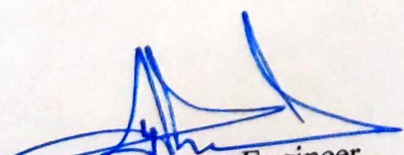
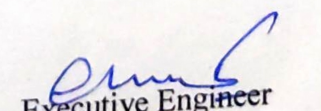


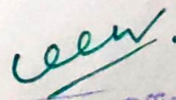
Muck Management Plan

Name of work: - Construction of Chillon to chowki mrigwal km 0/00 to 8/00

1.	Total quantity of muck to be generated from cutting	37051 m ³
2.	Deduction of useful stone as required under clause of agreement to be executed by the Executive Engineer of Project implementing Unit division on behalf of Govt. of H.P. for suing in the project.	5558 m ³
3.	Net balance quantity of debris/muck	31493 m ³
4.	Add quantity available on site with swell factor @ 25% on PW & JW	7873 m ³
	Total (A)	39366 m ³
5.	Less for materials required for dumping in behind R/wall etc. @10% of A	3937 m ³
6.	Less for materials required for levelling of proposed road @ 15% of A	5905 m ³
7.	Less materials/muck required for levelling/filling of road on the analogy of half cutting and half fittings @ 40% of A	15746 m ³
	Total (B)	25588 m ³
8.	Materials/Muck left at site which will require carriage for proper dumping into the recognized sites as per the illustration of forest and environment Ministry reinforced by various judgment of the Apex court Govt. of India i.e. (A-B)	13778 m ³
9.	Design proposed for dumping sites (attached)	4 Nos
10.	Total capacity of dumping sites as per details attached	14000 m ³
11.	Area in hectare for dumping sites.	0.16 hect.
	i. Forest area	0.00
	ii. Non forest	0.16 hect
	iii. Total	


Assistant Engineer
Sub Division Sataun
HPPWD SATAUN

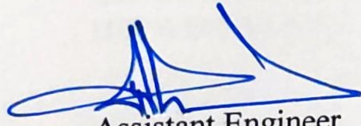

Executive Engineer
(B&R) Shillai Division
HPPWD SHILLAI

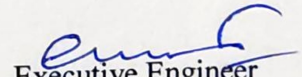

Divisional Forest Officer
Re. J. K. Forest Division,
G. S. S. J. Distt. Shimla

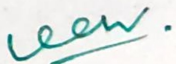
Details of dumping sites.

MUCK MANAGEMENT

SR. No	Name of dumping site	RD/KM	Area coming under dumping			Capacity of dumping sites.
			Forest area	Non Forest Area	Total	
1.	Dumping site NO. 1	0/000 to 0/000	0.04		0.04	3400
2	Dumping site NO. 2	2/690 to 2/710	0.04		0.04	3500
3	Dumping site NO. 3	3/680 to 3/700	0.04		0.04	3300
4	Dumping site NO. 4	3/780 to 3/800	0.04		0.04	3800
Total :-			0.16	0.00	0.16	14000



Assistant Engineer
Sub Division Sataun
HPPWD SATAUN

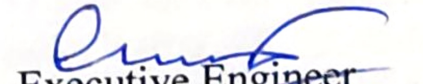

Executive Engineer
(B&R) Shillai Division
HPPWD SHILLAI



Divisional Forest Officer
Renuka Ji Forest Division,
Sri Renuka Ji Distt. Sirmour H

Detail showing the capacity of dumping sites.

Sr. No	Name of dumping site	RD/KM	X-sectional area of dumping site	Length	Quantity/ Capacity
1	Dumping site NO. 1	0/000 to 0/000	170 SQM	20	3400
2.	Dumping site NO. 2	2/690 to 2/710	175 SQM	20	3500
3 No. 3	Du mping site	3/680 to 3/700	165 SQM	20	3300
4	Dumping site NO. 4	3/780 to 3/800	190 SQM	20	3800
Total :-					14000 m3


 Assistant Engineer .
 Sub Division Sataun
 HPPWD SATAUN

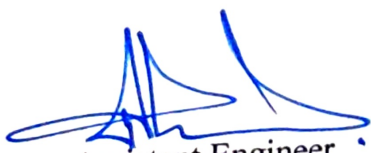

 Executive Engineer
 (B&R) Shillai Division
 HPPWD SHILLAI



 Divisional Forest Officer
 Renuka Ji Forest Division,
 Sri Renuka Ji Distt. Sirmour H.P.

