भारत सरकार पर्यायरण एवं चन मंत्रालय GOVERNMENT OF INDIA MINISTRY OF ENVIRONMENT & FORESTS

BY SPEED POST

E-mail: sanchita@nic.in sansom_2859@yahoo.co.in

Telefax: 011-24360488

F. No. J-12011/58 /2007-IA-1

Date: 19th May 2011

The Deputy General Manager Shongtong-Karcham Hydro-Electric Project Himachal Pradesh Power Corporation Ltd Kinfed Building, Reckong Peo - 172 102 District Kinnaur Himachal Pradesh

Subject: Shongtong-Karcham 402 MW Hydroelectric Power Project in District Kinnaur of Himachal Pradesh by M/s Himachal Pradesh -Power Corporation Ltd. - Environmental Clearance regarding.

Sir.

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-This has reference to your letter No./HPPCL/DGM/SKHEP/DB-10/09-1775-79, dated 22.8.2009 and subsequent letters dated 3.10.2009, 30,11.2009, 9.2,2010, 10.3.2011 and 19.3.2011 on the above mentioned subject:

- 'It is noted that the project envisages construction of 22m high diversion' barrage across river Satluj near village Powarl for generation of 402 MW hydropower. This is run-of-the-river scheme. The catchment area at barrage site is 47,968 sq. km. The total land requirement for the project is about 77,3326 ha out of which 63.5015 ha is forest land & 13.8311 ha is private land. Stage=1 Forest Clearance has been accorded for diversion of 63.501 ha of forest land. An underground powerhouse is proposed on the left bank of the river near village Ralli with 3 units of 134 MW each. A total of 158 families are likely to be affected. due to this project. The total cost of the project is Rs. 1507.30 Creres.
- The above proposal was considered by the Expert Appraisal Committee for River Valley & Hydroelectric Power Projects in its meetings held on 14.9.2009, 15.12.2009 and 19.2.2010. The Public Hearing for the Project was conducted on 28th - 29th July, 2009.

Dy. General Manager Shoretong-Rarchham HEP, HILL Reffige Per.

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पर्यावरण भवन, सी.जी.ओ. कोम्पलेक्स, लोदी रोख, नई विल्ली - 110 003 PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI - 110 003 Mahella - anutar nie in

4. After appraising the Project Proposal from environmental angle, the Ministry of Environment and Forests hereby accords environmental clearance as per the provisions of Environmental Impact Assessment Notification, 2006 and its subsequent amendment in 2009, subject to the following conditions:

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Part A: Specific Conditions

(i) The following Catchment Area Treatment Plan, as proposed in the EIA/EMP Report shall be completed in 5 years-

Treatment Measures	1 Year	li Year	III Year	IV Year	V	Total
A) Biological Measures						
Afforestation/Gap Plantation (ha.)	81	80	80	80	80	401
Pasture Development (ha.)	476	475	470	470	470	2361
Nursery Development (nos.)	5	5				10
B) Engineering Measure	P.S					
Step Drain (Rmt)	57	57	57	57	57	285
Check Dams (nos.)	5	5	5	5	5	25

- (ii) The details of the land holding of project affected persons whose land is being acquired shall be submitted to this Ministry. The benefits for the land losing households will be as per the National Rehabilitation and Resettlement Policy, 2007 (NRRP, 2007) or as per the State Rehabilitation and Resettlement Policy, whichever is higher. Adequate publicity for the compensation package shall be given in the affected villages. All R&R Issues shall be completed before commissioning of the Project.
- (iii) All commitments made during the public hearing shall be fulfilled completely.
- (iv) A scientific study from a reputed institute for deciding the minimum environmental flow to be released during the lean season should be undertaken. Till the study is completed, 20 % of the average flow of four consecutive leanest months of 90% dependable year shall be maintained as environmental flow. After the study is completed, whichever is higher figure shall be adopted.

- (v) The equipment likely to generate high noise levels during the construction period or otherwise shall meet the ambient noise standards as notified under the Noise Pollution (Regulation and Control) Rules, 2000, as amended in 2010 under Environment Protection Act (EPA), 1986.
- (vi) Consolidation and compilation of the muck shall be carried-out only in the designated muck dumping sites, approved by the State Pollution Control Board. As per the proposed muck disposal plan given in your EIA/EMP, about 3.57 Mm³ will be generated out of which 0.47 Mm³ will be reutilized for back filling and 1.05 Mm³ as construction material/protection works and remaining 2.04 Mm³ shall be disposed off at 8 designated disposal areas. This shall be strictly implemented. The dumping sites shall be at least 30 m horizontally away from the high flood level of the river.
- (vii) The proposed Compensatory Afforestation Programme on 128 ha of land with identified plant species @1500 plants per hectare shall be taken-up immediately. The allocated funds for this purpose shall not be diverted to any other purpose.
- (viii) Greenbelt development in 40 ha of land along the approach roads, residential areas, office complex, barrage site and other working areas with various native plant species shall be undertaken immediately. The allocated budget of Rs. 40 lakhs for this purpose shall not be diverted to any other purpose.
- (ix) The revised Fisheries Management Plan submitted vide letter no. HPPCL/ESMU-2/Shongtong/09-1658-61 dated 9th February, 2010 shall be undertaken in consultation with the Fisheries Department, Government of Himachal Pradesh. Breeding and hatching of Indigenous fish i.e. Snow Trout will be carried out separately. The same shall also be followed in the proposed hatchery at Sangla with separate bays.
- The proposed Wildlife Management & Development and Conservation of Biodiversity Plans at a cost of Rs. 764.50 lakhs shall be taken-up strictly as outlined in the EIA/EMP Report and implemented in consultation with the State Forest Department without any diversion of funds. A report of implementation shall be included in the sixth monthly compliance report to be submitted to the Ministry.
- (xf) About 1.5% of the total project cost shall be spent for the Local Area Development.
- (xdi) Any other clearance from any other organization/department, if required, shall be obtained.

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Part-B: General Conditions

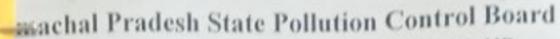
- (i) Adequate arrangement for providing free fuel like kerosene/wood/LPG shall be made for the labour engaged in the construction work so that indiscriminate felling of trees is prevented.
- (ii) Medical facilities as well as recreational facilities shall also be provided to the labours.
- (iii) Labours to be engaged for construction work shall be thoroughly examined by health personnel and adequately treated before issuing them work permit.
- (iv) No fugitive dust emissions should be observed at the construction sites.

 Water sprinkling arrangements shall be made to suppress the fugitive emissions.
- (v) Potable drinking water and proper sanitary facilities shall be provided for the labour force and the local area people.
- (vi) Restoration of construction area including dumping sites shall be ensured by leveling, filling up of burrow pits, landscaping etc. The area shall be properly treated with suitable plantation.
- (vii) Separate financial provision shall be made in the total budget of the project for implementation of the above suggested safeguard measures. The same shall be informed to the Ministry.
- (viii)Environmental parameters shall be monitored and six monthly monitoring reports shall be submitted to the Regional Office of the Ministry and State Pollution Control Board for their review.
 - (ix) A Multi-Disciplinary Committee (MDC) to monitor environmental safeguards during the construction shall be constituted by the Ministry on the suggestions of the Proponent. Six monthly monitoring report of this Committee shall be displayed on the web-site of the Proponent.
- (x) Videography of the project area shall be carried out to ascertain that no damage occurs to the houses of the villagers/local people and in case any damage occurs, the PP shall pay compensation for the damages.
- 5. The Project Proponent shall provide full cooperation and all required documents / data to the Officials of relevant Regional Office of MOEF who would be monitoring the implementation of environmental safeguards.

(30)

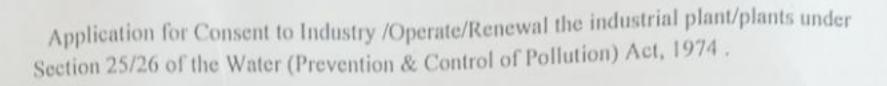
- 6. Besides the above stated conditions, the Project Proponent and Government of Himachal Pradesh shall also implement all other environmental safeguards, as proposed in the EIA/EMP report and other reports from time to time.
- 7. The environmental management plan shall be strictly adhered to and a sum of Rs. 84.891 Crores, the budgetary provisions for implementation of EMP shall not to be diverted for any other purpose.
- Any change in the scope of the project shall be intimated to the Ministry and fresh approval if required, shall be taken from the Ministry.
- 9. The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary and to take action including revoking of the clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
- 10. This clearance letter is valid for a period of 10 years from the date of issue of this letter for commencement of construction work.
- 11. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local body and the local NGO, if any, from whom any suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent
- 12. The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://www.envfor.nic.in.
- 13. After 5 years of the commissioning of the Project, a study shall be undertaken regarding impact of the project on the environment and downstream ecology. The study shall be undertaken by an independent agency, decided in consultation with the Ministry.

111107



'Him Parivesh', Phase -III, New Shimla-171009, HP.

Form-XIII (See Rule 22)



Application for Consent to Establish or take any step to establish any Industry, operation processes or any treatment and disposal system for discharge, under Section-25 or continuation or discharge under Section -26 of the Water (Prevention and Control of Pollution) Act, 1974.

RCTE for the period(01/04/2019-31/03/2020)

From

Shongtong Karchham HEP, M/s Shongtong Karchham HEP HPPCL-Reckong Peo, Distt. KinnaurHPPCL Corporate Office, Tutikandi,

ShimlaR-Peo City:Reckong Peo Block:Kalpa

District:Kinnaur

То

The Member Secretary,
Himachal Pradesh Pollution Control Board,
Him Parivesh, Phase-III, New Shimla,
Shimla- 171009, HP.

