# HPFD-F05/243/2023 FCA-HIMACHAL PRADESH FOREST DEPARTMENT

#### 1/254774/2023

¢.,

No.Ft.48-4019/2011 (FCA) H.P.Forest Department.

From

Nodal Officer-cum-APCCF (FCA) O/o Pr.CCF(HoFF), H.P. Shimla..

To

The Assistant Inspector General of Forests (FC), Govt. of India, Ministry of Environment, Forests & Climate Change, (Forest Conservation Division) Indira Paryavaran Bhawan, Aliganj, Jor Bagh Road, New Delhi-110003.

Dated Shimla-1, the

Subject:

Diversion of 7.3722 ha of forest land as additional forest land requirement in already approved diversion in favour of Shongtong Karchham Hydro Electric Project, HPPCL under the jurisdiction of Kinnaur Forest Division, Distt. Kinnaur, Himachal Pradesh (Online Proposal No. FP/HP/HYD/40611/2019).

Sir,

Kindly refer to your letter No. 8-78/2010-FC dated 08.08.2023 on the subject cited above.

The point wise reply to the observations as raised your above referred 2. communication is submitted as below:-

> In the earlier approved proposal of 63.5015 ha there were 6 Nos. dumping 1. sites. Whereas in the instant diversion proposal for 7.3722 ha. there are 4 Nos. proposed dumping sites, the comparative list is as under: -

Approved dumping sites in the earlier diverted 63.5015 ha.			Proposed dumping sites in additional FC case 7.3722 ha.		
Dumping site	Kh. No	Area in ha.	Dumping site	Kh. No	Area in ha.
D.S.1	470	1.1383	DS-A	2/2	2.3813
D.S. 2	301, 648, 805	0.3794	DS-B	2/1	1.1005
D.S. 3	724/576/1, 571/1	0.8928	DS-C	561/1, 568, 569	1.4470
D.S. 4	4/1,	1.2450	DS-D	3/2	0.2960
D.S. 5	303/2	0.8626			
D.S. 6	24/1/24/2	0.5819			5.2248
	Total	5.1			0.111

- 1. KML file of earlier diverted dumping sites DS-1 to DS-6 of forest land has been . KML file of submitted through this office email dated \_\_\_\_\_ proposed dumping sites i.e. DS-A to DS-D has been uploaded online in Part-I Column No. C (b) (1).
- 2. CCF Rampur has reported that the project proponent has dumped 48,401.0 cum of muck in designated Dumping Site No. 4 as per the actual quantity/capacity

#### HPFD-F05/243/2023-FCA-HIMACHAL PRADESH FOREST DEPARTMENT

#### I/254774/2023

of dumping site. This position is also stated in response to observation 'Para No 3' vide this office Memo No. 1561 dated 15.07.2023. Further, DS-4 could not be used fully for dumping. Due to landslide in and around the dumping site, the capacity of designated site reduced drastically. To make up for above deficit HPPCL has dumped muck on private land on specific request of the local people. In addition to above, forest land measuring 5.2248 ha. at four locations have been requested for diversion in present proposal for dumping of muck. Justification to this effect has been attached as **Annexure-A.** User Agency has uploaded the copy of Jamabandi in part- I against additional information at Sr No 20.

- 3. As per user agency Muck Management Plan has been sent to H.P. State Pollution Control Board (HPSCB) for seeking approval. The copy of Muck management Plan of the proposed site is attached as **Annexure-B**. The approved Muck Management Plan will be submitted before Stage-II approval. Undertaking to this is attached as **Annexure-C**.
- 4. The total outlay of revised CAT Plan in respect of Shongtong Karcham HEP. is for Rs.70,19,57,500/- which is 2.5% of total project cost i. e. Rs.2807.83 Crore. The cost of CAT was deposited in two installments as below:-

Date of Deposition	Amount deposited	Remarks
01.10.2012	604400000	Copy of Receipt enclosed as Annexure-D
12.07.2023	97557500	Copy of Receipt enclosed as <b>Annexure-E</b>
Total	701957500	

As per DFO Kinnaur reason for slow progress of implementation of CAT is due to limited working period and harsh weather condition in the Kinnaur area. In addition to this due to frequent changes in the climatic condition of the area in last few decades where CAT was to be implemented is also a reason for slow progress of CAT implementation.

5. To comply with the Stipulation No 15 of GOI dated 14.11.2022 project proponent had deposited an amount of Rs. 1,36,73,737/- vide demand Draft No 630174 dated 21.04.2011 with HP Forest Department. Accordingly in Kinnaur Forest Division during the year 2016-17 & 2017-18 plantations were raised over 125 ha and also expenditure of Rs.1,36,74,200/- incurred to regenerate the equivalent area of degraded forest land. The detail is as under:-

Year of	Name of	Name of area	Area in Ha.	Amount
Plantation	Range/Block/Beat			utilized
2016-17	Lippa	C-216	10	625000
	Pangi	C-234	5	312500
	Roghi	C-245	10	625000
	Rarang	UF-Thopan	10	625000
	Moorang	UF-Shurting	10	625000
	Leo	UF-Chulling	5	312500

#### HPFD-F05/243/2023-FCA-HIMACHAL PRADESH FOREST DEPARTMENT

Kalpa	C-239	10	625000
Cost of plants			1485000
Cost of material			816300
B/wire etc			
•	Sub-Total	60	6051300
Rarang	UF-Rarang	15	937500
Pangi	C-237	5	312500
Roghi	C-244	10	625000
Rarang	RF-Khadra	10	625000
Moorang	C-197	10	625000
Skibba	C-187	5	312500
Kalpa	C-240	10	625000
Cost of plants			1608750
Maintt of plantation		60	528000
Cost of material			1423650
	Sub-Total	65(new Plantation)	7622900
	G. Total	125	13674200
	Cost of plants Cost of material B/wire etc Rarang Pangi Roghi Rarang Moorang Skibba Kalpa Cost of plants Maintt of plantation	Cost of plantsImage: Cost of material B/wire etcB/wire etcSub-TotalRarangUF-RarangPangiC-237RoghiC-237RoghiC-244RarangRF-KhadraMoorangC-197SkibbaC-187KalpaC-240Cost of plantsImage: Cost of plantsMaintt of plantationImage: Cost of materialSub-TotalSub-Total	Cost of plantsImage: Cost of material B/wire etcImage: Cost of material B/wire etcEmail Cost of material B/wire etc60Email Cost of plantsC-2375PangiC-2375RoghiC-24410RarangRF-Khadra10MoorangC-19710SkibbaC-1875KalpaC-24010Cost of plantsImage: Cost of plants60Maintt of plantationGo60Cost of materialEmail Cost of plants60Email Cost of materialEmail Cost of plants60Cost of materialEmail Cost of plants60Cost of materialEmail Cost of plants60Cost of materialEmail Cost of plantation60Cost of materialEmail Cost of plants60Cost of materialEmail Cost of plantation60Cost of plantationCost of plantation

The progress reports and utilization certificate are enclosed as **Annexure-F**, **G**, **H**.

