



HIMACHAL PRADESH STATE ELECTRICITY BOARD LIMITED

(A State Government Undertaking)

Registered Office: Vidyut Bhawan, HPSEBL, Shimla-171004 (H.P.)

CIN: U40109HP2009SGC031255

Phone No.: 0177-2803600, 2801675 (Office), 2658984 (Fax)

Website: www.hpsebl.in, e-mail: cmd@hpsebl.in & directorfa@hpsebl.in



No: - HPSEBL/ESDS/DB-94/2022-23- 8023

Dated:- 20.01.2023

To

Nodal Officer-cum-APCCF(FCA),
O/O Pr. CCF, H P (HoFF),
Talland, Shimla.

Sub: Diversion of 8.4085 Ha of forest land in favour of HPSEB Ltd. for the construction of 66kV DC transmission line from proposed 220/66kV Sub Station Nadukhar to existing 66/22kV Sub Station Gumma Shimla within the jurisdiction of Shimla Forest Division Dist. Shimla.

Sir,

Please refer to your office letter No.Ft.48-5709/2022(FCA) dated 11.04.2022 vide which EDS of subject cited FCA case were raised. Accordingly, the detailed submission is as under:-

1. **Point No.1:** - Against column No.B-2.3 the detail of 12 villages has been mentioned. The certificate issued by competent revenue authority in respect of 7 No. remaining villages is enclosed herewith as **Annexure-A**. The same has also been uploaded in additional information section.
2. **Point No-2:** - The three alignments have been examined for the construction of subject cited transmission line. In wake of advice rendered Yes has now been mentioned against column D(ii) and a copy of map showing alternate alignments duly signed by User Agency and countersigned by DFO has been uploaded against column D(iii). The same is also being enclosed as **Annexure-B** for ready reference.
3. **Point No-3:** - Necessary correction as per advice rendered has now been made in the proposal. Yes has been mentioned against column G(i) and the copy of cost benefit analysis as required on Annexure-VI(b) has also been uploaded. The same has also been enclosed for ready reference as **Annexure-C**.
4. **Point No-4:** - The distance certificate from Eco sensitive zone has now been obtained from Dy. Conservator of Forests, Wildlife Forest Division, Shimla and has been uploaded against the additional information details as advised. The comments of DFO concerned have also been obtained on the same certificate and the same is also enclosed herewith as **Annexure-D** for ready reference.
5. **Point No-5:** -Certificate for non availability of non-forest land for the project has now been issued by the DC concerned has been uploaded against the additional information detail. The same is also enclosed herewith as **Annexure-E** for ready reference.
6. **Point No-6:** - As advised undertakings to pay the cost of CA, NPV and additional NPV have also been uploaded against the additional information details.
7. **Point No-7:** - The length & width of transmission line along with other requisite detail of the line now has been uploaded in the additional information section with the name "**Information regarding transmission line/check list No-23**".

This is for information and necessary action, please.

Sr. Executive Engineer,
ES Division, HPSEBL,
Totu, Shimla-11

Annexure-A

Name of work:- Construction of 66kV, D/C transmission line from proposed 220/66kV Sub-Station Nadukhar to existing 66/22kV Sub-Station Gumma.

Detail of total population benefited along with village code.

Sr. No.	Name of the village	Village code	Population
1	Manjailu	019601	91
2	Berti	019701	305
3	Rumahan	020801	212
4	Kanda	033401	314
5	Gumma	035401	865
6	Mannar	033001	308
7	Ratanpur	032801	27

