

DUMPING CAPACITY PLAN

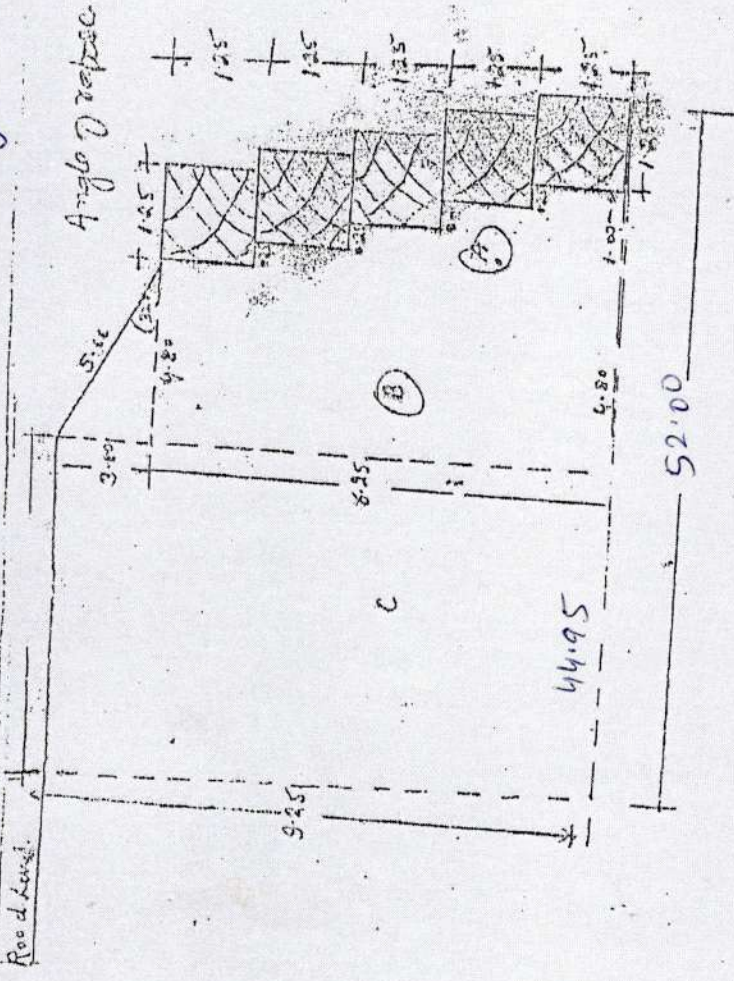
Name of work : C/o Sheel Thachali Soyal Bagna road km. R.D. 0/0 to 6/685.

Sl. No.	Dumping site No.	R.D.	Designj annexed Yes/No.	Capacity (in cum)
1	Dhanot	1/555 to 1/655	D1	45612.00
2	Dhanot	2/080 to 2/180	D2	45612.00
3	Dhanot	5/230 to 5/270	D3	13804.80
			TOTAL	105028.80


 Assistant Engineer,
 Shallu Sub Divn.
 HPPWD Nerwa


 (Er. Rakesh Thakur).
 Executive Engineer,
 Chopal Division,
 HPPWD Chopal.

NAME OF WORK: C/o Shree Thachali Soyal Bagra road km. o/o to 6/685.



TOTAL CAPACITY OF DUMPING PLACE:

$$A = 0.25 \times 1.00 \times 5.00 = 3.13 \text{ m}^3$$

$$B = 4.80 \times 6.25 \times \frac{1}{2} \times 4.80 \times 3.00 = 37.20 \text{ m}^3$$