6. CCF Rampur has reported that the Shongtong Project is a flagship project as conveyed by Project proponent and the largest one undertaken by GoHP so far. Due to various reasons project has got delayed. The stated violation has happened in silt flushing area which is critical for the commissioning of the Project and is getting completed as a last activity of the project. In the instant FCA proposal which seeks diversion of this patch of land was submitted way back in October 2019; however, due to repeated objections at different levels the proposal is still not approved. HPPCL had started the work with the hope that proposal will get through in due course. So the work was started with greater public interest in mind and not due to any vested interest. As per DFO Kinnaur no damage report etc was issued against the project authorities for the violation in the Silt Flushing Area measuring 0.5883 ha. The Silt Flushing Component measuring 0.8595 ha including violation area measuring 0.5883 ha has also been included in the present proposal for seeking approval of GOI under FCA, 1980.

DFO Kinnaur has calculated Penal NPV in this case for Rs. 41, 21,058.0 with 12% interest from the date of reporting violation. The bill of NPV has been uploaded in Part-II as Additional information at Sr. No.6 Further also intimated by DFO Kinnaur that the works on area in question ha also been completely stopped and no construction activities are going on.

7. CCF Rampur has reported that the Project proponent has already taken up the matter with Deputy Commissioner, District Kinnaur and with his office to declare the reservoir to be created due to submergence as Reserve Forest. The declaration of reservoir as RF is a time taking process and there is certain SOP to be followed prior to completion of the project. As per user agency the works of project has already been delayed and the diversion of 7.3722 ha of forest land

I/254774/2023

#### HPFD-F05/243/2023-FCA-HIMACHAL PRADESH FOREST DEPARTMENT

#### l/254774/2023

is very critical for the progress of the Project. It is therefore requested that the two issues may not be linked.

- 8. CCF Rampur has reported that the area measuring 0.5883 ha. for Adit –I & 1.1005 ha. for dumping site below Adit –I, has been included in the present proposal for diversion of 7.3722 ha of additional forest land. A portion of the road to RBM site measuring 0.1360 ha. was inadvertently left out in previous proposal due to its proximity with the larger patch diverted in original proposal of 60.5015 ha. Therefore this patch was included in the present proposal. As far as overlapping of the area with Barrage component is concerned the same has being rectified and revised KML file has been uploaded on portal.
- 9. KML file of earlier diversion of 63.5015 ha. of forest land has been submitted through this office email dated \_\_\_\_\_\_.

It is, therefore requested that the Stage- I approval of the proposal may please be conveyed. This is for favour of your kind information and further necessary action in the matter please.

Yours faithfully,

Nodal Officer–cum-APCCF (FCA) O/o Pr.CCF(HoFF), H.P. Shimla.

Annexure-A

## JUSTIFICATION FOR NON-DUMPING OF MUCK IN DESIGNATED SITE OF DS-4

The project proponent has dumped 48,401.0 cum of muck in designated dumping site no. 4 as per the actual quantity/capacity of dumping site. This position is also stated in response to observation 'Para no 3' of reply by HP state Govt. dated 16.July 2023. Further, DS-4 could not be used fully for dumping due to the following reasons:-

1. Due to landslide in and around the dumping site the capacity of designated sites reduced drastically.

In addition to above, the forest land measuring 5.2248 ha. at four locations has been requested for diversion in instant proposal for dumping of muck.

Deputy Conservator of Forests, Kinnaur Forest Division at R/Peo H.P

Kolnow Marcon, CL Reckong Peo Monaur (HP) 172107



# HIMACHAL PRADESH POWER COROPORATION LIMITED



# Draft Muck Management Plan For Shongtong Karchham HEP (450 MW) Prepared by WAPCOS Ltd.

Reckongpeo Distt, Kinnaur

# (2/18)

### MUCK MANAGEMENT PLAN

#### 1. INTRODUCTION

A large quantity of muck is expected to be generated as a result of tunneling operations, construction of roads, and construction of Barrage etc. Muck generated from excavation of any project component is required to be disposed off in a planned manner so that it takes least possible space and is not hazardous to the surroundings and environment. The muck disposal sites cause increased sedimentation in the rivers (though insignificant compared to natural sedimentation) and totally spoils the visual aesthetics of the area. It is of prime importance that these sites will have to be rehabilitated as soon as the disposal sites are full.

## 2. MUCK GENERATION

A large quantity of muck is expected to be generated as a result of tunneling operations, construction of roads, and construction of Barrage etc. The total quantity of muck to be generated is about 2.364 Mm<sup>3</sup>. This includes 0.234 Mm<sup>3</sup> of open excavation and 2.13 Mm<sup>3</sup> of underground excavation. The component wise details of muck to be generated are given in Table-1. The break-up of muck generation by open and underground excavation is given in Table-2. Details of component wise muck already generated and balance to be generated is given in Table-3. The excess muck has to be dumped at nine (9) number sites.

