

**RECLAMATION PLAN
FOR GARAN KASOL (5 MW)**

The construction of this project will generate muck to the extent of 17384 **Cubic Metre**. By taking a swell factor of **40% on Pick+Jumper work** the total muck become 24337 **cubic metre** (Detail in table below) Out of this 10952 **cubic metre** of muck will be used locally in filling, construction of masonry walls in dumping place and in levelling of road. The remaining 13385 **Cubic metre** of muck will require safe disposal. The user agency has identified 10 **No.** dumping sites having aggregate area 4770 square meter for the disposal of this muck. These dumping sites have been identified along the proposed site and the capacity of these dumping sites has been worked out to be 21465 **cubic metre** (considering 4.5 meter average height of muck in the dumping area, details at page -----) which is sufficient to hold the muck to be generated.

Dumping sites for different components of the project have been identified with due consideration of its distance from the component, suitability of the area and Topography point of view.

Accordingly the following sites have been identified

Sr. No.	Description	Component	Location	Khasra No.	Area
1.	DA-I	Trench Weir, Intake,Feeder channel			120 sq.m
2.	DA-II	Feeder channel,Desilting tank			180 sq.m
3.	DA -III	Desilting tank,Power channel,Silt gutter,Tunnel			800 sq.m
4.	DA-IV	Tunnel,Adit			800 sq.m
5.	DA-V	Forebay, Tunnel			600 sq.m
6.	DA-VI	forebay			60sq.m
7.	DA-VII	forebay			60 sq.m
8.	DA-VIII	forebay			600 sq.m
9.	RD-I	Tunnel,Powerhouse			750 sq.m
10.	RD-II	Powerhouse,Tail Race			800 sq.m
				Total =	4770 sq.m

Rehabilitation Proposal

Since there is no displacement of any population due to the construction of the project there will be no rehabilitation problem.

Afforestation

Compensatory afforestation shall be carried out by the forest department for which compensation shall be paid by the user agency. Area to be taken for afforestation shall be twice the forest land required for the construction of project.

For Garhan Kasol Hydro Project
Ruchin
Authorised Signatory

Divisional Forest Officer
Parvati Forest Division
Shamsht

Retaining walls

RR Masonry/GI Wire crate filled with boulders/ stones reclaimed from excavation of various project components shall be used for construction of retaining walls for retaining the surplus excavated earth / muck as per standard design of HPPWD with due consideration to site condition.

Use of muck/debris

Most of the excavation muck/debris obtained from the project components shall be used for manufacture of aggregates for construction work, filling in wire creates, stone masonry works breast wall, switchyard, etc. The remaining muck/ debris will be neatly stacked in dumping areas identified for the purpose.

Plantation

The dumping area and various sties shall be properly leveled after the completion of the project. The area will be landscaped the plantation carried out so as to merge with the natural surroundings.

MUCK DUMPING DETAIL OF GARAN KASOL SHEP (5 MW)

Name of Component	Location of Dumping	Slope of dumping place in degree	Qty. of muck generated (Cu. Mtr)	Qty. muck to used (Cu. Mtr)	Qty. of muck deposited (Cu. Mtr.)	Height of dumping expected in mtr.
Trench Weir, Intake, Feeder channel	MD-I	30°	540	243	415.8	4.5 m
Feeder channel, Desilting tank	MD-II	30°	810	364.5	623.7	4.5 m
Desilting tank, Power channel, Silt gutter, Tunnel	MD-III	30°	3600	1620	2772	4.5 m
Tunnel, Adit	MD-IV	30°	3600	1620	2772	4.5 m
Forebay, Tunnel	MD-V	30°	2700	1215	2079	4.5 m
forebay	MD-VI	30 °	270	121.5	207.9	4.5 m
forebay	MD-VII	28 °	270	121.5	207.9	4.5 m
forebay	MD-VIII	28°	2700	1215	2079	4.5 m
Tunnel, Powerhouse	RD-1	30 °	3375	1518.75	2598.75	4.5 m
Powerhouse, Tail Race	RD-2	30 °	3600	1620	2772	4.5 m

For Garhan Kasol Hydro Project

Ruchi
Authorised Signatory

Divisional Forest Officer
Parvati Forest Division
Shamsaji

Sr. No	Description	Khasra no.	Area in Sqm	Height	Qty. in Cu.m
1	MD-I		120 sq.m	4.5 m	540
2	MD-II		180 sq.m	4.5 m	810
3	MD-III		800 sq.m	4.5 m	3600
4	MD-IV		800 sq.m	4.5 m	3600
5	MD-V		600 sq.m	4.5 m	2700
6	MD-VI		60sq.m	4.5 m	270
7	MD-VII		60 sq.m	4.5 m	270
8	MD-VIII		600 sq.m	4.5 m	2700
9	RD-1		750 sq.m	4.5 m	3375
10	RD-2		800 sq.m	4.5 m	3600
		Total	4770 sq.m = 0.477 lac.		17865 cu.m

C. G. S.
Forest Range Officer
Kasol Forest Range

For Graham K. no Project
D. S. Ch
 At. Signatory

Divisional Forest Officer
Parvati Forest Division
Shamsi

PROFORMA-III
Statement showing "Dumping places, Quality of Muck debris to be dumped" with other detail of GARAN KASOL SHEP (5 MW) Project in kullu. Himachal Pradesh State.


S. N O	Name of components from where muck debris is to be produced	Total Qty. of muck debris to be produced (cums)	Qty. of muck debris to be utilized locally	Qty. of Muck Debris to be dumped on compact basis	Factor of increase in vol. for dumping	Qty. of muck debris to be dumped on the basis on increase	Name of dumping place	Slope of dumping place	Location of dumping place village police station & near by road	Distance of dumping place from nearby river with name of river (Dst. in mtr)	Area of Dumping place with length & width	Area of Forest Land out of land in Col. In square meter	Height of Muck Debris Dump Expected VCL+ AREA MTRS)	Remarks
1.	Trench Weir, Intake, Feeder channel	540	243 (45%)	297	40%	415.8	MD-I	30°		3.2 m (above HFL)	120sq.m	120sq.m	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works
2	Feeder channel, Desilting tank	810	364.5 (45%)	445.5	40%	623.7	MD-II	30°		3.2 m (above HFL)	180sq.m	180sq.m	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works
3.	Desilting tank, Power channel, Silt gutter, Tunnel	3600	1620 (45%)	1980	40%	2772	MD-III	30°		4 m (above HFL)	800 sq.m	800 sq.m	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works

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8	forebay	2700	1215 (45%)	1485	40 %	2079	DA-VIII	28°	3 m (above HFL)	600 sq.m	600 sq.m	600 sq.m	4.5 m	backfilling and for protection works Maximum muck will be used for construction of Retaining structure backfilling and for protection works
9	Tunnel, Power house	3375	1518.75 (45%)	1856.25	40 %	2598.75	RD-I	30°	3 m (above HFL)	750 sq.m	750 sq.m	750 sq.m	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works
10	Powerhouse, Tail Race	3600	1620 (45%)	1980	40 %	2772	RD-II	30°	3 m (above HFL)	800 sq.m	800 sq.m	800 sq.m	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works

