

PART-II

{To be filled in by the concerned Deputy Conservator of Forest}

State Serial No. of Proposal: FP/HP/HYD/156608/2022

7.	Location of Project/Scheme	
	i) State/Union Territory	Himachal Pradesh
	ii) District	Chamba
	iii) Forest Division	Bharmour
	iv) Area of forest land proposed for Diversion (in ha.)	3.7463 Hac.
	v) Legal status of forest	DPF
	vi) Density of vegetation	2.30
	vii) Species-wise (Scientific name) and diameter class wise Enumeration of trees (to be enclosed). In case of Irrigation/Hydel Projects Enumeration at FRL, FRL-2 meter & FRL-r meter to be enclosed.	A total 57 numbers trees of various species are involved in the forest land to be diverted under FCA,1980, the species wise, dia class wise & cost of trees is enclosed at Page No. _____
	viii) Brief on vulnerability of the forest Vulnerable are to the erosion.	The Forest land proposed for diversion is not vulnerable to soil erosion. However to mitigate the anticipated impact around the project construction site, some soil conservation work have been proposed for checking soil erosion and have been included in the compensatory afforestation plantation scheme..
	ix) Approximate distance of proposed site for diversion from boundary of forest.	This being a linear project, the approximate distance of proposed area for the construction of above Project from boundary of forest is 0.5 Km
	x) Whether forms part of National Park, Wildlife Sanctuary, Biosphere Reserve, tiger reserve, Elephant Corridor, etc.(if so, the details of area and comments of the chief Wildlife Warden to Be annexed).	The proposed forest land does not from the part of wildlife sanctuary/National Park. But it falls within 07.10 aerial distance from the boundary of Tundah wildlife sanctuary. So comments of D.F.O. Wildlife Chamba is enclosed at Page _____
	xi) Whether any rare/endangered/ unique species of flora and fauna found in the area? If so, Details thereof.	Rare and endangered species of flora and fauna are not found in the proposed Project.
	xii) Whether any projected Archaeological/heritage site /defence establishment or any other important Monument is located in the area? if so, the details thereof with NOC from competent authority, if required.	No archaeological/heritage site /defence establishment exist in this area.
8.	Whether requirement of forest land as proposed by the user agency in col. No.2 of part-I is unavoidable and barest minimum for the project? if so, recommended area item-wise with details of alternative examined.	
	Yes, the requirement of forest land as proposed by the User Agency in Column No. 2 of part-I is unavoidable and barest minimum for the project.	
9.	Whether any work in violation of the Act has been carried out? If yes, details of the same including Period of work done, action taken on erring officials. Whether work in violation is still in progress.	
	No work in violation of the Act has been executed by the "User Agency".	

(13)

10.	Details of compensatory afforestation scheme :		
	(i)	Details of non forest area/degraded forest area identified for compensatory afforestation. Its distance from adjoining forest, number of patches, size of each patch.	
	(ii)	Map showing non-forest/ degraded forest area identified for compensatory afforestation and adjoining forest boundaries.	
	(iii)	Detailed of compensatory afforestation scheme including species to be planted, implementing Agency, time schedule, cost structure etc.	
	(iv)	Total financial outlay for compensatory afforestation scheme.	
	(v)	Certificate from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view. (to be signed by the concerned Deputy Conservator of Forests).	
11.	Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7(ix, xii), 8 and 9 above		
12.	Division/District profile:		
	(i)	Geographical area of the District.	6528 Square Kilometers
	(ii)	Forest area of District.	453756 Hac.
	(iii)	Total forest area diverted since 1980 with number of cases.	352.932 Hac. area has been diverted in 37 cases in Bharmour Forest Division since, 1980.
	(iv)	Total compensatory afforestation stipulated in the District/division since 1980 up till now.	
	a)	Forest land including penal compensatory afforestation.	751.5062 Hac. area of Compensatory afforestation has been stipulated in the projects/Roads finally approved under FCA, 1980 up till now.
		b) Non forest land.	-Nil-
	Progress of Compensatory afforestation as on (date) up till now		
	a)	Forest Land	Compensatory afforestation in 743.82 hac. area has been raised so far till 31.03.2022.
		b) Non Forest Lad	-Nil-
13.	Special recommendation of the DCF for acceptance or otherwise of the proposal.		
	The entire alternative for the purpose have been explored and the demand for required are i.e. 3.7463 hac. is minimum demand for forest land. Hence recommended.		