$$C = 44.95 \times 9.25 = 415.79 \text{ m}^3$$

$$\text{Total} = 456.12 \text{ m}^3$$

$$= 456.12 \times 100.00 \times 2 = 91224.00$$

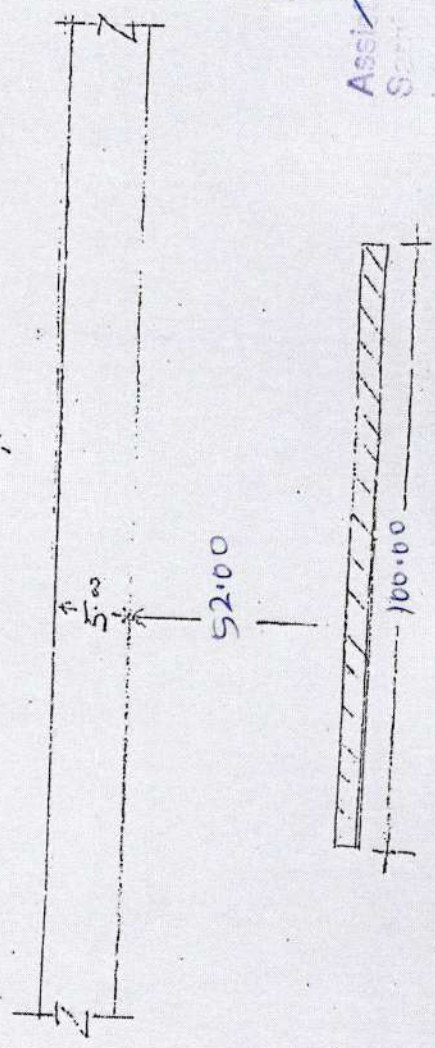
AREA OF DUMPING PLACE D1 & D2

$$= 100 \times 52 \times 2 = 10400 \text{ Sqm.}$$

On 01-04-00 Hecdar

$$\text{Main Chute} = 5 \times 30 \times 4 \times 2.50 \times 1.25 = 1250.00 \text{ m}^3$$

$$\text{Boulder} = 5 \times 5000 \times 2.5 \times 1.25 = 390.63 \text{ m}^3 \times 1 = 390.63 \text{ m}^3$$

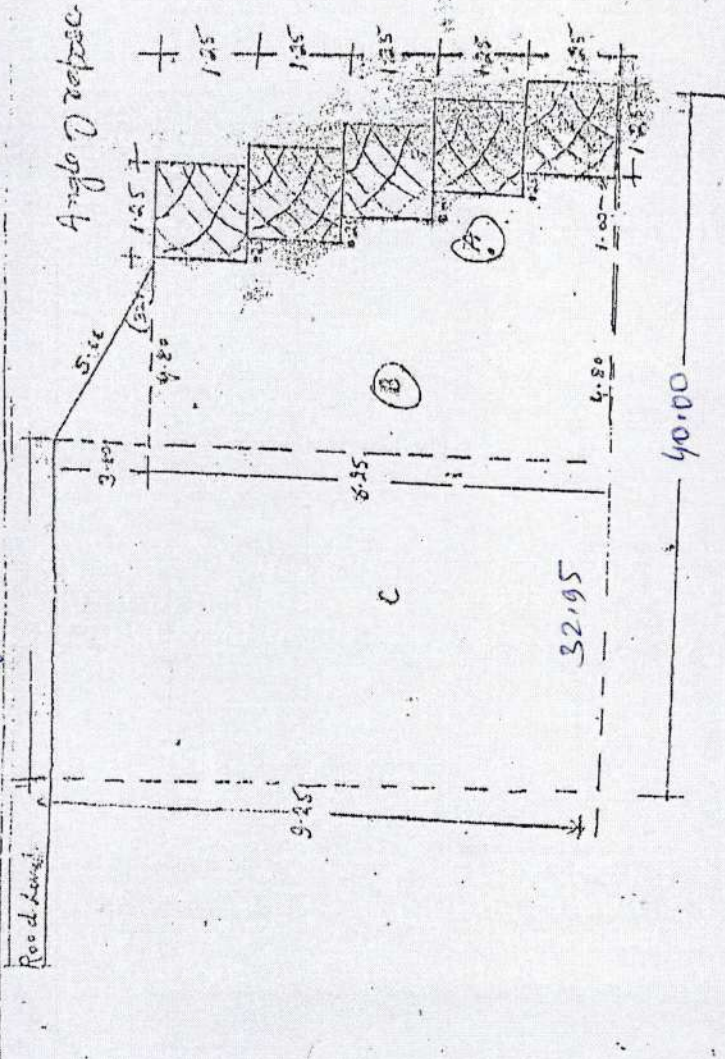


Executive Engineer
B&R Division
PPWD Chopal

Assistant Engineer
B&R Division

PLAN

NAME OF WORK: c/o Shree Thachali Sogal Bagma road km. 0/0 to 6/855.