Sir,

I / we hereby apply for Consent/ Renewal of Consent under Section-25 of Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) to establish or take any step to establish any Health Care Facility/CBWTF/Research Lab or operation or process or a treatment and disposal system or any extension or addition to bring into use any new altered outlet for discharge of sewage / trade effluent* to continue to discharge sewage /trade effluent * from land/ premises owned by Shongtong Karchham HEP

The other relevant details are below:

Dy. Genery Manager

HPPCf, Rederer Pro.

Disti. "This is toppinger pay 210 Tocument from OCMMS by HPSPCB"

Sr. Manager (R&R)

Date:15/11/2019

Industry ID: 13343

Application No.: 1352272

Shongtong-Karchham HEP,

HPPT . Reckong-Peo,

Distt. Kianaur H.P., 172107

Pagel

	Dy. General	V	Seer Thus	is computer gener	ated de	Shongtong-Karchham HEP HPPCT, Neckong-Peo, Distt. Kinnaur H.P., 172107				Acckong-Peo,
12	Usage	L COIL	sumption	Detail:		Sr. Manager (R&R)				
12	Expansion Cost Source of Water and Consumption Detail:									
	(c)License/Registration of Annual Capacity of the Industry, Operation or process etc. :			46429.0						
	Di-silted water I TRT is to be fee the main River		K.L./Ye	ear						
	Name of By Proc	lucts	Unit			Installe	d Capac	eity	Ave	rage Production
11	List of By Product	List of By Product Details								
	gonorated						Unit of		city	strengthening the Northern grid
	Electricity	173	35	Milli	ons/	Year	1735	1735 Million		То
	Name of Products	1000	antity	Unit			Inter	mediate		Principal Use
10	List of products wi	ith mor	nthly pro-	duction rate	(MT	/month)				
	water is drawn f	387.39 Cumecs of De-silted water is drawn from river satluj for generation of 450 MW of Electricity			K.L./Month					
	Raw Materials Quantity					Unit				
9	List of raw materials with monthly consumption ra									
8.	Name of the person authorised to sign this for (the original authorization except in the case individual proprietor concern is to be enclosed		00 00	Er. TN Negi						
7.	Details of license/registrations, if any obtained under the provisions of Industrial Development Regulation Act, 1951.			Registra	ation Ad ation Dat	. : U4010 d. : U401 te : 2013	01HF	2006SGC030591 P2006SGC030591		
5.	Total number of employee expected to be Employed		: 80	, , ,	W.					
	(b)Expected date of commencement of date of Operation :			Month	:January anuary					
				Voor .	0012					
	Details of Establish	ment e	tc.:				кагра			
			ndustry with PIN Code:			Name of applicant: Sharma Address:New HPPCL Building District:Kinnaur Block:Kalpa				
		Indust	ry with 1	DINI		State G	overnme	ent		
	Nationality of the ar	oplica	nt			Shongtong Karchham HEP Indian				
	Full name of the Inc	lustry				Shongt	ong Kar	chham H	ED	
	Full name of the									-

17. All other conditions including standard conditions applicable to the proposals under Forest (Conservation) Act, 1980 and under different rules regulations and guidelines including Environmental Clearance and rehabilitation shall be complied with before transfer of forest land

Yours faithfully,

(Shiv Pal Singh) Sr. Assistant Inspector General of Forests

Copy to:-

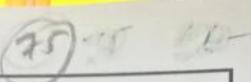
- The Principal Chief Conservator of Forests, Himachal Pradesh, Shimla.
- The Nodal Officer (FCA), Forest Department, Himachal Pradesh, Shimla. 2.
- The Conservator of Forests (Central), Northern Regional Office, Chandigarh. 3.
- User Agency. 4.
- Monitoring Cell of FC Section.
- Guard File. 6.

(Shiv Pal Singh)

Sr. Assistant Inspector General of Forests

Manager Manager Dy. Gen Shereton - Farebham HEP, HE. CL. Reckers Pec,

Dist. Kinnaur (11. P.) 172107



3.	Whathar			
	Whether permissio been taken from (enclose copy).	the Co Autho	has Yes	
+	(a)Effluent Currently	Discharged or Expected		
	Type of Effluent	- isenarged or Expected		
		Capacity(K	(LD) Qua	ntity(KLD)
72		arrangement is currently to be created?		
5.	Process of treatment effluent).	(if industry has any treatm	nent plant for industrial, do	mestic or combined
	Description	Quantity(in KLD)	Method of Treatmen	Method of Disposal
16.	Water Emission Dis	charge	4000	
	Installed	Capacity	Method of Disposal	Unit
17	A MILLOUIS WILL	ther storm water drains are industrial/domestic effluent	t	
18	effluent. In case of	ected composition of the operational Industry actual effluent is to be indicated at to be attached.	l ind	
19	(a) Are facilities ava	ilable with the applicant fo	or carrying out the test of wa	ste water
	Test of Waste Wa	ter Existing	Prop	osed
20	0. I/we further declare	that the information furnis	shed above is correct to the l	best of my/ our knowledge.
		esh application for CONSE		or the quantity of discharge such CONSENT is granted
	Renewal of Consei	o submit to the Himachal P nt one month in advance o continued thereafter.	Pradesh State Pollution Conf of the date of expiry of the	trol Board an application fo consented period for outlet
	I / we undertake to Himachal Pradesh	furnish any other inform State Pollution Control B	nation within one month of soard.	its being called for by the
	Himachal Pradesh	vith Bank Draft No. 0002 ironmental Engineer/ Ass State Pollution Control I Act as per the Fee Sched	sistant Environmental Eng Board	Rs 280000.0 (Rupees) in gineer / Regional Officer payable at under

Sr. Manager (R&R)
Shongtong Furchlam IJEP,
HPPCL, Facks ag-Peo,
Distt. Kinnaur 11.1., 172107

C dil.

Name of the application:

Designation:

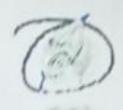
Yours faithfully,

Signature:

Address:

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Beat Post



No. FFE-B-F-(2)-10/2012 Covernment of Himachal Prade th Department of Forest.

Frem

 The Principal Speretary (Forest) to the Covernment of Himachal Pradesh.

To

The Assistant Inspector General of Forests. Government of India, Ministry of Environment and Forests. 1. C.Division Paryayaran Bhawan, CGO Complex. Lodhi Road, New Delhi-110003.

Dated, Shimla-2 the

6-3- 2014.

Subject:

Revised CAT Plan of Shongtong Karchham HEP (402MIW) under Kianaur Forest Division Rumput Porest Citele.

Sin

I am directed to refer to this department letter of even no. dated 23-08 2012 on the subject cited above and to enclose a copy (in original) of revisad C.A., Pian, Lom Rs. 6 944,00 Lakh to Rs. 6040 00 Lakh, of T. NIV. Sneept en-Ica ébair Hydro Electric Project; Lakh within the jurisdiction of Kannau' Lorest Di saon of Ran pur Forest Circle duly approved by the State Covernment for fur....r aged say act on at your end please.

In lst No. A sabo. Curr is Jernarded in Yours faithfully.

(Proka ha Nard) Under Secretary Corrests) to the Covernment of Hanace it Procesh 0177-2380318-94184-55573

Dated Shanta . , the:

Coase vator of Forest (Hol J'alil', wir to his fetter No. 1 Hillshougtong Karebham HIP op Dog 70 u 714 for interna Sr. Mannier (R&R)

Dian. Simuur (H. P.) 172107

(Prakadia Vand)

Shongtong Karehham III Under Secretary (Finests) to the CL, Rechang Peo, Conversament of Himochai Prajest, Kinnaur L.P., 1721

0177-18808-8, 94184 8873

CHAPTER - 7



7.1 INTRUON

The landscape and restoration plan targets towards overall improvement in the condition of the area. The landscape plan provides benefits to improve beautification and its utility. All the activities are aimed at restoring the areas where scars would be formed. The restoration would prevent soil erosion enhance forest cover and stabilize degraded areas.

7.2 RESTORATION PLAN FOR QUARRY SITE AND BORROW AREA

A project of this magnitude would require significant amount of construction material. The details are given in Table-7.1.

TABLE-7.1 Detail of Construction Material Required

100	Material	Unit	Quantity
S. No.	Material	lac m ³	2.97
1.	Coarse aggregate	lac m ³	1.50
2.	Fine aggregate Cement	MT	14,000
3.	Structural steel	MT	6,200
4.	Reinforcement steel	MT -	20,323
5.	High Tensile steel	MT	12,824

The sand required for the project is proposed to be taken from Satluj river bank. An aggregate manufacturing equipment sand processing plant will be located at quarry site near village Powari, the site is away from habitation. The impervious material required for cofferdam will be met locally. The material for riprap is available on the river banks at site.

The cement will be transported from ACC Barmana and Ambuja cement factories. The steel transported from Jalandhar by road. The quarrying operations are semi-mechanized in nature. Normally, in a hilly terrain like Himachal Pradesh, quarrying is normally done by cutting a face of the hill. A permanent scar is likely to be left, once quarrying activities are over. With the passage of time, the rock from the exposed face of the quarry under the action of wind and other erosion forces, get slowly weathered and after some time, they become a potential source of landslide. Thus it is necessary to implement appropriate slope stabilization measures to prevent the possibility of soil erosion and landslides in the quarry sites.

Similarly, the proposed project would require significant amount of fine material, which can be met either by crushing the aggregates or by excavation from borrow areas. In the proposed project, large quantity of fines shall be required, which would entail excavation from borrow pits. Normally, such sites are left untreated after excavation of the construction material. The pit so created impedes the natural drainage, increases the potential for soil erosion and stores rain water and runoff. These pools of water can serve as habitats for proliferation of mosquitoes, which can lead to increased incidence of vector-borne diseases.