Dated: 11.03.2022

Place: Bharmour

Dr. Narender Singh, HPFS
 D.F.O. Bharmour
 Bharmour Forest Division
 Bharmour (H.P.)

Full Title of the Project
File No.
Date of Proposal

:-
:-
:-

Ghator Top SHEP (4.98 MW).
FP/HP/HYD/156608/2022.
09/06/2022.

43

CHECK LIST SERIAL NO.-16

SITE INSPECTION REPORT NOT BELOW THE RANK OF DCF (*For the forest land to be diverted under FCA*)

A proposal has been received by this office from M/s **Chamba Hydro Venture, Hotel ALP Resorts, P.O. & Tehsil Dalhousie, District Chamba (H.P.)** for diversion (under FCA-1980) of **3.7463 hectare** of forest land for non forestry purpose. The subject envisages the use of forest land for the construction of **Ghator Top Small Hydro Electric Project (4.98MW)** within the jurisdiction of Bharmour Forest Division, District Chamba, Himachal Pradesh. The site inspection of the land involved in the proposal has been done by me on dated 24-06-2022

On inspection of the site, it is found that the land required by the user agency is a forest land measuring **3.7463 hectare** for main project components and proposed for diversion under FCA.

The requirement of forest land as proposed by the user agency in Column 2 of Part-I is unavoidable and is barest minimum required for the project: **Yes**.

Whether any rare/endangered/unique species of flora and fauna found in the area. If so detail thereof: **No**.

Whether any protected Archaeological/heritage site/defence establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required: **No**.

- (a) The user agency has not violated the provisions of Forest (Conservation) Act, 1980 and no work has been started without proper sanction: **Yes**.
- (b) It has been found that the user agency has violated the Forest (Conservation) Act, 1980 provisions. A detailed report as per para 1.9 of Chapter-I, Part-C of hand book of Forest (Conservation) Act, 1980 is attached: **No**.

Specific recommendation for acceptance or otherwise of the proposal: **As the requirement of forest land for the purpose is barest minimum and no unique / rare / endangered species of flora & fauna found, hence recommended for diversion.**

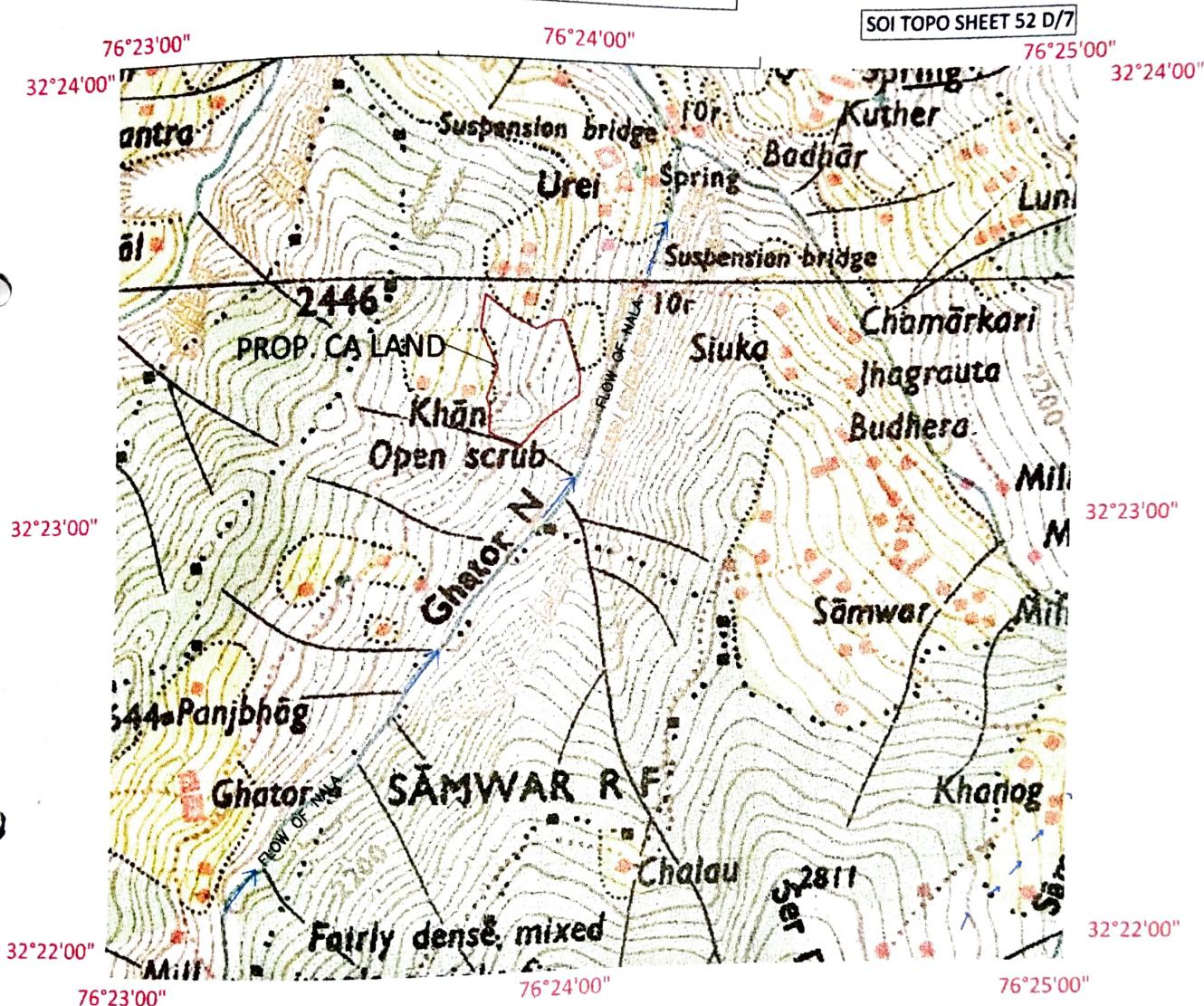
Place: Bharmour.

