No. 7421

H.P. Forest Department Kinnaur at Reckong Peo

Dated,

13 Feb .2024

From:

DCF Kinnaur Forest Division

To: CCF Rampur (T),

Subject:

Diversion of 0.4148 hectare of additional forest land in favour of Himachal Pradesh Power Corporation Pvt. Ltd for the construction of Integrated Kashang HEP Stage-II & III (130MW) for some modification in the Project component construction of Silt Flushing Tunnel (SFT) within the jurisdiction of Kinnaur Forest Division, Distt. Kinnaur, Himachal Pradesh. (Online Proposal No FP/HP/HYD/49387/2020)

Sir

In response to your office Memo dated 29.01.2024, the point wise compliance to the stipulation are as under:-

1.	Stipulation	In reply to this stipulation	Pro
	No. 2	you have intimated that user	thro
	10. 2	agency had deposited the	Off
		cost of CA and NPV and	Rs.
		accordingly CA has been	der
		raised in various sites. In this	No
		regard you are required to	alo
		send the detail along with	CA
		supporting documents	res
		regarding deposition of cost	are
		of CA further into CAMPA	No
		account. In the reply cost of	att
		CA and NPV has been	CA
		shown as deposited by user	&
		agency for Rs.2,78,21,479/-	Ar
		however, the Demand Draft	
		has been attached for	
		Rs.2,79,21,479/ This	
		variation needs to be	
		clarified. From the perusal of	
		your reply it is also not clear	
		when the CA has been	
		carried in the various sites	
		therefore, a tabulated	
		statement may be prepared	
		by mentioning Year of	
		plantation, Name of Area,	
	1	Name of Division/ Range/	
		Block/Beat, Spp. Planted,	
1		Dioch Beat,	

this stipulation | Project proponent has deposited the CA and NPV ough one DD as per the demand raised by this fice, which was (CA i.e Rs.1,19, 57,406/- & NPV .1,58,64,073/) Rs 2,78,21,479/-. Accordingly, the mand Draft was submitted for Rs. 2, 78, 21,479/ot for 2, 79, and 21479/- a detail of the CA Scheme ong with the copy of DD is attached as Annex-A). A carried out as per APO approved for CA spect of Integrated Kashsng HEP Stage II &III ea measuring 17.6857 ha. With FCA proposal 14.06.20211 o.9-HPC366/09-CHA dated tached as Annex-B

A was implemented in the FY 2016-17 over 30 ha. in balance 5 ha in the year 2017-18 as detailed in nnex-B ibid.

		Expenditure incurred and survival %. The status of implementation of CA is required by Gol.					
2.	Stipulation No. 4	In reply to this stipulation you are required to send the status of rehabilitation of	dump				diverted for .e DS No.,
		dumping sites, how many dumping sites have been rehabilitated and how many	S.N	Site diverted for Dumping	Location	Status	Remarks
		are remained balance.	1	DS-2&3	Power House site near NH -05	Utilized / reclaimed	Reclaimed
			2	DS-4	Near Kasasng Khad on NH-05	Unutilized,	Handed back to Forest Department
			3	DS-5,6&7	On intake road to Kashang	Unutilized	handed back to Forest Department
			4	Ds-8	On Old HT Road	Utilized	Reclaimed
			dump DS-3 site N filled these Matti	at Power Holes on Obtaining sites in at Power Holes on Obtaining and plant at Power Holes on Obtaining and plant at Power Holes on the American Street Street Holes on Obtaining and Plant American Street Holes on Obtaining Stre	n IKHEP i louse site ne ld Hindusta . Project Pring sites	ear NH-05 at Tibet(HT) roponent have with Property the Local	numbers of site No-2,& nd Dumping Road were ve reclaimed r, Geo-Jute species after
				Reclan	nation Worl	ks complete	ed
					Works com House Site D	pletedat Pov	ver

				Reclamat		s comple	tedat
					DS-8		
			Vario (1575	us Local sp	ecies of Loc	cal plants lik	Numbers of te, Chilgoza nrot (157) &
3	Stipulation No. 5 (ii)	It seems that the reply of user agency has been copied.	Facts are being taken from the reply submitted user agency.				ubmitted by
	Stipulation No. 5 (iii)	It seems that the reply of user agency has been copied. In reply to this stipulation you are required to send the status of dumping sites which have been completed and reclaimed by stabilization and plantation	agency. As explain in stipulation 4 above, user agency have reclaimed 3 no of dumping sites out of total 7 no. dumping sites diverted for dumping of muck. 4 no. dumping sites were handed back as unutilized details a as under: -				
		work.	S.N	Site diverted for Dumping	Location	Status	Remarks
			1	DS-2&3	Power House site near NH -05	Utilized / reclaimed	Reclaimed
			2	DS-4	Near Kasasng Khad on NH-05	Unutilized,	Handed back to Forest Department
			3	DS-5,6&7	On intake road to Kashang	Unutilized	handed back to Forest Department
			4	Ds-8	On Old HT Road	Utilized	Reclaimed
			of m and 4 5, 6	uck only 3 no's of du & 7 were h	no. s of dumping sites	imping site i.e. dumpir to this office	for dumping were utilized ag site no. 4 ce unutilized

			MoEF&	&CC (copy of the sa	me is attache	ed as Annex-
1 .	Stipulation No. 6 Stipulation	You have intimated that HPPCL had already made a payment of Rs.9.42 for the management of wildlife in the area, but you have not intimated whether this amount is in Thousand or in Lakh and also no supporting document attached. The notification No. 1-20/2014 WL (Pt) Dated 24.11.2015 does not found attached with the reply. In this regard the status of implementation of the recommendation of standing committee of NBWL is also intimated.	amoundocum mentio crore). As frecomments of standard to amoun it is in Further direction to implants, Reserve the sand Deputy dated implements of the control of the contro	mendation of standing mendation of standing ned it is submitted to ding committee of Not deposit the 2% of the preview of DFO or this office has fetcon regarding cost of pact of development Sanctuaries, their Experts and Tiger Corridome is attached as a y Inspector General 25th November 20th mentation of this further word DFO wild life Section of DFO wild life Section of the plan in favour of	ore, but in stipulation as 1,41,92,0 of implem g committee that as per to 1,8 WL, Project of project of 200/- to CAN wild life San the activities co-Sensitive ors regardin Annex-D of Forests 21. As far and is concertaraban. Integrated Integra	entation of of NBWL is the stipulation ect proponent ost which is MPA and now rahan. It guide line/measures due in National Zones, Tiger g the copy of submitted by (Wildlife) or as status of the Cashang HER
	No. 10	of CAT Plan and the amount deposited as cost of CAT Plan is not clear from your reply. The reply of user agency has been copied.	stage-Rs. 30 deposi availal with project Integrathe directions.	I, II, III &IV has been a control of the left of the l	en approved eas project pore. As per and correspond it has been approved C -(I, II, III &	amounting to proponent ha the detaiol ondence made apprised by AT plan is fa atV) whereas
			S.N.	Stage wise outlay of CAT plan (in crore)	Fund deposited (in crore)	Balance fund to be deposited(in crore)
			1.	Stage-1 (9.223)	9.223	Nil
				Stage-II & III (8.716)	6.777	1.939
				Stage-IV (12.567)		12.567FC case yet to be initiated

conveyed by project proponent on the basis of extent of land diverted are as under: -

- (i) Kashang Stage-1(Land Diverted 18.7242 ha.)= Rs. 3.03 (as revised 9.223) crores
- (ii) Kashang Stage-II& III(Land diverted 17.6857 ha.)= Rs 8.716 Crores
- (iii) Kashang Stage-IV (Land to be diverted 25.500ha.)= Rs. 12.567

The utilization of Rs. 12, 72, 73,280 has been made up to 31.03.2023 (Copy Attached as Annexure-E.) apart from this for the FY 2023-24 funds utilized as on 31.12.2023 is Rs 59,85,227/- whereas APO for the FY 2023-24 was approved for Rs,70,75,000/-Consolidated utilization as on 31.12.2023 is Rs.13,01,97,602/- of the utilization made on various heads and year wise breakup is as under up to 31.03.2023.