For Graham Kasol Hydro Project

 T. S. Fudhu
 Authorised Signatory


 Divisional Forest Officer
 Parvati Forest Division
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PROFORMA- V

Statement showing "Details of places for disposal of muck / debris of GARAN KASOL SHEP (5 MW)

S.No	NAME OF DUMPING PLACE	Location of dumping place i.e. village and khasra no.	Slope of dumpin g place	Length/ breadth (m)& area of dumping place (m2)	Qty.of muck debris to be dumped in m3	Height of dumping site Expected in Mtrs. executed in meters)	Remarks
1	MD-I		30°	120 sq.m	540	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works
2	MD-II		30°	180 sq.m	810	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works
3	MD-III		30°	800 sq.m	3600	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works
4	MD-IV		30°	800 sq.m	3600	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works
5	MD-V		30°	600 sq.m	2700	4.5 m	Maximum muck will be used for construction of Retaining structure backfilling and for protection works -----do-----

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 Private Forest Division
 Shimoga

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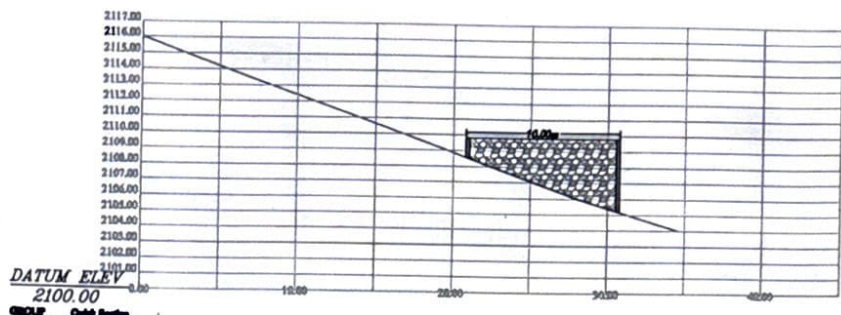
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6	MD-VI		30°	60sq.m	270	4.5 m	-----do-----
7	MD-VII		28°	60 sq.m	270	4.5 m	-----do-----
8	MD-VIII		28°	600 sq.m	2700	4.5 m	-----do-----
9	RD-1		30°	750 sq.m	3375	4.5 m	-----do-----
10	RD-2		30°	800 sq.m	3600	4.5 m	-----do-----

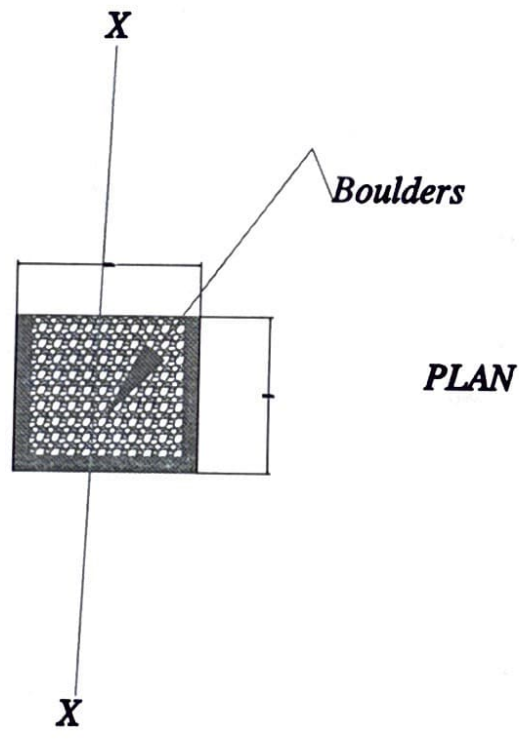
C. S.
 Forest Range Officer
 Kasol Forest Range

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 Divisional Forest Officer
 Parvati Forest Division
 Shimla

For Grahan Kasol Hydro Project
[Signature]
 Authorised Signatory



X-SECTION



PLAN

PARTICULAR	QUANTITY	UNIT
AREA	12.0X10.0 =120.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	540.0	CUM

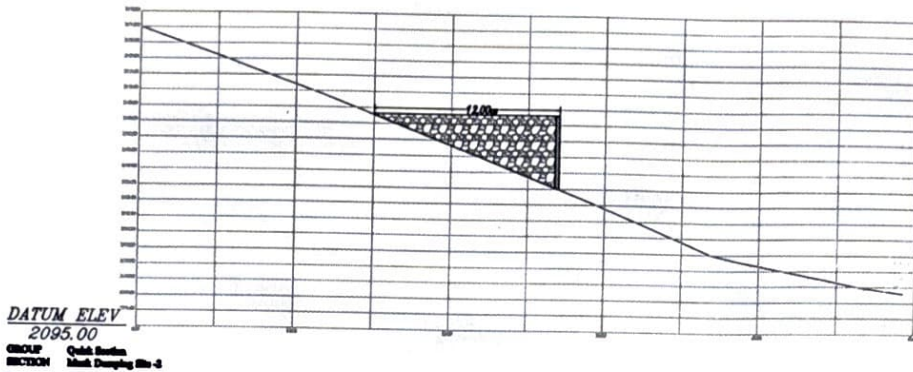
Muck Dumping Site -1

GARAN KASOL S.H.E.P. 5.00 MW.
TEH. & DISTT. KULLU (HP)

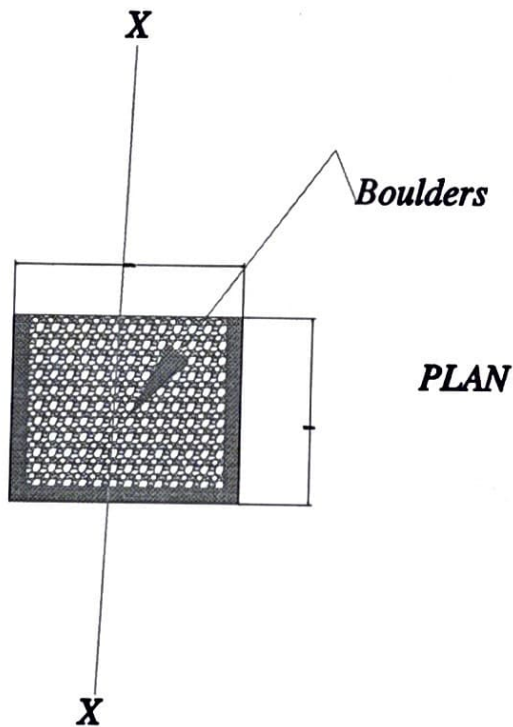
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Forest Range Officer
Kasol Forest Range

For Garhan Kasol Hydro Project
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Authorized Signatory