TOTAL CAPACITY OF DRAINING PLACE:

$$A = 0.25 \times 1.00 \times 5.00 = 3.13 \text{ m}^2$$

$$B = 4.80 \times 6.25 + \frac{1}{2} \times 4.80 \times 3.00 = 37.20 \text{ m}^2$$

$$C = 32.95 \times 9.25 = 304.79 \text{ m}^2$$

$$\text{Total} = 345.12 \text{ m}^2$$

$$= 345.12 \times 40.00 = 13804.80 \text{ m}^3$$

AREA OF DRAINING PLACE - D3

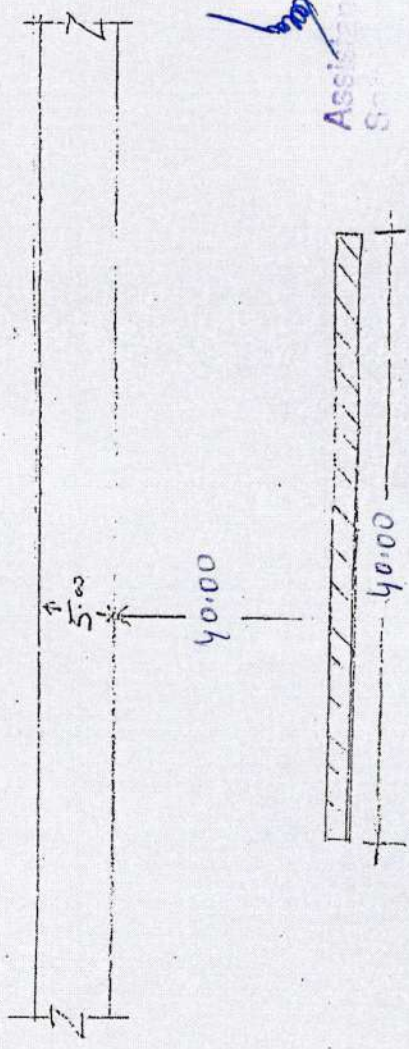
$$40.00 \times 40.00 = 1600.00 \text{ sqm}$$

Or 20-16-00 Hectar

$$\text{Water Charge} = 5 \times 30 \times 4 \times 2.5 \times 1.25 = 1250.00 \text{ m}^3$$

$$\text{Boulder} = 5 \times 5000 \times 2.5 \times 1.25 = 390.63 \text{ m}^3 \times 1 = 390.63 \text{ m}^3$$

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Executive Engineer
B&R Division
MRPWD Chopal

Assistant Engineer
B&R Division

PLAN

ABSTRACT OF COST

Name of work : C/o Sheel Thachali Soyai Bagna road km. R.D. 0/0 to 6/685

Sl. No.	Description of item	Qty.	Rate	Unit	Amount
1	Earth work in excavation for structure as per drawing and technical specification cluses 305.1 including setting out, construction of shoring and bracing removal of stumps and other deleterious material in ordinary rock using manual means including loading in a truck and carrying of excavated material including carriage of all labour, material and disposal upto a lead of 50 mtr dressing of sides and bottom and back filling in trenches with excavated suitable material equipments to various location through all modes of transportation as per HPPWD specification 1990 vol.I and as per direction of Engineer in Charge at site in all leads and lifts.	75.00	165.00	Per cubic metre.	12375.00
2	Providing and laying of boulder apron laid in wire crate with 4mm dia conforming to IS 280 and 48.26 mesh design including joints laid in boulder weighing not less than 25 kg each as per drawing and dtechnical specification clause 1301 including carriage of all labour, material and equipments to various location through all modes of transportation as per HPPWD specification 1990 vol.I and as per direction of Engineer in Charge at site in all leads and lifts.	375.00	2250.00	Per cubic metre.	843750.00
				TOTAL	856125.00

Says Rs. 8,56,125/-


Assistant Engineer,
Shalla Sub Divn.
HPPWD Nerwa


(Er. Rakesh Thakur)
Executive Engineer,
Chopal Divn. HPPWD Chopal.