SN	Component Activties	Expenditure made up to 31.02.2023	Total Provision
1	Afforestation measures	10689828	49556000
2	Soil and water conservation endeavors	87808150	65916000
3	Prevent of Environmental services	0	32500000
4	Research, farming and capacity buildup Publicity& awareness Documentation	2200000	10600000
5	Infra structure development	16789397	56303000
6	Wildlife measures	60,00,000	10000000
7	Monitoring and Evaluation	0	15200000
8	Site specific Work	0	3050000
9	Contingency	725000	49310000
a la sa	Total	12,72,73,280	30,50,60,000

APO Approved for FY 2023-24 on Account of CAT plan for FY 2023-24 is RS.70,75,000/- where as expenditure made as on 31.12.2023 is Rs 59,85,227/-

Total utilization of CAT Plan as on 31.12.2023is:

Total 13,01,97,602 30,50,60,000

6.	Stipulation No. 11	As per the stipulation green belt of adequate width shall be raised by the user agency around the reservoir at the cost of project, but you have replied as below: Since no reservoir will be created hence plantation with suitable species will be carried out through project proponent under the supervision of this office, once the project is completed" But you have not mentioned the component of the project around which the above	As already conveyed by the project proponent that in Integrated Kashang stage-II & III there is no reservoir for the diversion of water from Kerang Khad for the generation of Hydro Electric. Only a small diversion structure i.e. Drop Down Trench Weir will be constructed for diversion of water. As per the approved EMP (Chapter IV "Green Belt Development Plan" copy attached as Annexure-F of Integrated Kashang HEP) green belt will be developed around the Trench Weir site, Power House site and around the residential area and office complex to be constructed and around the road side of the project when project is completed.
7.	Stipulation No. 12	plantation will be raised. The copy of letter regarding final report in connection with study of Satluj basin submitted by ICFRI to MoEF & CC for approval be provided to this office.	Since the report has been submitted by ICFRE to MoEFCC. The copy of letter is not available with this office or with the Project Proponent although the project proponent has tried to obtain the same but same from the ICFRI but could not able to get the same as conveyed by the project proponent. Since, Cumulative Environment Impact Assessment Study for the entire Satluj Basin which shall be applicable on the entire basin not only HPPCL. Although HPPCL is committing to implement the outcome of the basin level study after the finalization of the same. The copy of last MoM dated 17-18 Oct 2023 of EAC regarding Satluj Basin is attached as Annex-G. it is cleared that the report has been submitted to MoEF&CC and same has recommended by the MoEF&CC.

This is for your kind perusal and further recommendation & onward submission please.

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

Reclamation Works completed at DS-2



Reclamation Works completed on DS-3



Reclamation Works completed on DS-8



Himachal Pradesh Power Corporation Limited (A State Government Undertaking) Integrated Kashang, HEP, Reckong Peo Distt. Kinnaur (HP). Phone/Fax No.: 01786-223662/223992

HPPCL/IKHEP/E&RR-IV/Vol-V/2010-11-1/4/0-13 Dated / 3/-3-2-1/

To

Divisional Forest officer at Reckong Peo, District Kinnaur, Himachal Pradesh

Sub: - Diversion of 17.6857 ha of forest land for the construction of 130 MW integrated Kashang -II&III HEP in Favor of M/S HPPCL under Kinnaur forest Davison in Kinnaur district of HP.

Ref:- Your letter No. 9199 Himachal Pradesh Forest Department dated 29-03-2011

Sir,

Please refer to your letter on the above cited subject matter. In this context, as desired ,vide above referred letter D.D. No 630041, dated 31-03-2011 amounting to rupees Rs 2,78,21,,479/-(Two Crore Seventy Eight Lacs. Twenty one Thousand four Hundred and Seventy Nine only) in favour of HP State Forest Deptt (CAMPA) Shimla on account of cost of Compensatory Afforestation (CA) scheme (i.e. Rs.1,19,57,406/-) and Net Present Value (NPV)(i.e. Rs. 1,58,64,079/-) is enclosed herewith for further action at your end.

D.A. D.D.No.630041

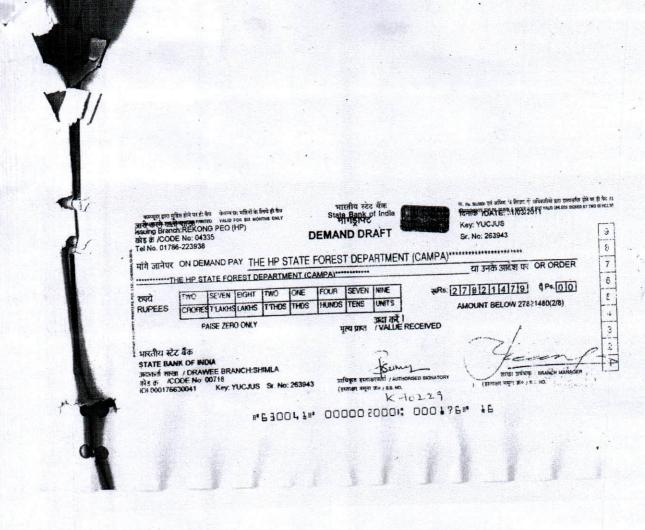
Integrated Kashang HEP. HPPCL, Kinfed Bhawan Reckong - Peo.

CC:-

Chief Environment Specialist, Uttam Bhawan ,Dogra lodge Near 103 tunnels Shimla-5, for kind information please.

DGM -II of this office for information please.

AO/AFO of this office for information please.



No. 9199 Himachal Pradesh, Forest Department

To

The General Manager, Integrated Kashang HEP, HPPCL, Kindfed Bhawan Reckong Peo.

Dated: Rekong Peo, 29 /3/2011

Subject: -

Diversion of 17.6857 hac. of forest land for the construction of 130MW Integrated Kashang Stage-II & III in favour of Himachal Pradesh Power Corporation Limited in Kinnaur Forest Division, District Kinnaur H.P.

Sir,

Kindly this is in reference to the Assistant Inspector General of Forests, Govt. of India, Ministry of Environment and Forests (FC Division) New Delhi vide letter No.9HPC 366/09-CHA dated 22 March, 2011ddressed to the Principal Chief Secretary (Forests), Govt. of H.P. Vide above referred reference Govt. of India, Ministry of Environment and Forests has conveys the recommendation of Forest Advisory Committee for diversion of 17.6857 hac, of forest land for construction of 130MW Integrated Kashang Stage-II & III HEP, subject to fulfillment of certain conditions under Forest Conservation Act, 1980.

2. It is, therefore, requested to deposit an amount of Rs.2,78,21,479/- (Rupees two Crore seventy eight lacs twenty one thousand four hundred seventy nine) only towards cost of Compensatory Afforestation (CA) Scheme (i.e.Rs.1,19,57,406/-) and Net Present Value (NPV) (i.e.Rs.1,58,64,073/-) in this office in shape of DD favouring HP State Forest Department (CAMPA) CBC Account No.01/000075 Corporation Bank, Kusumpti Branch, Shimla, which is payable at Shimla. The bills/detail of the amount is enclosed herewith. If any deviation in the rates/amount of the bills will be pointed out by higher office/Audit same will be charged extra and your will be liable to pay the balance/differential amount to this office accordingly.

The above amount may be deposited at the earliest, so that the compliance may be reported to higher authority accordingly for getting the final approval on the case. Beside above the other conditions as imposed by the Ministry may followed and fulfill accordingly. The compliance report of the conditions may be furnished to this office for taking further necessary action.

Encl: - As above.

Divisional Forest Officer, Kinnaur Forest Division, at Rekong Peo.



PER HECTARE COST NORM FOR MODAL PLANTATION UNDER COMPENSATORY AFFORESTATION 1500 PLANTS PER HECTARE WITH RCC FENCE POSTS FOR ARID ZONE OF KINNAUR FOREST DIVISION THEREOF