Divisional Forest Officer
Parvati Forest Division
Shamshi



X-SECTION



PARTICULAR	QUANTITY	UNIT
AREA	15.0X12.0 =180.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	810.0	CUM

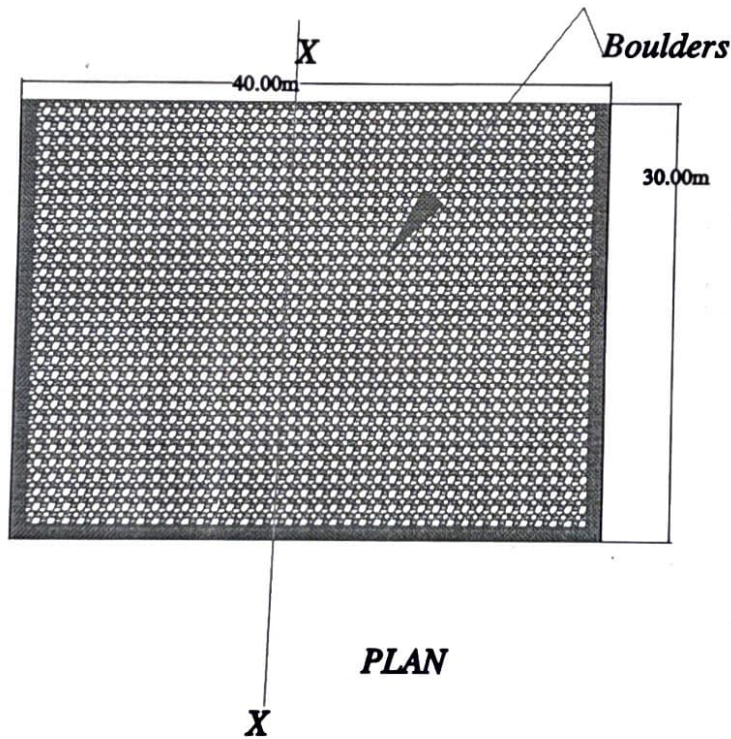
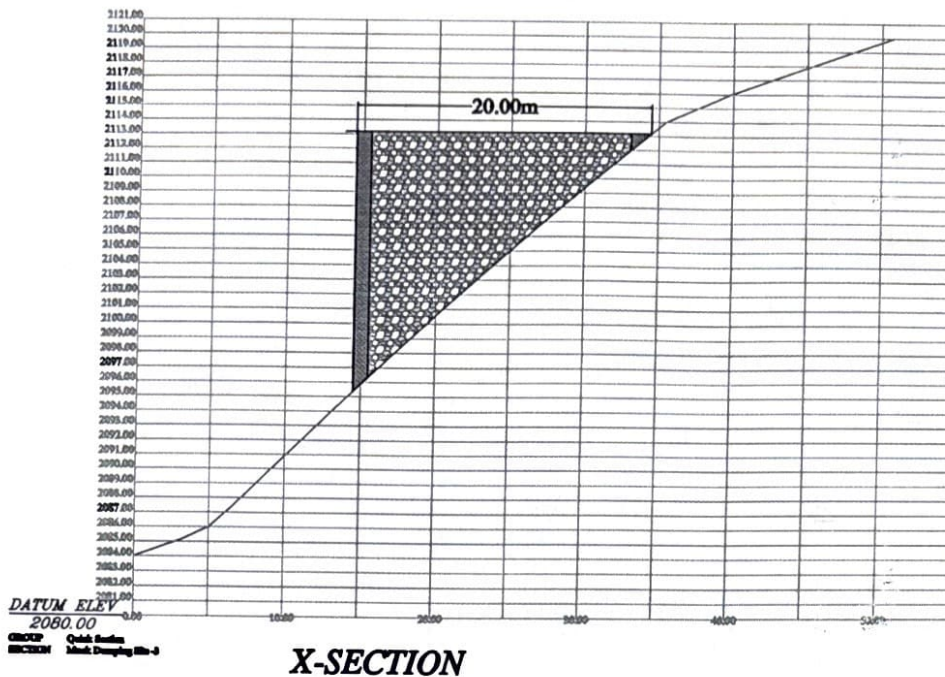
Muck Dumping Site -2

GARAN KASOL S.H.E.P. 5.00 MW.
TEH. & DISTT. KULLU (HP)

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Kasol Forest Range

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Shamshi



PARTICULAR	QUANTITY	UNIT
AREA	40.0X20.0 =800.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	3600.0	CUM

Muck Dumping Site -3

GARAN KASOL S.H.E.P. 5.00 MW.

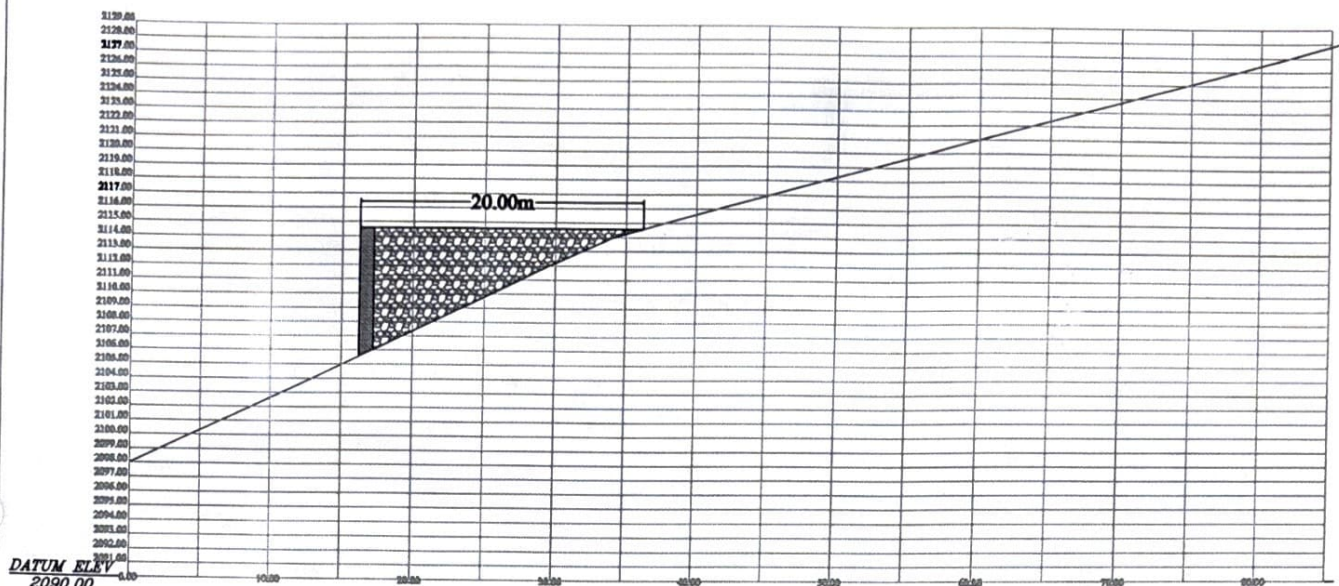
TEH. & DISTT. KULLU (HP)

