


**Detail of Muck Dumping sites in respect of Choj-I (0.50 MW) SHEP in Forest Range Kasol ,  
Forest Division Shamshi in Distt. Kullu (H.P.)**

Sr. No.	Name of Dumping Site	Location	Length in m	Width in m	Area in sqm	Area in Ha	Height in m	Capacity of Dumping in cum	Remarks
1	Muck Dumping Site -1	Near Weir Site	9.95	4.26	42.387	0.004	3.5	148.35	Forest Land
2	Muck Dumping Site -2	Near Desilting Tank	9.95	4.26	42.387	0.004	3.5	148.35	Forest Land
3	Muck Dumping Site -3	Near Penstock	9.95	4.26	42.387	0.004	4.5	190.74	Forest Land
4	Muck Dumping Site -4	Near Power House	14.22	9.95	141.489	0.014	5	707.45	Forest Land
	Total				268.65	0.026			


Date

Place - Kullu

Authorised Signatory

  
M/s Tek Singh  
Choj-I (0.50M) SHEP

वन अधिकारी  
वन परिक्षेत्र कसोल

  
Divisional Forest Officer  
Forest Division Shamshi Distt. Kullu (HP)  
Shamshi



## Reclamation Plan

Reclamation plan of Muck Dumping Site areas in respect of CHOJ-I SHEP (0.50MW) Falling under forest rang Kasol, Forest Division Shamshi , Distt. Kullu, Himachal Pradesh

The reclamamation plan has been prepared as per proposal about 1199.89 cum (1739.84 cum including 45% swell factor) of muck will be generated form various components, out of which about 505.6 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 1234.3 (including 45% swell factor) will be dumped in Four dumping sites as shown in the proposal. As per requirement 268.65 sqm area has been taken at four different places for dumping of muck in fořest area for dumping site. The overall capacity of muck dumping sites 1739.8 cum is more than the muck to be dumped 1234.3 cum. Therefore to stabilize the muck in well protected manner, the work shall be done as under:-

### ESTIMATE FOR RECLAMATION OF DUMPING AREA FOR CHOJ-1 SHEP 0.50 MW

Sr. No.	Item of Work	Description	Quantity	Unit	Rate in Rs.	Amount in Rs.	Total Amount in Lacs	Remarks
9.95	4.26	<b>MDS - 1</b>						2.20
1	MDS - 1	Excavation in all kinds of soil for foundations of Retaining Walls	48.76	cum	180.00	8776.94		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)	6.10	cum	4760.00	29012.68		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	103.43	cum	2954.00	305538.13		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	12.72	cum	180.00	2288.90		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	42.39	sqm	230.00	9749.01		m Top Width and
6		Planting locally grow able shrubs & trees.	42.39	sqm	24.00	1017.29		3.50
7		Periodic watch, ward and maintenance charges for seven years.	42.39	sqm	18.00	762.97	3.57	m Avg Height
9.95	4.26	<b>MDS - 2</b>						2.20
1	MDS - 2	Excavation in all kinds of soil for foundations of Retaining Walls	60.95	cum	180.00	10971.18		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)	6.10	cum	4760.00	29012.68		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	103.43	cum	2954.00	305538.13		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	12.72	cum	180.00	2288.90		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	42.39	sqm	230.00	9749.01		m Top Width and
6		Planting locally grow able shrubs & trees.	42.39	sqm	24.00	1017.29		3.50
7		Periodic watch, ward and maintenance charges for seven years.	42.39	sqm	18.00	762.97	3.59	m Avg Height



9.95	4.26	<b>MDS - 3</b>						
1	MDS - 3	Excavation in all kinds of soil for foundations of Retaining Walls	60.95	cum	180.00	10971.18		2.20
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	6.10	cum	4760.00	29012.68		m Base Width of Random Rubble Stone Masonary.
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	132.98	cum	2954.00	392834.74		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	12.72	cum	180.00	2288.90		
5		P/L a layer of Geo - membrane over the freshly laid soil.	42.39	sqm	230.00	9749.01		m Top Width and
6		Planting locally grow able shrubs & trees.	42.39	sqm	24.00	1017.29		4.50
7		Periodic watch, ward and maintenance charges for seven years.	42.39	sqm	18.00	762.97	4.47	m Avg Height
14.22	9.95	<b>MDS - 4</b>						
1	MDS - 4	Excavation in all kinds of soil for foundations of Retaining Walls	90.08	cum	180.00	16213.82		2.20
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	11.26	cum	4760.00	53595.70		m Base Width of Random Rubble Stone Masonary.
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	272.96	cum	2954.00	806323.84		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	42.45	cum	180.00	7640.41		
5		P/L a layer of Geo - membrane over the freshly laid soil.	141.49	sqm	230.00	32542.47		m Top Width and
6		Planting locally grow able shrubs & trees.	141.49	sqm	24.00	3395.74		5.00
7		Periodic watch, ward and maintenance charges for seven years.	141.49	sqm	18.00	2546.80	9.22	m Avg Height
<b>Total Cost to Develop all Muck Dumping Sites</b>							<b>20.85</b>	

- A) This part of construction of chec walls with wire crates stones and filling of excavated material shall be done by the user agency itself. As per proposal Rs. 20.85 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 81600(Eighty One Thousand And Six Hundred 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 : Shamshi

*[Signature]*  
वन परिक्षेत्र अधिकारी  
वन परिक्षेत्र कसोल

Authorised Signatory

*[Signature]*  
Shri-1 (0.50M) SHEP

Counter Signed By

*[Signature]*  
Divisional Forest Officer  
Forest Division Shamshi Distt. Kullu (HP)  
Shamshi