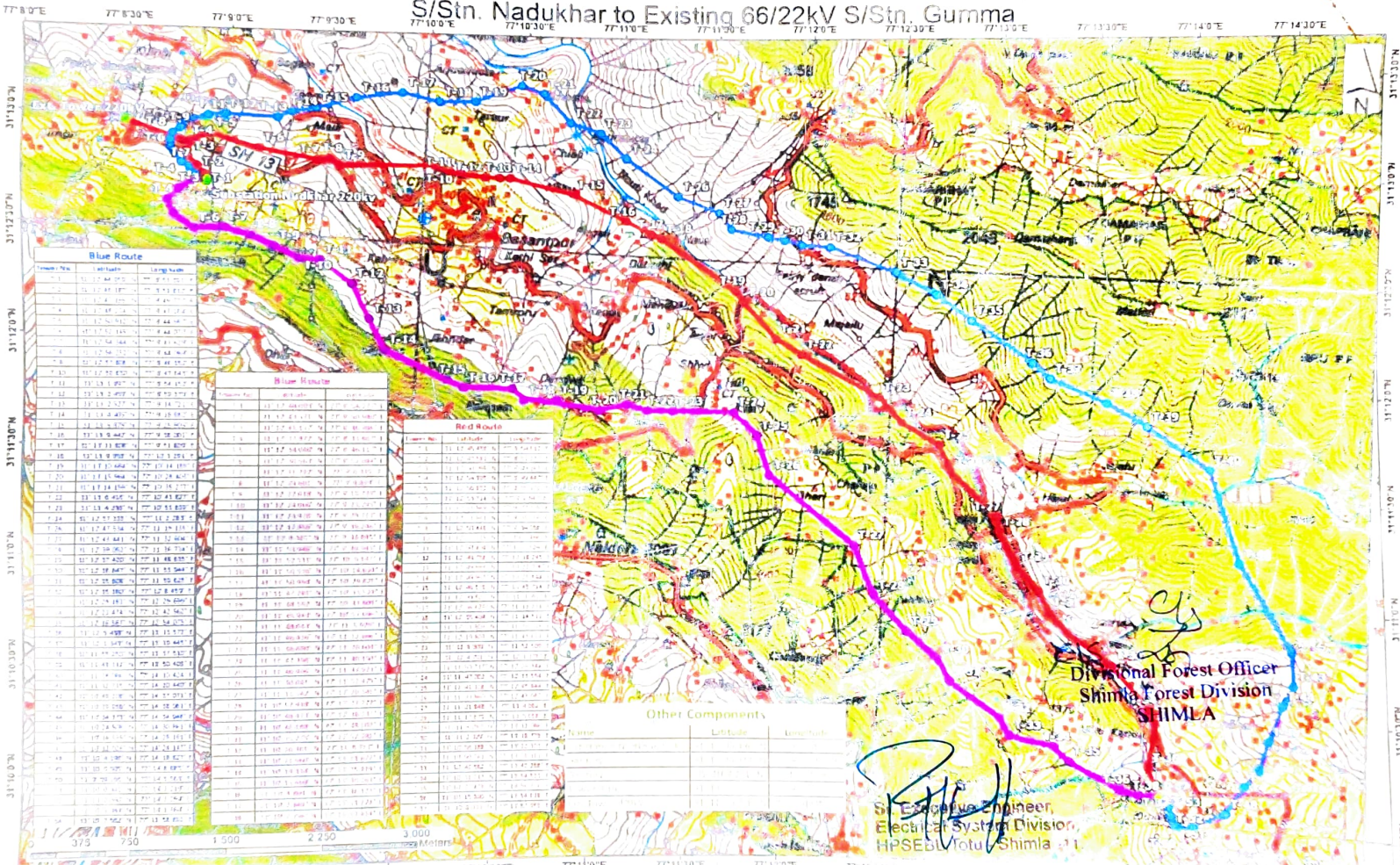
उपरोक्त क्रमांक 1, 2, 3, 4, 5, 6, 7 की जनसंख्या पंचायत समिति खंड की गई है।
दिनांक 28-7-2022 तक है।

Secretary
G.P. Majhiwar
Teh. Suni, Distt. Shimla (H.P.)

उपरोक्त क्रमांक 4, 5, 6, 7 की जनसंख्या व विलेज कोड
आज दिनांक 28/7/2022 को सम्पादित है।

साथव
ग्राम पंचायत
विकास खण्ड मसूदा
तह 0 व जिला शिमला हि0प्र7

Topographic Map w.r.t. Construction of 66KV D/C Transmission line from proposed 220/66kV



COST BENEFIT ANALYSIS FOR DIVERSION OF FOREST LAND

Name of the Project: - Construction of 66kV Double Circuit transmission line from proposed 220/66kV Sub-Station at Nadukhar to existing 66/22kV Sub-Station Gumma Shimla in the jurisdiction of Shimla Forest Division Dist. Shimla.

Nature of Proposal: - Diversion of 8.4085 Ha of forest land in favour of HPSEB Ltd. for construction of 66kV Double Circuit transmission line from proposed 220/66kV Sub-Station Nadukhar to existing 66/22kV Sub-Station Gumma Shimla (Linear).