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Shimla

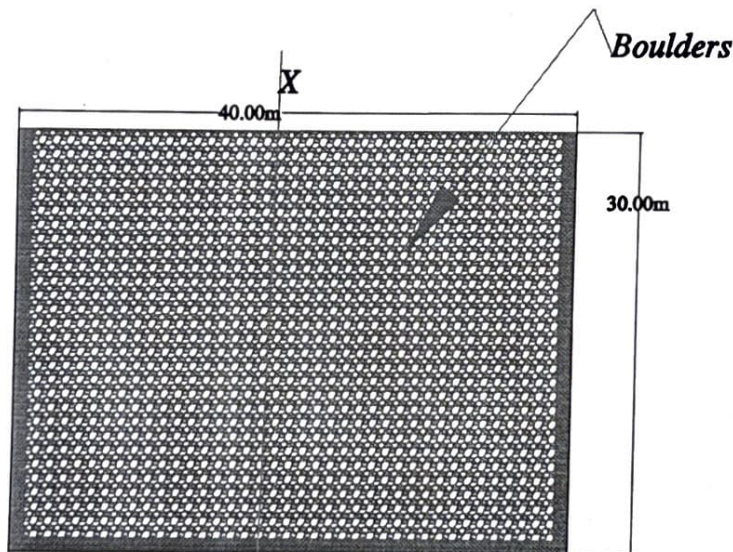
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Forest Range Officer
Kasol Forest Range



DATUM ELEV
2090.00
GROUP Quick Station
SECTION Muck Dumping Site-4

X-SECTION



PLAN

PARTICULAR	QUANTITY	UNIT
AREA	40.0X20.0 =800.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	3600.0	CUM

Muck Dumping Site -4

GARAN KASOLS.H.E.P. 5.00 MW.

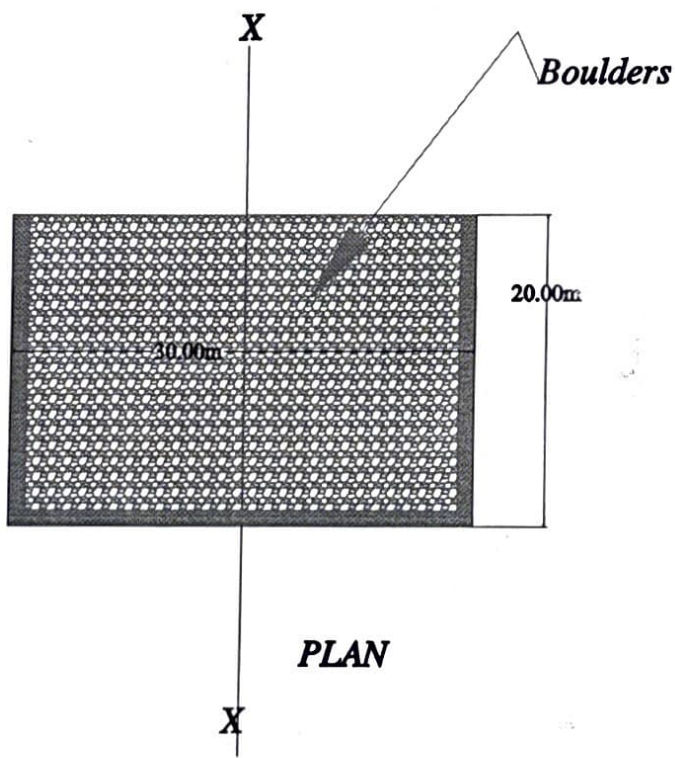
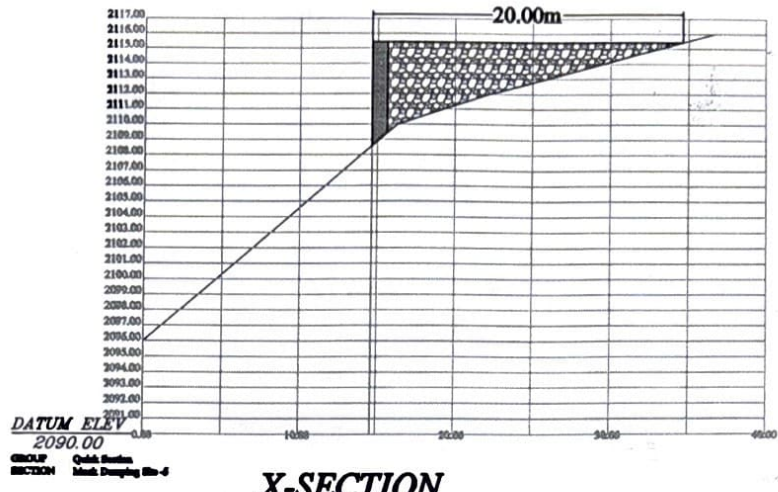
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Parvati Forest Division
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PARTICULAR	QUANTITY	UNIT
AREA	30.0X20.0 =600.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	2700.0	CUM

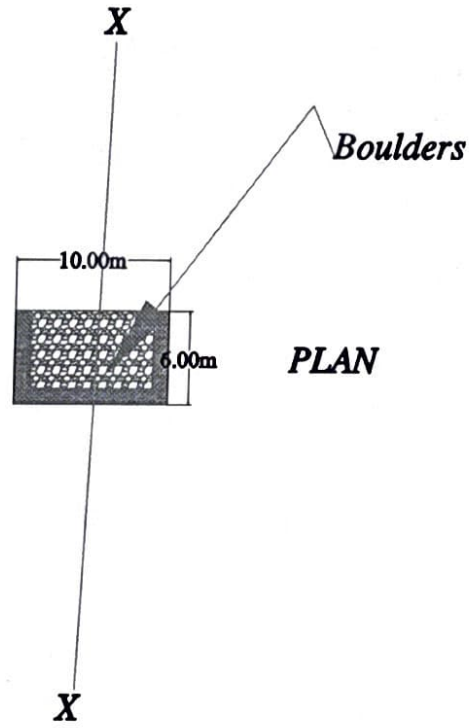
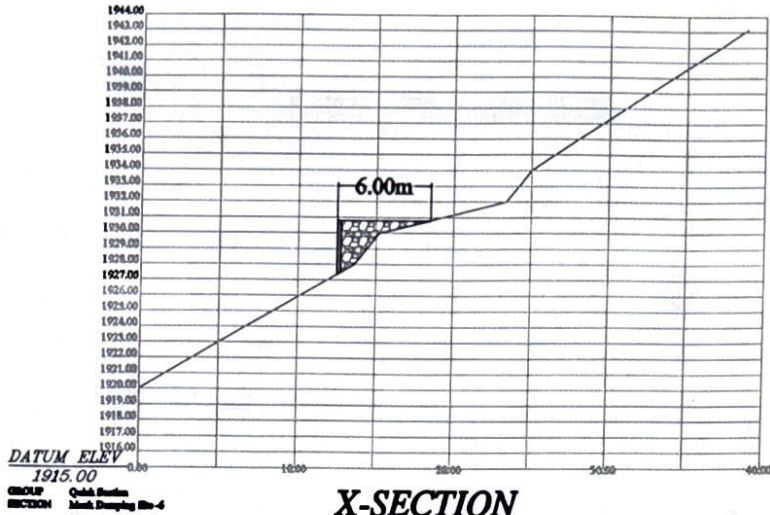
Muck Dumping Site -5