Detail of Measurement

Name of work :

C/o Sheel Thachali Soyol Bagna road km. R.D. 0/0 to 6/685

Sl. No.	Description of items	No.	L	B	H	Qty.
1	Earth work in excavation for structure as per drawing and technical specification cluses 305.1 including setting out, construction of shoring and bracing removal of stumps and other deleterious material in ordinary rock using manual means.					
	D1, D2	(2 x 100)	x	1.25	x	0.25 = 62.50
	D3	(1 x 40)	x	1.25	x	0.25 = 12.50
	TOTAL					75.00
2	Providing and laying of boulder apron laid in wire crate with 4mm dia conforming to IS 280 and 48.26 mesh design including joints laid in boulder weighing not less than 25 kg each as per drawing and dtechnical specification clause 1301.					
	D1, D2	1 x (2 x 100)	x	1.25	x	1.25 = 312.50
	D3	1 x (1 x 40)	x	1.25	x	1.25 = 62.50
	TOTAL					375.00


 Assistant Engineer,
 Shahu Sub Divn.
 HPPWD Nerwa


 (Er. Rakesh Thakur)
 Executive Engineer,
 Chopal Divn. HPPWD Chopal

Villages to be benefitted from the construction of road.

Name of Gram Panchayat: G.P. Chayin Chopra

Name of work :

Sl. No.	Name of village	Village code	Population
①	Dhanot	025593	241
②	Lakkhawali (Nooli Sheel)	025592	427

Secretary,

Gram Panchayat

28/10/2021

चौपाल जिला शिमला

Villages to be benefitted from the construction of road.

Name of Gram Panchayat: Chand log Nerung

Name of work :

Sl. No.	Name of village	Village code	Population
1	लोयल	174 025 778	174
2	दायल	243 025 777	243
3	कालर	192 025 780	192

Secretary,
Gram Panchayat

गाम पंचायत नेरुंग
पो. खो चौपाल, जिला शिमला

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Checklist No. 31

Title of the Project:- C/o Sheel Thachali Soyol Bagna road km. R.D. 0/0 to 6/685.

Total Length of the Road	:-	6.685 Kms
Length of Road passing through Forest Area	:-	4.110 Kms
Length of Road passing through Non-Forest Area	:-	2.575 Kms
Width of the Road	:-	5/7 Mtrs (Avg. Width 6.00 Mtrs)

(Er. Rakesh Thakur)
Executive Engineer,
Chopal Division,
HPPWD Chopal.

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LIST OF ENUMARATED TREES IN ROAD ALIGNMENT C/O ROAD FROM LALPANI
THACLI SOYAL ROAD KM. R.D. 0/0 TO 6/300

Sr.No.	R/D No.	Khasra No.	Spp.	Dia.	Class	Remarks
1.	0/090 to 0/300	187/1	Chil	42-43	IIA	G/S
2.			--do--	41-42	IIA	--do--
3.			--do--	30-31	III	--do--
4.			--do--	41-42	IIA	--do--
5.			--do--	49-50	IIA	--do--
6.			--do--	39-40	III	--do--
7.			--do--	47-48	IIA	--do--
8.			--do--	28-29	IV	--do--
9.			--do--	34-35	III	--do--
10.			--do--	32-33	III	--do--
11.			--do--	33-34	III	--do--
12.			--do--	24-25	IV	--do--
13.			Kail	22-23	IV	--do--
14.			Chil	42-43	IIA	--do--
15.			--do--	45-46	IIA	--do--
16.	0/300 to 0/330	308/1	Chir	73-74	IB	--do--
17.			--do--	49-50	IIA	--do--
18.			--do--	44-45	IIA	--do--
19.	0/330 to 0/525	355/1	--do--	74-75	IB	--do--
20.			--do--	29-30	IV	--do--
21.			--do--	49-50	IIA	--do--
22.			--do--	73-74	IB	--do--
23.			--do--	44-45	IIA	--do--
24.			--do--	51-52	IIB	--do--
25.	0/525 to 0/645	356/1	--do--	65-66	IA	--do--
26.			--do--	44-45	IIA	--do--
27.			--do--	57-58	IIB	--do--
28.			--do--	24-25	IV	--do--
29.			--do--	57-58	IIB	--do--
30.			--do--	24-25	IV	--do--
31.	1/090 to 1/230	425/1	--do--	30-31	III	--do--

