

Full Title of the Project :- **Ghator Top SHEP (4.98 MW).**
File No. :- **FP/HP/HYD/156608/2022.**
Date of Proposal :- **09/06/2022.**

Check List Serial No. 17.

LOCATION MAP

Location Map of Non Forest/**Degraded Forest Area** identified for Compensatory Afforestation in lieu of proposal for diversion of **3.7463 Ha.** of forest land for the construction of **Ghator Top SHEP (4.98 MW)** in **Chamba** District.

Village	: Mangloon
Name of Proposed Plantation Area	: DPF Kuthed 07.50 Hect.
Tehsil	: Bharmour
District	: Chamba
Forest Division	: Bharmour
Forest Range	: Swai
Block No./Compartment No./Survey Sheet No.:-	52D/7/NE
Total Area	: 07.50 ha.

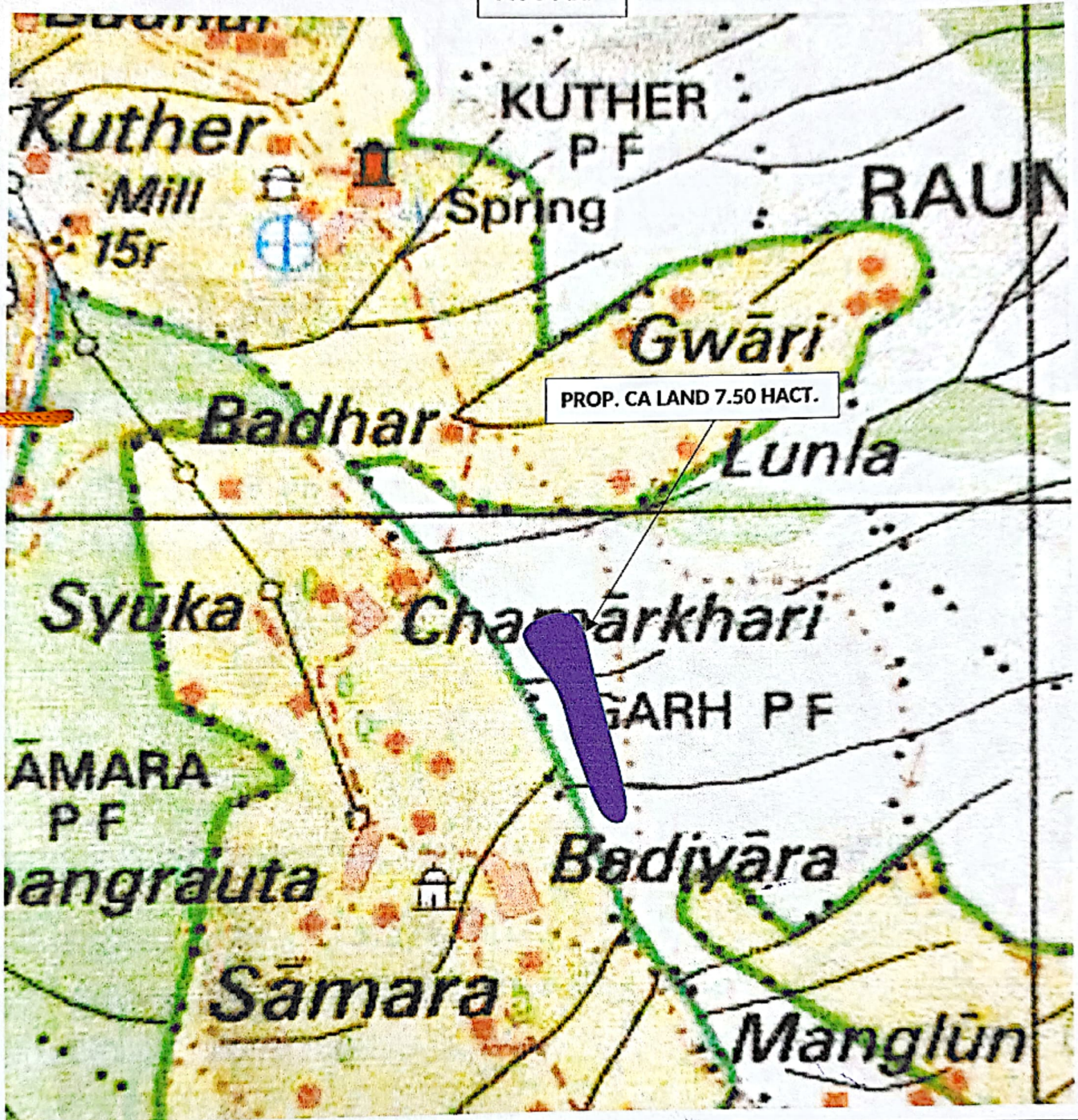
Map attached

Area to be taken for Compensatory Afforestation


Divisional Forests Officer,
Bharmour Forest Division
Bharmour

LOCATION MAP FOR CA SITE GHATOR TOP 4.98 MW (7.50 HACTARE LAND)

TOPO MAP



PROP. CA LAND 7.50 HACT.