GARAN KASOL S.H.E.P. 5.00 MW.
TEH. & DISTT. KULLU (HP)

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Forest Range Officer
Kasol Forest Range

For Gharan Kasol Hydro Project
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Divisional Forest Officer
Parvati Forest Division
Shimla



PARTICULAR	QUANTITY	UNIT
AREA	10.0X6.0 =60.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	270.0	CUM

Muck Dumping Site -6

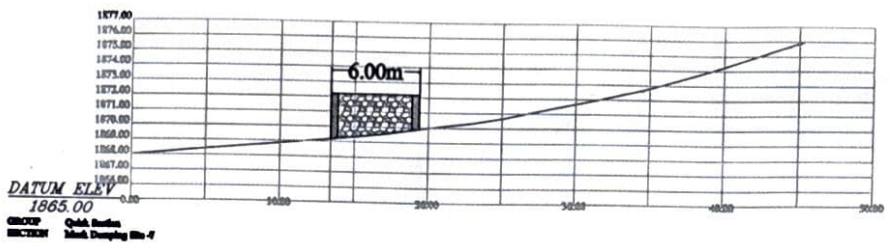
GARAN KASOL S.H.E.P. 5.00 MW.
TEH. & DISTT. KULLU (HP)

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Forest Range Officer
Kasol Forest Range

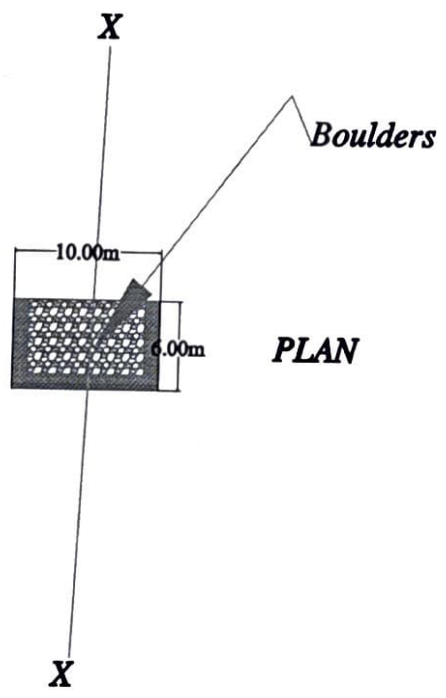
For Gharan Kasol Hydro Project
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Authorised Signatory

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Divisional Forest Officer
Parvati Forest Division
Shamshi

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X-SECTION



PLAN

PARTICULAR	QUANTITY	UNIT
AREA	10.0X6.0 =60.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	270.0	CUM

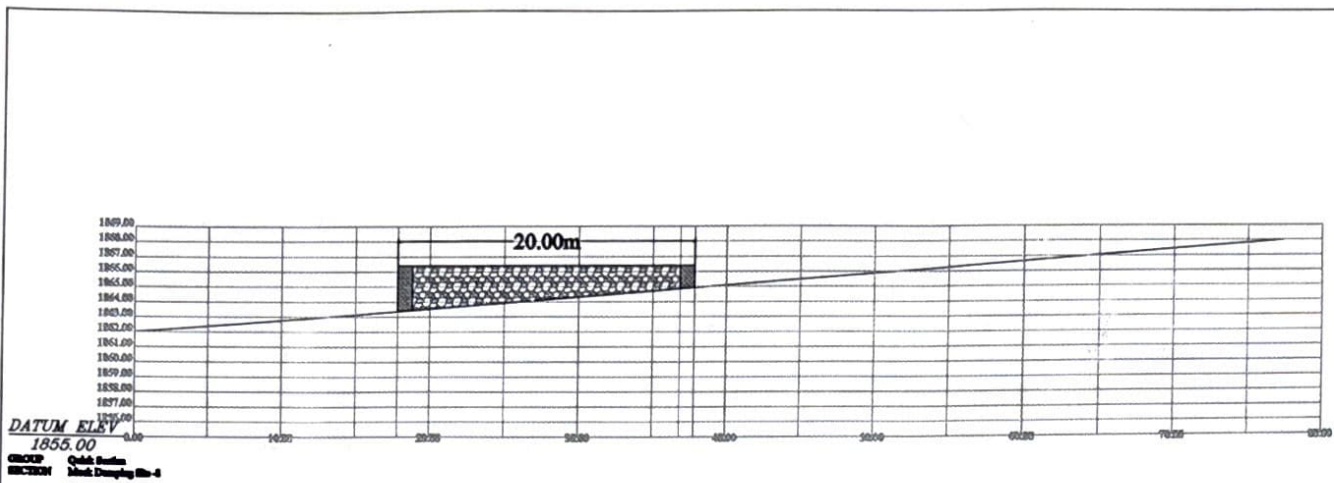
Muck Dumping Site -7
 GARAN KASOL S.H.E.P. 5.00 MW.
 TEH. & DISTT. KULLU (HP)

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 Forest Range Officer
 Kasol Forest Range

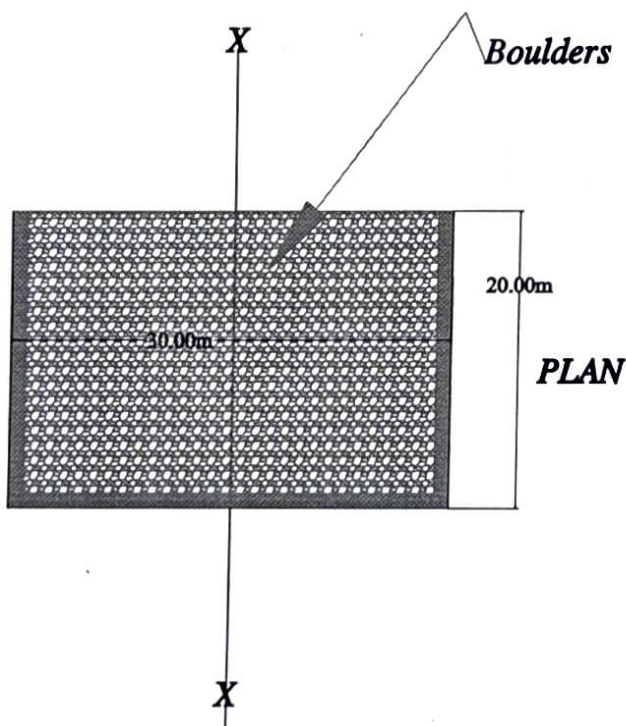
For Garhan Kasol Hydro Project
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 Divisional Forest Officer
 Parvati Forest Division
 Shimla