RESTORATION PLAN FOR QUARRY SITE AND BORROW AREA

The following biological and engineering measures are suggested for the restoration of quarry site

- Garland drains around quarry site to capture the runoff and divert the same to the nearest natural drain.
- Construction of concrete guards check the soil erosion of the area
- The pit formed after excavation be filled with small rocks, sand and farmyard manure.
- Grass slabs will be placed to stabilized and to check the surface runoff of water and loose soil.

Since the quarry site is in the submergence area thus, the River Bed Mining (RBM) material will replenish itself annually in monsoon season. Since no gangue or mine spoil will be generated (RBM has 100% utilization rate) therefore there is no need for disposal. The guarried material will be stacked at leveled dumping site. As per Muck Management Plan, excess capacity for dumping is available. Figure 1.1, gives the pectoral view of submergence area and Table 1.1, in Chapter 1. gives detail of trees required to be cut in submergence area, Table 7.2 gives details of availability of raw material for construction.

> Manager Carchham HEP. L. Reckons Pco.

Dist. Kinnaur (H. P.) 172100

Sr. Manager (R&R) Show tong I archham HEP, . k. ng-Peo, Distt. Limaur H.P., 172107 HP.

TOTAL

Near Tangling Jhula

Site No.

1

2

3

4

5

6

7

8

ite quantities of raw material (Coarse(F

ite quantities	of raw material (Coarsel III)
te) per year construction	Quantity (cubic meters)
Name o	24,241.00
and an anding chamber	17,622.75
25 m D/S of Drift to Desanding chamber	8,891.25
25 m U/S of Drift to Desanding chamber	39,337.50
At Barrage	30,137.25
At Barrage	9,975.00
Near Stone Crusher at Powari	17,672.00
U/S of Discharge site	9,265.00
U/S of Discharge site	157,141.75 say

Since all the sites are in river bed thus they will replenish themselves every year. So for the 51/2 years of construction phase it will comes out to be = 157,142 x 5 1/2 = 864279.625 cubic meters

= 8.6 lakh cubic meters

(157, 142.00)

In case the required material fell short of demand then HPPCL will use its already existing quarry of Kashang Project at Jangi.

The necessary NOCs/approval from the mining department and other approvals for use of quarry sites will be taken after acquisition of land.

At the present level of investigations a tentative provision of Rs 105 lakh can be earmarked for quarry and borrow slope stabilization. The details are given in Table-7.3.

TABLE-7.3: Cost estimate for restoration of borrow area

ABLE-7	3: Cost estimate for restoration of borrow	Cost (Rs. lakh)
S. No.	Activities/purpose	10.0
	Filling up the land with soil	4.0
2	The state of the s	0.5
3.	Cost of green manure Cost of sapling (10,000 saplings/ ha) @ Rs.5.00 per sapling	4.0
4	Cost of fertilizers and pesticides	3.0
5. B.	Fencing with RCC pillars and barbed wire Maintenance activities including cleaning of weeds @ Rs.50,000	2.5
91	for 5 years	1.0
7.	Digging of pits	20.0
8.	Construction of garland drain	50.0
9	Bench terracing	105.0
	Total	

LANDSCAPING AND RESTORATION PLAN

Area for landscaping: The working areas of barrage site, power house complex colony area have been selected for beautification of the project area after construction is over.

The reservoir created due to the construction of barrage may be a local point of tourist attraction. This could be used for sport fishing, so there is a need to construction of benches for sitting, development of resting sheds and footpath. The beautification would be carried out by developing flowering beds for plantation ornamental plant and flower garden.

There would be sufficient open space in power house complex and colony area. Forested area in the power house complex would provide, aesthetic view and add to natural seismic beauty. The beautification in the colony area would be carried out by development of flowering beds for plantation of ornamental plant, creepers, flower garden and a small park, construction of benches for sitting, resting sheds, walk way and fountain. A provision of Rs.50 lakh has been earmarked for landscaping and beautification of the area.

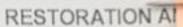
BUDGET

A total provision of (105.0 + 50.0) Rs. 155.0 lakh, (has been earmarked) for restoration of quarry and borrow area, reclamation of construction sites, landscaping and beautification.

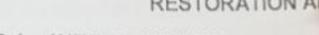
> Dy. Gelenal Manager Shor Karchham HEP, H Cl. Reckong Peo,

Distt. Kinnaur (H. P.) 172107

Sr. Manager (R&R) Shongtong J -reliben HEP, Hills C. A. ag-Peo. Distt. Kinnaur H.P., 172107



SCAPING OF CONSTRUCTION SITES



7.1 INTRODUCTION

The landscape and restoration plan targets towards overall improvement in the condition of the area. The landscape plan provides benefits to improve beautification and its utility. All the activities are aimed at restoring the areas where scars would be formed. The restoration would prevent soil erosion enhance forest cover and stabilize degraded areas.

7.2 RESTORATION PLAN FOR QUARRY SITE AND BORROW AREA

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TABLE-7.1 Detail of Construction Material Required

ABLE-1	i Detail of Constituents	T	Quantity
S. No. 1. 2. 3. 4. 5.	Material Coarse aggregate Fine aggregate Cement Structural steel Reinforcement steel High Tensile steel	Unit lac m³ lac m³ MT MT MT MT	2 97 1 50 14,000 6,200 20,323 12,824

The sand required for the project is proposed to be taken from Satluj river bank. An aggregate manufacturing equipment sand processing plant will be located at quarry site near village Powari, the site is away from habitation. The impervious material required for cofferdam will be met locally. The material for riprap is available on the river banks at site.

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RESTORATION PLAN FOR QUARRY SITE AND BORROW AREA

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- Grass slabs will be placed to stabilized and to check the surface runoff of water and loose soil.

Since the quarry site is in the submergence area thus, the River Bed Mining (RBM) material will replenish itself annually in monsoon season. Since no gangue or mine spoil will be generated

Dy. GARATH Chham HEP. HIPCL R. Nong Peo. Diett Kansone (H. P.) 172109 St. Manuel (ROE)

(RBM has 100% utilization rate) be stacked at leveled dumping si is available. Figure 1.1, gives the

of raw material for construction.

there is no need for disposal. The quarried material will Muck Management Plan, excess capacity for dumping view of submergence area and Table 1.1, in Chapter 1, gives detail of trees required to be cut in submergence area, Table 7.2 gives details of availability

TABLE 7.2: Detail of availability of adequate quantities of raw material (Coarse/Fine aggregate) per year construction of SKHEP

te o.	Name of Quarry Site	Quantity (cubic meters)
	25 m D/S of Drift to Desanding chamber	24,241.00
	25 m U/S of Drift to Desanding chamber	17,622.75
3.	At Barrage	8,891.25
4.		39,337.50
	At Barrage	30,137.25
5	Near Stone Crusher at Powari	9,975.00
6	U/S of Discharge site	17,672.00
7.	U/S of Discharge site	9,265.00
8	Near Tangling Jhula	
	TOTAL	157,141.75 say
		(157,142.00)

Since all the sites are in river bed thus they will replenish themselves every year. So for the 51/2 years of construction phase it will comes out to be = 157,142 x 5 1/2

= 864279.625 cubic meters

= 8.6 lakh cubic meters

In case the required material fell short of demand then HPPCL will use its already existing quarry of Kashang Project at Jangi

The necessary NOCs/approval from the mining department and other approvals for use of quarry sites will be taken after acquisition of land

At the present level of investigations a tentative provision of Rs 105 lakh can be earmarked for quarry and borrow slope stabilization. The details are given in Table-7.3.

TABLE-7.3: Cost estimate for restoration of borrow area

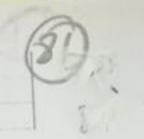
S. No.	Activities/purpose	Cost (Rs. lakh)
1.	Filling up the land with soil	10.0
2.	Cost of green manure	4.0
3.	Cost of sapling (10,000 saplings/ ha) @ Rs.5.00 per sapling	0.5
4.	Cost of fertilizers and pesticides	4.0
5.	Fencing with RCC pillars and barbed wire	3.0
6.	Maintenance activities including cleaning of weeds @ Rs.50,000	2.5
7.	for 5 years Digging of pits	1.0
8.	Construction of garland drain	20.0

Shangions Kitchham HEP, HIPCL, Reckong Peo, Dist. Kinnaur (H. P.) 172107

S. No. 9

Activities/purpose Bench terracing Total

Cost (Rs. lakh) 50.0 105.0



LANDSCAPING AND RESTORATION PLAN

Area for landscaping: The working areas of barrage site, power house complex colony area have been selected for beautification of the project area after construction is over.

The reservoir created due to the construction of barrage may be a local point of tourist attraction. This could be used for sport fishing, so there is a need to construction of benches for sitting, development of resting sheds and footpath. The beautification would be carried out by developing flowering beds for plantation ornamental plant and flower garden.

There would be sufficient open space in power house complex and colony area. Forested area in the power house complex would provide aesthetic view and add to natural seismic beauty. The beautification in the colony area would be carried out by development of flowering beds for plantation of ornamental plant, creepers, flower garden and a small park, construction of benches for sitting, resting sheds, walk way and fountain. A provision of Rs.50 lakh has been earmarked for landscaping and beautification of the area.

7.5

A total provision of (105.0 + 50.0) Rs. 155.0 lakh, (has been earmarked) for restoration of quarry and borrow area, reclamation of construction sites, landscaping and beautification.