S. No.	Component description	Quantity (Cum)
Α	Barrage Complex	
	Diversion Tunnel	68,804
	Adits	61826
	Descending Chamber	405248
	Main Feeder Tunnel & Branch Feeder Tunnels	31072
	Silt Flushing Tunnel and intake tunnels	143183
	Barrage including stilling Basin& Intake structure	187844
	Sub Total	897977
В	HRT &Adits	
	Adits	130169
	HRT	840934
	Sub Total	971103
	РНС	
	MAT adit-4 to power house bottom VT &Adit to TH	47529

Table-1: Component wise detail of muck to be generated

WAPCOS Limited

S. No.	Component description	Quantity (Cum)
37334824	crown	
	Power House cavern and bus Ducts	136749
and the	TH Cavern & cable tunnel	53590
	Surge Gallery , Surge Chamber , Draft Tube, Adit to DT Gate chamber & Gate Grooves / Shaft	42295
1 1 1 1 M 1	TRT and Appurtenant works	38540
A	Sub Total	318703
D	Surge Shaft, BVC& Pressure Shaft	And all and a second
Marrie Marrie	Adits and Surge shaft	117428
	BVC	19819
	Pressure shaft s	27861
	Road to surge Shaft	10195
-	Sub Total	175304
	Grand total (A+B+C+D)	23,633,087.0

# Table-2: Bifurcation of Component wise muck to be Generated from Open and Underground excavation

S.	Name Of Component	Quantity of muck Excavated (m <sup>3</sup> )			
No.		Open Excavation	Underground Excavation	Total	
1	River Diversion works	-	68804	68804	
2	Diversion Barrage	187844	467074	654918	
3	Intake Sedimentation Chamber and flushing tunnels (Silt Flushing Tunnel and intake tunnels, Main Feeder Tunnel & Branch Feeder Tunnels)	-	174255	174255	
4	HTR and Construction	10,810	960293	971103.	
<del>4</del> 5	Surge Shaft		117428	127623	
6	Pressure shaft and valve chamber	-	47680	47680	
7	Power House Complex	21,000	259163	280163	
8	TRT Outfall	4700	33840	38540	
0	Roads	10195	-	10195	
	Total	2,34,549	21,28,537	23,63,086	



Table-3: Details of component wise muck generated till date and balance	to be
generated	

S.	<b>Component Description</b>	Quantity of Muck (CUM)			
No		Total	Generated	Balance	
1	Barrage complex	8,97,977	5,42,020	3,55,957.00	
2	Head Race Tunnel	9,71,103	6,98,141	2,72,962.00	
3	Power House complex	3,15,613	2,71,067	44,546.00	
4	Surge Shaft	1,75,304	88,045	87,259.00	
	Total	23,59,997	15,99,273	7,60,724.00	

## 3. MUCK DISPOSAL

Considering a swelling factor of 40%, the quantity of muck to be generated is 2.3 Mm<sup>3</sup>. About 0.141 Mm<sup>3</sup> of muck shall be used as backfill, while 0.117 Mm<sup>3</sup> of muck shall be used as a construction material/protection works. The balance, i.e. (2.3- 0.141 -0.117) 2.042 Mm<sup>3</sup> of muck shall be disposed at designated sites. The details of muck disposal sites and component wise muck disposal is given in Table-4. The muck disposal sites are shown in Figure-1.

Table-4: Component-wise details of Muck utilized

S. No.	Description of items	Backfill & wire crates	Construction material (Aggregate & sand)
1	Barrage Area Filling & Wire crates	103120.00	60000.00
2	HRT (shotcrete)		10422.00
3	Power House Complex		2864.00
4	Surge Shaft, BVC etc.		19728.00
5	Aggregate and sand under R & R scheme		10000.00
6	Protection works in Dumping area	38060.0	14853.00
	Total	1,41,180.00	1,17,867

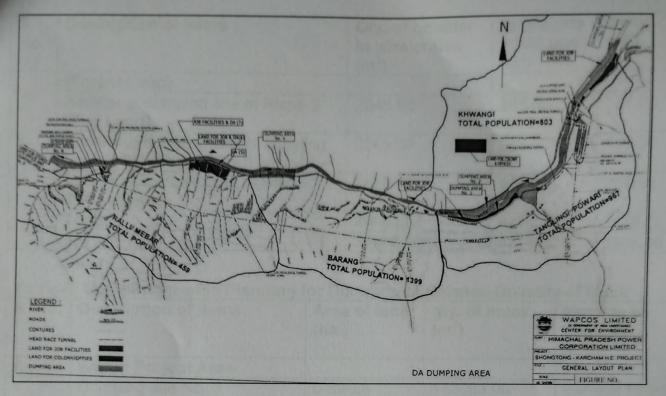


Figure-1 Location of Muck Dumping Sites

Normally, muck is disposed in low-lying areas or depressions. Trees, if any, are cut before muck disposal, however, shrubs, grass or other types of undergrowth in the muck disposal at sites perish. The total area earmarked for muck disposal is 10.0944 ha.

The detail of muck dumping sites along with much utilization are given in Table-5. The component wise planning for disposal of balance quantity of muck is given in Table-6.

S. No.	Description of items	Qty. of boulder in wire crates (m <sup>3</sup> )	Aggregate 10-20 mm (m <sup>3</sup> )	Sand (m <sup>3</sup> )
1	Dumping site No. 3	6078.13	2214.71	1183.83
2	Dumping site No. 4	10226.58	4777.34	2522.87
3	Additional dumping site adjoining to dumping site No- 3 (Forest land)	5664.06	643.00	341.00
4	Additional dumping site near Adit No. 2 (Forest land)	2683.59	250.00	132.00
5	Additional dumping site at Thopan(Pvt. Land)	2250.00	582.00	307.00
6	Additional dumping site at Rispa-2	3867.19	332.78	172.13

## Table-5: Details of Muck Dumping sites along with utilization of muck

HPPCL EMP study for Shongtong-Karchham hydroelectric project(450MW)

S. No.	Description of items	Qty. of boulder in wire crates (m <sup>3</sup> )	Aggregate 10-20 mm (m <sup>3</sup> )	Sand (m <sup>3</sup> )
	(Forest Land)			
7	Additional dumping site at Rispa-2 (Pvt. Land)	2046.88	245.60	127.04
8	Additional dumping site at Tangling near Adit-1 (Forest Land)	2345.00	256.00	135.00
9	Additional dumping site at Rispa-1 (Private Land).	2898.44	414.99	214.65
	Total	38059.87	9716.42	5135.52
1-11-21	Say	38060.00	9716.00	5508.00

# Table-6: Component-wise Planning for Dumping of Balance Quantity of Muck

S. No.		Area of land (ha.)	qty. of muck (m <sup>3</sup> )	Muck to be dumped from
Α	Within Project Area			
1	Dumping site No. 3	0-89-28	183063.00	Barrage Head Race Tunnel Power House Complex & Surge Shaft
2	Army reclamation site No. 4	2-45-84	20,4545	do
3	Dumping site adjoining to dumping site No- 3 (Forest land)	1-44-70	83,423	do
4	Dumping site near adit No. 2 (Forest land)	0-29-60	45,271	do
5	Dumping site at Tangling near Adit-1 (Forest Land)	03-39-18	18,500	Barrage Head Race Tunnel (Adit-1)
6	Pvt. Land near DS -3.	1-10-97	1,00,236.71	-do-
0	Sub Total	09-59-57	6,35,038.71	
В	Out of Project Area			
1	Dumping site at Thopan (Pvt. Land) -9 Km	0-54-62	(72074-27396) = 44,678	do
2	Additional Dumping site at Rispa-1 (Pvt. Land) - 19 Km.	7-32-12	(443137- 36409.96) = 1,06,727.04	Barrage Head Race Tunnel
3 (i)	Dumping site at Rispa-2 (Pvt. Land) - 19 Km.	0-25-60	1,21,660	do
(ii)	Dumping site at Rispa-2 (Forest Land) - 19 Km.	5- 22-25	2,04,482	do