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X-SECTION



PARTICULAR	QUANTITY	UNIT
AREA	30.0X20.0 =600.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	2700.0	CUM

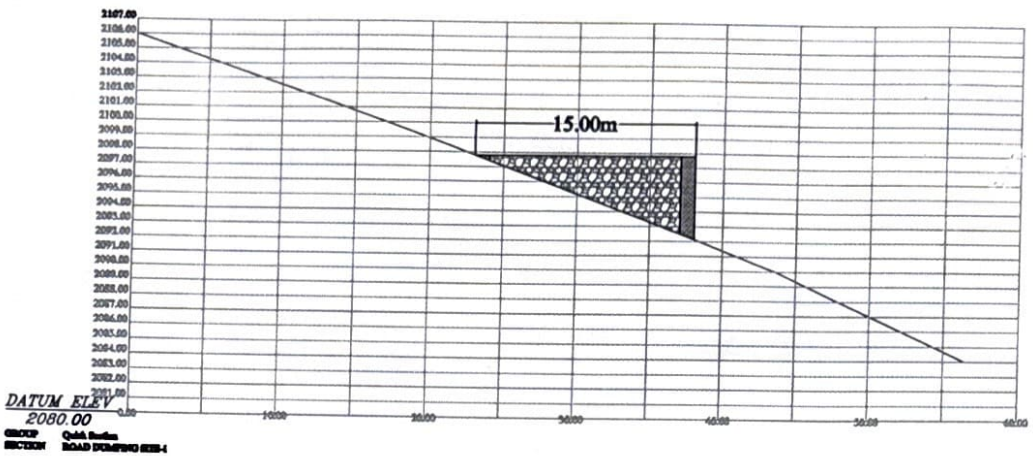
Muck Dumping Site -8

GARAN KASOLS.H.E.P. 5.00 MW.
TEH. & DISTT. KULLU (HP)

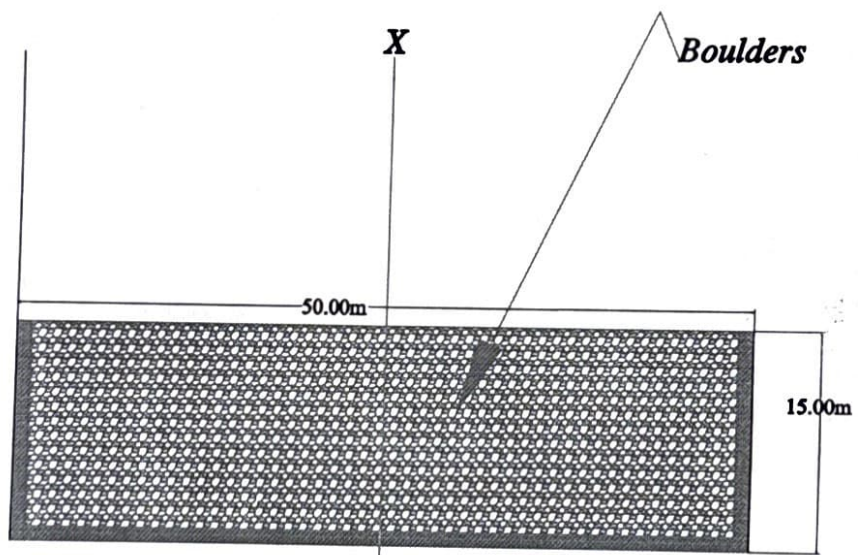
[Signature]
Forest Range Officer
Kasol Forest Range

For Garhan Kasol Hydro Project
[Signature]
Authorised Signatory

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Divisional Forest Officer
Parvati Forest Division
Shamshi



X-SECTION



PLAN

PARTICULAR	QUANTITY	UNIT
AREA	50.0X15.0 =750.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	3375.0	CUM

ROAD Muck Dumping Site -1

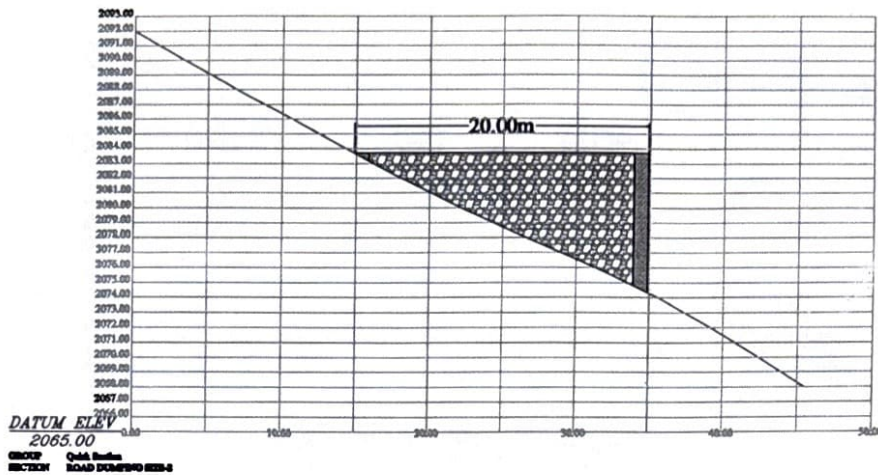
GARAN KASOL S.H.E.P. 5.00 MW.
TEH. & DISTT. KULLU (HP)

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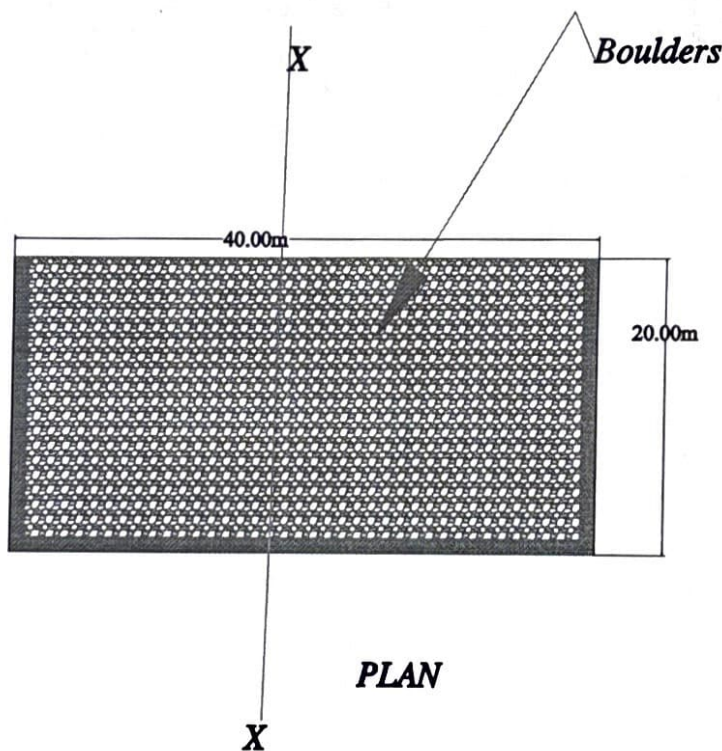
For Gharan Kasol Hydro Project
Authorized Signatory:

