  
Special Secretary (Forests) to the  
Government of Himachal Pradesh