HPPCL EMP study for Shongtong-Karchham hydroelectric project(450MW)

S. No.	Description of items	Area of land (ha.)	qty. of muck (m <sup>3</sup> )	Muck to be dumped from
1 1 57 100	Sub Total	13-34-59	4,77,547	
	Grand Total A + B	21-83-19	11,12,585	

Muck generated from excavation of any project component is required to be disposed in a planned manner so that it takes a least possible space and is not hazardous to the environment. In the hilly area, dumping is done after creating terraces thus usable terraces are developed. The overall idea is to enhance/maintain aesthetic view in the surrounding area of the project in post-construction period and avoid contamination of any land or water resource due to muck disposal. It is always preferable to dump the mucks within the project area. The Dumping site near DS-3 is not usable as the Forest Clearance is yet to be received. The additional mucks to be generated are proposed to be transported outside of project area and dumped identified dumping sites. The contractor shall charge for carrying of muck @Rs.99/m<sup>3</sup>/km. The details of muck handling charges are given in Table-7 below:

Table-7: Details of Muck Handling charges

S. No.	Name of the disposal site	Quantity (m <sup>3</sup> )	Amount (Rs. lakh)
1	Dumping site at Thopan (Pvt. Land)	44,678	
	-9 Km		398.0
2	Additional Dumping site at Rispa-1	1,06,727	
-	(Pvt. Land) - 19 Km.		2007.5
3 (i)	Dumping site at Rispa-2 (Pvt. Land) -	1,21,660	
0 (1)	19 Km.		2288.4
(ii)	Dumping site at Rispa-2 (Forest	2,04,482	
(11)	Land) - 19 Km.		3846.3
	Total		8540.3

There are two muck dumping sites no.1 and 6, which are un-utilized as on date.

# 4. 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.

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

#### **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

HPPCL EMP study for Shongtong-Karchham hydroelectric project(450MW)

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 Mycorrizae (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 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-8.

Botanical Name	Local Name	
Trees		
Populus ciliate	Popular	
Pinusroxburghii	Chir	
Cedrusdeodara	Deodar	and the second
Salix acutifolia	Bhains	
Shrubs		- And allow
Artemisia nilgarica	Kunja	
Berbarisaristata	Kingor	
Berberis lyceum	Kingor	
Rosa Moschata	Ban gulab	

Table-8: Species recommended for plantation over muck disposal site

## 5. BUDGET

The total expenditure required for stabilization of muck disposal sites for 402 MW has been estimated to be in the order of Rs. 1650.3 lakh, say Rs. 16.50 crore whereas the

HPPCL EMP study for Shongtong-Karchham hydroelectric project(450MW)

(0/18)

total expenditure required for 450 MW has been estimated to the tune of Rs.94.92 crore including haulage for transportation of muck for the balance works. The details for the revised Muck Management Plan for 450 MW are given in Table-9.

# Table-9: Break-up of cost for Muck Management Plan

S. No.	Items	Cost (Rs. lakh)
1.	Construction of check dams along river banks @ Rs. 250 lakh/ km for a stretch of 3.0 km.	750
2.	PCC cladding @ Rs. 1689/m2 for 16,000 m <sup>2</sup>	32.0
3.	Preparation of muck disposal site@ Rs.5 lakh/ha for 10.09 ha	50.5
4.	Provision of 15 cm soil layer over an area 10.09 ha @ Rs. 4 lakh/ha	41.0
5.	Development of vegetation (10 ha) @5 lakh/ha	50.0
6.	Barbed wire fencing @30000/ha (10ha)	3.0
7.	Watch and ward 5 no. @ Rs. 7000 p.m.	21.0
8.	Maintenance of vegetation (Table-10 to 17)	3.93
9.	Muck transportation charges for dumping muck outside the project area	8540.3
	Total	9491.73

## Table-10: Cost of Afforestation over muck disposal sites

	Particular	Area (ha)	Unit Rate (Rs/ha)	Amount (Rs.)
1	1 <sup>st</sup> year Maintenance (Refer Table-11)	10.0	7010	70100
2.	2 <sup>nd</sup> year Maintenance (Refer Table-12)	10.0	6035	60350
3.	3 <sup>rd</sup> year Maintenance (Refer Table-13)	10.0	5020	50200
5.	4 <sup>th</sup> year Maintenance (Refer Table-14)	10.0	5020	50200
6.	5 <sup>th</sup> year Maintenance (Refer Table-15)	10.0	3265	32650
7.	6 <sup>th</sup> year Maintenance (Refer Table-16)	10.0	2725	27250
8.	7 <sup>th</sup> year Maintenance (Refer Table-17)	10.0	2725	27250
0.	7 year maintonance (		Total	318000
0	Contingencies (5% of Total Cost)			15900
9.				333900
10	Total Departmental Charges @ 17.5%			58432
10.				392332
	Grand Total			

PPCL EMP study for Shongtong-Karchham hydroelectric project(402MW)

S. No.	Activity	Quantity	Unit Rate (Rs.)	Unit	Total Cost (Rs.)	
1.	Re-digging of pits 45x45x45 cms	110	267.336	per hundred	294.07	
2.	Re-digging of pits 30x30x30 cms	165	133.632	per hundred	147.00	
3.	Filling of pits 45x45x45 cms	110	153.168	per hundred	168.48	
4.	Filling of pits 30x30x30 cms	165	106.872	per hundred	117.56	
5.	Planting of polythene bags plants	175	122.22	per hundred	134.44	
6.	Planting of Naked root plants	100	103.044	per hundred	113.35	
7	Carriage of polythene bags plants over a distance of 2 km up hills	175	122.136	per hundred	134.35	
8.	Carriage of Naked root plants over a distance of 2 km	100	19.74	per hundred	21.71	
9.	Nursery cost of plants	275	5.16	per plants	1419.00	
10.	Repair of fence	180	0.9	per Rmt	162.00	
1.	Repair of inspection path	A State State		L/S	387.60	
	Repair of soil and moisture conservation works			L/S	546.00	
		ale in the	Rest	Total:	3645.56	
/	Added 42.85% on account of increase	on wage rat	te		1560.30	
	Add Tribal ingrases			Total:-	5205.86	
1	Add Tribal increase - 25%					
	Grand Total:-					
	Or Sa	ay:-		The state of the	6510.00	