Divisional Forest Officer
Parvati Forest Division
Shamshi

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X-SECTION



PARTICULAR	QUANTITY	UNIT
AREA	40.0X20.0 =800.0	UNIT
AVERAGE HEIGHT	4.5	M
CAPACITY	3600.0	CUM

ROAD Muck Dumping Site -2

GARAN KASOL S.H.E.P. 5.00 MW.
TEH. & DISTT. KULLU (HP)

Forest Range Officer
Kasol

For Gharan Kasol Hydro Project
Indu
Authorised Signatory

Divisional Forest Officer
Parvati Forest Division
Shamschi

RECLAMATION PLAN OF DUMPING SITES OF GRAHAN-KASOL (5.0 MW)

In respect of diversion of Forest land 1.6201 hectares for the construction of Grahan-Kasol (5.0 MW) Small Hydro Project in Kasol Forest Range, Parvati Forest Diversion Shamshi, Distt. Kullu H.P.

Sr. No.	Dumping Site No.	Length	Width	Area in Sqm	Area in Ha.	Fence post	
1	Dumping Site-1	12	10	120.00	0.0120	15	Nos.
2	Dumping Site-2	15	12	180.00	0.0180	18	Nos.
3	Dumping Site-3	40	20	800.00	0.0800	40	Nos.
4	Dumping Site-4	40	20	800.00	0.0800	40	Nos.
5	Dumping Site -5	30	20	600.00	0.0600	33	Nos.
6	Dumping Site-6	10	6	60.00	0.0060	11	Nos.
7	Dumping Site -7	10	6	60.00	0.0060	11	Nos.
8	Dumping Site-8	30	20	600.00	0.0600	33	Nos.
9	Dumping Site-9	50	15	750.00	0.0750	43	Nos.
10	Dumping Site-10	40	20	800.00	0.0800	40	Nos.
Total					0.48	284	Nos.
Or Say						290	
		Total Area		0.48	hectare		
Sr. No.	Particulars of Work	Quantity	Rate per Unit at the wage rate of Rs. 150/-	Amount @ Rs 150/- for Non-Tribal areas	Man Days involved	Amount at the wage rate of Rs 400/- for Non-Tribal areas	
A SURVEY, DEMARCATION & FENCING							
1	Import of Soil including carriage	4293 cum	LS	LS	LS	₹ 2,20,000.00	
2	Laying of soil on DS upt 3 fit	1431 sqm	LS	LS	LS	₹ 50,000.00	
3	Survey & demarcation of plantation area	0.477 hec.	101	48	0.32	₹ 128.00	
4	Preparation / purchase of RCC fence posts	290 Nos.	500	145000		₹ 1,45,000.00	
5	Carriage of RCC fanc posts upto 165 cm long over distance 2 km uphill/downhill	290 Nos. / km	33.5	19430	129.53	₹ 51,813.33	
6	Preparation /digging of holes of 20x30x50 cm size	290 Nos.	9.06	2627	17.52	₹ 7,006.40	
7	Fixing of RCC fence posts including strutting	290 Nos.	7.16	2076	13.84	₹ 5,537.07	
8	Carriage of barbed wire over distance 2 km uphill/downhill	7.30 Qtls./ km	73.65	1076	7.17	₹ 2,868.56	
9	Stretching & fixing of barbed wire in 4 strands + 2 stand for crossing	5112 Rmt.	4.8	24538	163.58	₹ 65,433.60	
8	Interlacing of Thorny Bushes along the fence	852 Rmt.	4.09	3485	23.23	₹ 9,292.48	
9	Cost of Barbed Wire	7.30 Qtls.	9000	65726		₹ 65,725.71	
Total-A/ Survey, Demarcation & Fencing						₹ 6,22,805.16	
Or Say Rs						₹ 6,22,805.16	

Divisional Forest Officer
Parvati Forest Division
Shamshi

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B	PLANTING :-						
1	Bush Cutting in Strips (3mx3m)	0.477	hec.	1192.8	569	3.79	₹ 1,517.24
2	Digging of pits of 45x45x45 cm size	524	Nos.	9.54	5001	33.34	₹ 13,335.03
3	Filling of pits of 45x45x45 cm size	524	Nos.	2.72	1426	9.51	₹ 3,802.02
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	524	Nos.	1.9	1992	13.28	₹ 5,311.65
5	Planting of plant Raised in P/Bags	524	Nos.	2.18	1143	7.62	₹ 3,047.21
6	Construction of Inspection Path	100	Rmt.	11	1100	7.33	₹ 2,933.33
7	Cost of sign Board Carriage & Fixing		No.	l/s	450	10	₹ 4,500.00
Total- B/ Planting							₹ 34,446.49
Or Say Rs							₹ 34,450.00
Grand Total (A+B)							₹ 6,57,255.16
	Cost of Tall plants (75-00 per plant)	524	Nos.				₹ 39,313.19
Grand Total							₹ 6,96,568.34
Or Say Rs							₹ 6,96,568.34
C	1st Year maintenance (30% Beating up)						
1	Re-digging of pits of 45x45 cm size	157	Nos.	4.77	750	5.00	₹ 2,000.25
2	Filling of pits 45x45x45 cm	157	Nos.	2.72	428	2.85	₹ 1,140.61
3	Planting of plants raised in P/Bags	157	Nos.	2.18	343	2.29	₹ 914.16
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	157	Nos./K m	1.9	598	3.98	₹ 1,593.49
5	Repair of B/Wire fencing	1533.6	Rmt.	1.8	2760	18.40	₹ 7,361.28
6	Cost of plants (75-00 per plant)	157	Nos.	75	11794		₹ 11,793.96
Total							₹ 24,803.75
Or Say Rs							₹ 24,804.00
D	2nd Year maintenance (20% Beating up)						
1	Re-digging of pits of 45x45 cm size	105	Nos.	4.77	500	3.33	₹ 1,333.50
2	Filling of pits 45x45x45 cm	105	Nos.	2.72	285	1.90	₹ 760.40
3	Planting of plants raised in P/Bags	105	Nos.	2.18	229	1.52	₹ 609.44
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	105	Nos./K m	1.9	398	2.66	₹ 1,062.33
5	Repair of B/Wire fencing	1022.4	Rmt.	1.8	1840	12.27	₹ 4,907.52
6	Cost of plants (75-00 per plant)	105	Nos.	75	7863		₹ 7,862.64
Total							₹ 16,535.84
Or Say Rs							₹ 16,536.00
E	3rd Year maintenance (10% Beating up)						
1	Re-digging of pits of 45x45 cm size	52	Nos.	4.77	250	1.67	₹ 666.75
2	Filling of pits 45x45x45 cm	52	Nos.	2.72	143	0.95	₹ 380.20

