CHECK LIST NO- 16

Full Title of Project: - Construction of Small Hydel Project Kandha (0.40 MW).

File No

:-FP/HP/HYD/148892/2021

LOCATION MAP

Location Map of Non Forest / Degraded Forest land identified for Compensatory Afforestation in 1.48 ha in lieu of proposal for diversion of 0.74 hac. of forest land for construction of Small Hydel Project Kandha (0.40 MW) under Pangna Forest Range, Karsog Forest Division as under:

Type of land

: Degraded Forest Land Name of Muhal

: Kot-Kapadyas

Tehsil

: Karsog

District

: Mandi

Forest Range

: Pangna

Forest Division

: Karsog

Block No. / Compartment/No. / Survey No. : H43F3

Area proposed for planting .: 1.48 ha. .

Map attached of the area to be taken for compensatory afforestation

Divisional Forest Officer, Karsog Forest Division, HP.

CHECK LIST NO. 17

Full Title of Project: - Construction of Small Hydel Project Kandha (0.40 MW).

File No

:-FP/HP/HYD/148892/2021

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation to be carried-out in lieu of 0.74 ha. forest area to be diverted for construction of Small Hydel Project Kandha (0.40MW), in Tehsil Karsog, Distt. Mandi, HP in jurisdiction of Karsog Forest Division in Distt. Mandi HP is given as under:-

Detail of degraded forest land/ non-forest land:-

Distt.:- Mandi

Village:-Kapadyas

Tehsil Karsog,

Distt. Mandi, HP

Name of Forest Division:-Karsog Forest Division

Name of Range: Pangna

Type of forest land proposed for CA:- Degraded forest land

Name of planting area:- D-76 Kapadyas (Patch No. 6)

Block/ Compartment/ Survey No.:- H43F3

Area proposed for CA:- 1.48 ha.

Description of area

- Whether the site selected for compensatory Afforestation is a land bank or not: No, (Degraded forest land).
- II) If CA site is other than the land bank, reasons be given: Yes (Degraded forest land)
- III) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: NA
- IV) Soil type:

Sandy loam

V) Topography:

- (a) Hilly/undulation/Plain: Hilly
- (b) Slope: Steep/ Medium/ Gentle:

Medium to Gentle

VI) Whether the area is bearing any root stock of vegetation: No tree species exist in the area expect for some bushes stuff.

3. Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/ Model showing component-wise physical and financial break-up to be enclosed.

Schedule of Plantation Programme:-

GENERAL ABSTRACT OF COMPENSATORY AFFORESTATION AN AREA OF 1.48 HA. FOREST LAND IN FAVOUR OF SHRI MOHAN SINGH NEGI MANAGING DIRECTOR BHAGWATI HYDRO POWER PROJECT (OPC) PVT. LTD. VILLAGE MUMAIL PO & TEHSIL KARSOG DISTT. MANDI HP IN LIEU OF DIVERSION OF 0.74 HA. FOREST LAND FOR CONSTRUCTION OF SMALL HYDEL PROJECT AT KANDHA, WITHIN THE JURISDEICTION OF KARSOG FOREST DIVISION, DISTRICT MANDI, H.P.

	C A BILL								
Amoun	Rate after applying cost of escalation	Cost escalation	Rate per hac.	Year	Area in ha.	Particulars	Sr. No.		
177452	119900	10%	109000	2023-24	1.48	New plantation over in area of 1.48 ha. in D-76 Kapadyas forest (Patch No. 6)	1		
2965	20040	20%	16700	2024-25	1.48	1st year maintenance	2		
2154	14560	30%	11200	2025-26	1.48	2nd year			
1181	7980	40%	5700	2026-27	1.48	maintenance	3		
1265	8550	50%	5700	2027-28	1.48	3rd year maintenance	4		
1349	9120	60%	5700	2028-29	1.48	4th year maintenance	5		
1434	9690	70%	5700	2029-30	1.48	5th year maintenance	6		
1518	10260	80%	5700	2030-31	1.48	6th year maintenance	7		
1602	10830	90%	5700	2031-32	1.48	7th year maintenance	8		
1687	11400	100%	5700	2032-33	1.48	8th year maintenance	9		
1771	11970	110%	5700	2033-34	1.48	9th year maintenance 10th year	10		
34676							11		
6068	Added Departmental Charges @17.5%								
1733	Contingency Charges @5%								
42478	Grand Total								

5. Technical Details: -

- i) General Details:- Plantation will be done through Pit method as per plantation norms.
- ii) Spa cement: Pits size 90x90x90 cm will used for planting of 60% naked root stock and 40% of P/Bags stock.
- Species: Based on locality factor and demand of people.
- iv) Plantation Method: Pit planting method.
- v) Soil and Moisture Conservation Works: Contour trenching will be done over the entire area to conserve the available moisture during rainy season so that moisture regime in the area is improved. Minor Soil conservation works like gully plugging, check walls will be done wherever required.
- vi) Protection (Fencing, Watch man, People's Participation etc.): B/wire fencing using concrete fence posts.
- vii) Proposed Monitoring Mechanism: The plantation will be monitored as per existing monitoring mechanism in the forest department. The plantation will also be monitored by GOI representatives as per instructions. The plantation site will be approachable from NH 21 Shimla- Karsog road from Mahota.