Detail of Measurement

Name of work **Construction of Chillon to chowki mrigwal km 0/00 to 8/00 (SH: Construction of wire crates for dumping sites)**

Sr. NO	Description	No. L x B x H	Quantity in CUM
1	Providing and laying of boulder apron laid on wire crates with 4mm dia wire conforming to 1:5:280 and 1:5:4826 in 100mmx100mm mesh (woven diagonally) including 10% extra for lapse & joints laid with stone boulders weighing not less than 25 kg each. Dumping Site No. 1 RD. 0/000 to 0/000		
	1 st layer	1x20x2.70x1.20	64.80 M3
	2 nd layer	1x20x2.40x1.20	57.60 M3
	3 rd layer	1x20x2.10x1.20	50.40 M3
	4 th layer	1x20x1.80x1.20	43.20 M3
	5 th layer	1x20x1.50x1.20	36.00 M3
	Dumping site No. 2 RD 2/690 to 2/710		
	1 st layer	1x20x2.70x1.20	64.80 M3
	2 nd layer	1x20x2.40x1.20	57.60 M3
	3 rd layer	1x20x2.10x1.20	50.40 M3
	4 th layer	1x20x1.80x1.20	43.20 M3
	5 th layer	1x20x1.50x1.20	36.00 M3
	Dumping site No. 3 RD 3/680 to 3/700		
	1st layer	1x20x2.70x1.20	64.80 M3
	2 nd layer	1x20x2.40x1.20	57.60 M3
	3 rd layer	1x20x2.10x1.20	50.40 M3
	4 th layer	1x20x1.80x1.20	43.20 M3
	5th layer	1x20x1.50x1.20	36.00 M3
	Dumping site No. 4 RD 3/780 to 3/800		
	1st layer	1x20x1.50x1.20	64.80 M3
	2 nd layer	1x20x2.40x1.20	57.60 M3
	3 rd layer	1x20x2.10x1.20	50.40 M3
	4 th layer	1x20x1.80x1.20	43.20 M3
	5 th layer	1x20x1.50x1.20	36.00 M3
			1008.00 m3


Assistant Engineer
Sub Division Sataun
HPPWD SATAUN



Executive Engineer
(B&R) Shillai Division
HPPWD SHILLAI

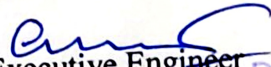

Divisional Forest Officer
Karnali Forest Division,
Sill Benuli Ji Distt. Sirmour.H.P.


ABSTRACT OF COST

Name of work:- Construction of Chillon to chowki mrigwal km 0/00 to 8/00 (SH:
Construction of wire crates for dumping sites)

Sr. NO	Sub Head and Item of work	Qty	Rate	Unit	Amount
1	Providing and laying of boulder apron laid on wire crates with 4mm dia wire confirming to 1:5:280 and 1:5:4826 in 100mmx100mm mesh (woven diagonally) including 10% extra for lapse & joints laid with stone "boulders weighing not less than 25 kg each	1008.00 cum	1857.10	Per Cum	1871957
Total :-					1871957


Assistant Engineer
Sub Division Sataun
HPPWD SATAUN



Executive Engineer
(B&R) Shillai Division
HPPWD SHILLAI



Divisional Forest Officer
Renuka Ji Forest Division,
Sri Renuka Ji Distt. Sirmour


PURPOSE WISE BREAK UPTO TOTAL LAND REQUIRED FOR
Construction of Chillon to chowki mrigwal km 0/00 to 8/00

SR. No	Description	Total land required (Hect)	Private Land required (Hect.)	Forest land required (hect).
1.	Construction of Chillon to chowki mrigwal km 0/00 to 8/00	1.92		
2	For dumping site RD. 1 0/000 to 0/000		---	0.04
3	For dumping site RD. 2 2/690 to 2/710		----	0.04
4	For dumping site RD. 3 3/680 to 3/700		----	0.04
5.	For dumping site RD. 4 3/780 to 3/800		----	0.04

Total land for road construction(i/c dumping sites) = 1.92 Hect.
Total land for dumping site = 0.16 Hect


Divisional Forest Officer,
Renuka Ji Forest
Division


Executive Engineer
(B&R) Shillai
Division

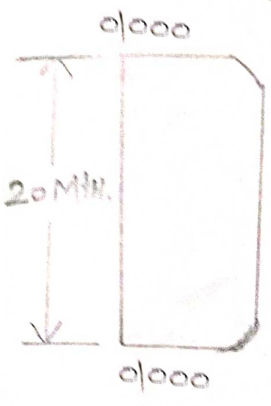

Divisional Forest Officer
Renuka Ji Forest Division
Sri Renuka Ji Distt. Sirmo

Division of 1.92 HA. of Forest land in favour of H.P.P.W.D for the
 010 chillers to chokimisingwal km 010 to 010 within the jurisdiction
 of Renukaji Forest Division in District - Shimour, Himachal Pradesh.

