

DIVERSION OF 3.64 HECTARE FORST LANF FOR CONSTRUCTION OF LINK ROAD TO VILLAGE DANGARI KM 0/0 TO 5/675.

FILE NO: - FP/HP/ROAD/43801/2020
DATE OF PROPOSAL: 08/01/2020

RECLAMATION PLAN

Dumping sites for disposal of muck have been identified with the consideration of its distance and suitability of the area and Topography point of view

Accordingly the following sites have been identified.

S.No.	Description	Mohal	Khasra No.	Area in sqm.
1	Dumping Site -I	Dangari	252/2	811.02
2	Dumping Site -II	Dangari	273/262/1	1698.90
3	Dumping Site -III	Dangari	215/4	1375.30
4	Dumping Site -IV	Dangari	280/84/4	1537.10
		Total		5422.32

Rehabilitation Proposal

Since there is no displacement of any population due to the construction of the road 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.

Retaining Walls

RR masonry / GI wire crates filled with boulders/ stones reclaimed from excavation of road 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.

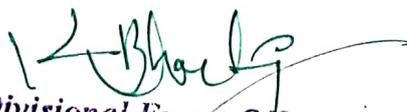
Use of Muck/debris

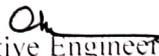
Most of the excavation muck/debris obtained from the project components shall be used for manufacture of aggregates for construction work, filling in wire crates, stone masonry works breast wall Etc. The remaining muck/debris will be neatly stacked in dumping areas identified for the purpose.

Plantation

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


Assistant Engineer
Chowari sub Division
HPPWD Chowari


Divisional Forest Officer
Dalhousie Forest Division
Dalhousie Pin - 176304


Executive Engineer
Dalhousie Division
HPPWD Dalhousie

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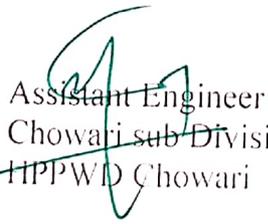
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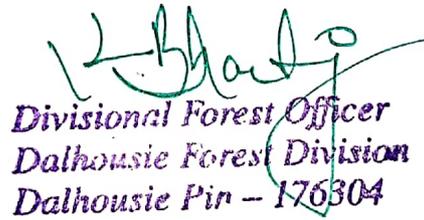
**MUCK DUMPING DETAIL FOR CONSTRUCTION OF LINK ROAD TO VILLAGE
DANGARI KM 0/0 TO 5/675.**

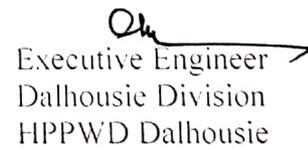
Location of Dumping			Size of Dumping (L X B)	Area in Sqm	Slope of Dumping (in degree)	Qty of muck generated (Cum)	Qty of muck used (Cum)	Qty of muck deposited (Cum)	Qty with swell factor (40%)	Height of dumping in mtr
No.	RD	Khasra No								
DS I	0770 to 0813	252/2	43m x 18.861m	811.02	25	1632	541.64	1090.36	1526.500	1.88
DS II	0930 to 0987	273/262/1	57m x 29.805m	1698.9	25	4797.3	1424.12	3373.18	4722.450	2.78
DS III	2950 to 3000	215/4	50m x 27.506m	1375.3	25	2900.9	838.4	2062.5	2887.500	2.1
DS IV	2720 to 2775	280/84/4	55m x 27.947m	1537.1	25	11530.8	3042.55	8488.25	11883.550	7.73
TOTAL						20861.00	5846.71	15014.29	21020.000	3.62

avg

Sr. No.	Description	Khasra No.	Area in Sqm.	Height	Capacity of Dumping site Qty. in Cum.
1	Dumping Site -I	252/2	811.02	1.88	1526.500
2	Dumping Site -II	273/261/1	1698.9	2.78	4722.450
3	Dumping Site -III	215/4	1375.3	2.1	2887.500
4	Dumping Site -IV	280/84/4	1537.1	7.36	11883.550


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COST ESTIMATE OF DUMPING SITES & PLANTATION

S.No.	DESCRIPTION	UNITS	QUANTITY	RATE(RS)	AMOUNT (RS)
A	Engineering Measures				
1	Wire Crates and retaining walls	Cum	132.81	2158.66	934288.00
B	Biological Measures				
1	Cost of fence post	No	35	150	5250.00
2	Carriage of fence Post to work site manually	No	35	8	280.00
3	Fixing of fence post	No	35	4.77	167.00
4	Cost of Barbed wire	Qtl	0.35	5500	1925.00
5	Carriage of barbed wire by vehicle	Qtl	0.35	LS	3000.00
6	Carriage of barbed wire to work site manually	Qtl	0.35	LS	1500.00
7	Stretching and fixing of barbed wire	Rmt	315	3.16	995.00
8	Interlacing of thorny bushes in Barbed wire	Rmt	315	2.74	863.00
9	Layout of pits	Ha	0.54	68.15	37.00
10	Digging of pits(60cm x 60 cm x 60 cm)	No	2410	6.98	16822.00
11	Filling of pits	No	2410	0.142	342.00
12	Cost of Plants	No	2410	7	16870.00
13	Carriage of plants by vehicle	No	2410	1.5	3615.00
14	Carriage of plants to work site manually	No	2410	2	4820.00
15	Planting of entire plants raised in polybags	No	2410	8.73	21039.00
16	Planting of shrubs grasses in interspaces	LS			5000.00
17	Watering of plants during dry season	LS			1500.00
18	Providing imported	No	2410	5	12050.00
19	Watch and ward	man days	150	200	30000.00
TOTAL					126075.00
C	Contingencies	LS			10000.00
D	Maintenance 1st to 7th year				61700.00
GRAND TOTAL (A+B+C+D)					1132063.00
Say					1132100.00
Or					11.321 Laacs

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