# Table-11: Maintenance cost for 1<sup>st</sup> year (25% mortality)

# Table-12: Maintenance cost for 2<sup>nd</sup> year (25% mortality)

S. No.	Activity	Quantity	Unit Rate (Rs.)	Unit	Total Cost (Rs.)
1.	Re-digging of pits 45x45x45 cms	88	267.336	per hundred	235.26
2.	Re-digging of pits 30x30x30 cms	132	133.632	per hundred	176.39
3.	Filling of pits 45x45x45 cms	88	153.168	per hundred	134.79
4. 5.	Filling of pits 30x30x30 cms	132	106.872	per hundred	141.07
5.	Planting of polythene bags plants	140	122.22	per	171.11

WAPCOS Limited

Announ T

IPPCL EMP study for Shongtong-Karchham hydroelectric project(402MW)

S. No.	Activity	Quantity	Unit Rate (Rs.)	Unit	Total Cost (Rs.)
				hundred	
6.	Planting of Naked root plants	100	103.044	per hundred	103.04
7.	Carriage of polythene bags plants over a distance of 2 km up hills	140	122.136	per hundred	170.99
8.	Carriage of Naked root plants over a distance of 2 km	80	19.74	per hundred	15.79
9.	Nursery cost of plants	220	5.16	per plants	1135.20
10.	Repair of fence	180	0.9	per Rmt	162.00
11.	Repair of inspection path	Editor (		L/S	387.60
12.	Repair of soil and moisture			L/S	546.00
	conservation works	Contractor of the lot	a francisco de la compañía de la com	Total:	3379.24
	Added 42.85% on account of increase	e on wade r	ate		1446.32
ame	Added 42.85% on account of increase	e on wage i		Total:-	4825.56
-	Add Tribal increase - 25%				1206.39
	Augunitatinioioaco	and Total:-	mary grant .		6031.95
	Or Say:-				

# Table-13: Maintenance cost for 3rd year (25% mortality)

lable-	13: Maintenance cost for 5 year		Unit Rate	Unit	Total Cost
S.No.	Activity	Quantity	(Rs.)	Onic	(Rs.)
1.	Re-digging of pits 45x45x45 cms	66	267.336	per hundred	176.44
2.	Re-digging of pits 30x30x30 cms	99	133.632	per hundred	132.30
3.	Filling of pits 45x45x45 cms	66	153.168	per hundred	101.09
4.	Filling of pits 30x30x30 cms	99	106.872	per hundred	105.80
5.	Planting of polythene bags	105	122.22	per hundred	128.33
6.	plants Planting of Naked root plants	60	103.044	per hundred	61.83
7	Carriage of polythene bags plants over a distance of 2 km up hills	105	122.136	per hundred	128.24
8.	Carriage of Naked root plants over a distance of 2 km	60	19.74	per hundred	11.84
9.	Nursery cost of plants	165	5.16	per plants	851.40

WAPCOS Limited

11

PPCL EMP study for Shongtong-Karchham hydroelectric project(402MW)

Activity	Quantity	Unit Rate (Rs.)	Unit	Total Cost (Rs.)
	200		per Rmt	180.00
	200	0.0		387.60
	and the second			540.00
Repair of soil and moisture			L/S	546.00
conservation works			Total:	2810.88
		no roto		1203.05
Added 42.85% on account of in	crease on wa	gerate	Total:-	4013.93
				1003.48
Add Tribal increase -				5017.41
		al		5020.00
	Repair of fence Repair of inspection path Repair of soil and moisture conservation works Added 42.85% on account of in	Repair of fence       200         Repair of inspection path       200         Repair of soil and moisture       200         conservation works       200         Added 42.85% on account of increase on wa         Add Tribal increase       25%	ActivityQuantity(Rs.)Repair of fence2000.9Repair of inspection path–Repair of soil and moisture conservation works–Added 42.85% on account of increase on wage rateAdd Tribal increase–Add Tribal increase–Grand Total:-	ActivityQuantity(Rs.)OrmanicRepair of fence2000.9per RmtRepair of inspection pathII/SRepair of soil and moisture conservation worksII/STotal:Added 42.85% on account of increase on wage rateTotal:Add Tribal increase25%Grand Total:-

Table-1	4: Maintenance cost for 4 <sup>th</sup> yea	r (25% mort	ality)		Total
S.No.	Activity	Quantity	Unit Rate (Rs.)	Unit	Cost (Rs.)
1.	Re-digging of pits 45x45x45	66	267.336	per hundred	176.44
2.	cms       Re-digging of pits 30x30x30	99	133.632	per hundred	132.30
3.	cms Filling of pits 45x45x45 cms	66	153.168	per hundred	101.09
4.	Filling of pits 30x30x30 cms	99	106.872	per hundred	105.80
5.	Planting of polythene bags	105	122.22	per hundred	128.33
6.	plants Planting of Naked root plants	60	103.044	per hundred	61.83
7	Carriage of polythene bags plants over a distance of 2 km up hills	105	122.136	per hundred	128.24
8.	Carriage of Naked root plants over a distance of 2 km	60	19.74	per hundred	11.84
9.	Nursery cost of plants	165	5.16	per plants	851.40
10.	Repair of fence	200	0.9	per Rmt	180.00
11.	Repair of inspection path			L/S	387.60
12.	Repair of soil and moisture conservation works			L/S	546.00
				Total:	2810.88
	Added 42.85% on account of inc	rease on wa	ge rate		1203.05
				Total:-	4013.93
	Add Tribal increase - 25	5%			1003.48

WAPCOS Limited

12

CL EMP study for Shongtong-Karchham hydroelectric project(402MW)

s.No.	Activity	Quantity	Quantity Unit Rate Unit (Rs.)		Total Cost (Rs.)
		5017.41			
		Grand Total:- Or Say:-			5020.00