		OF KINNAUR FOREST DIVISION TI	uantity	Rate	in Ks.	Amount	
J	Parti	culars of works	1524-27				17.00
1		Fencing	Hac.	67.33	3		67.33
Т	G	is a reation of plantation area) Nos	200	per Post		00.000
+	Drop	paration/ purchase of RCC Fence posts oaration/ purchase of RCC Fence posts oaration/ purchase of RCC Fence posts oaration/ purchase of RCC Fence posts	0 Nos	907.			544.40
-	Piep	paration/ purchase of RCC Tends potential properties of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage of RCC fence posts upto 2mtr. Long over distance finage finag	0 Nos		51%		362.70
			0 Nos		.34%		286.40
			.90 Qtl.		0/Qtl/Km		98.10
			20 Rmt.	The State of	per Rmt	The second second second	2275.20
	1	1: d tiving of particular wife in	20 Rmt.		4 per Rmt.	A CONTRACTOR OF THE PARTY OF TH	1810.00
				L.S			2000.00
	Pre	paration of inspection path of employees. If paration of water retention mounds/trenches.	L.S.	_	4 per Rmt.		493.20
	Pre	paration of water retention meeting paration of water retention meetings.	180 Rmt	12.7	eneing Cos	t 1	9937.33
0	Inte	paration of water recessions along fence.	Tota	al :-F	encing Cos		1993.73
		ded 10% on account of increase on wage rate from Marc	h, 2009	The state of	Total:		1931.06
	Ad	ded 10% on account of increase on wag-			Lotai		2193.11
		ided 10% on account of increase on wage rate from Octo	ber, 201	0.		+	24124.17
	Ad	ided 10% on account of increase on wage ture			Total	•	6031.04
	77						30155.21
	Tr	ribal Area Increase @ 25 %		G.T	tal:-Fencir	ig	30133.21
	1	Planting					3817.68
			600 No		36.28%		
-	10	igging of pits 45x45x45 cm.	900 No	STREET, SQUARE, SQUARE	18.22%		2863.98
1	10	bigging of pits 30x30x30 cm	600 No	-	82.31%		1093.86
2	D	illing of pits 45x45x45 cm.	900 No	-	27.22%		1144.98
3	F	filling of pits 30x30x30 cm.	600 No		3.49%/ Km		281.88
4	F	Carriage of naked root plants over distance 2 Kms uphill.	900 No		45.39%		2617.02
200	2771	- Falante in Pillars Over dis	600 N		45.39%		1309.41
100	6 (Planting of entire plants raised in P/bags.	900 N		122.49%		735.96
1	7 F	Planting of entire plants funds	and the second state of the second	_	613.33%		3066.65
		Planting of Naked root plants. Planting of grass tufts/ preparation of strips including sowing planting of grass tufts/ preparation of strips including sowing along contour.	500 N	os I	013.3374		
	9 1	Planting of grass turns, preparation of grass sowing along contour.					
	1	Planting of grass tufts/ preparation of surplining strips 100X30X5 cm for grass sowing along contour.			Di-Hng (rost	16931.42
			T	otal:	-Planting (-	1693.14
		firewass on wage rate from M	arch, 20	09	To	tal:-	18624.5
1	1911	Added 10% on account of increase on wage rate from M	esperature of				1862.4
	1	Added 10% on account of increase on wage rate from O	ctober, 2	010.	T.	tole	20487.0
	100	Added 10% on account of increase on wage 1200			10	tal;-	5121.7
							25608.7
	-	Tribal Area Increase @ 25 %		G.	Total:-Plan	nting	2300017
		Material				 T	6300.0
		Material	0.90	Qtl.	7000 per (zti.	9000.0
	1	Cost of Barbed wire.	200	Rmt.	45/- Per R	mt.	15300.
	1	Cost of A/pipe.		Total	:-Material	Cost	15300.
	2	Cost of Albaba					
		Nursery Cost of I	600	Nos.	6 per plar	ıt	36
		Naked root plants		Nos	8 per plar	nt _	.72
		by land root plants	1900	TIOS.	l:-Cost of		10800.

_	Watering Provision	60 days	150/- Per day	9000.00
	Watering of plants for two months by one mazdoor. G.Total New:-(i.e.Fencing, Planting, Cost of Material, Cost of pla			90863.98
	G. Total New:-(i.e. rencing, realting, cost of Material, cost of par		Or Say :-	90870.00
	MAINTENANCE COST			The state of the state of
i de maio	1 st YEAR MAINTENANCE 30% MO			
Anna I		180 Nos.	318.22%	572.79
		270 Nos.	159.07%	429.48
	Re-digging of pits 30x30x30 chis	180 Nos.	182.31%	328.15
3	Filling of pits 45x45x45 cms	270 Nos.	127.22%	343.49
4	Filling of pits 30x30x30 cms	270 Nos.	145.49%	392.82
5	Planting of F:bags plants	180 Nos.	122.66%	220.78
6	Planting of naked root plants	200	613.13%	1226.26
7	Planting of grass tufts/ preparation of strips including sowing	Strips	013.1370	1220.20
8	in strips 100X30X5 cm for grass sowing. Carriage of polythene bags plants over a distance of 2 Kms	270 Nos.	145.39%	392.55
	uphill. Carriage of Naked root plants over a distance of 2 Kms uphill.	180 Nos	23.49%	42.28
9	Carriage of Naked root plants over a distance of 2 Kins upinn.	375 Nos.	8 & 6 per plant	3240.00
10	Nursery cost of plants	180 rmt.	1.16 rmt.	208.80
11	Repair of fence	L.S.	L.S.	700.00
12	Repair of inspection path	L.S.	L.S.	1000.00
13	Moisture conservation works	124	150/- Per day	18600.00
14	Watering to plants by A/Pipe throughout the month by 1 mazdoor	M/days	150/ 10/ 00/	
	from 15 th May to 15 th September.		Total:-	27697.40
22	Added 10% on account of increase on wage rate from Mar	ch, 2009		2769.74
	Added 10% on account of increase on wage rule 22 52		Total:-	30467.1
	Added 10% on account of increase on wage rate from Octo	ober, 2010	•	3046.7
			Total;-	33513.8
				8378.4
	Tribal Area Increase @ 25 %			41007 2
	Tribal Area Increase @, 25 % G.To	otal 1st yea	r maintenance:-	41892.3
	G.To		Or Say :-	a Francisco de la Companya de la Com
	2 nd YEAR MAINTENANCE 20% M	MORTAL	Or Say :-	41900.0
1	2 nd YEAR MAINTENANCE 20% M	120 Nos.	Or Say :- TTY 318.22%	41900.0 381.8
1 2	2 nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms	MORTAL	Or Say :- TTY 318.22% 159.07%	381.8 286.3
1 2	2 nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms	120 Nos.	Or Say :- TTY 318.22% 159.07%	381.8 286.3 160.4
3	2 nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms	120 Nos.	Or Say :- TTY 318.22% 159.07% 182.31%	381.8 286.3 160.4 167.9
3	2 nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms	120 Nos. 120 Nos. 120 Nos.	Or Say :- TY 318.22% 159.07% 182.31% 127.22% 145.49%	381.8 286.3 160.4 167.9 279.3
3 4 5	2 nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants	120 Nos. 180 Nos. 120 Nos. 120 Nos.	Or Say :- OTY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66%	381.8 286.3 160.4 167.9 279.3 132.4
3	2nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms	120 Nos. 180 Nos. 120 Nos. 180 Nos. 180 Nos. 192 Nos 108 Nos	Or Say :- TTY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39%	381.8 286.3 160.4 167.9 279.3 132.4 . 556.
3 4 5 6 7	2nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms	120 Nos. 180 Nos. 120 Nos. 120 Nos. 180 Nos. 192 Nos 108 Nos 192 Nos	Or Say :- OTY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39% 23.49%	381.8 286.3 160.4 167.9 279.3 132.4 . 556.
3 4 5 6 7	2nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms uphill. Carriage of Naked root plants over a distance of 2 Kms uphill	120 Nos. 180 Nos. 120 Nos. 120 Nos. 180 Nos. 192 Nos 108 Nos 192 Nos 1. 108 Nos 300 Nos	Or Say:- TY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39% 23.49% 8 & 6 per plant	381.8 286.3 160.4 167.9 279.3 132.4 556.
3 4 5 6 7	2nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms uphill. Carriage of Naked root plants over a distance of 2 Kms uphill Nursery cost of plants	120 Nos. 180 Nos. 120 Nos. 120 Nos. 180 Nos. 192 Nos 108 Nos 192 Nos 108 Nos 192 Nos 180 Nos	Or Say:- TY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39% 23.49% 8 & 6 per plant 1.16 rmt.	381.8 286.3 160.4 167.9 279.3 132.4 . 556 50.7 2184.0
3 4 5 6 7	2nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms uphill. Carriage of Naked root plants over a distance of 2 Kms uphill. Nursery cost of plants Repair of fence	120 Nos. 180 Nos. 120 Nos. 120 Nos. 180 Nos. 192 Nos 108 Nos 192 Nos 1. 108 Nos 300 Nos	Or Say:- OTY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39% 23.49% 8 & 6 per plant 1.16 rmt. L.S.	381.8 286.3 160.4 167.9 279.3 132.4 . 556. 50.7 2184.0 208.8 500.0
3 4 5 6 7	2nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms uphill. Carriage of Naked root plants over a distance of 2 Kms uphill. Nursery cost of plants Repair of fence Repair of inspection path	120 Nos. 180 Nos. 120 Nos. 120 Nos. 180 Nos. 192 Nos 108 Nos 192 Nos 108 Nos 192 Nos 108 Nos	Or Say:- TY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39% 23.49% 8 & 6 per plant 1.16 rmt. L.S. L.S.	381.8 286.3 160.4 167.9 279.3 132.4 - 556. 50.7 2184.0 208.8 500.0
3 4 5 6 7	2nd YEAR MAINTENANCE 20% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms uphill. Carriage of Naked root plants over a distance of 2 Kms uphill. Nursery cost of plants Repair of fence	120 Nos. 180 Nos. 120 Nos. 120 Nos. 180 Nos. 192 Nos 108 Nos 192 Nos 108 Nos 192 Nos 108 Nos	Or Say:- OTY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39% 23.49% 8 & 6 per plant 1.16 rmt. L.S.	381.8 286.3 160.4 167.9 279.3 132.4 . 556. 50.7 2184.0 208.8