Dated: 11-06-2022

Dr. Narinder Singh, HPFS
Divisional Forest Officer
Bharmour Forest Division
Bharmour (H.P.)

**GHATOR TOP HYDRO PROJECT(4.98 MW)
TEHSIL BHARMOUR, DISTRICT CHAMBA (HP)**

TOPO MAP OF CA LAND

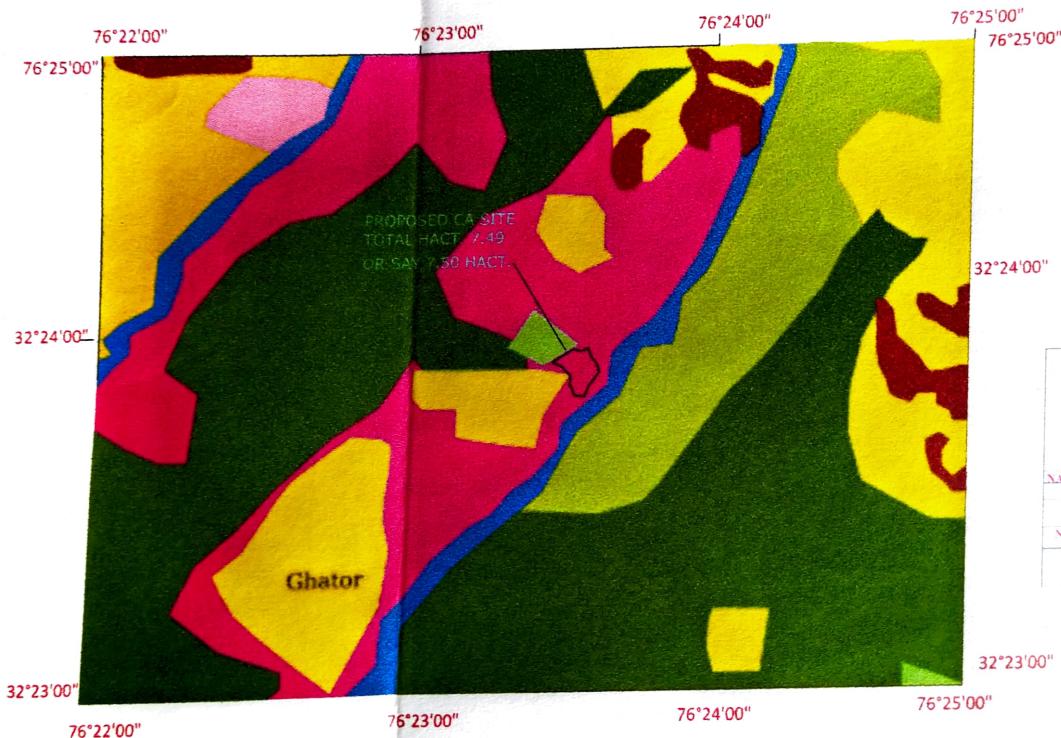


Sr. No.	Latitude	Longitude
1	32°24'38.53"N	76°23'15.61"E
2	32°24'36.66"N	76°23'15.67"E
3	32°24'34.66"N	76°23'18.96"E
4	32°24'30.61"N	76°23'17.58"E
5	32°24'28.38"N	76°23'19.43"E
6	32°24'28.68"N	76°23'22.25"E
7	32°24'32.59"N	76°23'24.80"E
8	32°24'36.09"N	76°23'27.82"E

LEGEND	
PROJECT NAME	GHATOR TOP SHEP 4.98 MW
PROP.CA LAND	
AREA	7.50 HEC.
FLOW OF NALA	

Divisional Forest Officer
Bharmour Forest Division
Bharmour (H.P.)

Digital Land use Map For CA Site Ghator Top SHEP (7.50Hact.)



Sr. No.	Latitude	Longitude
1	32°24'38.53"N	76°23'15.61"E
2	32°24'36.66"N	76°23'15.67"E
3	32°24'34.66"N	76°23'18.96"E
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7	32°24'32.59"N	76°23'24.80"E
8	32°24'36.09"N	76°23'27.82"E

CA LAND USE MAP FOR 7.50 HECT. OF FOREST LAND FOR COMPENSATORY AFFORESTATION GHATOR TOP SHEP 4.9MW	
PROJECT:-	GHATOR TOP SHEP 4.9MW
NAME OF APPLICANT:-	CHAMBA HYDRO VENTURES
NAME OF FOREST	GHATOR DPF
NAME OF FOREST RANGE	SWAL BHARMOUR FOREST DIVISION

CA LAND WATER BODY CULTIVATED LAND FOREST LAND SHRUBS OPEN LAND

Divisional Forest Officer

Bharmour Forest Division

Bharmour (H.P.)

47

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. 18.

“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 :- Ghator
 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 Ghator 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 0.9487 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.

48

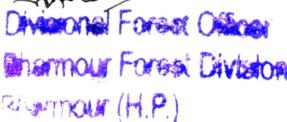
Total area diverted in hectare	3.7463 Ha.										
Area proposed for compensatory afforestation.	3.7463 X 2 = 7.4926 or Say 7.50 Hectares										