# Table-15: Maintenance cost for 5<sup>th</sup> year (25% mortality)

S. No.	Activity	Quantity	Unit Rate (Rs.)	Unit	Total Cost (Rs.)		
1.	Re-digging of pits 45x45x45	44	267.336	per hundred	117.63		
2.	cms Re-digging of pits 30x30x30	66	133.632	per hundred	88.20		
3.	cmsFilling of pits 45x45x45 cms44153.168		per hundred	67.39			
4.	Filling of pits 30x30x30 cms	66	106.872	per hundred	70.54		
5.	Planting of polythene bags	70	122.22	per hundred	85.55		
6.	Plants Planting of Naked root plants	40	103.044	per hundred	41.22		
. 7	Carriage of polythene bags plants over a distance of 2 km	70	122.136	per hundred	85.50		
8.	up hills Carriage of Naked root plants	40	19.74	per hundred	7.90		
9.	over a distance of 2 km Nursery cost of plants	110	5.16	per plants	567.60		
		200	0.9	per Rmt	180.00		
10.	Repair of fence			L/S	258.00		
11.	Repair of inspection path Repair of soil and moisture		the house of the second se	L/S	258.00		
12.	conservation works			Total:	1827.52		
-			an rato		782.18		
-	Added 42.85% on account of ine	crease on wa	igerate	Total:-	2609.69		
		050/					
	Add Tribal increase - 2	e - 25%					
	Grand Total:- Or Say:-						

pock EMP study for Shongtong-Karchham hydroelectric project(402MW)



# ble-16: Maintenance cost for 6<sup>th</sup> year (25% mortality)

No.	Activity	Quantity	Unit Rate (Rs.)	Unit	Total Cost (Rs.)
	Re-digging of pits 45x45x45 cms	44	267.336	per hundred	117.63
2.	Re-digging of pits 30x30x30 cms	66	133.632	per hundred	88.20
3.	Filling of pits 45x45x45 cms	44	153.168	per hundred	67.39
4.	Filling of pits 30x30x30 cms	66	106.872	per hundred	70.54
5.	Planting of polythene bags	70	122.22	per hundred	85.55
6.	Plants Planting of Naked root plants	40	103.044	per hundred	41.22
7	Carriage of polythene bags plants over a distance of 2 km	70	122.136	per hundred	85.50
8.	up hills Carriage of Naked root plants	40	19.74	per hundred	7.90
	over a distance of 2 km Nursery cost of plants	110	5.16	per plants	567.60
9.		150	0.9	per Rmt	135.00
10.	Repair of fence			L/S	130.00
11	Repair of soil and moisture			L/S	130.00
1	2. conservation works			Total:	1526.52
	a state second of in	crease on W	age rate		653.35
	Added 42.85% on account of in	crease on w		Total:-	2179.87
		25%	The second s		544.97
	Add Tribal increase -	Grand To	otal:-		2724.83
		Or Say:-			2725.00

HPPCL EMP study for Shongtong-Karchham hydroelectric project(450MW)

	Total Cost (Rs.)	117.63	88.20	67.39	70.54	85.55	41.22	85.50	7.90	567.60	135.00	130.00	130.00	1526.52	653.35	2179.87	544.97	2724.83	2725.00
	Unit	per hundred	per hundred	per hundred	per hundred	per hundred	per hundred	per hundred	per hundred	per plants	per Rmt	L/S	L/S	Total:		Total:-			
ality)	Unit Rate (Rs.)	267.336	133.632	153.168	106.872	122.22	103.044	122.136	19.74	5.16	0.9				ne rate			al:-	and a state of the
r (25% morta	Quantity	44	66	44	66	20	40	20	40	110	150				DEW UD Bacon		75%	Grand Total:-	Or Sav:-
Table-17: Maintenance cost for 7 <sup>th</sup> year (25% mortality)	Activity	Re-digging of pits 45x45x45	Re-digging of pits 30x30x30	Filling of pits 45x45x45 cms	Filling of pits 30x30x30 cms	Planting of polythene bags	plants planting of Naked root plants	Carriage of polythene bags nants over a distance of 2 km	up hills Carriage of Naked root plants	over a distance of 2 km	Nursery cost of plants	Repair of tence	Repair of inspection path Repair of soil and moisture	conservation works	(i) j = 1	Added 42.85% on account of increase on mass on		Add Tribal Increase	
Table-17	S. No.	1.	2.	6	V	ŕ u	o c	0 1	-	ω	<u>о</u>	10.	11.	12.					

# PRESENT STATUS OF MUCK MANAGEMENT 10.

31.10.2021 is 1.64 Mm<sup>3</sup>. The balance quality of muck to be dumped is 0.71 Mm<sup>3</sup>. The amount spent till date on account of Muck Management in the ShongtongKarchham total quality of muck generated and dumped in various dumping sites as on HEP is 1634.71 lakh. The details are given in Table-10 & 11 The

WAPCOS Limited

15



# Table-10: The details of Muck Generation and dumping as on date

S. No.	Description	Quantity (m <sup>3</sup> )
1	Total Quantity of muck to be generated	23,63087.00
2	Quantity of muck generated and dumped up to 31.01.2022	16,46,459.00
3	Balance to be excavated /generated	7,16,628.00
4	With swelling factor @ 40%	10,03,279.20
5	Consumption of muck (Utilization/ recycling)	2,59,047.00
6	Balance to be dumped	7,44,232.20

# Table-11: Expenditure Details on Muck Management Plan

Description	Amount (Rs. lakh)
Total Expenditure on protection works provided at Muck disposal	1634.71
sites till date	( 1000 10
Total Expenditure incurred for haulage of muck beyond project	14030.18
area (i/c applicable GST)	9487.8
Balance expenditure to be done on account of Muck Disposal	25152.69
Total	Lotolico

# 7. RESPONSIBILITY

The Muck Management Plan, specifies mitigation measures to be covered as a part of Annual and periodic activity plans for project implementation. An abstract of muck management plan for the project has been prepared and presented in Table-12

S.	e-12: Abstract of Muck Manage	Responsibility	
No.	1 1 1 1	Stabilization of Muck	Contractor/
1	Muck generation due to excavation activities	disposal sites	Project Proponent
_	Excavation activities	Leveling of sites before	Contractor/
2	Disposal of Muck at various	dumping	Consultant
	Muck dumping sites	Catch water drain	Contractor/
		Outon mater a same	Consultant
		Plantation on the top soil after levelling of site and laying of soil cover	Consultant
3	Spillage of Mucks	Construction of retaining walls	Contractor
4	Fugitive emission due to	Regular sprinkling of water	Contractor

Table 12: Abstract of Muck Management Plan (MMP)

WAPCOS Limited

PPCL EMP study for Shongtong-Karchham hydroelectric project(450MW)

Impact	Mitigation Measures	Responsibility
increased Vehicular movement near dumping sites Maintenance after Plantation / Biological treatment of the designated dumping sites	Watering, guarding of	Project Proponent

att

Deputy Conservator of Forests, Kinnaur Forest Division at R/Peo H.P

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

#### UNDERTAKING FOR MUCK MANAGEMENT PLAN

I, General Manager, Shongtong Karchham HEP, HPPCL Reckong Peo Distt. Kinnaur H.P. do hereby submit that the Final Muck Management Plan of the proposed site has been attached and same has also been sent for approval to H.P. State Pollution Control Board (HPSCB). The approved Muck Management Plan will be submitted before Stage-II approval.