			Total:-	24308.69
	Added 10% on account of increase on wage rate from March	1, 2009		2430.87
			Total:-	26739.56
	Added 10% on account of increase on wage rate from Octob	er, 2010.		2673.96
			Total;-	29413.51 7353.38
No.	Tribal Area Increase @ 25 %	12-d	maintenance:-	36766.89
	G. l otal	2nd year	maintenance:- Or Say :-	36770.00
				30770.00
	3 rd YEAR MAINTENANCE 10% MO		210.220/	190.93
	Re-digging of pits 45x45x45 cms	60 Nos.	318.22%	143.16
	Re-digging of pits 30x30x30 cms	90 Nos.	159.07%	
	Filling of pits 45x45x45 cms	60 Nos.	182.31%	109.39
914	Filling of pits 30x30x30 cms	90 Nos.	127.22%	114.50
		90 Nos.	145.49%	130.94
	Planting of naked root plants	60 Nos.	122.66%	73.59
	Carriage of polythene bags plants over a distance of 2 Kms	90 Nos.	145.39%	261.7
	uphill. Carriage of Naked root plants over a distance of 2 Kms uphill.	60 Nos.	23.49%	28.18
		150 Nos.	8 & 6 per plant	1080.00
	Nursery cost of plants	200 rmt.	1.16 rmt.	232.00
0	Repair of fence	L.S.	L.S.	400.00
1	Repair of inspection path	L.S.	L.S.	800.00
2	Moisture conservation works		Land to the second seco	1000000
	1 1 1 1 - 1 - ando or	124	1150/- Per day	18600.00
3	Watering to plants by A/Pipe throughout the month by 1 mazdoor from 15 th May to 15 th September.	124 M/days	150/- Per day	18600.00
3	from 15 th May to 15 th September.	M/days	Total:-	22164.39
3	from 15 th May to 15 th September.	M/days	Total:-	22164.39 2216.44
3	from 15th May to 15th September. Added 10% on account of increase on wage rate from Mar	M/days ch, 2009	Total:-	22164.39 2216.44 24380.83
13	from 15 th May to 15 th September.	M/days ch, 2009	Total:-	22164.39 2216.44 24380.83 2438.08
13	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo	M/days ch, 2009	Total:-	22164.39 2216.44 24380.83 2438.08 26818.91
13	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo	M/days ch, 2009 ober, 2010	Total:- Total: Total;-	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73
13	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo	M/days ch, 2009 ober, 2010	Total:- Total: Total;- ar maintenance:-	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64
13	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot	M/days ch, 2009 ober, 2010 tal 3rd yea	Total:- Total:- Total:- Total:- Or Say :-	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64
3	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M	M/days ch, 2009 ober, 2010 tal 3rd yea	Total:- Total:- Total:- Total:- Or Say :-	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00
1	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25% G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms	m/days ch, 2009 ober, 2010 tal 3rd yea MORTAL 60 Nos.	Total:-	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00
1	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms	m/days ch, 2009 ober, 2010 tal 3rd yea MORTAL 60 Nos. 90 Nos.	Total:- Total:	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00
1 2	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 45x45x45 cms Filling of pits 45x45x45 cms	m/days ch, 2009 ober, 2010 tal 3rd yea MORTAL 60 Nos. 90 Nos. 60 Nos.	Total:- 159.07% 182.31%	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00 190.93
1 2	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms	m/days ch, 2009 ber, 2010 tal 3rd yea MORTAL 60 Nos. 90 Nos. 90 Nos. 90 Nos.	Total:- Total:	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00 190.93 143.16 109.39 114.50
1 2 3	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 45x45x45 cms Filling of pits 45x45x45 cms	M/days ch, 2009 ber, 2010 al 3rd yea MORTAL 60 Nos. 90 Nos. 90 Nos. 90 Nos.	Total:- ITY 318.22% 159.07% 182.31% 127.22% 145.49%	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00 190.93 143.16 109.39 114.50 130.94
1 2 3 4 5	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 30x30x30 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of paked root plants	M/days ch, 2009 ber, 2010 tal 3rd yea MORTAL 60 Nos. 90 Nos. 90 Nos. 90 Nos. 60 Nos.	Total:- 159.07% 182.31% 127.22% 145.49% 122.66%	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00 190.93 143.16 109.39 114.50 130.94 73.59
1 2 3 4	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 30x30x30 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms	M/days ch, 2009 ber, 2010 al 3rd yea MORTAL 60 Nos. 90 Nos. 90 Nos. 90 Nos.	Total:- ITY 318.22% 159.07% 182.31% 127.22% 145.49%	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00 190.93 143.16 109.39 114.50 130.94 73.59 261.
1 2 3 4 5 6	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms	M/days ch, 2009 ber, 2010 tal 3rd yea MORTAL 60 Nos. 90 Nos. 90 Nos. 90 Nos. 60 Nos. 90 Nos. 90 Nos.	Total:- 159.07% 182.31% 127.22% 145.49% 122.66%	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00 190.93 143.16 109.39 114.50 73.59 261.
1 2 3 4 5 6	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms uphill. Carriage of Naked root plants over a distance of 2 Kms uphill.	M/days ch, 2009 ber, 2010 tal 3rd yea MORTAL 60 Nos. 90 Nos. 90 Nos. 90 Nos. 90 Nos. 60 Nos. 90 Nos.	Total:- ITY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39% 23.49%	22164.39 2216.44 24380.83 2438.08 26818.91 6704.73 33523.64 33530.00 190.93 143.16 109.39 114.50 130.94 73.59 261.7
1 2 3 4 5 6	Added 10% on account of increase on wage rate from Mar Added 10% on account of increase on wage rate from Octo Tribal Area Increase @ 25 % G.Tot 4th YEAR MAINTENANCE 10% M Re-digging of pits 45x45x45 cms Re-digging of pits 30x30x30 cms Filling of pits 45x45x45 cms Filling of pits 30x30x30 cms Planting of P.bags plants Planting of naked root plants Carriage of polythene bags plants over a distance of 2 Kms	M/days ch, 2009 ber, 2010 tal 3rd yea MORTAL 60 Nos. 90 Nos. 90 Nos. 90 Nos. 60 Nos. 90 Nos. 90 Nos.	Total:- Total:- Total:- Total:- Total:- Total:- Total:- Or Say :- ITY 318.22% 159.07% 182.31% 127.22% 145.49% 122.66% 145.39% 23.49% 8 & 6 per plant	22164.39 2216.44 24380.83 2438.08

2	Moisture conservation works	L.S.	L.S.	700.00
3	Watering to plants by A/Pipe throughout the month by 1 mazdoor from 15 th May to 15 th September.	124 M/days	150/- Per day	18600.00
*	from 13 May to 13 September.		Total:-	21964.39
	Added 10% on account of increase on wage rate from Man	ch, 2009		2196.44
(Chanh	Added 10 70 on account of mercase on wags two states		Total:-	24160.83
er er	Added 10% on account of increase on wage rate from Octo	ober, 2010.		2416.08
			Total;-	26576.91
	Tribal Area Increase @ 25 %			6644.23
	G.To	tal 4th year	r maintenance:-	33221.14
			Or Say :-	33230.00
	5 th YEAR MAINTENANCE 10% I	MORTALI		
	Re-digging of pits 45x45x45 cms	60 Nos.	318.22%	190.93
	Re-digging of pits 30x30x30 cms	90 Nos.	159.07%	143.16
	Filling of pits 45x45x45 cms	60 Nos.	182.31%	109.39
	Filling of pits 30x30x30 cms	90 Nos.	127.22%	114.50
,	Planting of P.bags plants	90 Nos.	145.49%	130.94
,	Planting of naked root plants	60 Nos.	122.66%	73.59
,	Carriage of P.bags plants over a distance of 2 Kms uphill.	90 Nos.	145.39%	261.7
K	Carriage of N/root plants over a distance of 2Km uphill.	60 Nos.	23.49%	28.18
9	Nursery cost of plants	150 Nos.	8 & 6 per plant	1080.00
10	Repair of fence	200 rmt.	1.16 rmt.	232.00
11	Repair of inspection path	L.S.	L.S.	300.00
12	Moisture conservation works	L.S.	L.S.	500.00
13	Watering to plants by A/Pipe throughout the month by 1 mazdoor from 15 th May to 15 th September.	124 M/days	150/- Per day	18600.0
	Holli 13 May to 13 September.		Total:-	21764.3
	Added 10% on account of increase on wage rate from Ma	rch, 2009		2176.4
	Added 1070 on account 1		Total:-	23940.8
	Added 10% on account of increase on wage rate from Oc	tober, 2010).	2394.0
	74444		Total;-	26334.9
	Tribal Area Increase @ 25 %			6583.7
	G.T	otal 5th ye	ar maintenance:-	32918.6
-			Or Say :-	32920.0

Divisional Forest Officer, Kinnaur Forest Division, at Rekong Peo, KNR. Abstract of Compensatory afforestation on degraded forest land over 36.00 hec area in lieu of diversion of 17.6857 hectare of forest land in favour of Himachal Pradesh Power Corporation Limited (HPSEB) for construction of 130MW Integarted Kashang Stage-II & III HEP in Moorang & Kalpa Range, Kinnaur Forest Division, District Kinnaur (H.P.)