Name of proposed plantation area	Ghator DPF										
Plants to be planted per Hectare	1100										
Total number of plants to be planted.	8250										
Year of Execution (Tentative)	2022-23										
Species to be planted	Deodar, Kail and OBL Species										

Particulars of works	Area in Ha.	Cost Norm per Ha. for the FY 2021-22 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	98785	740887.5	1100	8250	28.46	234795	975682.5	2022-23	10%	97568	1073251

Soil & Moisture Conservation Works @ 25% of Planting Cost 268313

Total - A												1341563
1st year maintenance	7.50	11380	85350	330	2475	28.46	70439	155789	2023-24	20%	31158	186946
2 nd year maintenance	7.50	3975	57562.5	220	1650	28.46	46959	104522	2024-25	30%	31356	135878
3 rd year maintenance	7.50	3975	29812.5	110	825	28.46	23480	53292	2025-26	40%	21317	74609
4 th year maintenance	7.50	3975	29812.5	110	825	28.46	23480	53292	2026-27	50%	26646	79938
5 th year maintenance	7.50	3975	29812.5	110	825	28.46	23480	53292	2027-28	60%	31975	85267
6 th year maintenance	7.50	3975	29812.5	110	825	28.46	23480	53292	2028-29	70%	37304	90596
7 th year maintenance	7.50	3975	29812.5	110	825	28.46	23480	53292	2029-30	80%	42634	95926
8 th year maintenance	7.50	3975	29812.5	110	825	28.46	23480	53292	2030-31	90%	47963	101255
8 th year maintenance	7.50	3975	29812.5	110	825	28.46	23480	53292	2031-32	100%	53292	106584
10 th year maintenance	7.50	3975	29812.5	110	825	28.46	23480	53292	2032-33	110%	58621	111913
Total-B												1068912
Total - A+B												2410476
Add Contingencies Charges @ 5 %												120524
Sub Total												2530999
Add Departmental Charges of Supervision@17.5 %												442925
Grand Total												2973924

TWENTY NINE LAC SEVENTY THREE THOUSAND NINE HUNDRED TWENTY FOUR ONLY



Divisional Forest Officer
Bharmour Forest Division
Reckong Peo (H.P.)

5. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:

a) General Details.	The land bank identified in Banni DPF 5.00 Hectare and Silpari DPF 5.00 Hectare (Total 10.00 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 slop. 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, HCN, Robinia, 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.

Range Forest Officer,
R.F.O. Swai,
Swai Forest Range,
Swai,

[Signature]
Divisional Forest Officer,
Bharmour Forest Division
Bharmour (H.P.)

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-20.

"LAND SUITABILITY CERTIFICATE BY DFO (T)"

This is to certify that 07.50 hectare at DPI Ghator (CA Site) bearing Survey No. / Compartment No. **52D/7/NE** of village **Ghator**, 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: 11.07.2022

Range Forest Officer,
 Swai Forest Range,
 Swai,

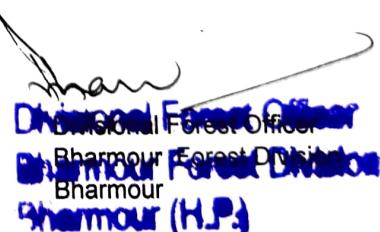
Divisional Forest Officer,
 Bharmour Forest Division
 Bharmour (H.P.)

COST OF NET PRESENT VALUE (NPV)

CALCULATION OF NET PRESENT VALUE OF FOREST LAND TO BE DIVERTED UNDER FCA FOR THE C/O GHATOR TOOP SHEP (4.98MW) IN BHARMOUR FOREST RANGE OF BHARMOUR FOREST DIVISION DISTRICT CHAMBA HIMACHAL PRADESH

Classification of land being diverted into various ECO classes as per Hon'ble Supreme Court directions.
Rate revised vide GOI, MOEF Letter No.5-3/2011-FC(Vol-I) dated 06.01.2022

Nature of forests	Area being diverted	Classification as per Champion and Seth												Eco value class
		V	IV	III	IIA	IIB	IA	IB	IC	ID	IE	Total		
DPF	3.7463													VI
Area of diverted land falling in Eco Zone VI														Area being diverted
Trees coming in the area	29	16	5	4	1	2	0	0	0	0	57			3.7463
Total trees upto III														45
Total trees of III and above class														12
Total mature trees (nationally) after conversion of 2 trees of below IIIrd class into one mature class														34.5
Density of trees in the land to be diverted (PERCENTAGE) (34.50/3.7463)														9.21
Density class: 100/400x9.21														2.30
Calculation of NPV :														
Name of Forest	Area to be diverted	ECO Value	Density class	NPV rate applicable				Amount						
Jaroun Dhar DPF & Ghator DPF	3.7463	VI	Open Forest	1069470				4006555						
				Or say Total NPV				40,06,555						


 District Forest Officer
 Bharmour Forest Division
 Bharmour
 Bharmour (H.P.)

63

No. 2791
Himachal Pradesh Forest Department.

From: Divisional Forest Officer,
Wildlife Division Chamba, H.P.

To: Chamba Hydro Ventures,
Hotel Alps, Dalhousie, Chamba, H.P.

Dated Chamba, the 29-11-2021

Sub: **Eco Sensitive Zone Certificate in respect of Ghator Top (4.98 MW) in Tehsil Bharmour distt. Chamba HP regarding..**

Sir/Madam,

Please refer to your office letter no. CHV/GT/Wildlife/2021/16 dated 25/10/2021 on the subject cited above.

2. In this connection, the report was sought from Range Forest Officer, Wildlife Range Bharmour who has submitted that the nearest distance of the proposed work is at the aerial distance of 07.10 KM (approx) from the Eco-Sensitive Zone of nearest Wildlife Sanctuary i.e. Tundah.

This is for your information and necessary action.

Divisional Forest Officer
Wildlife Division Chamba
Ph/Fax. 01899-222639

Chamba Hydro Ventures
Author