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

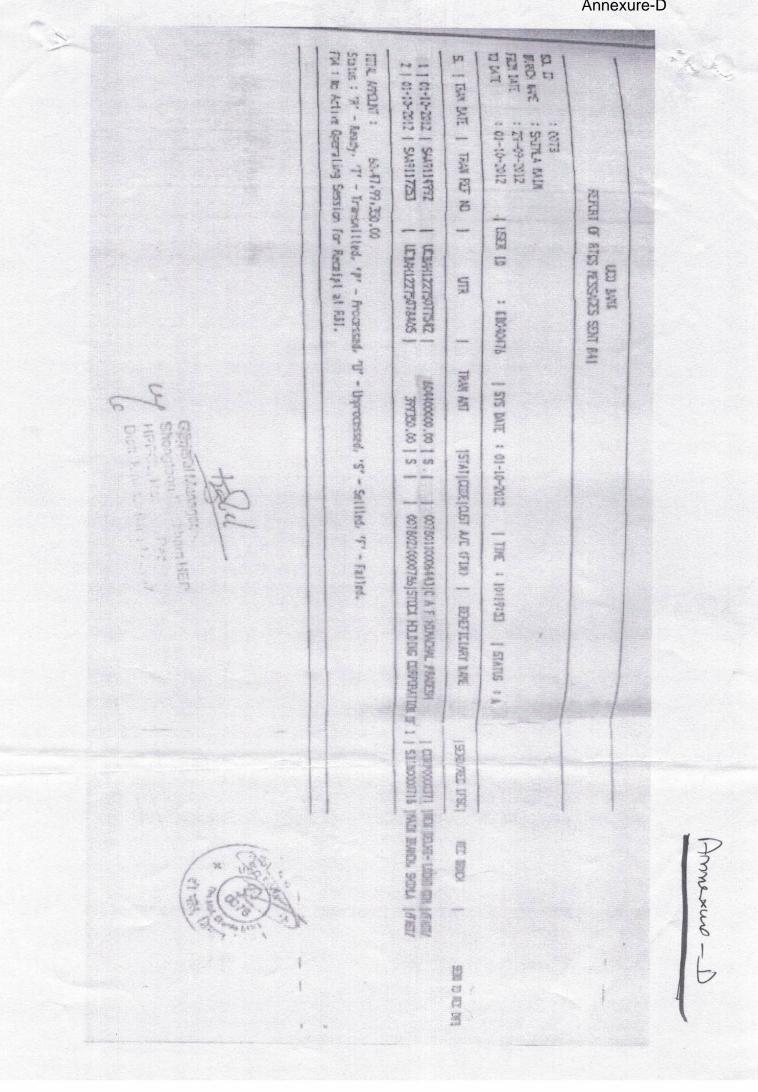
Deputy Conservator of Forests, Kinnaur Forest Division at R/Peo H.P



Annexure-D

Amnexux - D'

PROFORMA	
	11DOC imposed 1/2 1
State District/Forest Division to which the proposal relates	a Contraction of the Contract
Name of User Agency, nature of proposal	H. P. POWER CORPORATION LD.
Estent of forest land involved	
Whether original or extension	
Il extension of lease, pl. clarify if proposal invioves	
Date of 1st stage clearance	
Smoont realized:(In Rs.)	
Commencement of Restation	
Additional CA	a series and a series of the
Print CA	
Catchment Area Treatement (CAT) Plan	F 604400,000/=
Widhte Management Plan	
Additional charges for diversion of area falling under Notified/protected areas	
Noi Present Value	
Liver other charges/levies (pl. specify)	
Total:-	2 60 94 00 000 =
e Details of Bank Draft(Bank, Draft, No., Date & Amount) Head-wise against items indicated in paragraph 7 above.	
1. 例如你的你们就能能帮助你。"	UTR N: 1 UCBAH 12275, 77542
Whether deposited by RTGS, if so, the particulars & date of remittance.	dated 1-10-2012
6 Bank (Corporation Bank, Lodhi Complex/Union Bank of India Sundernagar) in which deposited with date of deposition	CORPORATION BANK LODHI COMPLEX on dated 1-10-2012.
II Any other remarks	



Annexure-D

AG	ENCY COPY	B	ANK COPY
यूनियन बैंक	D Union Bank	यूनियन चैंक (	D Union Bank
Anathra	Comment of the same	Sinest Andhre	And Andrewson
NEFT / RTGS CH Date : 12-07-2023	ALLAN for CAMPA Funds	NEFT / RTGS CH Date : 12-07-2023	IALLAN for CAMPA Funds
Agency Name.	SHONGTONG KARCHHAM HYDRO ELECTRIC PROJECT, HPPCL	Agency Name.	SHONGTONG KARCHHAN HYDRO ELECTRIC PROJECT, HPPCL
Application No.	5685100616	Application No.	5685100616
MoEF/SG File No.	NA	MoEF/SG File No.	NA
Location.	HIMACHAL PRADESH	Location.	HIMACHAL PRADESH
ddress.	Shongtong Karchham HEP, HPPCL, Reckong peo, Distt. KinnaurKinnaur	Address:	Shongtong Karchham HEP HPPCL, Reckong peo, Dist Kinnaur Kinnaur
Amount(in Rs)	97557500/-	Amount(in Rs)	97557500/-
Amount in Words :Nine Thousand Five Hundred P	Crore Seventy-Five Lakh Fifty-Seven Rupees Only	Thousand Five Hundred F	Crore Seventy-Five Lakh Fifty-Seve Rupees Only
NEFT/RTGS to be details;	e made as per following	NEFT/RTGS to be details;	
	HIMACHAL PRADESH		HIMACHAL PRADESH CAMPA
details; Beneficiary Name:	HIMACHAL PRADESH	details;	
details;	HIMACHAL PRADESH CAMPA	details; Beneficiary Name:	САМРА

This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

	challan amount.		
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027		

king payment to CAMPA by NEFT/RTGS only

Note:After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

Deputy Conservator of Forests, Kinnaur Forest Division at R/Peo H.P



General Manager, Shongtong-Khrchham HER HPPCL, Recklong Peo Distt. Kinnaur (HP) 172107



Progress report on activities implemented under "Regeneration of Equal amount of degraded forest" under Shongtong-Karchham HEP. during the year 2016-17.