6th January 2007 Allotment of Hydro Electric Projects to Himachal Pradesh Power t mg-Kurchham HEP, Techong-Pea, Distt. Kinnaur H.P., 172107

No MPP-F(2)-5/2005-11 Government of Himachal Pradesh, Department of MPP & Power

The Pr. Secretary (Power) to the Government of Himachal Pradesh.

The Chairman-cum-Managing Director, Himachal Pradesh Fower Corporation Ltd., Himrus Building, Shimia-171001.

Subject Corporation Ltd. (HPPCL).

SIF,

I am directed to refer to the subject clied above and to say that

the following Hydro Electric Projects shall be executed by the himschar Pracesity. Power Corporation Ltd. :-

Shongtong Karchham (402 MW) HEP.

Chirgaon Majhgaon (46 MW! HEP.

- Dhamwari Surida (70 MW) HEP (subject to the final outcome of the Arbitrationi
- Szinj (100 MW) HEP.
- Luhri (700 MVI) HEP
- Bharmour (45 MW) HEP

Harsar (60 MW) HEP.

Besides above, the Clause xxxvii of Chapter -V of mydro Power .

Policy, 2006 provides as under-

"There are good number of Projects which are yet to be identified. The HPCI HPSEB shall identify such Projects. The Government of Himachal Pradesh reserves the right cither to allot these Projects upto 25.00 -WIVI to HPC & HPSEB or offer it to the IPPs and above 23 MW to HPC & IPPs. However, for Projects upto 25.00 MW, preference shall be given to Sonofice Photochalis. The developer shall have to prepare PFRsi DFRs and develop blein as per agreed terms & conditions of Hyttro Power Policy "

There are a number of HEPs which have been identified by the

Independent Power Producers, the list of which is enclosed. Debic of 1 abe, there is my Le Other HEPs for which ruentifond in a collections.

You are, therefore requested kindly to take immediate necessary

action in the matter and as the manual action in the matter and as the matter That sy are top PRIORTY proses

Dy. General Manager Principal Secretary Plan Show archam HEP.

Addl Superidending Elgender Reckong Peo. Investigation Division, Dist. Kinnaur (H. P.) 172107

E / Reckong Pson

Sho HE

No.WIMMOC H.P. Forest Department

Dated Sarahan, the

From: - DCF WL Sarahan

Subject: -

To: - CCF WL (S) Shimla

Diversion of 7,3722 ha. of Addl. Forest land in favour of Himachal Pradesh Power Corporation Ltd. for the construction of Shongtong-Karchham 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 within the jurisdiction of Kinnaur Forest Division Distt. Kinnaur, HP.

In this regard, it is submitted that as requested by the user agency vide Memo: their letter No. HPPCL/SM (R&R)- SKHEP/Env-VI/2019 dated 26.02.2021 (Copy enclosed as Annexure I) a joint inspection of the proposed project site within the boundaries of proposed ESZ of Lippa-Asrang WLS & sanctuary area was conducted by the field staff of Sangla WL Range and project representative on 20.05.2021

As per the joint inspection report the Co-ordinates of the weir site of the above project & aerial distance with reference to the boundaries of WLS and ESZ of Lippa-Asrang 2. Wildlife Sanctuaries were recorded. The aerial distance shows that the project site falls outside the boundary of the Lippa-Asrang Wildlife Sanctuary and its proposed eco sensitive zone.

S. No.	Particulars	Lat/Long	Aerial Distance (in kms)	Remarks
1	Start of Trench Wear	N=31°02'54" E=078°30'19"		Enclosed as
2	Aerial distance of Trench Wear from Lippa-Asrang WLS.	N=31°40°32.796" E=078°18°4.795"	13.41 Km	Annexure-II
3	Aerial distance of trench wear from proposed ESZ of Lippa-Asrang WLS.	The The state of t	12.98 Km	Enclosed as Annexure-III

In addition to above, as per User Agency there is no requirement of 3. animal passage plan for the construction of above mentioned project, as Project components of above mentioned SHEP are very far away from Sanctuary area and proposed ESZ of Lippa Asrang WLS, and as such it will not affect movement of wildlife of the Sanctuary area. Also, construction of the above project will not adversely impact the Wilditie of the Sanctuary area.

This is for favour of information and further necessary action please.

Encl: As above.

Dy. General Manager Shenetong Karchham HEP, HOPCL, Reckong Peo. Distr. Kinnaur (H. P.) 172107 Dy. Conservator of Forests, Wildlife Division, Sarahan.

Endst. No. WLM/NOC 640 Dated Sarahan, the 28/07/2021

Copy is forwarded to Sr. Manager (R&R), ShongtongKarchham HEP,

HPPCL, Reckong Peo Distt. Kinnaur, H.P. for information please.

Dy. Conservator of Forests, Wildlife Division Sarahan.

Dy. General Manager Sheestong Carehhem HEP, 1109CL, Reckong Feo. Days. Kinnage (H. P.) 172107

CERTIFICATE

Khasra No mit, where the Shongtong Karchham Hydro flieding Froject (MW) on Subayawer near Villege Powari Tehal were for to be about the constructed does not fall with in 10 Kms. Colors, core, of the constructed to Scholary, as per Freliminary tepes succeived to Scholary. Executive Engingeer Investigation Division, HPShB, Rechong Peo Listers Kinnaur, H.P.

Atterted.

Adest Manager (R&R) near Investion of Karohham HEP, H PHPP Backer Kongo Peo, DISTANT HIP 172107 Divisional Forest Citicer,
Wildlife Division 2/2/05
Sarahan HP.

Dy. General Manager
Show come Karchham HEP,
Il Rockova Peo.
Usan, Kinnaur (H. P.) 172107

No.SDK-29(MC)/- 2617 Office of the Sub-Divisional Magistrate Kalpa at Reckong Peo, Distt. Kinnaur, H.P.

To

The General Manager, STKEP, HPPCL Reckong Peo, District Kinnaur, H.P.

Dated:Peo-172107 the 21st November, 2019.

Sub:

Diversion of 7.3722 Hectare of Addl. Forest Land in favour of HPPCL for the construction of Shongthong-Karchham HEP 450MW

Sir,

Please refer to your letter No. HPPCL/GM-STKHEP/AFL/2019-5317-18 dated 19.11.2019 on the subject cited above.

In this context, requisition information as desired by you vide your letter under reference is as under:-

		Village code	Population
Sr.No.	Name of village	004201	1789
1.	Shudarang	006001	495]
2.	Tangling	006701	448+222=1165
3.	Powari	005701	1202
4.	Barang	003001	

Show tout a chan HEP, HRIVL. Rechard Peo,

Disit. Kinnaur (H. P.) 172107

Yours faithfully,

Harsh Awarender Singh HPAS Sub-Divisional Magistrate Kalpa at Reckong Peo, H.P.

Office of the Deputy Commissioner Kinnaur District at Reckong-Peo (HP)

IR-IV-V-24(DRA)/

1024157

Dated: - 06/04/14

Inescapability Certificate

As per report of SDM Kalpa vide letter No. SDK-07-II (OK)/09-396 dated 09.03.2017. Certified that the under mentioned land is inescapable for the purpose of which the land proposed to be acquired by the General Manager, Shongtong-Karchham HEP (450MW), HPPCL, Reckong-Peo. It is further certified that there is nc water resources, religious places, public path etc. within the limits of the land proposed to be acquired.

Sr. No	Name of Distt.	Tehsil	Name of Mauja	Khasra No.	Area in Hect.
1.	Kinnaur	Kalpa	Up-Mohal Rang	724/576/2/1, 571/2/1, 561/1, 568, 569	03-50-65
2.	Kinnaur	Kalpa	Up-Mohal Usaring	3/2	0-29-60
3.	Kinnaur	Kalpa	Up-Mohal Tangling	21/1, 2/1, 2/2, 1/1, 838/1, 840/1	04-92-96
4.	Kinnaur	Kalpa	Up-Mohal Powari	854/823/1, 810/2 -	0-69-96
-				Total=	09-43-17

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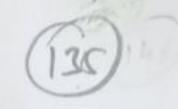
Reckans Peo 172107

Dy. General Manager KinnamsiniamerarReckong-Pedangtong-Karchham HEP, 1199 CL, Reckops Pro. Distr. Kinnaur (11 P.) 172107

r (R&R)

. . Larchham HEP, Sho

HP. a kong-Peo, Distt. Li maur U.D. 1/210/ Scanned by CamScanner



OIL ECTION & DEMARCATION REPORT

We the undersigned have jointly inspected & Demarcated 7-37-22 hectare of Forest land on outed 22 08-2019 8-23-08-19 failing in Kalpa Range under Kinnaur Forest Division. Peckora Peckora Peckora Range in Sub-Monal Range Usuaria, angling & Powaria the Project required 2-37-22 Rest of Additional Forest land for Intake tunnel, Diversion Tunnel Guttet, Sift Husbing Tunnel's public Portal, Dumping, Approach roads to Portal & it's working are in Tensil Kulpa Distil Kinnaur (HP).

The detail of land is as under:

No.	Purposed/ Component	Sub- monol	Khosro No.	Forest Land in (hect.)	of land	
	The state of the s					
	Desire Damping			0-84-09		
		Sub-	03 kilo	1-44-70		
		Sub-	D1 killa	0-29-60		
8	Adital Partal on felt bank of over Surius including its working dreat	Tongling				
	Summing Action of Summing Acti					
	Dumping Area on test bank of river Surtu near Adia testow saiding to P.P.W.D road Shoogloog to Europani U/S ()				Chakmaan	

Dy General Manager
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		Tougling				
	Portal & Is					
		Sub-	D6 Kila	04-92-96		
14	Diversion tunnels & Diversion tunnel cullet & its working areas in between existing HPPWD road and vertical citt.	Pawari		58 36	Charagah	Surface
	Approach road to RBM site at Powari on left bank of river	Power			prosintacin	
	Sottisj	Sub-	02 kilo	0-69-96		
		G-Total	14 Kita	07-37-22		

Joint inspection & Defrarcation team has examined all the alternatives with a view to avoid/minimize the use of forest land; we have come to the conclusion that the above mentioned land is the minimum requirement of the proposed project and is inescapable.

