

Reclamation Plan

Reclamation plan of Muck Dumping Site areas in respect of BAROD SHEP (1.00 MW) Falling under forest rang Manali, Kullu forest division , Distt. Kullu, Himachal Pradesh

The reclamamation plan has been prepared as per proposal about 7018.49 cum (10176.81 cum including 45% swell factor) of muck will be generated form various components, out of which about 4879.43 cum of muc will supposed to be utilized in various projects components for construction of retaining walls, breast walls etc. for strengthning of components and rest of muck 5297.38 (including 45% swell factor) will be dumped in ten dumping sites as shown in the proposal. As per requirement 1100 sqm area hs been taken at two different places for dumping of muck in forest area for dumping site. The overall capacity of muck dumping sites 5400 cum is more than the muck to be dumped 5297.38 cum. Therefore to stabilize the muck in well protected manner, the work shall be done as under:-

ESTIMATE FOR RECLAMATION OF DUMPING AREA FOR BAROD SHEP 1.00MW

Sr. No.	Item of Work	Description	Quantity	Unit	Rate in Rs.	Amount in Rs.	Total Amount in Lacs	Remarks
20	15	MDS - 1						2.20
1	MDS - 1	Excavation in all kinds of soil for foundations of Retaining Walls	132.00	cum	180.00	23760.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	16.50	cum	4760.00	78540.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	400.00	cum	2954.00	1181600.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	90.00	cum	180.00	16200.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	300.00	sqm	230.00	69000.00		m Top Width and
6		Planting locally grow able shrubs & trees.	300.00	sqm	24.00	7200.00		5.00
7		Periodic watch, ward and maintenance charges for seven years.	300.00	sqm	18.00	5400.00	13.82	m Avg Height
10	5	MDS - 2						2.20
1	MDS - 2	Excavation in all kinds of soil for foundations of Retaining Walls	66.00	cum	180.00	11880.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	6.60	cum	4760.00	31416.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	128.00	cum	2954.00	378112.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	15.00	cum	180.00	2700.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	50.00	sqm	230.00	11500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	50.00	sqm	24.00	1200.00		4.00
7		Periodic watch, ward and maintenance charges for seven years.	50.00	sqm	18.00	900.00	4.38	m Avg Height

10	5	MDS - 3						2.20
1	MDS - 3	Excavation in all kinds of soil for foundations of Retaining Walls	66.00	cum	180.00	11880.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	6.60	cum	4760.00	31416.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	128.00	cum	2954.00	378112.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	15.00	cum	180.00	2700.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	50.00	sqm	230.00	11500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	50.00	sqm	24.00	1200.00		4.00
7		Periodic watch, ward and maintenance charges for seven years.	50.00	sqm	18.00	900.00	4.38	m Avg Height
10	5	MDS - 4						2.20
1	MDS - 4	Excavation in all kinds of soil for foundations of Retaining Walls	52.80	cum	180.00	9504.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	6.60	cum	4760.00	31416.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	160.00	cum	2954.00	472640.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	15.00	cum	180.00	2700.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	50.00	sqm	230.00	11500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	50.00	sqm	24.00	1200.00		5.00
7		Periodic watch, ward and maintenance charges for seven years.	50.00	sqm	18.00	900.00	5.30	m Avg Height
15	10	MDS - 5						2.20
1	MDS - 5	Excavation in all kinds of soil for foundations of Retaining Walls	115.50	cum	180.00	20790.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	11.55	cum	4760.00	54978.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	224.00	cum	2954.00	661696.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	45.00	cum	180.00	8100.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	150.00	sqm	230.00	34500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	150.00	sqm	24.00	3600.00		4.00
7		Periodic watch, ward and maintenance charges for seven years.	150.00	sqm	18.00	2700.00	7.86	m Avg Height

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30	10	MDS - 6						2.20
1	MDS - 6	Excavation in all kinds of soil for foundations of Retaining Walls	132.00	cum	180.00	23760.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	16.50	cum	4760.00	78540.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	480.00	cum	2954.00	1417920.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	90.00	cum	180.00	16200.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	300.00	sqm	230.00	69000.00		m Top Width and
6		Planting locally grow able shrubs & trees.	300.00	sqm	24.00	7200.00		6.00
7		Periodic watch, ward and maintenance charges for seven years.	300.00	sqm	18.00	5400.00	16.18	m Avg Height
10	5	MDS - 7						2.20
1	MDS - 7	Excavation in all kinds of soil for foundations of Retaining Walls	66.00	cum	180.00	11880.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	6.60	cum	4760.00	31416.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	160.00	cum	2954.00	472640.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	15.00	cum	180.00	2700.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	50.00	sqm	230.00	11500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	50.00	sqm	24.00	1200.00		5.00
7		Periodic watch, ward and maintenance charges for seven years.	50.00	sqm	18.00	900.00	5.32	m Avg Height
15	10	MDS - 8						2.20
1	MDS - 8	Excavation in all kinds of soil for foundations of Retaining Walls	115.50	cum	180.00	20790.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	11.55	cum	4760.00	54978.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	224.00	cum	2954.00	661696.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	45.00	cum	180.00	8100.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	150.00	sqm	230.00	34500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	150.00	sqm	24.00	3600.00		4.00
7		Periodic watch, ward and maintenance charges for seven years.	150.00	sqm	18.00	2700.00	7.86	m Avg Height
Total Cost to Develop all Muck Dumping Sites							65.10	


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- A) This part of construction of chec walls with wire crates stones and filling of excavated material shll be done by the user agency itself. As per proposal Rs. 65.10 Lakhs is proposed for civil engineering works. These works will be carried out before dumping the muck at dumping site.
- B) The second part for raising suitable plantation etc. on the muck dumping sites shall be implemented by the Forest Development at the cost of user agency. As per the proposal Rs. (Rupees) only with the forest department for raising suitable plantation. Necessary rehabilitation measures for the unused dumping material at different sites shall be carried out by afforestation to provide vegetation cover there on.

Date :

Place : Kullu

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 Authorized Signatory

Counter Signed By

fl:
 Divisional Forest Officer
 Kullu Forest Division, Kullu (HP)
 Kullu Forest Division, Kullu