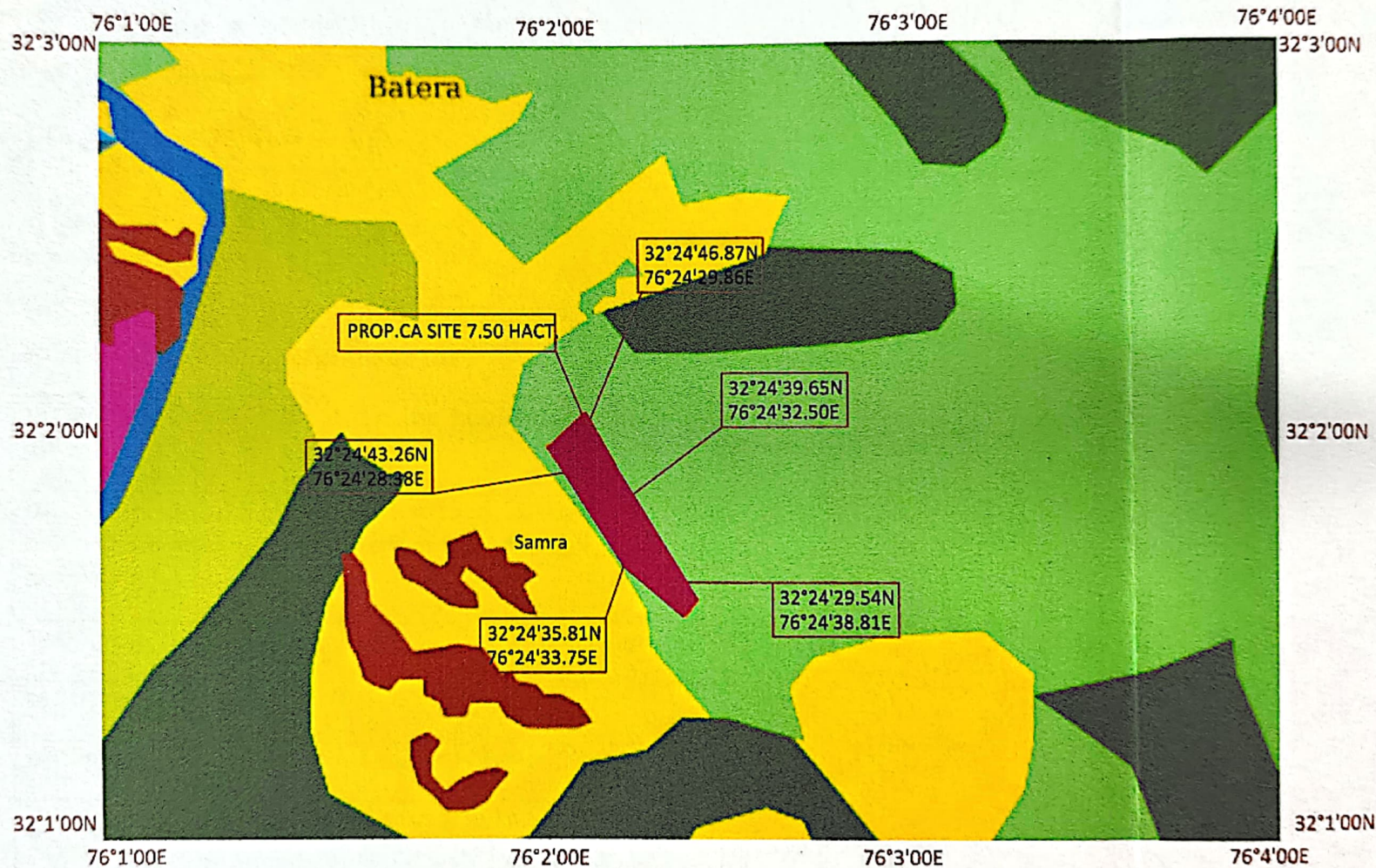


PROP.CA SITE

TOPO SHEET	52D/7
CIRCLE	CHAMBA
DIVISION	BHARMOUR
DPF	KUTHED
RANGE	SWAI
BLOCK	RUNUKOTHI
BEAT	RUNUKOTHI

Deputy Conservator of Forests
Bharmour Forest Division
Bharmour, Chamba (H.P.)

DIGITAL LANDUSE MAP FOR C/O CA SITE GHATOR TOP SHEP (7.50HECTARE)



— PROP. CA LAND
 — PRIVATE LAND
 — FOREST LAND

— FOREST
 — RURAL LAND

DPF KUTHED
 RANGE SWAI
 BLOCK RUNUKOTHI
 BEAT RUNUKOTHI

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"DETAILED SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed Scheme for Compensatory Afforestation to be carried out in lieu of **3.7463 hectares** of forest area to be diverted in favour of **M/S Rajeev Upamnyu, Chamba Hydro Venture, Hotel Alps Resorts, P.O. Tehsil Dalhousie District Chamba (H.P.)** for the construction of **Ghator Top SHEP (4.98 MW)** within the jurisdiction of Bharmour Forest Division in Chamba District, Himachal Pradesh.

1. Details of degraded forest land/ non forest land:-

District :- Chamba
 Village :- Mangloon
 Tehsil :- Bharmour
 Name of Forest Division :- Bharmour
 Range :- Swai
 Block/ Compartment/Survey Sheet No :- 52D/7/NE
 Area to be afforested:- Afforestation will be carried out 07.50 Hectare in Kuthed DPF.

2. Description of area:-

I)	Whether the site selected for Compensatory Afforestation is a land bank or not.	Yes
II)	If the C.A. Site is other than the land bank, reasons be given.	N.A.
III)	In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:-	N.A.
IV)	Soil Type.	Clayey loam
V)	a) Topography: Hilly/undulating/Plain.	Hilly
	b) Slope: Steep/Medium/Gentle.	Medium
VI)	Whether the area is bearing any root stock of vegetation.	No