Sr.No.	Name of Activity.	Name of Beat.	Name of Area.	Phy. Ach.	Financial Ach.
1.	New plantation.	Lippa.	C-216	10 ha.	625000
2.	New plantation.	Pangi.	C-234	5 ha.	312500
3.	New plantation.	Rogi.	C-245	10 ha.	625000
4.	New plantation.	Rarang.	UF-Thopan	10 ha.	625000
5.	New plantation.	Moorang.	UF- Shurting.	10 ha.	625000
6.	New plantation.	Leo.	UF- Chulling.	5 ha.	312500
7.	New plantation.	Kalpa.	C-239	10 ha.	625000
8.	Total.			60 ha.	37,50,000
9.	Cost of Plants in Nurseries.			66000 No.	14,85,000
10.	Cost of material i.e. B/wire etc.		a strange and modeline a service		Rs. 8,16,300/-
	Grand Total item No. 8, 9, 10				Rs. 60,51,300/-

Divisional Forest Officer, Kinnaur Forest Division, Reckong Peo.

Deputy Conservator of Forests, Kinnaur Forest Division at R/Peo H.P

Dy. General Manager

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

Scanned with CamScanner

Progress report on activities implemented under "Regeneration of Equal amount of degraded forest" under Shongtong-Karchham HEP. during the year 2017-18.

Sr.No.	Name of Activity.	Name of Beat.	Name of Area.	Phy. Ach.	Financial Ach. 937500
1.         2.         3.         4.         5.         6.         7.         8.         9.         10.         11.	New plantation. New plantation. New plantation. New plantation. New plantation. New plantation. New plantation. Total. Cost of Plants in Nurseries. Maint. Of old plantation- 2016-17 Cost of material. Grand Total item	Rarang. Pangi. Rogi. Rarang. Moorang. Skibba. Kalpa.	UF-Rarang. C-237 C-244 UF-Khadra. C-197 C-187 C-240	15 ha. 5 ha. 10 ha. 10 ha. 10 ha. 5 ha. 10 ha. 65 ha. 71500 No. 60 ha.	312500 625000 625000 625000 312500 625000 40,62,500 16,08,750 Rs. 5,28,000 Rs. 14,23,650 Rs. 76,22,900/-
	No. 8,9,10,& 11.		Julian marine	1	1

Divisional Forest Officer, Kinnaur Forest Division, Reckong Peo.

X

Deputy Conservator of Forests, Kinnaur Forest Division at R/Peo H.P

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

Scanned with ComScanner

No. UC.(S-K HEP)/ 2 H.P. Forest Department.

Dated, R/Peo,

the 31.3.2018

From:

Divisional Forest Officer, Kinnaur Forest Division.

To:

The General Manager, Shongtong-Karchham HEP. at Reckong Peo.

Subject:

Shongtong Karchham HEP- Progress report on activities implemented under "Regeneration of Equal amountof degraded forest" threof.

Sir,

Please refer to your letter No. HPPCL/GM-STKHEP/Forest-X/2018- 5849-51 dated 01.12.2018, on the subject cited above.

As desired the final progress report alongwith 'Utilization certificate on Form GFR-19A' on activities implemented under "Regeneration of Equal amount of degraded forest" for the year as mentioned below is sent herewith for favour of information and necessary action please.

Year.	Amount Utilized during the year.	Remarks.
2016-17	Rs. 60,51,300	Progress report attached.
2017-18	Rs. 76,22,900	Progress report attached.
Total.	Rs. 1,36,74, 200	Amount of Rs. 1,36,73,737/- has been fully utilized as per progress report for the year 2016-17 & 2017-18. The Utilization certificated is attached.

Encl :- As above.

Deputy Conservator of Forests, Kinnaur Forest Division at R/Peo H.P. Yours faithfully,

Divisional Forest Officer Kinnaur Forest Division. At Reckong Peo.

Dy. General Marager Shongtong-Frachlam HEP, HPDCL, Posta g Peo, Dist. Kinagar (H. P.) 172107 formed with ComScores

#### FORM GFR 19-A

Sr. No.	Letter No. & date of sanction scheme	Total Amount sanctioned
1.	HPPCL/GM- STKHEP/Forest-X/2011 Demand Draft No. 630174 dated 21.4.2011	1,36,73,737/-
_	Total	1,36,73,737/-

[See Government of India's Decision (1) below Rule 150] From of Utilization Certificate

> Certified that Rs. 1,36,73,737-(Rs. One Crore, thirty six lac, seventy three thousand seven hundred & thirty seven) only head sanctioned under grants-in-aid "Shongtong-Karchham HEP" fund during the financial year 2011-12 in favour of Divisional Forest Officer, Kinnaur at Reckong Peo under this Ministgry/Department letter No. given in the margin and Rs.\_\_\_\_\_Nil\_\_\_\_ on account of unspent balance of the previous year, an amount of Rs. 1,36,73,737/-only has been utilized for the purpose of " Regeneration of Equal amount of degraded forest" (As per progress report enclosed) for which it was sanctioned and .....nil..... amount is lying balance for utilization.

2. Certified that I have satisfied myself, that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/are being fulfilled and that I have exercised that following checks to see that the money was actually utilized for the purpose for which it was sanctioned.

Kinds of checks exercised:-

- 1. 100% by concerned beat Guard, Block Officer & Range Forest Officer.
- 2. 50% by Assistant Conservator of Forests.
- 3. 25% and randomly by DFO Kinnaur

Deputy Conservator of Forests, Kinnaur Forest Division at R/Peo H.P.

Divisional Forest Officer, Kinnaur Forest Division, Reckong Peo.

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

Scanned with ComScanner