Total Length of the Project: -9.139 km

Total Forest Area: - 8.4085 Ha

Purpose: - The Cost Benefit Analysis is being undertaken in compliance to apt guidelines issued by MoEF&CC for diversion of Forest land during August, 2017 and in respect of proposed c/o 66kV D/C transmission line from proposed 220/66kV Sub-Station Nadukhar to existing 66/22kV Sub-Station Gumma Shimla in the jurisdiction of Shimla Forest Division Dist. Shimla and

Table-A

Case under which a Cost-Benefit Analysis for Forest Diversion is required

Sr. No.	Nature of Proposal	Applicable/Not Applicable	Remarks
1.	All category of forests involving forest land upto 20 hectares in plains and 5 hectares in hills	Not Applicable	These proposals may be considered on case to case basis and value judgment
2.	Proposal for defence installation purpose and oil prospecting (prospecting only)	Not Applicable	In view of National priority accorded to these sectors, the proposal would be critically assessed to help ascertain that the utmost minimum forest land is diverted for non-forest use.
3.	Habitation, establishment of industrial units, tourist lodge complex and other building construction	Not applicable	These activities being detrimental to protection and conservation of proposals would be rarely entertained.
4.	All other proposal involving forest land more than 20 hectares in plains and more than 5 hectares in hills including roads, transmission lines, minor, medium and major irrigation projects, hydro projects, mining activity, railway line, location specific installation like micro wave stations, auto repeater centres, TV towers etc.	Applicable	These are cases where a cost benefit analysis is necessary to determine when diverting the forest land to non-forest use in the overall public interest


Divisional Forest Officer
Shimla Forest Division
SHIMLA

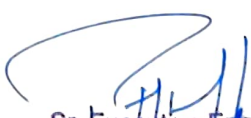

Sr. Executive Engineer,
Electrical System Division,
HPSEBL, Totu - Shimla -11.

Table-B
Cost Benefit Analysis
Estimation of Cost of forest diversion

Sr. No	Parameters	Value expressed to Monetary terms and in Detail	Remarks
1.	Ecosystem services losses due to proposed forest diversion	Rs. 89,92,639/-	Economic value of loss of eco-system services due to diversion of forest shall be the net present value (NPV) of the forest land being diverted as prescribed by the Central Government (MoEF & CC).
2.	Loss of animal husbandry productivity, including loss of fodder	Rs. 8,99,264/-	To be quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum
3.	Cost of human resettlement	Since no residential village/ area is getting affected, there will be no cost of human resettlement	To be quantified and expressed in monetary terms as per approved R&R plan
4.	Loss of public facilities and administrative infrastructure (Roads, building, schools, railways, etc.) On forest land which would require forest land if these facilities were diverted due to the project.	Since no public facilities and administrative infrastructure (Roads, building, schools, railways, etc.) on Forest land being diverted due to the project, there will be no such loss.	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion.
5.	Possession value of forest land diverted	Rs.26,97,792/- i.e. 30% of environmental cost (NPV) due to loss of forests i.e.	30% of environmental costs (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component since possessor value of forest land whichever is maximum.
6.	Cost of suffering to outsiders	Nil	The social cost of rehabilitation of oustees (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what oustees should have earned in two years had he not been shifted.
7.	Habitat Fragmentation Cost	Rs. 44,96,320/- i.e. 50% of NPV applicable	While the relationship between simplicity the cost due to Fragmentation has been pegged at 50% of NPV applicable as a thumb rule.
8.	Compensatory afforestation and soil & moisture conservation cost	Rs. 51,46,313/-	The actual cost of compensatory afforestation and soil & moisture conservation and its maintenance in future at present discounted Value.

C.S.
K.T.
Divisional Forest Officer
Shimla Forest Division
SHIMLA

Sr. Executive Engineer,
Electrical System Division,
HPSEBL, Tolu Shimla -11.

Table: C

Estimating Benefits of Forest Diversion in Cost Benefit Analysis

Sr. No.	Parameters	Value expressed in monetary terms	Remarks
1.	Increase in Productivity attribute to the specific project	Growth of local business by almost Rs. 2,51,41,20,000/-	To be quantified & expressed in monetary terms
2.	Benefits to economy due to the specific project.	he economic benefit in monetary terms due to the activities attributed to the specific project will be Rs. 25,14,12,000/-	The incremental Economic benefit in monetary terms due to the activities attributed to the specific project.
3.	No. of population benefited due to specific project.	As per the demand forecast for the project (approx.) 4,07,000/- people shall be benefited through this project in the initial year of project commissioning. Thereafter minimum growth of 3% is expected each year.	As per the Detailed Project Report
4.	Economic benefit due to Direct and indirect Employment due to the project	Direct:- Nil Indirect:-58400@Rs.525/- = Rs. 3,06,60,000/- Total of Directly and indirectly:- 3,06,60,000/-	As per the Detailed Project Report
5.	Economic benefit due to compensatory afforestation	Economic benefit due to compensatory afforestation include benefits animal husbandry productivity including fodder and fuel wood Eco system services benefits due to proposed forest land diverted will be Rs. 51,46,313/-	

C/S

K.T.