3. Plantation Model:- Departmental
 Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up is enclosed.

COMPENSATORY AFFORESTATION SCHEME FOR THE DIVERSION OF 3.7463 HAC. OF FOREST LAND FOR THE C/O GHATOR TOP SHEP (4.98MW) IN BHARMOUR FOREST DIVISION												
Norms of plantation and maintenance of old plantation for Non-Tribal and Tribal Areas for the year 2021-22 applicable vide Pr.CCF (HoFF) H.P. Shimla memo.No.Ft.State CAMPA/2010/Norms/Vol.II dated 21.06.2021.												
Total area diverted in hectare												
Area proposed for compensatory afforestation.												
Name of proposed plantation area												
Plants to be planted per Hectare												
Total number of plants to be planted.												
Year of Execution (Tentative)												
Species to be planted												
Particulars of works	Area in Ha.	Cost Norm per Ha. for the FY 2022-23 for Plantation/ Maintenance	Total Plantation / Maintenance Cost	Plants to be planted per Ha.	Total no. of plants to be planted	Nursery cost per plant	Total Nursery Cost	Total Plantation cost + Total nursery cost (Col 3+7)	Year of Execution of Works	Cost Escalation taking 10 % for each subsequent year	Escalated Cost	Total Amount (Col. 8+11)
	1	2	3	4	5	6	7	8	9		11	12
Initial cost for raising compensatory afforestation over an area of 7.50 ha.	7.50	125000	937500	1100	8250	28.46	234795	1172295	2022-23	10%	117230	1289525
Soil & Moisture Conservation Works @ 25% of Planting Cost												322381
Total - A												1611906
1st year maintenance	7.50	13300	99750	330	2475	28.46	70439	170189	2023-24	20%	34038	204226
2 nd year maintenance	7.50	8900	66750	220	1650	28.46	46959	113709	2024-25	30%	34113	147822
3rd year maintenance	7.50	4600	34500	110	825	28.46	23480	57980	2025-26	40%	23192	81171
4th year maintenance	7.50	4600	34500	110	825	28.46	23480	57980	2026-27	50%	28990	86969
5th year maintenance	7.50	4600	34500	110	825	28.46	23480	57980	2027-28	60%	34788	92767
6th year maintenance	7.50	4600	34500	110	825	28.46	23480	57980	2028-29	70%	40586	98565
7th year maintenance	7.50	4600	34500	110	825	28.46	23480	57980	2029-30	80%	46384	104363
8th year maintenance	7.50	4600	34500	110	825	28.46	23480	57980	2030-31	90%	52182	110161
8th year maintenance	7.50	4600	34500	110	825	28.46	23480	57980	2031-32	100%	57980	115959
10th year maintenance	7.50	4600	34500	110	825	28.46	23480	57980	2032-33	110%	63777	121757
Total-B												1163761
Total - A+B												2775667
Add Contingencies Charges @ 5 %												138783
Sub Total												2914450
Add Departmental Charges of Supervision@17.5 %												510029
Grand Total												3424479

Deputy Conservator of Forests
Bharmour Forest Division
Bharmour, Chamba (H.P.)

5. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

a)	General Details.	The land bank identified in Kuthed DPF 7.50 Hectare (Total 7.50 Hectare) is blank patches where coniferous & B/leave species will be planted at the pit size 30cmx30cmx30cm and broad leaf at pit size 45cmx45cmx45cm with inward slope. The area will be protected by barbed wire fencing with R.C.C. fence posts.
b)	Spacing.	3.00m x 3.00m from plant to plant.
c)	Species.	Conifer:- Deo & Kail, Near 3.00m from Row to Row. Broad Leave:- Ban, Walnut & Chulli.
d)	Plantation Method.	Contour Planting.
e)	Soil and Moisture Conservation Works.	Contour Trenches with in the plantation area, check walls / protection walls, check dams as per site requirement.
f)	Protection (Fencing, Watchman, People's Participation etc.).	Fencing.
g)	Proposed Monitoring Mechanism.	Department.
h)	Any other information.	NIL.


Divisional Forests Officer,
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"LAND SUITABILITY CERTIFICATE BY DFO (T)"

This is to certify that 07.50 hectare at DPF Kuthed (CA Site) bearing Survey No./ Compartment No.**52D/7/NE** of village **Mangloon**, Tehsil **Bharmour**, District **Chamba**, HP identified for Compensatory Afforestation is suitable for plantation from management point of view and is free from all sorts of encumbrances and encroachments.

