

**DIVERSION OF 4.6497 HA. OF FOREST LAND FOR CONSTRUCTION OF LINK ROAD
FROM NAGALI TO SANJAP IN TEHSIL DALHOUSIE, DISTRICT CHAMBA (H.P.)**

FILE NO. : FP/HP/ROAD/44346/2020
DATE OF PROPOSAL : 01/02/2020

RECLAMATION PLAN

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

Accordingly the following sites have been identified:

Sr. No.	Description	Mohal	Khasra No.	Area in Sq.m.
1.	Dumping Site – I	Dhar	636 / 2	162
2.	Dumping Site – II	Nuhin	484 / 2	405
3.	Dumping Site – III	Janoli	151/ 2	455
4.	Dumping Site – IV	Janoli	61 / 2	455
5.	Dumping Site – V	Sanjap	301 / 2	455
6.	Dumping Site – VI	Sanjap	4 / 7	455
Total				2387

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 crate 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 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 FOR CONSTRUCTION OF LINK ROAD FROM NAGALI TO SANJAP
TEHSIL DALHOUSIE, DISTRICT CHAMBA**

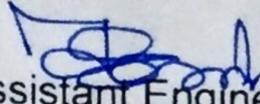
Location of Dumping	Area (in sq. m)	Slope of dumping place in degree	Qty. of muck generated (Cu. Mtr)	Qty. with Swell Factor (Cu. Mtr.) 35 %	Qty. muck to used (Cu. Mtr)	Qty. of muck deposited (Cu. Mtr.)	Height of dumping expected in mtr.
Dumping Site - I	162	35	2756	3730	1690	2040	12.65
Dumping Site - II	405	25	6694	9037	4080	4957	12.30
Dumping Site - III	455	28	7481	10120	4554	5566	12.30
Dumping Site - IV	455	22	8269	11163	5024	6139	13.50
Dumping Site - V	455	25	7088	9580	4320	5260	11.60
Dumping Site - VI	455	30	7087	9570	4307	5263	11.60
Total	2387		39375	53200	23975	29225	12.32 Avg

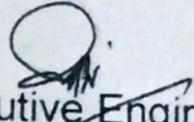
Sr. No	Description	Khasra no.	Area Sqm	in	Height	Capacity of Dumping Site Qty. in Cu.m.
1.	Dumping Site - I	636 / 2	162		12.65	2049
2.	Dumping Site - II	484 / 2	405		12.30	4982
3.	Dumping Site - III	151 / 2	455		12.30	5597
4.	Dumping Site - IV	61 / 2	455		13.50	6143
5.	Dumping Site - V	301 / 2	455		11.60	5278
6.	Dumping Site - VI	4 / 7	455		11.60	5278

COST ESTIMATION OF DUMPING SITES & PLANTATION

SR. NO.	DESCRIPTION	UNIT	QTY.	RATE (IN Rs.)	AMOUNT (Rs. IN LAKHS)
1	Cost of Surveying and Investigation	Lump-sum	1	20000	0.20
2	Cost of Carrying of muck to the dumping site and properly stacking.	CUM	29225	10	2.93
3	Providing Stone Filled Gabion Wire Crates for protection Work.	CUM	1000	1460	14.60
4	Plantation of 264 plants @ Rs 20/- per plant.	Nos	264	20	0.06
5	Digging of pit for plantation.	Nos	264	50	0.14
6	Cost of Barbed wire Fencing for protection of Plants @ Rs. 20/- per plant.	Nos	264	20	0.06
7	Reclamation and restoration.	Lump-sum	1	25000	0.25
8	Landscaping and Beautification.	Lump-sum	1	20000	0.20
Total					18.44 Lakhs

Place : Dalhousie
Dated:


 Assistant Engineer
 Banikhet Sub-Division
 HPPWD Banikhet


 Executive Engineer
 Dalhousie Division
 HPPWD Dalhousie