68.			--do--	36-37	III	--do--
69.			--do--	30-31	III	--do--
70.			--do--	28-29	IV	--do--
71.			--do--	31-32	III	--do--
72.			--do--	29-30	IV	--do--
73.			--do--	24-25	IV	--do--
74.			--do--	26-27	IV	--do--
75.			--do--	26-27	IV	--do--
76.			--do--	24-25	IV	--do--
77.			--do--	25-26	IV	--do--
78.			--do--	28-29	IV	--do--
79.			--do--	71-72	IB	--do--
80.	1/655 to 1/700	438/1	--do--	82-83	IC	--do--
81.			--do--	44-45	IIA	--do--
82.			--do--	67-68	IA	--do--
83.			--do--	67-68	IA	--do--
84.	1/880 to 2/260	453/1	--do--	24-25	IV	--do--
85.			--do--	80-81	IC	--do--
86.			--do--	70-71	IB	--do--
87.			--do--	24-25	IV	--do--
88.			--do--	55-56	IIB	--do--
89.	2/280 to 2/620	355/2	--do--	70-71	IB	--do--
90.			--do--	75-76	IB	--do--
91.			--do--	64-65	IA	--do--
92.			--do--	62-63	IA	--do--
93.			--do--	55-56	IIB	--do--
94.			--do--	54-55	IIB	--do--
95.			--do--	41-42	IIA	--do--
96.			--do--	43-44	IIA	--do--
97.			--do--	51-52	IIB	--do--
98.			--do--	53-54	IIB	--do--
99.			--do--	41-42	IIA	--do--
100.	2/620 to 2/630	308/2	--do--	55-56	IIB	--do--
101.			--do--	44-45	IIA	--do--
102.			--do--	39-40	III	--do--
103.			--do--	41-42	IIA	--do--

140.			--do--	31-32	III	--do--
141.			--do--	35-36	III	--do--
142.			--do--	55-56	IIB	--do--
143.			--do--	40-41	IIA	--do--
144.			--do--	31-32	III	--do--
145.			--do--	25-26	IV	--do--
146.			--do--	29-30	IV	--do--
147.			--do--	54-55	IIB	--do--
148.			--do--	40-41	IIA	--do--
149.	5/830 to 6/210	237	--do--	37-38	III	--do--
150.			--do--	28-29	IV	--do--
151.			Deo	37-38	III	--do--
152.	6/210 to 6/300	236/1	Chil	30-31	III	--do--
153.			Deo	28-29	IV	--do--
154.			--do--	27-28	IV	--do--
155.			Chil	54-55	IIB	--do--
156.			Kail	23-24	IV	--do--
157.			--do--	25-26	IV	--do--
158.			Deo	40-41	IIA	--do--
159.			--do--	27-28	IV	--do--
160.			--do--	29-30	IV	--do--
161.			--do--	40-41	IIA	--do--
162.			--do--	44-45	IIA	--do--
163.			--do--	47-48	IIA	--do--
164.			--do--	44-45	IIA	--do--

Abstract

Sr. No.	SPP.	Class								Total Trees	Total Volume (m3)
		IV	III	IIA	IIB	IA	IB	IC			
1	Chil	35	36	44	18	08	07	03	151	197.879	
2	Deodar	04	01	05	00	00	00	00	10	10.526	
3	Kail	03	00	00	00	00	00	00	03	0.855	
Total =									164	209.26	

Range Forest Officer
Nerwa Forest Range

Deputy Conservator of Forests
Chopal Forest Division

Chander Shekhawat
Fgt
H/C Bagnat
Beet

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Name of Work: -

Diversion of 03.9850 hectare of Forest land in favour of HPPWD for the construction of road from Sheel Thachali Soyab Bagna road Km. 0/0 to 6/685, within the jurisdiction of Chopal Forest Division Distt. Shimla HP.

CERTIFICATE

That the proposed road from **Sheel Thachali Soyab Bagna road** is at a aerial distance of 14 km. from Eco sensitive zone Talra wildlife sanctuary and 12 km from the boundary of proposed Eco sensitive zone of Churdhar Wildlife sanctuary.

That the road from **Sheel Thachali Soyab Bagna road** does not fall within the proposed Eco sensitive zone of Talra and Eco sensitive zone Churdhar wildlife sanctuary.

That the proposed road is an offshoot road from **Sheel Thachali Soyab Bagna road**.

The construction of the said road from **Sheel Thachali Soyab Bagna road** shall not pose any kind of danger to the wildlife or its habitat of the area.

Therefore, the case is recommended from wildlife point of view as it is perceived that present construction of the proposed road shall have no adverse impact on the wildlife.