Place : Bharmour
Dated:


Divisional Forests Officer,
Bharmour Forest Division
Bharmour

7	Saror Dhar	1285.68	---	---	---	---	---	---	PWC
8	Gad Dhar	387.69	---	---	---	---	---	---	PWC
9	Khug Dhar	373.12	---	---	---	---	---	---	PWC
10	Bharwali	251.31	I	76.89	---	---	---	---	PWC
			II	30.90	---	---	---	---	PWC
			II	143.52	---	---	---	---	PWC
11	Gadhalla	126.29	---	---	---	---	---	---	PWC
12	Dharot	372.93	I	15.36	0.6	9.22	I	---	---
			II	357.57	---	---	---	---	PWC
13	Kalhair	34.80	---	---	---	---	---	---	PWC
14	Machhetar	39.25	---	---	---	---	---	---	PWC
15	Siya	229.05	I	15.38	0.7	10.77	IV	---	---
			II	60.87	0.6	36.52	II	---	---
			III	70.82	0.5	35.41	---	PBU	---
			IV	36.02	0.6	21.61	IV	---	---
			V	25.32	0.6	15.19	I	---	---
			VI	20.64	0.7	14.45	III	---	---
16	Serabali Dhar	472.26	---	---	0.7	0.00	---	---	PWC
17	Sarnu II	134.36	I	17.81	0.6	10.69	I	---	---
			II	116.55	---	---	---	---	PWC
18	Juan	126.86	---	---	---	---	---	---	PWC
19	Bandhi	114.93	---	---	---	---	---	---	PWC
20	Jeura	186.15	---	---	---	---	---	---	PWC
21	Seri	173.21	I	57.28	0.8	45.82	I	---	---
			II	58.96	---	---	---	---	PWC
			III	56.97	0.5	28.49	IV	---	---
22	Kilrani-I	41.28	---	---	0.6	24.77	I	---	---
23	Kilrani-II	134.75	---	---	---	---	---	---	PWC
24	Swai	98.34	---	---	---	---	---	---	PWC
25	Sarnu-I	48.20	---	---	---	---	---	---	PWC
26	Pilli	99.15	---	---	---	---	---	---	PWC
27	Basanda	23.87	---	---	---	---	---	---	PWC
28	Garjar Dhar	392.14	---	---	---	---	---	---	PWC
29	Tipri	42.90	---	---	---	---	---	---	PWC
30	Chunjasar	347.63	I	67.18	---	---	---	---	PWC
			II	280.45	---	---	---	---	PWC
31	Chunjasar Dhar	248.07	---	---	---	---	---	---	PWC
32	Kholu Dhar	59.49	I	47.04	0.5	23.52	I	---	---
			II	12.45	---	---	---	---	PWC
33	Jhikru	1.61	---	---	---	---	---	---	PWC
34	Garola	99.96	---	---	---	---	---	---	PWC
35	Bhujnaili	19.43	---	---	---	---	---	---	PWC
36	Jarola	169.96	---	---	---	---	---	---	PWC
37	Drub	37.64	---	---	---	---	---	---	PWC
38	Chobu	8.90	---	---	0.6	5.34	II	---	---
39	Sadli	78.91	---	---	---	---	---	---	PWC
40	Ulansa	21.85	---	---	0.6	13.11	I	---	---
41	Sulakhar	44.52	---	---	---	---	---	---	PWC
42	Opan	145.28	---	---	---	---	---	---	PWC
43	Mandhaur	123.83	---	---	---	---	---	---	PWC
44	Diguchanan Phal	234.71	I	161.87	0.6	97.12	---	PBU	---
			II	72.84	---	---	---	---	PWC
45	Masori	66.37	---	---	---	---	---	---	PWC
46	Banoi	92.27	I	90.65	---	---	---	---	PWC
			II	1.62	---	---	---	---	PWC
47	Kuthar	27.51	---	---	0.6	16.51	II	---	---