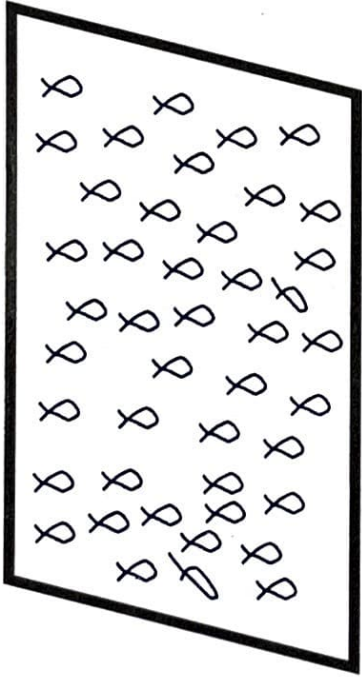
Shamsi
Parvat Forest Division
Divisional Forest Officer

3	Planting of plants raised in P/Bags	52	Nos.	2.18	114	0.76	₹ 304.72
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	52	Nos./K m	1.9	199	1.33	₹ 531.16
5	Repair of B/Wire fencing	511	Rmt.	1.8	920	6.13	₹ 2,453.76
6	Cost of plants (75-00 per plant)	52	Nos.	75	3931		₹ 3,931.32
Total							₹ 8,267.92
Or Say Rs							₹ 8,268.00
F 4th Year maintenance (10% Beating up)							
1	Re-digging of pits of 45x45 cm size	52	Nos.	4.77	250	1.67	₹ 666.75
2	Filling of pits 45x45x45 cm	52	Nos.	2.72	143	0.95	₹ 380.20
3	Planting of plants raised in P/Bags	52	Nos.	2.18	114	0.76	₹ 304.72
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	52	Nos./K m	1.9	199	1.33	₹ 531.16
5	Repair of B/Wire fencing	511.2	Rmt.	1.8	920	6.13	₹ 2,453.76
6	Cost of plants (75-00 per plant)	52	Nos.	75	3931		₹ 3,931.32
Total							₹ 8,267.92
Or Say Rs							₹ 8,268.00
G 5th Year maintenance (10% Beating up)							
1	Re-digging of pits of 45x45 cm size	52	Nos.	4.77	250	1.67	₹ 666.75
2	Filling of pits 45x45x45 cm	52	Nos.	2.72	143	0.95	₹ 380.20
3	Planting of plants raised in P/Bags	52	Nos.	2.18	114	0.76	₹ 304.72
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	52	Nos./K m	1.9	199	1.33	₹ 531.16
5	Repair of B/Wire fencing	511.2	Rmt.	1.8	920	6.13	₹ 2,453.76
6	Cost of plants (75-00 per plant)	52	Nos.	75	3931		₹ 3,931.32
Total							₹ 8,267.92
Or Say Rs							₹ 8,268.00
Total Maint. (C to G)							₹ 66,144.00
Total New planting & Maint							₹ 7,62,712.34
H For Plant Watering of plants at Dumping site							₹ 50,000.00
Sub Total							₹ 8,12,712.34
Add 17.50% Department charges							₹ 1,42,224.66
Add 5% contingency charges							₹ 40,635.62
Grand Total							₹ 9,95,572.62
Or Say							₹ 9,95,572.00
Rupees Nine Lakh Ninety Five Thousand Five Hundred Seventy Two Only.							

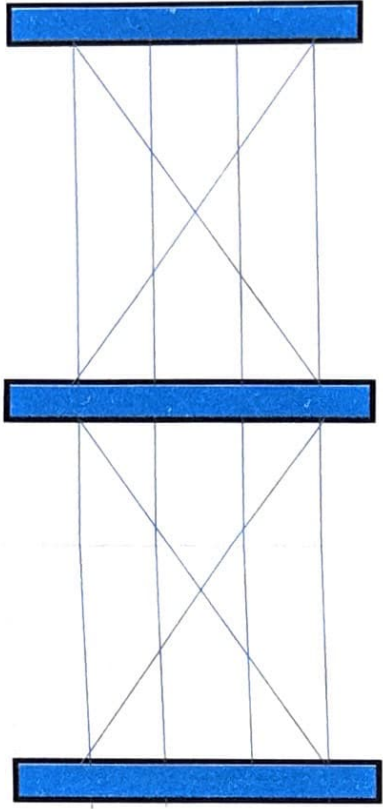
Prashant Singh
Prop.

[Signature]
Deputy Conservator of Forest
Parvati Forest Division Shamshi
Distt. Kullu HP.

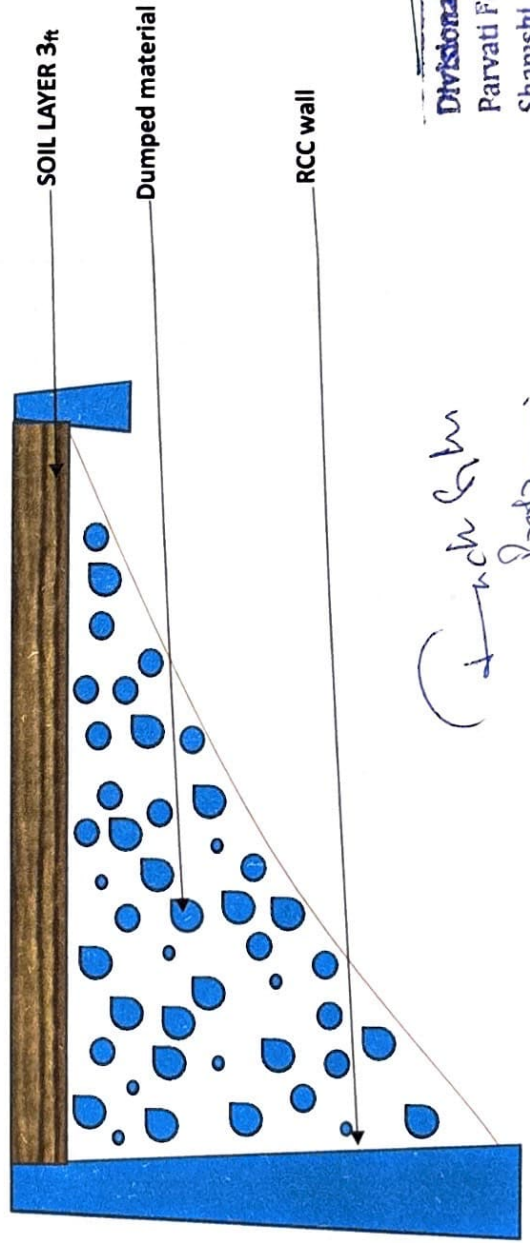
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Layout Plan of Tree plantation at Dumping site



Fencing



(Inder Ghu
Prop.)

Divisional Forest Officer
Parvati Forest Division
Shamshi