Range Forest Officer Kange Forest Officer

Disting Amphidist (H. P.

STKHEP HPPCL MEP 150
Reckong Peo Kinnaur

Mining Officer (Reskong Perc Distr. Kinnaur (RP)

Divisional Forest Officer. Kinnaur at Reckong Pec Distr. Kinnaur (HP).

Kulpa of Keakangreep

Dy. General Manager

Shannang-Kurchham HEP,

1019CL, Reckong Peo,

Distt. Kinnaur (H. P.) 172107

Dy Monoger (E&R) STKHEP, HPPCL R/ Pec Kinnou

Du Carrell Manager

Illes Clar Rocks Ch. L. J. L. L. S. L. S

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CARCON MANAGEMENT STATEMENT

OFFICE MEMORANDIME

Subjects

Shougtong Eartham Hydro Fleetrie Project (3x150-150 MW) as Observed Pradesh by M/s. Himselfol Pradesh Power Corporation Louised (HPC L) and estimated cost of Rs. 2807.83 Cruzes including HIC of Rs. 465.74 Cruzes July, 2011 Price Level Issue of Concurrence

Report (DPR) of the generation scheme of Shangama Karcham Hydra. I keetre Project of the generation scheme of Shangama Karcham Hydra. I keetre Project plu, Movem Himachal Pradesh vide letter dated 27.16.2007. Memoriale MAs Himachal Pradesh Powar Corporation Limited (HPPCL) also submitted. Desailed Project (402 MW), vide their is the scheme of Shongtong Karcham Hydra. I beetra, Project (402 MW), vide their is the HPPCL/DC/SHONGTONG KARCHAM/DPR/07-156, dated 30 in 3077. Subsequent admitted by M/s, KKPCL was withdrawn vide their letter dated 02.11.2007. The restriction the scheme was made by M/s, FPPCCL on 27.11.2007 to appropriat groups of CLA, LWC & Obj. DPR was refurned on 18.12.2007 due to made quark projects. from State Crisic, updates on continuation of devels of approximal & downstreams projects from State Crisic, updates in estimates of

M/s. HPCCL (gain submitted revised LiPR of Shongtong Karcham HLP 1450 MWA virit their letter No HPPCL/CP/Shongtong karachams Vol VI/2010-16373 dated 9.11-2010. The TiPR was returned on 31.3-2011 due to non-admiration at reply to comments of CLA CWL & List case or resolution of various issues of Project Hawever Mp. HPPCL was advised to interact with CWC & GSI on various key represent jet them resolved. DPR of Shongtong Karcham 10.0 and silven under examination of bioversher 2011, other resolved, DPR of Shongtong Karcham 10.0 and silven under examination of bioversher 2011), other resolution of most of the ourspicking factor CLA, CWC and GSI.

The proposal for establishment of Shongsong Kareham Hydro Factive Project (1975) 456 MW) in Kinnaur District of the State of Hamachal Prodesh proposed by Mo. (1990), was considered in the 313th Meeting of CEA held on 27 4,2012 based on the Agenda note about and sold of 4.5 feets No. v106/313th /2006-PAC72376-2403, dated 26.4.2012 and in Ambienty meeting held as Estate at Sewa Blowan, Park, Purpos, New Delbi-110006, 546-109001 submitted the opdated. They are after meotiograting the suggestation modifications indicated by CLA, CWA & CST-factor are process and changes in project features and project class a approved in the Ambienty society on 13.7.201.

2. In exercise of the powers vested with the Authority under Section 8 of the Edwards 2003, the Central Electricity Authority accords Concurrenc to the aforesaid scheme it should be supported.

Dy Comman People



cost of Rs. 2807.83 Crores including IDC of Rs. 465.74 Crores at July, 2011 Price Level with the following stipulation --

(i) the cost of the scheme shall not exceed the above cost except on account of:

(a) | Change in rates of Indian taxes and duties and additional taxes and date (b) Change in Indian Law resulting in change in cost.

Variation dynamial interest rate

- (ii) Interest During Construction (IDC) shall be as per actuals but not exceeding the amount in indicated at Annex-1 except for variation in actual intejest rate(s) and the pro-tata variation in laws cost, as stated in clause 2 (i) (a)& (b) of this t).M.
- The abstract of Project Gost approved by C.L.A. is manished at America, LA and LB. summary of tentative Financial Phelage, as submitted by Mrs. HPPC1, and considered to CLA, and the salient features of the scheme are given in Annex- II & III respectively
- This Concurrence is subject to fulfilment of the following conditions -4
- The following conditions/eircumstances shall not be a re-opener of the Project Cost 1) Concurrences-

Non-acquisition of land

- Non-finalismon of power purchase agreement.
- M/s (HPPC), shall incorporate the suggestions, observations of Contal Water Commission (CWC) (Annex - IV) on Hydrology, Hydel Civil Design, 18, 12. 11) Foundation Engineering & Seismic Design, Inter-State aspects and Central Soil A. Material Research Station (CSMRS) etc. during the detailed design stage
- M's IPPCL shall collect site specific short interval rainfall-ranoff data for the ratio of catchment for at least 1-5 flood events for the development of catching a response 111) function and review the design Bood at the construction stage.
- Suggestions of GSI (as given at Annex 1 & 1/4) and turnished as comment arom upon to time shall be followed. Cost for changes required subsequent to investigations, but be 111 absorbed by the company. Report on additional investigations completed shall be submitted by M/s HPPCT
- Site specific seisnite aladies for design earthquake parameters shall be got approved from Y) the National Committee on Seisma Design Parameters (NUSDP).
- Cost of HP have confirmed FR1 and TW1 of Shonglong Karcham HFP as its or as met (17 1810 in respectively vide letter No. 11P DOFFCE (Frengy)/HPPCE Misce 2010 Source dated 19.03/2011. As such responsibility of correctness of levels of Shongton, har tran-HEP lies with the Gove of HP and MS HPPCL
- M/s HPPCI shall carry out Physical Numerical Model Studies during derived become VIII) stage as agreed by them.
- Mrs HPPCL shall carry out Petrographic examination of course and line again-VIII) samples for all potential quarries for knowing the presence of reactife meterals and diother tests suggested by CSMRS at pre-construction stage

Disc. Kingaur (H P.) 1721-7

1 1 Breakly Wale



- As per decision taken in Androcity Meurig No. 25/2002, dated 20/02/2002, Mrs. Upper being a State Public Sector Organization quantities involved in Cryst and Logistectory structures have not been examined in CEA/CWC. A certificate in regard of surre trace of INI quantities of civil works has been furnished by Mrs HPPCL vide letters dated by mean (Amex- 17) & dated 39.5, leng thruce 174). Hence the correctness of quantum a civil works shall be the responsibilities of Mes HPPCT
 - Under the cost of civil works, total provision under the head "B I and" has been made as 13 Rs 67.38 crores at July 2011 P.1.
 - Environmental clearance (for 450 MW) and Forest clearance (for 402 MW) have been accorded by Ministry of Environment & Forest (MOE&F). A provision of Rs 10777 crores has been kept in cost estimates of civil works under the sub-head Toronomousing XII and Ecology'. Forest clearance for 180 MW shall be obtained by Mrs. 14PPe 1
 - Suitable tehabilitation and re-settlement plan shall be prepared by HPPC1 and addresses to MOTAF for obtaining their elearance. A provision of Rs 10s Crozes in old estimate (11) of Civil works has been made for R&R Plan at July, 2011 P.J.
 - If any impact on wild life is observed, My TIPPCL would obtain clearance from National X1111 Board of Wild Life.
 - As the Scheduled Tribe population is getting affected, clearance trades borest kindus and from Ministry of Spend Justice & Empelverment / Tribal Affairs shall be amanged by XIV) M's HPPCL
 - M/s HPPCL shall comply with the suidelines for participation of featign Componer in tender work packages of Hydro electric Projects in sensitive areas, issued by Ministry in XV) Power vide No. 7/1/2002 DOONHPC (Vol. 11), dated 03.09.09 appended at Junea- 1/1/
 - M/s HPPCL shall take appropriate precautions to avert flooding of power house by XXII adopting measures listed at Annex -1711.
 - by ash and fly ash based products shall be used in the construction of various sould infrastructure facilities etc to the extent possible in accordance with MOEACE notice ment CHYZ dated 14 09 1999 and its amendment dated 27.08.2003 and 03.11.2009 and more revision/amendment, if any The consumetion material surveys shall mediate the required investigations for use of the Ash and thy Ash based products in various works infrastructure facilities exc. and their learnbility shall be ascertament by Mrs. 1990 L. To case, fly ash proposed to be used is based on imported coal, the fly ash shah be texed to: radio activity before incorporating in the project.
 - M/s HPPCL shall deploy modern tools/ software for construction moontering of a project by establishing 11 based monitoring systems and linking the same to C1 v XVIII) network
 - M/s. HPPCL shall identify additional quarry sites for meeting the shortfall of construction material before taking up the construction of the project. The suitability of 127 the material of new quarry sites shall also be established.
 - MI/s. HIPPCL spall subant the updated bond DPR to the State they FATAROFFE to Hectricity Regulatory Commission and Central Transmission Louis 180 submitted to CHA
 - Information in respect of typic up of exercial inputs statutory elements remained investigations/ studies shall be suffaited to CTACMI Cist on receipt of same been some 2211 time to lime.