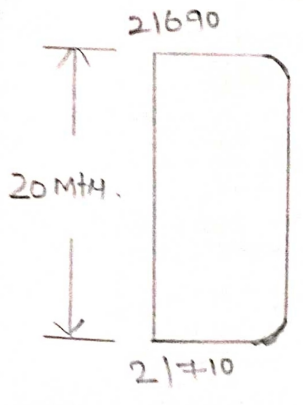
RECLAMATION PLAN

Dumping Site No. 1

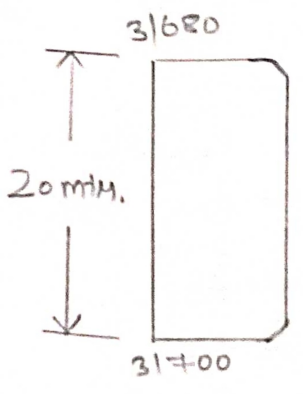
RN 01000 to 01000



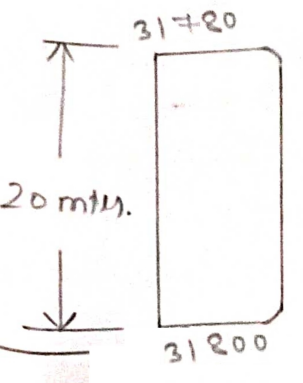
Dumping Site No-2



Dumping site No-3



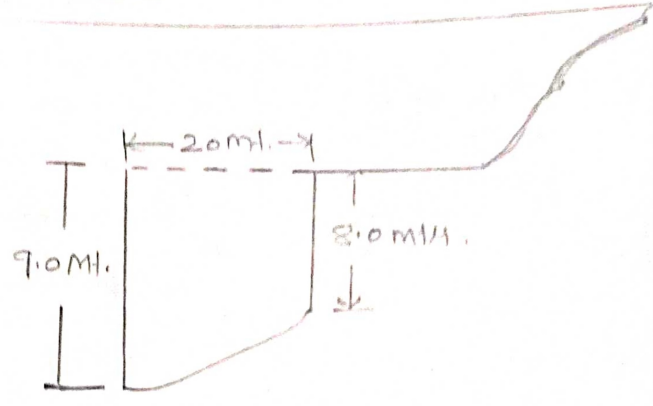
Dumping Site No-4



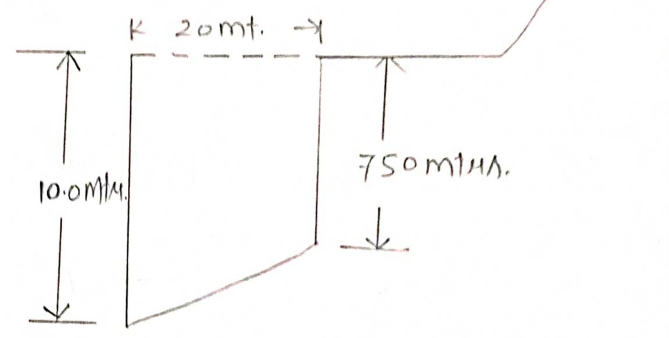
[Signature]
 Executive Engineer
 Shillai (B & R) Division
 H.P.P.W.D. Shillai

[Signature]
 ASSISTANT ENGINEER
 SATAUN SUB DIVISION
 H.P.P.W.D. SATAUN

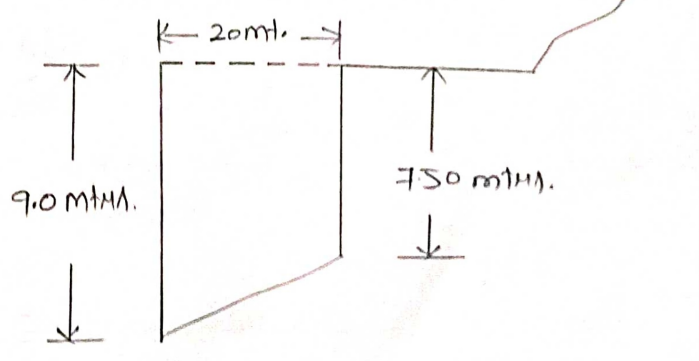
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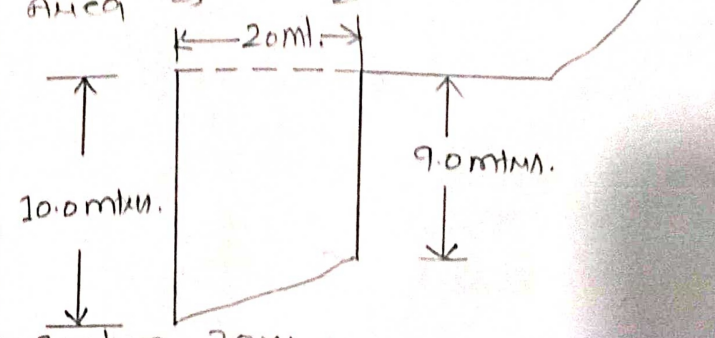
X-section Area $\Rightarrow 20 \times \frac{7+8}{2} = 170 m^2$



X-section Area $\Rightarrow 20 \times \frac{10+7.5}{2} = 175 m^2$



X-section Area $\Rightarrow 20 \times \frac{9+7.5}{2} = 165 m^2$



X-section Area $\Rightarrow 20 \times \frac{10+9}{2} = 190 m^2$