Divisional Forest Officer
Chopal Forest Division Chopal

Check List Serial Number 31(a)

JOINT INSPECTION REPORT

Name of Project : **C/o Sheel Thachali Soyol Bagna road km. R.D. 0/0 to 6/685.**

The detail of the land comparing their Khasra No. and areas of forest and private is as under:-

Forest Khasra No.

$\frac{187}{1}$	$\frac{308}{1}$	$\frac{355}{1}$	$\frac{356}{1}$	$\frac{365}{1}$	$\frac{376}{1}$	$\frac{425}{1}$	$\frac{1}{1}$	$\frac{425}{2}$	$\frac{438}{1}$
$\frac{441}{1}$	$\frac{438}{2}$	$\frac{441}{2}$	$\frac{453}{1}$	$\frac{356}{2}$	$\frac{355}{2}$	$\frac{308}{2}$	$\frac{187}{1}$	$\frac{188}{1}$	$\frac{189}{1}$
$\frac{187}{3}$	$\frac{308}{3}$	$\frac{355}{3}$	$\frac{308}{4}$	$\frac{187}{4}$	$\frac{244}{1}$	$\frac{243}{1}$	$\frac{238}{1}$	$\frac{239}{1}$	$\frac{243}{2}$
$\frac{241}{1}$	$\frac{263}{1}$	$\frac{264}{1}$	$\frac{265}{1}$	$\frac{267}{1}$	$\frac{276}{1}$	$\frac{308}{5}$	$\frac{355}{4}$	$\frac{355}{5}$	$\frac{257}{1}$
$\frac{249}{1}$	$\frac{236}{1}$	$\frac{425}{3}$	$\frac{453}{2}$	$\frac{355}{6}$	= 45 kitta				

Private Kh. No.

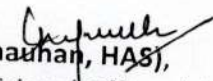
$\frac{163}{1}$	$\frac{366}{1}$	$\frac{367}{1}$	$\frac{368}{1}$	$\frac{372}{1}$	$\frac{442}{1}$	$\frac{190}{1}$	192	$\frac{512}{194}$ 1	$\frac{201}{1}$
$\frac{513}{194}$ 1	$\frac{516}{204}$	$\frac{203}{1}$	$\frac{229}{1}$	$\frac{227}{1}$	$\frac{222}{1}$	$\frac{221}{1}$	$\frac{222}{2}$	$\frac{232}{1}$	$\frac{231}{1}$
$\frac{242}{1}$	$\frac{258}{1}$	$\frac{521}{279}$	$\frac{280}{1}$	$\frac{282}{1}$	$\frac{519}{256}$	$\frac{306}{1}$	$\frac{307}{1}$	$\frac{258}{1}$	$\frac{250}{1}$
237	$\frac{272}{1}$	=32 Kitta							

The joint inspection of the proposed diversion of land for the construction of above road was conducted on **11.06.2020**. The following functionaries were present during the joint inspection.

1. **Sh. Sourabh, IFS Divisional Forest Officer, Forest Division Chopal;**
2. **Sh. Anil Chauhan, HAS, Sub Divisional Officer (C) Chopal Distt. Shimla**
3. **Er. K.S. Pal, Executive Engineer, Chopal Division HPPWD., Chopal.**

During joint inspection it was found that total length of the proposed road is **6.685 kms**. Total forest land to be diverted for this project is **03-93-50** hectare and **164** trees were enumerated in the proposed width required for the construction of this road. The proposed alignment passes through villages Dhanot, Kalara and Thachali. Out of total forest land measured, **02-78-50** hectare will be used for construction of **6.685 km**. road and **01-20-00** hectare in 3 Nos. muck dumping. There is **01-12-16** hectare private land involved in the road.

The joint inspection team explored the possibility and availability of private land as well as other alternatives to minimize the forest land to be diverted and **164** trees to be cut for construction of this road and found that no private land is available and no other alternate alignment were technically feasible to link village Thachali with main road (Sainj Chopal Nerwa Feeduj road). Hence joint inspection team came to the conclusion and consented upon that the alignment proposed by the User Agency and may be considered as final for the construction of Lalpani Thachali Soyal Bagna road km. R.D. 0/0 to 6/685.


(Anil Chauhan, HAS),
Sub Divisional Officer (C)
Chopal Distt. Shimla


(Sourabh) IFS
Divisional Forest Officer,
Forest Division Chopal


(Er. K. S. Pal)
Executive Engineer,
Chopal Division HPPWD.,
Chopal