

Reclamation Plan

Reclamation plan of Muck Dumping Site areas in respect of PAKHNOJ-II SHEP (5.00 MW) Falling under forest rang Nagar, Kullu forest division , Distt. Kullu, Himachal Pradesh

The reclamamation plan has been prepared as per proposal about 15405.22 cum (22337.56 cum including 45% swell factor) of muck will be generated form various components, out of which about 10796.86 cum of muck 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 11540.71 (including 45% swell factor) will be dumped in Seven dumping sites as shown in the proposal. As per requirement 1570 sqm area has been taken at Seven different places for dumping of muck in forest area for dumping site. The overall capacity of muck dumping sites 12560 cum is more than the muck to be dumped 11540.71 cum. Therefore to stabilize the muck in well protected manner, the work shall be done as under:-

ESTIMATE FOR RECLAMATION OF DUMPING AREA FOR SAJLA SHEP 2.00 MW

Sr. No.	Item of Work	Description	Quantity	Unit	Rate in Rs.	Amount in Rs.	Total Amount in Lacs	Remarks
30.	5	MDS - 1						2.20
1	MDS - 1	Excavation in all kinds of soil for foundations of Retaining Walls	105.60	cum	180.00	19008.00		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)	13.20	cum	4760.00	62832.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	512.00	cum	2954.00	1512448.00		
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		8.00
7		Periodic watch, ward and maintenance charges for seven years.	150.00	sqm	18.00	2700.00	16.43	m Avg Height
30	10	MDS - 2						2.20
1	MDS - 2	Excavation in all kinds of soil for foundations of Retaining Walls	165.00	cum	180.00	29700.00		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)	640.00	cum	2954.00	1890560.00		
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		8.00
7		Periodic watch, ward and maintenance charges for seven years.	300.00	sqm	18.00	5400.00	20.97	m Avg Height

40	20	MDS - 3						2.20
1	MDS - 3	Excavation in all kinds of soil for foundations of Retaining Walls	264.00	cum	180.00	47520.00		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	26.40	cum	4760.00	125664.00		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	1024.00	cum	2954.00	3024896.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	240.00	cum	180.00	43200.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	800.00	sqm	230.00	184000.00		m Top Width and
6		Planting locally grow able shrubs & trees.	800.00	sqm	24.00	19200.00		8.00
7		Periodic watch, ward and maintenance charges for seven years.	800.00	sqm	18.00	14400.00	34.59	m Avg Height
10	8	MDS - 4						2.20
1	MDS - 4	Excavation in all kinds of soil for foundations of Retaining Walls	68.64	cum	180.00	12355.20		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	8.58	cum	4760.00	40840.80		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	332.80	cum	2954.00	983091.20		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	24.00	cum	180.00	4320.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	80.00	sqm	230.00	18400.00		m Top Width and
6		Planting locally grow able shrubs & trees.	80.00	sqm	24.00	1920.00		8.00
7		Periodic watch, ward and maintenance charges for seven years.	80.00	sqm	18.00	1440.00	10.62	m Avg Height
30	8	MDS - 5						2.20
1	MDS - 5	Excavation in all kinds of soil for foundations of Retaining Walls	151.80	cum	180.00	27324.00		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	15.18	cum	4760.00	72256.80		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	588.80	cum	2954.00	1739315.20		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	72.00	cum	180.00	12960.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	240.00	sqm	230.00	55200.00		m Top Width and
6		Planting locally grow able shrubs & trees.	240.00	sqm	24.00	5760.00		8.00
7		Periodic watch, ward and maintenance charges for seven years.	240.00	sqm	18.00	4320.00	19.17	m Avg Height
30	10	MDS - 6						2.20
1	.6	Excavation in all kinds of soil for foundations of Retaining Walls	165.00	cum	180.00	29700.00		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	16.50	cum	4760.00	78540.00		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	640.00	cum	2954.00	1890560.00		

4	MDS -	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		8.00
7		Periodic watch, ward and maintenance charges for seven years.	300.00	sqm	18.00	5400.00	20.97	m Avg Height
40	10	MDS - 7						2.20
1	MDS - 7	Excavation in all kinds of soil for foundations of Retaining Walls	198.00	cum	180.00	35640.00		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	19.80	cum	4760.00	94248.00		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	768.00	cum	2954.00	2268672.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	120.00	cum	180.00	21600.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	400.00	sqm	230.00	92000.00		m Top Width and
6		Planting locally grow able shrubs & trees.	400.00	sqm	24.00	9600.00		8.00
7		Periodic watch, ward and maintenance charges for seven years.	400.00	sqm	18.00	7200.00	25.29	m Avg Height
Total Cost to Develop all Muck Dumping Sites							148.04	


- 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. 148.04 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 : 24/03/2022

Place : Kullu


 Authorized Signatory
 Bhola Nath Power Const. Co. Pvt. Ltd.
 Main Bldg. , Distt. Kullu (H.P.)

Counter Signed By


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