viii) Any other information: -

Nil

Date: 22.02.2022

Place: Karsog

(Krishan Bhag) HPFS
Division Forest Ciffice
Raisog Forest Division

Kataog (H,P.) - 174304

PR	REST LAND 0.74 HAC. FOREST LAN ROJECT (0.40 MW) UNDER KARSOG DESH COST ANALYASIS OF PLANTA FOREST DIVISION (Per	FORES	T DIVISIO	N DISTR	ICT MANDI HIN 1 HACTORS OI	ACHAL	
1	Name of Project			Constru	uction of Small Kandha (0.40 M	ALCOHOLD COMMON TO SERVICE AND ADDRESS OF THE PERSON OF TH	
11	Name of User Agency			(OPC) F	ati Hydro Powe Pvt. Ltd. village Il Karsog, Distt.	Mumail PO	
III	Location for Compensatory Affores	tation		List atta	ached		
IV	Type of fencing			Barbad	Wire with RCC	Fence	
Sr No	Particulars of work	Total KM	Quantity	Unit	Rate in Rs.	Amount	
FEN	CING						
	Survey and demarcation of plantation area			Hac.	202		
2	Preparation/ purchase of RCC Fence post (including GST @18%)		50	Nos.	358	17900	
3	Carriage of RCC fence post up to 165cm long over distance 2 Km uphill/ downhill	2	50	Nos.	67	6700	
4	Preparation of digging of holes 20x30x50 cm size		50	Nos.	18.12	906.0	
5	Fixing of RCC fence posts including strutting			Nos.	14.32	716	
	Carriage of Barbed wire over distance 2 Km	2		Qtls.	147.25	220.9	
	Stretching and fixing Barbed Wire in 4 stands			Rmt.	9.6	5760	
	Interlacing of thorny bushes along the fence			Rmt.	8.18		
9	Cost of Barbed Wire (including GST)			Qtls.	6509	4882 38513.63	
III IV Sr No FEN	Total-A/Survey, Demarcation & Fencing						
DI	ANTING				Or Say	38500	
	Bush cutting in strips (3mx3m)		1	Hac.	2385.6	2385.60	
	2 Digging of pits 45x45x45 cm			Nos.	19.08	20988	
	3 Filling of pits 45x45xx45 cm			Nos.	5.44	5984	
	4 Carriage of plants in P/bags over distance 2 Km uphill/ downhill	2		Nos.	3.8	8360	
	5 Planting of entire plant raised in P/Bags		1100	Nos.	4.36	4796	
	6 Construction of inspection path 60 cm width.		10,250	Rmt.	22	2200.00	
	7 Cost of sign board, carriage & fixing etc.		L/S		450	450	
-	8 Nursery cost of plants		1100	Nos.	23	25300	
				Tot	al-B/Planting:-	70464	

70500	Or Say					
109000	d Total(A+B)	Grand				
				IANCE (30	1st YEAR MAINTEN	
3148.2	9.54	Nos.			Re-digging of pits 45x45x45 cm	
1795.2	5.44	Nos.	330		Filling of pits 45x45x45 cm	_
1438.8	4.36	Nos.	330		Planting of P. bag plants	3
2508	3.8	Nos.	330	2	Carriage P. Bag plants distance 2 Km uphill/ downhill	
216	3.6	Rmt.	60		Repair of fencing	5
7590	23	Nos.	330		Nursery cost of plants	6
16696.2	laintenance:	/Ist Year M	Total			
16700	Or Say					
		ATING UP)	0% BEA	NANCE (2	2nd YEAR MAINTE	
2098.8	9.54	Nos.			Re-digging of pits 45x45x45 cm	1
1196.8	5.44	Nos.	220		Filling of pits 45x45x45 cm	2
959.2	4.36	Nos.	220		Planting of P. bag plants	
1672	3.8	Nos.	220	2	Carriage P. Bag plants distance 2 Km uphill	4
216	3.6	Rmt.	60		Repair of fencing	5
5060	23	Nos.	220		Nursery cost of plants	6
11203	aintenance:	nd Year Ma	Total/2			
11200	Or Say					
		% BEATING	ICE (10	AINTENAN	3rd YEAR to 10th YEAR M	
1049.4	9.54	Nos.			Re-digging of pits 45x45x45 cm	1
598.4	5.44	Nos.	110		Filling of pits 45x45x45 cm	2
479.6	4.36	Nos.	110		Planting of P. bag plants	3
836	3.8	Nos.	110	2	Carriage P. Bag plants distance 2 Km uphill	
216	3.6	Rmt.	60		Repair of fencing	5
2530	23	Nos.	110		Nursery cost of plants	6
5709	Total					
5700	Or Say					

Divisional Forest Officer, Karsog Forest Division,HP.