Divisional Forest Officer
Shimla Forest Division
SHIMLA

Sr. Executive Engineer,
Electrical System Division,
HPSEBL, Totu - Shimla -11.

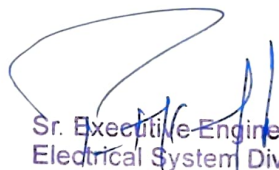
Summary of Cost Benefit Analysis for the Project

Sr. No.	Total Cost/Loss	Evaluation
1.	Ecosystem Services losses Rs.89,92,639/-	Increase in productivity attributed to the specific project is Rs. 2,51,41,20,000/-
2.	Loss of animal husbandry productivity including loss of fodders= Rs.8,99,264/-	Benefits to economy due to specific project Rs.25,14,12,000/-
3.	Loss of public facility=Nil	
4.	Possession Value of forest land diverted= Rs.26,97,792/-	
5.	Habitat fragmentation cost = Rs. 44,96,320/-	
6.	Compensatory afforestation and soil & moisture conservation cost= Rs.51,46,313/-	
	Total Cost/loss= Rs.2,22,32,328/-	Total Gain/Benefit from Project = 2,51,41,20,000+25,14,12,000+3,06,60,000+51,46,313 = Rs.2,80,13,38,313/-

Cost Benefit Ratio = (Total Benefit)/(Total cost) = 2801338313/22232328 = 126.003 which is > 1, so project is found viable based on given / above described criteria.

C/S


Divisional Forest Officer
Shimla Forest Division
SHIMLA


Sr. Executive Engineer,
Electrical System Division,
HPSEBL, Totu - Shimla -11.

Anin-D (30)

No. WLM-102/ 927
H.P. Forest Department,

Dated Shimla, the 4-5-2022

From:

**Dy. Conservator of Forests,
Wildlife Division, Shimla.**

To:

**Sr. Executive Engineer,
Electrical System Division,
HPSEB Ltd., Totu, Shimla-II.**

Subject:

Diversion of 8.4085 ha land for "Construction of 66 KV D/C transmission line from proposed 220 /66KV Sub-station Nadukhar to existing 66/22KV sub-station Gumma, Shimla (H.P).

Sir,

Kindly reference to your letter No. HPSEBL/ESDS/DB-94/2021-22-4509-10 dated 11-03-2022 on the subject cited above.

2. As per report sent by Range Forest Officer, SWC, Dhalli the aerial distance of the proposed above site is approx. **5.30 Km.** from Shimla Water Catchment Wildlife Sanctuary and the aerial distance from Eco Sensitive Zone Shimla Water Catchment is approx. **4.84Km.** and there is no adverse impact on Wildlife from this proposed site.

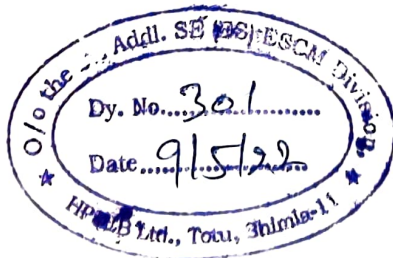
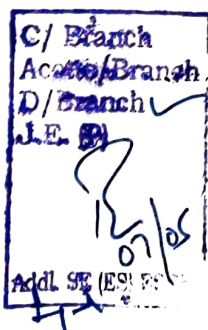
This is for favour of your kind information and further necessary action please.

Note:

This is only distance certificate and cannot be treated as NOC.

Yours sincerely,


**Dy. Conservator of Forests,
Wildlife Division, Shimla.**



Ami-E Riga.

No. SML-SR-(57)-NAC &CA(341/2022- 1302
Office of the Deputy Commissioner,
Shimla, District Shimla, H.P.