Sr. No.	Particulars	Total Area in hectare	Rate (in Rs.) per hec.	Amount in Rs.
1	2	3	4	5
1	New Plantation.	36.00	90870	3271320
2	1st year Maintenance	36.00	41900	1508400
3	2nd year Maintenance	36.00	36770	1323720
4	3rd year Maintenance	36.00	33530	1207080
5	4th year Maintenance	36.00	33230	1196280
6	5th Year Maintenance	36.00	32920	1185120
E T			Total:-	9691920
11	Contigencies(5% of Total Cost)			484596
			Total:-	10176516
12	Departmental Charges @ 17.5 %			1780890
			G. Total:-	11957406

Divisional Forest Officer, Kinnaur Forest Division, at Rekong Peo, KNR. Calculation of Net Present Value(NPV) of forest land to be diverted under FCA, 1980 in favour of timachal Pradesh Power Corporation Limited for the construction of 130MW Integrated Kashng Stage-II & III HEP in Kalpa and Moorang Range in Kinnaur forest Division, Distt, Kinnaur (H.P.)

1	Area being diverted.	17.6857 Hectare
2	Total trees in the forest land to be diverted.	630 Nos.
3	Trees below III class.	432 Nos.
4	Trees III class and above.	198 Nos.
5	Conversion of below III class trees into III class and above trees by taking 2 trees of below III class as one tree of higher class.	432 trees below IIIrd class= 216 trees IIIrd class and above.
6.	Therefore total trees upto III class and above.	414 Nos.
7.	In 176857 Sqm. land number of trees.	# 414 Nos.
8.	Number of trees per hac.	23 trees.
9.	If 400 trees III class and above per hac, then density	100%
	If 23 trees III class and above per hac, then density	5.85 %
11.	Rates applicable for Dense Forest of Eco-Value class VI as per Order dated 28-3-2008 passed by Hon'ble Supreme Court of India in WP(Civil) 202 of 1995.	897000 /=
12.	For one hectare land NPV chargeable as per Order dated 28-3-2008 passed by Hon'ble Supreme Court of India in WP(Civil) 202 of	897000 /=per hac.
13.	For 17.6857 hectare forest land NPV chargeable.	17.6857 X 897000
	NPV amount in Rupees=	15864073 /=

Divisional Forest Officer, Kinnaur Forest Division, at Rekong Peo.

Name of Name of Name of Name of Area Area in	Annual Pl antation Brochuce	the Year 2016-17 in respect of Kinnaur Forest Division at Reckong Peo.		
Head Sub- Head Block Beat hee.	9 10 111 12 12 10 114 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S cies/plants planted Cies/plants planted S cies/plants planted	22 23 24 25 26 27 28 29	Tot Expendent State St

				ual Plant	Name of	Area in	he Year 20	17-18 in re	spect of K	innaur Fe	rest Divi	ion						drug opin		415			4/8/55					-21-		31	7,500
Budget Head Head	VSub- Nan Rai		me of lack	Beat	Area	hec.	Decodor	Jillo O	and a second	(Wannelson)	Bernell	Committee	1	Phonocy	Jane		and a	Ban	Allow.	1	#	4,	and the same of th	Birca	Schoons Aftern	Pathur	Den.	Total Plants Planted	Sowing of seets Species No. of Patichs	Surfraz y	Total Expendit incurre
2	3	27.004	LLER BALL	5	ő	7	8	9	10	il	12	13	1 1 1 1 1	16	125			10	21	22	23	25 2	6 28	29	30	31	33	34	35 36	37	38
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/	Pooh	Kanan			203	2.0		0	350	- 0	100000000000000000000000000000000000000)		0		1850		0	0	- 0	0	01	0 0	0		0 0	2200	0 0	8176	7
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restation			10000	10000	area and	0.000	3,550								F-10-1		No.	(D) (1) (E)										1			1
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/	B/Nagar	B/Nagar	B/ Kam		Chhota	6	<i>)</i> 2700	0	0	0	0	1000	100	1300			100	100	9	0	9	0	9	9 6	0			6600		80%	
/	Kilba	Sangla	Seringci		echa	5	1000	0	0	9	0	3000	0	0		13	00	0	9	0	9	9	0	9	6		4.15	5500		85%	-
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hment K	ilba []	Karchham	Sapni	C-14		34	2400	0	0	0	0	0	0	- 0	0	/	U	9	10	· ·	<u> </u>	9						1600		36%	
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	Total En		100-	15.00	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	15	10400	0	0	ol l	0	o o	0	0	0	1600	0	0	0	0	0	0	0	0			0	12000	. 0 0	9	
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Detail of Utilization of CA Fund deposited against Integrated Kashang HEP Stage-(II &III) area measuring 17.6857 ha. with Proposal No9-HPC 366/09-CHA dated 14.06.2011

SN	Circle	Division	Range	Block	Beat	Name of Land	Area of impleme	Area propos	Year of CA Implement		Species wis	e plantation	carried out	at various	sites and % S	iurvival Rate		Made in(Rs)
						Bank	ntation (Ha.)	ed for CA (Ha.)	ation.	Deodar	Chilgoza	Alanthus	Bhemi	Chuli	Rubinia	Total	Survival rate	
1	Rampur	Kinnaur	Moorang	Jangi	Jangi	UF -	10	35. ha.	2016-17	1750	4000	50	2200	2500	500	11000	78%	9,31,000
1	Kampui	Kiiiiaui	Moorang	Jangi	Lippa	Jangi C-215	10		2016-17	500	1000	800	3500	2200	3000	11000	80%	93,1,000
2				Jangi	Lippa	UF	10		2016-17	0	0	2100	300	1800	6800	11000	82%	7,72000
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5										(2750)	(7750)		(250)	(230)		000)	Total	30,96,400
3	Rest of the	e amount wa	s utilized for	the main	ntenance of	f CA area me	easuring 36 h	a. includin	g .Expenditure	made as per	Sr. No. 5 abo	ve						A STATE OF

Note: Funds deposited Against CA in respect of Integrated Kashang HEP Stage II &III (area measuring 17.6857 ha. with Proposal No9-HPC 366/09-CHA dated 14.06.2011) amounting to Rs 1, 19, 57,406/- has fully utilized

Deputy Conservator of Forest, Kinnaur Forest Division, At ReckongPeo.



Himachal Pradesh Power Corporation Limited

(A State Government Undertaking) Integrated Kashang, HEP, Reckong-Peo Distt. Kinnaur (HP).

Phone/Fax No.: 01786-22200 1/2:23992

Email address : gmikhep@gmail.com Regd.office : Himfed Building, BCS, New Shimla(HP)-171009

No. HPPCL/IKHEP/K-I (Vol-XVI)/2016 17711 1574 8代11.60 Dated:- 25-103-2017 or from some Bakushing Responses that a

TO

remain caultige The Divisional Forest Officer, Kinnaur at Reckong Peo,

District Kinnaur (H.P)

Sub:-

Handing over the unutilized ferests land diverted against Integrated Kashang HEP Stage-II & III thereof.

In the subject cited matter it is intimated that forest land measuring Carlotte Hart Land Sir. 17.6857 hact, was diverted to HPPCL vide MOEF, GOI office letter No. SHPC366/09-CHA dated 14-00-2011 for the construction of integrated Kashang HEP stage -- II & III.