Narchham HEP,

.... (il 1.) 172107

- Concurrence is subject to compliance by \$15 HPPC1 of various policies specifically 111102 issued by tabyt of India from fined to time
- Broad technical aspects of the project proposal in the project report have been satisfact. in Cl-A in consultation with CWC, GSI and other concerned agencies. The sentime CHIERRA based on the data, assessment and certificates presented in the report and information/elarifications received as compliances to the observations on the assumption that the data and information furnished are accurate and have been collected reliable by the project authorities from dependable sources and/or after carrying our dended autoesand investigations as opesented in the report.
 - MA HPP Lishall obtain clearance on International aspect from Ministry of Visite XXIV) Resources / CWC.
 - M/s HPPCL shall obtain the elearance from plimstry of Defence for the project
 - Any modification, necessitated to be carried out by M/s, HPPCT in project design XXV? parameters being presently concurred by CEIV, shall be got approved by CEIA in revames TIVEZ with full justification before implementation in project site.
 - The hydro machine shall be capable to rea on synchronous condenses mode
 - The current rating of 400 kV switchyard and XLPL table shall be adequate to hand in-XXVII) XXVIII) 3000 MW power at 400 kV
 - The rated short circuit current capacity for switchyard at 400 kV bus shall be 50 kg to LXIXX. one second.
 - The cold of the project cleared by the Authority's indicative. The tariff of the project and be regulated by the appropriate Electricity Regulatory Commission
 - Commissioning schedule of the generating units from zero date i.e. 1" June 2011 april to a ti. follows:

that 1 : 56th Month Unit 2 : 57th Month Unit - | 58th Month

- Monthly Status Report of compliance of the conditions stipulated under para 1 of the Concurrence letter shall be submitted to Secretary () A
- Monthly Progress Report of the project shall be submitted to Hydro-Project Monitorin-(HPM) Division of CEA. Three (3) copies of the half-yearly reports on both physical progress of the scheme and expenditure actually incurred, duly certified by standary auditors shall be submitted to the Authority till the Commercial Operation Date of the plant. The project authorities sholl goes free accessibility to CPA officers and staff to have on the spot assessment of various aspects of the moject.
- Monthly status of the project from the date of Concurrence to Linancial closers deal is furnished to Secretary, CEA as per the proforma enclosed at Annex-IX.
- In case the time gap between the Concurrence of the scheme by CLA and the action of the main works by M/s HPPCL is three years or more a fresh concurrency of Dw. Gone Manager obtained by M/s HPPC1 before the start of school work



Revalidation of concurrence can also be considered, in case the reason for not atorning the work is beyond the control of developer. However, proposal of revalidation shall be submitted those months before the expiry of validity of concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the above of the concurrence which is 3 years from the concurrenc

this Office Memorandum are not complied with to the satisfaction of the Authority.

मन्त्रीत विश्व

Managing Director, Himachal Pradesh Power Corporation Limited Bhavan Panna, (Below Old Mi.A Quarters), Shunda, Himachal Pradesh 171 005.

- Secretary, Ministry of Power, Cove of India, Shram Shakti Bhowan, Rafi Marg. New Delhi - 110119.
- Secretary, Ministry of Environment & Forests, Government of India, Paryasianan Islanda, CGO/Complex, Lochii Road, New Della (1960).
- Chairman, Central Electricity Regulatory Commission, 3rd & 4th Floor, Chanderlok Buildin, 36, Janpath, New Delhi-110001.
- 5. Chairman, Central Water Commission, Sewa Bhawan, R.K. Purant. New Delhi 110000.
- 6. Chairperson, Central Electricity Ambority, Sewa Bhawan, R.K. Puram. New Falla
- 7 Chairman, HP Electricity Regulatory Commission: Keenthal Commercial Courte KHALINI, Shirafa., 171 002.
- Chainman-cum-Managing Director, Power Grid Corporation of India Limited, Sandamina.
 Plot So.2; Sector 29, Gurgaon (2200) (Harvana).
- 9. Chairperson IIP Power Transmission Corpn. Ltd. Barowalius House, Khaino, Shanka 171002.
- Secretary (Department of Powers Coverament of Himachal Pradesh, Secretaria, Shand-Himachal Pradesh 171 902
- 11. Adviser (Lucrgy), Planning Commission, Vojaha Bhawan, New Delhy. (1199);
- 12. Member (D&R), Central Water Commission, Sewa Bhawan, R. K. Peram, My 43-150, 110606.

Dy. General Thrager Shon stong Kychham 1777. Hould, Reckong Per

Dist. Kinnaur (H. P.) 172107

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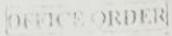
Shongtong Karcham Hydro Electric Project (3x150=450 MW) - Himachal Pendesh, by M/s Himachal Pradesh Power Corporation Limited (HP) (1)

	ted Cost at July, 2011 Price Level	Total
S.No.	Description	(Rs. Crs.
		1720.10
1	Civil works	621.95
2	Electro-Mechanical Works	23.42.09
3.	Total Hard Cost	465.74
4.	IDC	2807.8
-	Total Cost .	

Manager Karchham HEP.

Distt. Kinnaur (H. P.) 172107

HIMACHAL PRADESH STATE ELECTRICITY BOARD



SHONGTONG KARCHAM HEP (402 MW) in Sathij basin in Distr Kinnam of Humachal Pradesh at an estimated cost (at bus bar) of Rs.2415.53 crore (Rupees Two thousand four hundred lifteen crore & fifty three lac only at December, 2005 price level including Escalation, IDC and LADA charges (ii) 1.5 % with the sopulation that

- The complete cost of the scheme shall not exceed the above cost except on account of the following.
 - a) Interest During Construction (IDC) shall be as per actuals not exceeding the amount as indicated at Annex-I unless revised by HPSEB while according concurrence under section 31 of Electricity (supply) Act, 1948 repealed by Electricity Act, 2003 after review of financial package
 - Change in rates of Indian taxes/ duties such as excise duty, sales tax/ VAT, custom duty and levy of any other taxes/duties subsequent to issue of Techno-Economic Clearance (TEC).
 - c) Change in Indian law resulting in change in cost
 - The abstract of the estimated cost approved by HPSEB is furnished at Annex-I, Summary of Financial package as considered by HPSEB is at Annex-II and the Sahem Features of Scheme are at Annex-III.
 - The Techno Economic Clearance (TEC) is subject to the fulfillment of the following conditions:
 - Completed custification reonance clearance shall not be re-opened due to the following
 - a) Non acquisition of land
 - b) Non-finalisation of Power Purchase Agreement (PPA)
 - c) Delay in financia clasure
 - The final financial arrangement shall not be inferior to the financing arrangement projected in the Detailed Project Report (DPR) ... FET
 - m) Until shall be decided by the Central/State Electrical Regulatory Commission
 - The public issue expenses, if any, shall be resonaidered at the time of approval of completion cost, based on documentary proof and in accordance with Security Exchange Board of India (SEBI) guidelines regarding regulation of public issue expenses.

Dy General Finnager

H . Reckong Peo.

D Minmaur (IL D.) 172107

Sr. Manager (R&T)
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Distt. Kinnaur H.1., 172107

- the tage of density descentations
- The Lechnes Lessence of learning (LEC) is subject to clearances of project to \$2. \$401. \$1. Its meconomic methods and forces angle. The statutors of carances we per Amierite IV shall be obtained before execution implementation of the project.
- Implementing agency/ Project Authority full enter into an agreement with beneficiary status for absorbing power generated from the project
- (vii) Implementing Acency/Project authority hall obtain the forest clearance for the Power evacuation line before commencement of the construction work.
- (x) Implementing Agency/Project authority shall construct the Power cyacoation line matching with the commentioning of the generation units
- 21 His additional cost shall be allowed due to Resettlement & Rehabilitation (R&R) 75m
- Normal operation tife of the hydro power plant shall be as provisions of the sight schedule of the Electricity (Supply) vet 1948 repealed, by Electricity Act 2003.
- the 11 C is based on the reports and the larmshed in the DFR and it is presonted that aformation formeded it securities. The scrutiny does not cover the examination of the detailed desert and working drawings of work components in regard to the structural hydraulic and mechanical performance and safety which shall be ensured by the implementing Agency/Project Authority.
- xiii) Final Francial package shall be approved by the HPSEB.
- The Project shall be completed with in [12] (seventy two) months from the date of start of the Project.
- Monthly Progress Report of the Project shall be submitted to Monatoring Cell of HPSER. Three (3) copies of the semi-annual physical progress report of the scheme and expenditure actually memored, doly cerufied by statotox auditors shall be submitted to the HPSEB till the Commercial Operation of the plant.
- b) I and state of parking and uses record to that shall be extended to 1993.
 - Shortly state of the Project Iron the remoder 110 to financial closure one estimate decision shall be furnished a 11050 H.
- The completion cost of the school shall be submitted to HPSEB for approve as soon as possible after the connected operation date (COD) of the plant but not than three (3) months is on the COD of the plant.

Dy General Manager

Sheretong Rarchham HEP,

Dist. Kinnaur (11 F.) 172107.

Sr. Manager (R&R)

Shongtong-Karchham I P.

Hr ckong-Peo

Distt. Linnaur H.P., 172107

The common of the illustration has been under Sentence of the Electricity (Supply). Act, 1941 repealed by Electricity Act, 2003, st. It to considered by the Heard in a besite of the consocial factors and the up of balance upouts againness by the impremening Agency Project. Authority within a period of six months from the date of sente of TEC.