Dated, Shimla-1 th 19th July, 2022

To

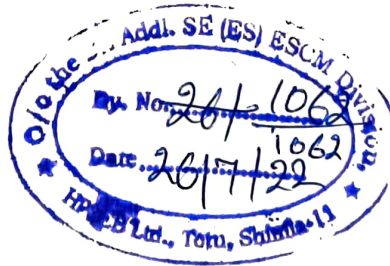
The Sr. Executive Engineer,
Electrical System Division,
HPSEBL, Totu-Shimla-11.

Subject:- Non Availability of Non Forest Land Certificate for the construction of 66 KV D/C transmission line from proposed 220/kv Sub-station Nadukhar to existing 66/22 kv sub station Gumma.

Sir,

Please refer to your office letter No.1315-16 dated 11.07.2022 on the subject cited above.

In this context, the Non Availability of Non Forest Land Certificate for construction of 66 KV D/C transmission line from proposed 220/kv Sub-station Nadukhar to existing 66/22 kv sub-station Gumma is enclosed herewith for information and further necessary action.



Yours faithfully,

Addl. District Magistrate (L&O),
Shimla.

No.SML-SR-57/2022- 1309
Office of the Deputy Commissioner,
Shimla, District Shimla, H.P.

Dated, Shimla-1 the

19th July, 2022.

NON AVAILABILITY OF NON FOREST LAND CERTIFICATE

Certified that no alternative suitable Non Forest land is available for construction of 66kV D/C transmission line from proposed 220/66 kV sub-station Nadukhar to existing 66/22kV sub-station Gumma. The diversion of forest land area measuring **08-29-32 Hectares** situated in Mohal/Mauja Nadukhar, Basantpur, Naltu, Kadog, Mandiyalu, Maanar, Manhailu, Ratanpur, Berti, Rumahan, Kanda, Gmma, Tehsil Sunni and Shimla (Rural), District Shimla, Himachal Pradesh is essential which cannot be avoided. The detail of forest land is as under:-

Sr. No.	Name of Tehsil/ Sub-Tehsil	Name of Mauja/ Up-Mohal	Khasra No.	Area in Hectares	Classification of Land
1	Sunni	Nadukhar	22/1	00-06-12	Gair Mumkin Sadak
			472/1	00-03-24	Charagah Darkhtan
			472/2	00-03-36	Charagah Darkhtan
			472/4	00-14-55	Charagah Darkhtan
			465/2	00-00-66	Gair Mumkin Rasta
			1213/952/2	00-51-05	Charagah Darkhtan
			1214/952/2	00-03-15	Charagah Darkhtan
			950/2	00-05-81	Charagah Darkhtan
			951/1	00-00-38	Gair Mumkin Sadak
			1004/1	00-05-88	Charagah Darkhtan

		1006/1	00-12-83	Charagah Billa Darkhtan
		1097/2	00-14-03	Gair Mumkin Sadak
		1101/2	00-01-69	Charagah Billa Darkhtan
		1190/2	00-02-20	Gair Mumkin Nallah
		467/2/2/1	00-03-24	Charagah Darkhtan
		467/2/2/2	00-05-85	Charagah Darkhtan
		467/2/2/4	00-15-65	Charagah Darkhtan
		Kita=17	01-49-69	
	Basantpur	154/2	00-01-58	Gair Mumkin Sadak
		863/1	00-02-82	Charagah Billa Darkhtan
		863/2	00-02-58	Charagah Billa Darkhtan
		1391/864/1	00-03-24	Charagah Billa Darkhtan
		1391/864/2	00-05-84	Charagah Billa Darkhtan
		1391/864/5	00-11-21	Charagah Billa Darkhtan
		1392/864/1	00-03-24	Charagah Billa Darkhtan
		1392/864/2	00-14-24	Charagah Billa Darkhtan
		1392/864/4	00-24-61	Charagah Billa Darkhtan
		Kita=09	00-69-36	
	Naltu	320/1	00-00-23	Gair Mumkin Rasta
		330/1	00-00-43	Charagah Billa Darkhtan
		317/1	00-07-40	Charagah Billa Darkhtan
		317/2	00-00-42	Charagah Billa Darkhtan
		383/1	00-00-60	Gair Mumkin Rasta
		550/1	00-01-05	Gair Mumkin Nallah
		Kita=06	00-10-13	
	Kadog	733/1	00-02-86	Charagah Drakhtan
		744/1	00-01-13	Gair Mumkin Rasta