Since, the construction activities of IKHEP stage-I & III from village Pangi side are almost completed (except the Balanoing Reservoir-III) and some of the land diverted against stage-II& III-has also remain unutilized and hence declared surplus and the status-co of the land is maintained. The details of such land areas are as under;

	atus-co of the land is mainta	Khasra No.	Area (Ha)	Location
N.	Purpose	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2-65-03	Telangi
	diverted Material stacking yard	685/629	0-49-36	Ragura
	Material Stacking /	483/1	A Comment of the Comm	A Section of the second
•	Vachang bridge, NH-22	629/587/44/1,	0-39-05 0-22-26	Ragura
),	Durnping Area on intake road to Pangi	629/587/469/2, 629/587/469/3	0-22-20	
		7/460/4	0-30-00	Ragura
4.	Job facility at old HT road (near) Intermediate Pressure Shaft		4,2105	Forest Clearar

Keeping in view of the condition no. 14 of the final Forest Clearance accorded in respect of IKHEP stage-II & III the land which was not utilized/ required shall be surrendered to the State Forest Department with intimation to the Ministry of Environment and Forests.

In view of the above stated facts the aforesaid tabulated land is hereby surrendered / returned back to the State Forest Department, Distt. Kinnaur, H.P. Acceptance in this regard may please be intimated to this office at the earliest.

This is for your information and further necessary action please.

tallered, Backett

Yours faithfully,

Course to hoth the tages that of

Integrated Kashang HEP HPPCL, Reckong-Peo.

Copy to:-

1. The Asstt. Inspector General of Forests (FO Division), MOEF, GOI, Indira Paryavaran Bhawan, Jorbagh Road, New Delhi-7-10003. for kind information please.

Chille Pedalismo.

2. The Managing Director, HPPCL, Himfed Building, BCS, New Shimla, 171009 for H. Phys. 175.

information kind please.

3. The Director (Civil), HPPCL, Himfed Building, BCS, New Shimla, 171009 for kind information please.

4. The Chief Environment Specialist, HPPCL, Himfed Building, BCS, New Shimla, 171009 for

kind information please.

5. The Dy. Commissioner, District- Kinnaur at Reckong Peo, for information please.

6. The Addl. Distt. Magistrate- Pooh, Tehsil- Pooh, Distt.- Kinnaur, for information please.

7. The Sub Divisional Magistrate, Kalpa at Reckong Peo, Distt. Kinnaur, for information

8. The Environmental Engineer, HP State Pollution Control Board at Rampur, Distt. Shimla for

9. The Tehsildar-Kalpa, Tehsil- Kalpa, Distt. Kinnaur, Information and necessary action please

10. The Pradhan, Gram Panchayat- Telangi, PO Telangi, Tehsil Kalpa, Distt.- Kinnaur for 11. The Pradhan, Gram Panchayat- Pangi, PO Pangi, Tehsil Kalpa, Distt.- Kinnaur for

information please.



6-82/2021 WL Government of India Ministry of Environment, Forest and Climate Change Wildlife Division

1st Floor, Agni Wing, Indira Paryavaran Bhawan, Jor Bagh Road, Aligani, New Delhi - 110003.

Date: 25th November 2021

To Chief Wild Life Wardens All States/UTs

Sub: Cost of mitigation measures due to impact of developmental activities in National Parks, Sanctuaries, their Eco-Sensitive Zones, Tiger Reserves and Tiger Corridors - reg.

Sir.

The Standing Committee of the National Board for Wild Life, in its 65th meeting held on 24th September 2021, discussed issues relating to mitigation measures that are required to be undertaken to reduce the impact of activities inside National Parks, Sanctuaries, Eco-Sensitive Zones, Tiger Reserves and tiger corridors. The Committee observed that the cost imposed on user agencies for implementing mitigation measures is often not based on the impact of the activities proposed in the project. The Committee also observed that instead of imposing a uniform cost on all projects, it would be more appropriate if mitigation measures are suggested by the Chief Wild Life Wardens for each project.

The Committee, therefore, decided that measures to mitigate the impact of projects should be part of project proposals. The Committee further decided that instead of imposing a fixed cost, mitigation measures and costs associated with such measures should be prescribed while recommending project proposals.

In view of the above, it is requested that project proposals submitted to the Standing Committee for its consideration should be accompanied with details of mitigation measures. It is further requested that instead of imposing a fixed cost on the user agency, the Chief Wild Life Wardens should mention the estimated cost of implementing the proposed mitigation measures.

Yours faithfully,

(Rakesh Kumar Jagenia) Deputy Inspector General of Forests (Wildlife) Email – digwl-mefcc@gov.in

Copy to: PPS to IGF (WL), MoEFCC, New Delhi

Signed by Rakesh Kumar Jagenia Date: 25-11-202 19:45:02 Reason: Approved

1	N:	ame of CA	r Plan		Integrate	HEP	N.9	
	(Cost of CA	r Plan		3	05060000		
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	The day of the property of	Kinnaur	Units	Phy	Fin	(In Rupees	(In Rupees)	
1	Afforestation Measure	4.		1.				
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b	Normal Plantation (Irrigated)						0	
	Normal Plantation (Non-Irrigated				•		6910390	
С	Enrichment (Irrigated)						0	
man a	Enrichment (Non-Irrigated)						1889438	
d .	Conservation and developmet of Chilgoza pine					i i	. 0	
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2	Soil and water conservation endeavors						72218150	
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b	Nalla Treatment		-				3480000	
С	River Bank Stablization				<u> </u>		2310000	
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Integrated Washeng HEP.
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	G. Total:	Section 1					

Note: Rs. 3060905/-has been booked up to 31-03-2006 and after 01-04-2006to 31-03-2023 expendture made Rs. 124212375/- and hence total expendture up 31-03-2023 Rs. 127273280/-Balance as on 01-04-2023 Rs. 1772886720/-

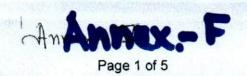
Dy. General Haway of Cive)

Integrated Kashang HEP. HPPCL, Reckong Peo.

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



Environment Management Plan for Integrated Kashang HEP



CHAPTER - 4

GREEN BELT DEVELOPMENT PLAN

4.1 INTRODUCTION

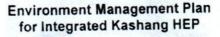
In order to mitigate and minimize the environmental impacts arising due to construction of project from air pollution, noise pollution, soil erosion etc. the Greenbelt development around the project sites can provide the best solution. The green canopy not only absorbs some of these pollutants but also improves the aesthetic environment. Therefore, a "Green Belt Development Plan" has been proposed around the project area in general and along the project components in particular by using the local flora.

4.2 DEVELOPMENT OF GREENBELT

The green belt is proposed to be developed within the project area along the network of approach roads, residential areas, office complex, trench weir sites, power house site and other working areas. The strategy worked out for development of green belt consists of following:

- Broad leaf trees growing above 10 m in height should be planted along the approach roads and colonies
- Plantation of trees should be undertaken in appropriate encircling rows.
- Generally local/indigenous fast growing trees shrubs should be planted.
- The trees should be protected by plantation of non palatable shrub species to avoid browsing by animals.
- Placement of Bamboo/Iron tree guards be provided to save the plants

The schematic arrangement of greenbelt plantation proposed along the roads and Office/Colony is presented in Figure 4.1. It is proposed that dense plantation in degraded forest land around the periphery of trench weir, power house and MAT will be taken up besides road side plantation along approach / haul roads. In areas wherever the private land falls along the periphery of the project area the plantation will be done by distributing saplings to villagers, if they are keen to take up plantation in their land.





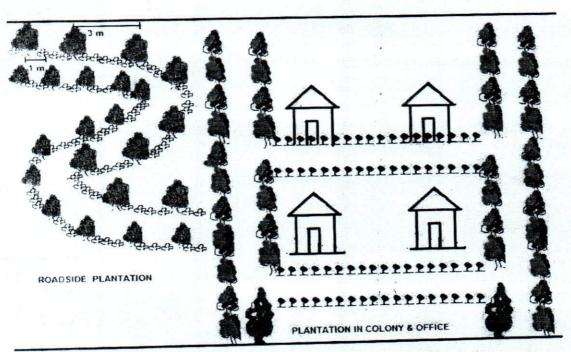


Figure 4.1: Schematic Arrangement of Greenbelt Plantation

4.3 GUIDELINES AND TECHNIQUES FOR GREEN BELT DEVELOPMENT

Extensive survey in the project area was undertaken to observe the vegetation types and its density. The soil characteristics were also kept in mind. Based on this survey and environmental conditions suitable plants species have been proposed for green belt development plan. To meet the requirement of plants sapling for development of green belt, a nursery is a pre-requisite and calls for following considerations:

4.3.1 Size of Nursery

The size of nursery depends upon the number and type of seedlings to be produced. To produce 1,80,000 plants a nursery of about 2.0 ha area would be required.