- In case the time gap between I To one Lymene and actual start of work on the Project is three years or measures. Techno-Economic-Clearance shall be obtained from HPSER before start of actual work.
- The HESEB reserves the right to revoke the Techno-Economical Commits if the conditions stipulated in the TEC are not complied serve to all satisfaction of the HPSEB.
- The implementing Agency/Project Authority shall have to obtain clear, new from CFRC/FIPERC as per provision in the Electricity Act. 2003.

Chief Enforcer P.C. (O. press)

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Figure

pc) (1.384) (Secti) 301-Shongong carehan (EC06-3.) \$5.5-4.) (1.664)

please:

1 The Additional Secretary (Power) to the Govt of HP Shimia-2

2 The Scenetary, HPSFB, Shimla 4 alcognith on the WTMs of the Board by the WTMs of the Board by the land.

The Addl Secretary com Pt / Spatsy PS/Sr, PS to the Chauman and Scientific Stembers of the HPSFB for kind information of the Worthy Chauman / Tembers of the

4 The CAO, HPSEB, Vidynt Bhawan, Short . *

5. The Chef Engineer (P.P), TiPSicot, Shuma-4

6 The Chief Engineer (SI'), HPSEB, Shimla 4.

The Deputy Chief Engineer (Conseact) HPSER Vidyot Rhawan, Chint The Act of Chief Esga Wing, HPSER of to his UC note no. 130 St. A. S. C.

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Addl Superbackling Engineer Investigation Division, H P - L & Reckong Peo-DISTY KINDSALR (H. P.J.

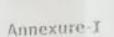
Dy. General Manager
Sheraton Waraghham HEP,
F. Ch. Rokeng Pco.
Dist. Kinnaur (11 7) 172107

Sr. Manager (P. S.R.)

Shongtong-Karchham HEP,

HPPCL, Recheng-Peo,

Distt. Kimmar L.P., 172107



HIMACHAL PRADESH STATE ELECTRICITY BOARD

SHONGTONG KARCHAM HEP(420HW)

ABSTRACT OF COST ESTIMATE

9) (Rs.Crore)

(2)

Civil Works 1 Electro-mechanical works

1165.00 504.20

Price level year Dec. 035

" of Tetal (a)

Sub Total (b) Total (a+b) LADA @ 1.5%

TOTAL (athec)

1669.20 creo 380. A 329.89 710.63 2379.83

35.70 2415.53

Rupees and trousand four hundred lifteen crore and fifty three for a fig-

Dist. Minnour (1) P.) 172107

Sr. Matianer (P&R)

Showston HEP, Dist. Kinner LLP., 172107 11:35

D-PEO-WA-NOC/07

The Superintending Engineer, I&PH Circle R/Peo, Distt. Kinnaur H.P.

Subject:

Forest Clearance of Shongthong Karcham (402 MW).

Enclosed kindly find herewith a copy of letter No.

HPSEB/ISD/II/G-I/2006-57-58 Dated: 26-5-2006 along with site map of above proposed HEP as received from the Assistant Engineer, Investigation Sub-Division No. II III'SEB R/Peo for issuance of necessary NOC for above proposed project. In this regard it is submitted that the subject cited project is proposed to be constructed on the Bank of Satluj River and there is no

the epicerned Department can only be issued subject to the condition that any loss/ damage to the Departmental schemes in the vicinity of this area such as drying of source and damage due

WSS and FIS of this Department falling along the alignment of said project. But they NOC to

to blasting work during execution of tunnel, then the project construction, company will be responsible for repair of such damages at their own cost. In view of the above facts the

conditional NOC to the concerned company can be given subject to the fulfillment of above

conditions by the company/ Department.

This is for favour of kind information and necessary action

please.

L&PH Division R Pco, Distt. Kinnaur H.P.

Copy to the Assistant Engineer, I&PH Sub-Division R/Peo w.r.t.

his office letter NO, ISD-Peo-General 07-1049 Dated: 15-11-2007,

Copy to the Assistant Engineer, Investigation Sub-Division No. II

HPSEB R/Peo w.r.t. his office letter No. referred to above for information,

copy to Addl-SE- mreetfailer DIV. NORTH DSELB RIPED WITH AMOIL

Shongtong-Karchham HEP,

Executive Hugineer.

HPPCL, Reckong-Pco, Distt, Linnaur Lyl, 172107

Addl- Superintending Engineer Investigation Division, HP NE B Reckong Peo. DISTT. KINNAUR (H. F.)

Supid DIA

Himachal Pradesh Public works Department

NO. BHNR-B&R-WA-NOC/2007-08- 11699-701

Dated: 28-1-08

To

The Superintending Engineer, 1766

11th Circle, HP.PWD., 1 1766

HP.PWD., Rampur. 5/2/08

Subject:-

NOC/ Forest clearance of Shongthong Karchhani Hydro Electric Project (402 MW)

Sir,

In this connection it is intimated that the Add. Superintending Engineer, Investigation Division IIP.SEB. Reckong Peo applied for NOC by this Department. The NOC is hereby recommended subject to the following

There exists the PWD road namely Shongthong Purbni road as marked in the conditions:index plan from Km. 0/0 to 3/120. The appropriate area which will be 1. disturbed in the road comes to 21840 Sqm. The undertaking regarding any

damages to this effect may be given by the HP Power Corporation.

There exists 9 Nos Neoza trees in the alignment of road which are in the papers of Public Works Department while conducting the joint inspection with 2. the forest department the Public works department may also be intimated, the compensation of these trees if required shall be born by the HP Power

Corporation. Any Structure/ Component of road as mentioned above is damaged, the same shall be repaired by the HP Power Corporation.

This is for your kind information and necessary action.

DA:- Index plan.

3.

Executive Engineer, Karchham Division HP.PWD Bhabanagar.

Copy to the Add. Superintending Engineer, Investigation

Division HP.SEB. Reckong Peo for information and necessary action please.

Copy to the Assistant Engineer, Karchham Şub-Division

HP.PWD Tapri for information

to.

Stu Manageruf &R. 1Shongtong Karchham HEP, Hope Reckong Peo, PUTT WARMEN P. 172107

Executive Engineer, Karchham Division

HIMACHAL PRADESH PUBLIC WORKS DEPARTMENT OFFICE ORDER

The Superintending Engineer Investigation Division HPSEB- Reckong Peo Distt. Kinnaur has applied for "No Objection Certificate" for construction of Shongthong-Karchham Hydro Electric Project (402 MW) being executed through Himachal Pradesh Power Corporation Limited which is a joint Venture of Govt. of Himachal Pradesh & HPSEB.

The "No Objection Certificate" is therefore issued in favour of above Corporation subject to fulfillment of following conditions:-

The corporation will not harm public property belonging to the state. 1.

Traffic shall not be interrupted during the construction. 2.

During construction any damages to the existing road/building or any other 3. infrastructure will be born by the corporation at their own cost.

The safe guards for proper maintenance of road infrastructure in the jurisdiction of project area will be observed by the corporation and the 4. corporation shall compensate the loss caused to Govt. property (Road

building and Bridges) if any in full.

There exist 9 Nos Neoza trees in the alignment of road which are in the papers of Public Works Department while conducting the joint inspection 5. with the forest department the PWD may also be intimated, the compensation of these trees if required shall be born by the HP. Power Corporation.

Executive Engineer, Karchham Division. HP PWD Bhabanagar

Dated 13-5-08

NO.PW-BHNR-B&R-WA-NOC/2008-09 916--19 Copy to following for information and necessary action:-

The General Manager, Industrial Department Distt. Kinnaur at Reckong Peo w.r.t. a copy of DO No Ind-A(IF)10-9/2007 dated 12-3-2008 (Attached) 1.

The Superintending Engineer, 11th Circle HP PWD Rampur Bsr. The Superintending Engineer, Investigation Division HP.SEB- Reckong Peo

w.r.t. his office letter No HPSEB/IDRP/DB-26/2007-1521-23 dated 5-11-

The Assistant Engineer, Karchham Sub-Division HP.PWD Tapri for information and necessary action w.r.t. his office letter No. 1462 dated 4-1-4. 2008

87812, 516 (STE

ASD Manager (B&R) InShot that Bidisharchham HEP, HHP II o fleetydecheg-Peo,

Distr. Rillially H.F.; 172107

Karchhany Division. HP.PWD Bhabanagar

1001 No.FS11-F (2)39/2006-ARC-X- 604 Directorate of Fisheries, Himachad Pradesh. From The Director-cum-Warden of Fisheries, Himachal Pradesh. To The Managing Director, Himachal Pradesh Power Corporation Limited, Chakkar, Shimla-4 Dated Bilaspur-174001 the, 11.5 JAN 2008 No objection Certificate for Shongtong-Karchham, Hydro-Subject: electric Project (402 MW). Sir, I invite a reference of your letter No. MD-HPPCL-Env./2008-2 dated 07.01.2008 regarding subject cited supra and to inform you that a conditional NOC to implement the captioned project is being issued on the following terms & conditions:-The Project proponent shall arrange joint field survey of the project site & allied riverine portions where project components are required to be installed in order to assess the estimated losses to aquatic bio-diversity. The project proponent shall make provisions at the weir/dam for the release of water downstream as per directions of State Govt. in order to maintain environmental flow of water. The project proponent shall make provisions of fish ladder in the proposed project to facilitate free passage of fish up stream and downstream as well. The project proponent shall pay for the losses to fish & fisheries of the concerned rivers/rivulets, estimated by the department of Fisheries and also fund the fishery HEP, development plan proposed by the department of Fisheries, H.P. before the initiation of construction activities. This may be treated as Conditional No Objection Certificate. In case of the violation or non adherence to any of the above (terms, & conditions, this conditional NOC issued in the favour of captioned project Sr. Manager (R&R) ... rarch fin HEI shall be withdrawn without any further notice · - 100. Yours faithfally.