		725/1	00-07-92	Charagah Drakhtan
		736/1	00-01-25	Charagah Drakhtan
		756/1	00-01-92	Gair Mumkin Rasta
		830/809/1	00-02-04	Charagah Drakhtan
		830/809/2	00-01-50	Charagah Drakhtan
		745/1	00-03-24	Charagah Drakhtan
		745/2	00-01-60	Charagah Drakhtan
		745/4	00-03-24	Charagah Drakhtan
		746/1	00-12-34	Charagah Billa Drakhtan
		750/1	00-00-04	Charagah Drakhtan
		755/1	00-10-06	Charagah Billa Drakhtan
		835/812/1	00-05-74	Charagah Drakhtan
		832/812/1	00-03-00	Charagah Drakhtan
		832/812/2	00-01-04	Charagah Drakhtan
		832/812/3	00-11-67	Charagah Drakhtan
		832/812/5	00-03-38	Charagah Drakhtan
		832/812/6	00-09-50	Charagah Drakhtan
		Kita=19	00-83-47	
	Mandiyalu	952/549/2	00-03-92	Charagah Drakhtan
		558/1	00-00-88	Bakhal Awal
		558/2	00-00-40	Bakhal Awal
		555/1	00-03-86	Bakhal Awal
		955/549/1	00-00-40	Charagah Drakhtan
		955/549/2	00-12-60	Charagah Drakhtan
		Kita=06	00-22-06	
	Manjailu	168/2	00-14-40	Gair Mumkin Khud
		196/2	00-07-26	Charagah Drakhtan
		203/2	00-00-07	Gair Mumkin Rasta
		296/2	00-05-40	Gair Mumkin Khud

2.	Shimla	Berti	249/2	00-01-04	Charagah Drakhtan
			Kita=05	00-28-17	
			647/2	00-08-64	Gair Mumkin Khud
			646/2	00-26-27	Charagah Drakhtan
			646/3	00-03-24	Charagah Drakhtan
			646/4	00-06-03	Charagah Drakhtan
			645/2	00-11-11	Gair Mumkin Sadak
			620/2	00-12-90	Charagah Drakhtan
			619/2	00-03-00	Gair Mumkin Sadak
			617/2	00-16-73	Charagah Drakhtan
			617/3	00-03-24	Charagah Drakhtan
			617/4	00-10-71	Charagah Drakhtan
			712/640/2	00-49-87	Charagah Drakhtan
			616/2	00-03-32	Charagah Drakhtan
			Kita=12	01-55-06	
		Rumahan	38/2	00-18-85	Charagah Drakhtan
			35/2	00-22-80	Charagah Drakhtan
			35/3	00-03-24	Charagah Drakhtan
			35/4	00-06-50	Charagah Drakhtan
			34/2	00-32-27	Charagah Drakhtan
			Kita=05	00-83-66	
		Kanda	679/1	00-02-88	Gair Mumkin Nallah
			443/1	00-04-40	Gair Mumkin Nallah
			442/1	00-01-54	Gair Mumkin Sadak
			709/1	00-02-45	Gair Mumkin Nallah
			Kita=04	00-11-27	
		Gumma	87/2	00-01-00	Charagah Drakhtan
			87/3	00-03-24	Charagah Drakhtan
			87/4	00-02-93	Charagah Drakhtan

	Maanar	89/2	00-02-39	Charagah Drakhtan
		99/2	00-00-91	Gair Mumkin Sadak
		Kita=05	00-10-47	
		26/1	00-03-24	Charagah Drakhtan
		26/2	00-27-00	Charagah Drakhtan
		26/3	00-03-24	Charagah Drakhtan
		26/4	00-18-13	Charagah Drakhtan
		39/1	00-24-66	Charagah Drakhtan
		39/3	00-83-98	Charagah Drakhtan
		41/1	00-08-85	Gair Mumkin Khud
	Ratanpur	41/2	00-06-90	Gair Mumkin Khud
		1/1	00-01-80	Gair Mumkin Nallah
		Kita=09	01-77-80	
		89/1	00-07-65	Charagah Drakhtan
		98/1	00-02-70	Gair Mumkin Khud
		40/1	00-13-74	Charagah Drakhtan
		1/1	00-03-78	Gair Mumkin Khud
		3/1	00-00-31	Kayar Awal
		Kita=05	00-28-18	
		Grand Total=	08-29-32	

Deputy Commissioner,
Solima (H.P.)-171001
Shimla.