4.3.2 Nursery Site Selection

A well-drained site near the areas where plantation is to be carried out is always preferred. Light shading site for the nursery is important for the protection of the young seedlings against sun, frost, hailstorms or heavy rains. Sites, which are prone to water logging, should not be selected and sites shall be selected in consultation with Forest Department preferably near the existing one. Modernization of existing nursery may also be explored. In the present case the modernization of forest nursery at Pangi (0.55 ha), Lippa (0.75 ha) and at Akpa (0.65 ha) is proposed to meet and the demand of 1,80,000 trees under the green belt development plan.

Environment Management Plan for Integrated Kashang HEP

4.3.3 Transportation

The nursery should be readily accessible all the year round in order to facilitate transportation of materials required in the nursery and dispatch of seedlings from the nursery.

4.3.4 Fertilizer Application

The organic fertilizer produced through domestic organic waste coupled with vermin compost can be utilized for the nursery. Farmyard manure (FYM) can also be used but chemical fertilizer should be avoided. The compost/vermin compost is proposed to be developed through solid waste management.

4.3.5 Soil and Soil Fertility

The best site for raising the nursery is the area, which has got a thick layer of humus. The fertile and well-drained soil with sandy loam to loamy texture, pH varying from 5.5-7.5 should always be preferred for nursery sites.

4.3.6 Water Supply and Drainage

The site should have perennial water supply. The drainage of soil has important bearing on the health of seedlings.

4.3.7 Species to be Planted

A list of indigenous trees found suitable after identification of species for raising in the nursery and for development of green belt around the project area is given in Table 4.1.

Table 4.1: Suggested Plant Species for Green Belt Development

Botanical Name	Local Name						
Alnus nitida	Kosh, Kunish, Nyun						
Betula utilis	Bhoipatra, Pad						
Cedrus deodara	Kelo, Diar, Kialmang						
Cupressus torulosa	Devidiar						
Juniperus macropoda	Guggal, Dhup, Shur						
Pinus gerardiana	Neoza, Chilagoza, Ri						
Prunus armeniaca	Chuli, Chul						
	Akhrot						
Juglans regia	Krun, Birdcherry						
Prunus cornuta Pinus wallichiana	Kail						
	Thum						
Fraxinus xanthoxyloides	Kramal						
Populus ciliata	Shon						
Salix alba							

Beside, the above tree species, the shrub species identified for plantations are; Cotoneaster bacillaris, Colutea nepalensis, Elaeagnus umbellata, Spiraea canescens and Rosa webbiana.

Chapter-4: Green Belt Development Plan



Environment Management Plan for Integrated Kashang HEP

4.3.8 Precautions during Plantation

Some important precautions should be taken during the plantation, which are as under:

- Open grazing is practiced in general in the area; therefore, protection should be provided in advance.
- Polyculture should be practiced. Mixture by group should be preferred over intimate mixture.
- Species mentioned should be planted in sufficient numbers so as to increase their population size in the area.
- Multipurpose species should be planted in large numbers, so as to provide direct benefit to people living around.

4.4 GREEN BELT DEVELOPMENT

In order to raise the green belt around project areas, trench weir sites and other components the total requirement of different species of plants will be about 1,80,000 saplings. Since the green belt is to be created over a period of five years the maintenance for a period of five years of nursery and plantation works will be required. The beating up of mortality may be done with the plant stocks proposed to be generated in the nursery over the complete duration of the plan.

4.4.1 Road Side Plantation

Cost of the plantation has been calculated as per the existing schedule of rate, material cost (plants, FYM, tree guard, etc.) and the total area of treatment. One row each for tree, shrub and bio-fencing has been proposed with a spacing of 3 m x 3 m for trees and 2 m x 2 m for shrubs (to take care of the mortality in the next season). The pit size has been recommended as 45 x 45 x 45 cm for trees and 30 x 30 x 30 cm for shrubs. The cost of pit digging and filling is estimated at Rs. 10 per pit. Input of FYM @ 2 kg/pit has been suggested costing around Rs.5/pit. Cost of plantation including transport has been estimated at Rs. 10/plant making the total cost of planting one tree as Rs. 25. For the protection of trees from the cattle and other losses, thorny bushes guards are required. Along the approach roads of about 38.8 km length plantation will be done on both sides wherever feasible, as such plantation of about 65000 saplings will be done. Plantation along roads must take into account visibility aspects on curves so as to ensure safe driving.

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Environment Management Plan for Integrated Kashang HEP

4.4.2 Green Belt Around Trench Weir Site / Power House

Plantation at the intake sites and powerhouse sites for about 6 ha has been proposed for control of erosion and siltation of the stream and aesthetic importance. The total cost for planting in 6 ha area @ Rs. 88,125 / ha including establishment charges works out to be Rs. 5.5 lacs.

4.4.3 Green Belt Around Residential Area and Office Complex

Plantation around the office complexes is proposed to be done so that greenery is developed. Precaution should be exercised by not planting large size trees around buildings and other similar structures as during winter the sun rays are obstructed by them invariably and much wanted sunshine is impaired. Besides this, it is also proposed to develop green belt around the working areas for trapping the dust and noise. Plantation of avenue, ornamental and fruit trees is proposed in these areas along with the area around office complex. The ornamental, fruit plants will be procured from the local market while the avenue plants will be raised in the project nursery. For providing green belt around residential areas and office complex a provision of Rs. 119.23 lakh has already been made under head M-Plantation in the DPR and it is proposed to plant 1,15,000 trees under the sub head.

4.5 COST ESTIMATE OF GREEN BELT DEVELOPMENT

Table 4.2 Summary of Cost for Green Belt Development

SI. No.	Component	Cost (in Lacs)
1.	Modernization of 3 No. existing nursery @ Rs. 3.0 lac each	9.0
2.	Maintenance of nursery @ 0.40 lacs/each year for 5 years	6.0
3.	Cost of planting of saplings around trench weir site, power house and site for 6 ha @ Rs. 88125/ha	5.29
4.	Maintenance cost for 4 years - 2 chowkidars @ Rs. 3000/- per	2.88
5.	Thorny brush wood protection guard for 65000 saplings along road side @ 7.20/No.	4.68
6.	Live hedge fencing in 38.8 km length of approach road on either side @ Rs. 10.89 / RM	8.45
7.	Cost of planting 65000 saplings along road side @ Rs. 25/- each	16.25
		2.00
8.	Contingency	54.55

Say Rs. 55.00 lacs.

Chapter-4: Green Belt Development Plan



MINUTES OF THE 1st MEETING OF THE EXPERT APPRAISAL COMMITTEE FOR RIVER VALLEY AND HYDROELECTRIC PROJECTS HELD ON 17TH - 18th OCTOBER, 2023 FROM 10:30 AM - 05:30 PM BY HYBRID MODE (PHYSICAL-INDUS HALL, MoEF&CC AND ONLINE).

The 1st meeting (hybrid mode) of the re-constituted EAC for River Valley & Hydroelectric Projects organized by the Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi, was held on 17th - 18th October, 2023, under the Chairmanship of Prof. G. J. Chakrapani. After initial introduction of all, the committee deliberated on the various issues and challenges for sustainable development of hydroelectric and river valley projects and expressed their absolute commitment, cooperation and team work for the EAC. The list of Members present in the meeting is shown in the **Annexure**.

Agenda Item No. 1.1: Confirmation of Minutes of 51st EAC meeting

The EAC confirmed the minutes of 51st EAC meeting held on 12th September, 2023.

Agenda Item No. 1.2

Vijayanagar Pump Storage Project (130 MW) in an area of 127,54 ha at Village Kurekuppa, Sub District Sandur, District Ballari, Karnataka by M/s JSW Energy PSP Two Limited – Environmental Clearance (EC) – reg.