Dated:-

- 1. The Secretary (Pisheries) to the Govt. of ILP., Shimla-2 for favour of information in compliance to the telephonic instructions dated 10.01.2008 regarding issuance of a conditional NOC to the above cited power project. It is, therefore, requested that the above named hydro power project may also be included for discussions in the New Agenda Items of the forthcoming meeting of the NOC committee for fisheries.
 - 2. The Assistant Director of Fisheries, Shimla (H.P.) for information and necessary action. He is directed to prepare & submit the field survey report and a fisheries development plan to be funded by the above stated hydel project to this office for taking further action in the matter.

Alterter.

Addl. Superior Division,
Investigation Division,
H F E & Recking Peo.
DISTT. KINNAUK (IL. F.)

Shere Long of Fee,
De cannaur (H. P.) 172107

Director-cum-Warden of Fisheries, Himachal Pradesh

Sr. Manager (R&R)
Shot Warchham HEP,

keng-Peo,
Distt. J. i mainr H.P., 172107



HIMACHAL PRADESH POWER CORPORATION LTD.



(A State Government Undertaking)
New HIMFED Bhawan, Panjri, Below Old MLA Quarters,
Tutikandi, Shimla-171005 HP India

Phone 0177-3206511

Fax 0177-2633813

AUTHORIZATION

Himachal Pradesh Power Corporation Ltd. (HPPCL), hereby authorizes following officers of the concerned project to sign and file applications seeking various clearances including clearance under Forest Conservation Act. 1980. Environment Protection Act, 1986, Air (Pollution & Control of Pollution) Act 1981, Water (Pollution & Control of Pollution) Act 1974, Mining Licensee, Explosive License etc.

- I) Integrated Kashang (243 MW) HEP:
 - i. Deputy General Manager, Integrated Kashang HFP, HPPCL, Reckong Peo.
 - ii. Senior Manager Kashang Construction Division No. I. HPPCL Reckong Peo.
- II) Shongtong Karcham (402 MW) HEP
 - Senior Manager, Division HPPCL, Reckong Peo.
- III) Renuka Dam Project (40 MW):
 - i Deputy General Manager, Renuka Dam Project, HPPCL, Dadahu
 - ii. Sr. Manager, Renuka Construction Division No. II. HPPCL. Dadahu

HPPCL further authorizes the above officers to sign and file various forms, reply to observations, file declarations, give undertakings and all other correspondence relating to clearances. In addition to above, Chief Environment Specialist and Chief Social, Rehabilitation & Resettlement Specialist HPPCL is also authorized in this behalf for all the above mentioned activities.

Tarun Kapoor, IAS, Managing Director

Endst. No. HPPCL/ESMU-Circulars/Vol 1/08 - 50 36 37.

Dated /17/5/3 3

Copy forwarded to the above mentioned Head of Projects and Chief Environment Specialist/Chief Social, Rehabilitation & Resettlement Specialist HPFUL for information and record.

Chief Environment Specialist

Sr. Manager (R&R)

Shoretong-Karchham HEP.

HPl cckong-Pco, Distt. Kinnaur H.P., 172107

Dist. Kinnaur (H. U., see

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No.Udyog-Bhu (Regd.) Patel St. Cr.Government of Himachal Pradesh
Department of Industries
Geological Wing
Dated, Shimla-171000

5-11-2019

To

The General Manager (HOP)
Shontong-Karcham H E Project,
Himachal Pradesh Power Corporation Ltd.
KC Complex, Reckong Pco,
Disstt. Kinnaur (H.P.

Subject:

Shongtong Karchham HEP-Lifting of RBM for de-silting of reservoir area at Powari, Distt. Kinnaur.

Sir.

This is with reference to your office letter No. HPPCL/GM-STKHEP/mining/2019-4704-06 dated 19.10.2019, vide which you have requested to allow the Project Proponent to lift and stack RBM that will be generated during the course of de-silting of reservoir area of Project.

In this connection it is to inform that the de-silting of reservoir is a non mining activity and does not fall under the perview of this department. Moreover, if the said activity is a part of your Project Component for which all statutory permissions have been obtained, then this department has no objection unless the involvement of mining activity. However, it shall be ensured that except de-silting no mining activities of any kind takes place for which principal employees shall be responsible. Further, the material generated during such activity can be utilized for bonafide purpose with prior permission of this department as per provisions contained under Rule 33 of H.P. Minor Mineral Rule -2015. In such cases, on the written request of applicant for the utilization of material generated due to non-mining activities, the proposal shall be forwarded to the Committee constituted for this purpose and permission shall be accorded by this office as per the recommendation of the committee, on the payment of advance royalty.

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Endst no As above:-Copy to:

1. The Deputy Commissioner of Kinnaur, Distt. Kinnaur. Himachal Pradesh for information please.

2. The Mining Officer Kinnaur for information & necessary action please.

Divisional Porest Divisional Riper

Sr. Mahager (R&P)
She Kare! HEP,
HF eckor, 10,
Distt. Kinggur H.P., 172107

State Geologist Himachal Pradesh

Yours faithfully,

State Geologist

Dated

Himachal Pradesh

2019

F. No. 8-78/2010-FC Government of India Ministry of Environment & Forests (FC Division)

Paryavaran Bhawan, C.G.O Complex, Lodhi Road, New Delhi - 110510. Dated: 14th November, 2012.

To

The Principal Secretary (Forests), Government of Himachal Pradesh, Shimla.

Sub: Diversion of 63.5015 ha of forest land for construction of 402 MW Shongtong-Karcham Hydro Electric Project in favour of Himachal Pradesh Power Corporation Limited (HPSEB) in Kinnaur Forest Division in Kinnaur district of Himachal Pradesh.

Sir,

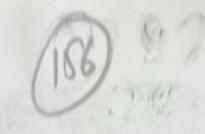
I am directed to refer to the State Government's letter no. Ft.48-1942/2009 (FCA) dated 04.09.2010 on the subject cited above seeking prior approval of the Central Government under the Forest (Conservation) Act, 1980. After careful consideration of the proposal by the Forest Advisory Committee constituted under section-3 of the said Act, in-principle approval was granted vide this Ministry's letter of even number dated 22.03.2011 subject to fulfillment of certain conditions. The State Government has furnished compliance report in respect of the conditions stipulated in the in-principle approval and has requested the Central Government to grant final approval.

- 2. In this connection, I am directed to say that on the basis of the compliance report furnished by the Nodal officer (FCA) of the State Government vide letter nos. Ft.48-1942/2009(FCA) dated 10.05.2011, Ft.48-1942/2004(FCA) dated 25.08.2012 and Ft.48-1942/2004(FCA) dated 16.10.2012, permission of the Central Government for diversion of 63.5015 ha of forest land for construction of 402 MW Shongtong-Karcham Hydro Electric Project in favour of Himachal Pradesh Power Corporation Limited (HPSEB) in Kinnaur Forest Division in Kinnaur district of Himachal Pradesh under the provisions of Section 2 of Forest (Conservation) Act, 1980 is hereby granted subject to fulfillment of the following conditions:
 - 1. Legal Status of the diverted forest land shall remain unchanged.
 - The Compensatory Afforestation (CA) will be raised and maintained over double the area proposed for diversion in a degraded forest land (i.e. 128 ha) at the cost of User Agency.

3. The User Agency shall pay additional NPV, if so determined, as per the final decision of Hon'ble Supreme Court of India.

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- All the funds received from the User Agency under the project shall be transferred to Ad-hoc CAMPA pertaining to the State.
- 5. The State Government shall ensure that minimum flow of 15% is maintained at all time.
- 6. The user agency shall set up Ecological Monitoring Unit to monitor the impact of the project on flora and fauna of the area.
- 7. The user agency shall keep the effect of camping labourers on the flora and fauna during the construction phase of 48 months at minimum by providing alternate fuel for cooking and heating.
- The entire reservoir created due to submergence shall be declared Reserve Forest under Indian Forest Act, 1927 within six months. However, regulated fishing shall be allowed. Nodal Officer shall submit compliance report in this regard.
- Catchment Area Treatment Plan should be implemented at the project cost under the supervision of the State Government.
- Green belt of adequate width shall be raised by the user agency around the reservoir at the cost of the project.
- 11. The user agency shall facilitate a basin level study on the impact of HEPs on the flora & fauna of the area as per the TOR submitted to MoEF.
- 12. The user agency shall carry out muck disposal at pre-designated sites in such a manner so as to avoid its rolling down.
- 13. The dumping area for muck disposal shall be stabilized and reclaimed by planting suitable species by the user agency at the cost of project under the supervision of State Forest Department. Retaining walls and terracing shall be carried out to hold the dumping material in place. Stabilization and reclamation of such dumping sites shall be completed before handing over the same to the State Forest Department in a time bound manner as per Plan.
- 14. The User agency will consult other organisations having experience in construction of roads in hilly areas such as BRO to avoid frequent road blockade due to land slides etc and shall provide breast walls and retaining walls wherever necessary.
- 15. The Forest Department shall regenerate equivalent amount of degraded forest area, in addition to the condition no. 1. As the user agency does not have qualified manpower and control on forest area to execute the same, they have paid for the same to the CF, Rampur. The Forest Department shall implement the same and submit a compliance report.

16. The User Agency shall submit annual self monitoring report indicating status of compliance to the conditions stipulated in the approval, to the State Government and the concerned Regional Office of the Ministry.

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