

Reclamation Plan

Reclamation plan of Muck Dumping Site areas in respect of SAJLA SHEP (2.00 MW) Falling under forest rang Nagar, Kullu forest division , Distt. Kullu, Himachal Pradesh

The reclamamation plan has been prepared as per proposal about 1998.18 cum (2897.36 cum including 45% swell factor) of muck will be generated form various components, out of which about 1141.48 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 1755.88 (including 45% swell factor) will be dumped in Five dumping sites as shown in the proposal. As per requirement 1060 sqm area has been taken at two different places for dumping of muck in forest area for dumping site. The overall capacity of muck dumping sites 3880 cum is more than the muck to be dumped 1755.88 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
20	10	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)	192.00	cum	2954.00	567168.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	60.00	cum	180.00	10800.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	200.00	sqm	230.00	46000.00		m Top Width and
6		Planting locally grow able shrubs & trees.	200.00	sqm	24.00	4800.00		3.00
7		Periodic watch, ward and maintenance charges for seven years.	200.00	sqm	18.00	3600.00	7.14	m Avg Height
20	8	MDS - 2						2.20
1	MDS - 2	Excavation in all kinds of soil for foundations of Retaining Walls	118.80	cum	180.00	21384.00		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)	11.88	cum	4760.00	56548.80		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	172.80	cum	2954.00	510451.20		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	48.00	cum	180.00	8640.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	160.00	sqm	230.00	36800.00		m Top Width and
6		Planting locally grow able shrubs & trees.	160.00	sqm	24.00	3840.00		3.00
7		Periodic watch, ward and maintenance charges for seven years.	160.00	sqm	18.00	2880.00	6.41	m Avg Height

30	10	MDS - 3						2.20
1	MDS - 3	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)	320.00	cum	2954.00	945280.00		
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		4.00
7		Periodic watch, ward and maintenance charges for seven years.	300.00	sqm	18.00	5400.00	11.51	m Avg Height
30	5	MDS - 4						2.20
1	MDS - 4	Excavation in all kinds of soil for foundations of Retaining Walls	105.60	cum	180.00	19008.00		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	13.20	cum	4760.00	62832.00		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	256.00	cum	2954.00	756224.00		
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	8.87	m Avg Height
25	10	MDS - 5						2.20
1	MDS - 5	Excavation in all kinds of soil for foundations of Retaining Walls	148.50	cum	180.00	26730.00		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	14.85	cum	4760.00	70686.00		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	288.00	cum	2954.00	850752.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	75.00	cum	180.00	13500.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	250.00	sqm	230.00	57500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	250.00	sqm	24.00	6000.00		4.00
7		Periodic watch, ward and maintenance charges for seven years.	250.00	sqm	18.00	4500.00	10.30	m Avg Height
Total Cost to Develop all Muck Dumping Sites							44.23	

- 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. 44.23 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

Authorized Signatory

M/s Seraj Hydropower Developers

Authorized Signatory

Counter Signed By

Divisional Forest Officer
Kullu Forest Division, Kullu (HP)