[Proposal No. IA/KA/RIV/444768/2023; F. No. J-12011/05/2022-IA.I (R)]

- 1.2.1: The proposal is for grant of Environmental Clearance (EC) to the project for Vijayanagar Pump Storage Project (130 MW) in an area of 127.54 ha at Village Kurekuppa, Sub District Sandur, District Ballari, Karnataka by M/s JSW Energy PSP Two Limited.
- 1.2.2: The Project Proponent and the accredited Consultant M/s EQMS Global Pvt. Ltd., made a detailed presentation on the salient features of the project and informed that:
 - The proposed Vijayanagar Pumped Storage Project is a self-identified, green field project by the JSW Renewable Energy (Vijayanagar) Ltd., a subsidiary of JSW Energy Limited, for captive use in JSW Steel Plant.
 - ii. The project has been conceived as an off-stream closed loop pumped storage project of installed capacity 130 MW/845 MWH pumped storage component with twin cycle consisting of hydropower generation during morning and evening peaks by pumping twice during 24-hour period. The project shall be located in Vidya Nagar area of JSW Steel Plant, Taluka Sandur, District Bellary, Karnataka.
- iii. The project with an installed capacity of 130 MW by utilizing a design discharge of 108.01 cumees with rated net head of 136.32 m for two daily cycles of peaking (4.0 hours in the morning and 6.50 hours in evening/night)

25	Expert required for study of impact on ecology, including fisheries, biodiversity of riverine ecosystem.	ICAR-DCFR a premier organization working in area of cold-water fisheries and ecology, resource assessment and aquaculture. Institute has completed number of impact assessment studies on HEPs including CIA & CC study of Sutlej basin and has enough expertise for study of impact on ecology, including fisheries, biodiversity of riverine ecosystem. As Fish migration through different tags electronic/sensors is critical behaviour in determining the spawning ground, ICAR-CIFRI expertise may be consulted in this regard.
28	Impacts on fisheries due to fluctuations in Water Level, HEP components (hydraulic turbines, Spillways, penstock etc).	General recommendations on impacts on fisheries will be given based on the available data on the fluctuations in water level.

The EAC during the present meeting deliberated on the modifications of modification of some additional TOR for conducting Cumulative Impact Assessment and Carrying Capacity Study (CIA & CCS) of Yamuna River Basin in Himachal Pradesh by Indian Council of Forestry Research and Education (ICFRE), finalised during 41st EAC meeting held on 15.02.2023.

The EAC after detailed deliberations was of the view that the all additional points finalized by the earlier EAC is justified and well deliberated and essential for comprehensive assessment of carrying capacity and cumulative impacts of the anthropogenic proposed/ongoing activities in the river basin. EAC member emphasised on Habitat Simulation or Micro-Habitat Modeling Methodologies for biological sustainability of aquatic ecosystem study and E-flow assessment on the basis of Velocity/Depth & cross section, Drone Based aerial survey in the CIA&CC of River basin. ICFRE needs to expand their resources to carry out said study in appropriate manner. The Committee members also desired to expedite the collection of Primary and Secondary base line data and regular perusing with concerned department. The EAC also suggested the Committee constituted by the Ministry to examine the other aspect of the study like increased expenditure on study through drone survey, fresh collection of baseline data for Uttarakhand etc. in consultation with ICFRE for timely completion of the study.

Item No.- 1.10:

Cumulative Impact Assessment and Carrying Capacity Study (CIA & CCS) of Sutlej River Basin Study in Himachal Pradesh by Indian Council of Forestry Research and Education (ICFRE), Dehradun - Reconsideration of Study Report - reg.

The Indian Council of Forestry Research and Education (ICFRE), Dehradun along with its partner institutions viz. Alternate Hydro Energy Center (AHEC/HRED), Indian Institute of Technology

(IIT), Roorkee; ICAR Directorate of Coldwater Fisheries (DCFR), Bhimtal and Salim Ali Centre for Ornithology and Natural History (SACON), Coimbatore, made a presentation before the EAC (River Valley and Hydroelectric Projects) on the draft report on "Cumulative Environmental Impact Assessment (CEIA) & Carrying Capacity Study (CCS) of hydroelectric projects in Sutlej river basin in Himachal Pradesh".

The ICFRE, Dehradun informed that:

- The CIA&CCS report for Sutlej River Basin for 38 HEPs (>10 MW), Himachal Pradesh part presented before EAC (RV&HEP) of MoEF&CC during its 91st meeting held on 08.02.2016.
- During 91st EAC meeting it was suggested to include all HEPs including less than 10MW in ClA&CCS study; including Luhri project (775 MW) to be studied as Luhri stage I (210MW), stage II (170MW) & stage III (355MW).
- iii. Study Report including <10 MW HEPs submitted to MoEF&CC in November. 2018 & presented before EAC (RV&HEP) of MoEF&CC, New Delhi during its 21st meeting held on 28.01.2019.
- iv. The suggestions made by the EAC during its 21st meeting on the study report were compiled and incorporated in the corrected study report which was presented before EAC (RVHEP) during its 29th meeting held on 05.12.2019.
- v. The recommendations of the study report were further corrected during the 30th EAC meeting held on 27.01.2020. Accordingly, the ICFRE, Dehradun has incorporated the corrections/ modifications in the final draft report on Cumulative Environmental Impact Assessment (CEIA) & Carrying Capacity Study (CCS) of Hydroelectric projects in Sutlej River Basin in Himachal Pradesh and submitted vide letter dated 10.06.2020 to MOEF&CC.
- vi. During examination of the report in the Ministry certain factual errors were observed and the same was communicated to ICFRE vide letter dated 26.10.2021.
- vii. The corrected final draft report on Cumulative Environmental Impact Assessment (CEIA) & Carrying Capacity Study (CCS) & Carrying Capacity Study (CCS) of Hydroelectric projects in Sutlej River Basin in Himachal Pradesh was submitted by the ICFRE vide letter dated 16.11.2021 to the MOEF&CC.
- & Carrying Capacity Study (CCS) of Hydroelectric projects in Sutlej River Basin in Himachal Pradesh was deliberated in 41st EAC meeting (15.02.2023). The EAC after detailed deliberations was of the view that the issues of Govt. of Himachal Pradesh related to report on Cumulative Environment Impact Assessment (CIA&CCS) Sutlej River Basin in Himachal Pradesh needs to be discussed by Government of Himachal Pradesh expeditiously with ICFRE, Dehradun on priority basis so that the same can be addressed before finalisation of the study report. The ICFRE may modified the report accordingly and submit for further deliberations by the EAC.
- ix. Accordingly, meeting of officials from DoE, GoHP, Shimla, SJVNL, NTPC, HPPCL held on 02.08.2023 at DHRE, IIT, Roorkee to discuss w.r.t recommendations of CIA & CCS of Sutlej River in Himachal Pradesh made in the 41st EAC meeting held on15.02.2023. During discussion with officials from Govt of Himachal Pradesh most of the issues were settled.

The EAC during the present meeting deliberated on recommendations of CIA & CCS of Sutlej River in Himachal Pradesh made in the minutes of the 41st EAC meeting (15.02.2023). During the meeting Govt of Himachal Pradesh officials were also present.

The EAC after detailed deliberation found that the corrected final draft report on "Cumulative Environmental Impact Assessment (CEIA) & Carrying Capacity Study (CCS) of Sutlej River Basin in Himachal Pradesh is in order and as per the TOR given by the Ministry. Accordingly, the EAC recommended the study report for acceptance by the Ministry.

Item No.- 1.11: Cumulative Impact Assessment and Carrying Capacity Study (CIA & CCS) of Tirap Basin. Inclusion of Chinglum Hydroelectric Project in Subansiri Basin -Conducting study - Reg.

The officials from Government of Arunachal Pradesh did not attend the meeting; hence EAC decided to defer the proposal.

Item No.- 1.12

Proposal for conducting Cumulative Impact Assessment (CIA) & Carrying Capacity Study (CCS) of Ravi River Basin in Himachal Pradesh -Consideration of proposal - Reg.

The Member Secretary, EAC (RV&HEP), MoEF&CC informed that:

- MOEF&CC vide letter dated 05.02.2015 written to Chief Secretary, Govt of Himachal Pradesh to hand over all records related to Carrying Capacity and CIA studies of River Basins in Himachal Pradesh.
- Centre for Inter-disciplinary Studies of Mountain & Hill Environment (CISMHE), University of Delhi and WAPCOS were requested by MOEF&CC vide letter dated 03.02.2016 for preparing draft ToRs and submit to this Ministry.
- The CISMHE, University of Delhi submitted draft TOR for conducting CIA&CCS study of Ravi River Basin in Himachal Pradesh.
- The Centre for Interdisciplinary Studies of Mountain & Hill Environment (CISMHE) University of Delhi, made a presentation before the 1st EAC (River Valley and iv. Hydroelectric Projects) on the TOR proposal for conducting CIA&CC study of Ravi River Basin in Himachal Pradesh.
- The CISMHE, Delhi University during discussion informed that they have prepared draft ٧. TOR covering following aspects:
 - a) Characteristics of Ravi Basin
 - b) Scope of Work
 - c) Approach and Methodology
 - d) Outcome of the Study
 - e) Organizational Set up and Staffing
 - f) Scheduled Work Plan

The EAC during the present meeting deliberated on the TOR proposal for conducting CIA&CCS study of Ravi River Basin in Himachal Pradesh presented by CISMHE, Delhi University.