

Reclamation Muck Generated Plan for Upper Kurmi SHEP 8.00MW

Sl. No.	Name of Component from Where Muck is to be Produced	Provided Size of Land in sqm	Actual Size of Component in sqm	Total Qty. of Muck to be Produced in cum	Factor of increase in volume after excavation	Total Qty. of Muck to be Dumped on the basis of increased Qty in cum	Qty of Muck to be utilised (in cum)	Total Qty of Muck Remaining after Utilisation	Remarks
1	Weir Site-I	25.00 X 10.00	20.00X10.00	500.00	45%	725.00	253.75	471.25	Out Of Total Muck Generated About 35% Shall Be Used In Construction Of Crates, Protection Of Diversion Weir I, Approach Pipe in HRT from Weir I to Weir II, Retaining Walls & Rest Of The Muck Including Swell Factor (45%) Shall Be Dumped In Muck Dumping Site I.
2	Approach pipe Weir I To Weir-II in HRT I	294x3.50	294x1.80	789.98	45%	1145.47	400.92	744.56	
3	Weir Site-II	15.00x10.00	15.00 X 10.00	375.00	45%	543.75	190.31	353.44	Out Of Total Muck Generated About 35% Shall Be Used In Construction Of Crates, Protection Of Diversion Weir II, Approach Pipe from Weir II to Desilting Cum Forebay Tank, Retaining Walls & Rest Of The Muck Including Swell Factor (45%) Shall Be Dumped In Muck Dumping Site II.
4	Approach pipe Weir II To Desilting Cum Forebay Tank	122.00 X 3.00	122.00 X 3.00	915.00	45%	1326.75	464.36	862.39	
5	Desilting cum forebay Tank	50.00 X 12.00	50.00 X 10.00	1250.00	45%	1812.50	634.38	1178.13	
6	Silt Flushing	30.00 X 3.00	30.00 X 3.00	223.92	45%	324.68	113.64	211.04	
7	Penstock in HRT-I	434x3.00	434x3.00	3239.34	45%	4697.04	1643.96	3053.08	Out Of Total Muck Generated About 35% Shall Be Used In Construction Of Crates, Protection HRT Penstock, Retaining Walls & Rest Of The Muck Including Swell Factor (45%) Shall Be Dumped In Muck Dumping Site III.
8	Silt Flushing Adit-I	53.00X3.00	53.00X3.00	395.59	45%	573.60	200.76	372.84	
9	Penstock in HRT-II	326.00X3.50	326.00X3.00	2433.24	45%	3528.19	1234.87	2293.32	Out Of Total Muck Generated 35% Shall Be Re Used In HRT II Penstock, Surgesht, Anchor Blocks, Saddle Supports And Retaining Walls To Support Penstock, And Balance muck including The Swell Factor (45%) shall be dumped in site IV.
10	Penstock in HRT-II	274.00X3.00	274.00X3.00	2045.11	45%	2965.41	1037.89	1927.52	50% of the muck generated from the Power House and Switchyard Shall Be used for levelling/filling of Power house and Switchyard area And balance including swell factor 45% shall be dumped in muck dumping site IV.
11	Penstock in HRT-II	172 X 3.00	172.00 X 3.00	1283.79	45%	1861.50	651.52	1209.97	
12	Open Penstock	96.00 X 3.50	96.00 X 1.55	74.40	45%	107.88	37.76	70.12	
13	Power House/ Switchyard/ Tailrace	65.00X25.00	50.00 X 15.00	1500.00	45%	2175.00	1087.50	1087.50	
14	Proposed Road-I	641.60X5.00	641.60X5.00	8020.00	45%	11629.00	9884.65	1744.35	85% of the muck generated from road Shall Be used for levelling / filling of road area And balance including swell factor 45% shall be dumped in muck dumping Site V, VI, VII & VIII.
15	Proposed Road-II	950 X 5.00	950 X 5.00	11875.00	45%	17218.75	14635.94	2582.81	
16	Proposed Road-III	76.80 X 5.00	76.80 X 5.00	960.00	45%	1392.00	1183.20	208.80	
17	Proposed Road-IV	311.4X5.00	311.4X5.00	3892.50	45%	5644.13	4797.51	846.62	
18	Total			39772.86		57670.65	38452.9	19217.7	
Total qty. of Muck is to be produced in cum =				39772.86					
Total qty. of muck to be dumped on the basis of increased qty in cum =				57670.65					
Qty of muck is to be utilised (in cum) =				38452.92					
Total capacity of muck to be dumped =				19217.74				TRUE	19217.74<25500



Detail of Muck Dumping sites in respect of Upper Kurmi SHEP 8.00MW in Rampur Forest Division, Distt. Shimla (H.P.)								
Sr. No.	Name of Dumping Site	Location	Length in m	Width in m	Area in sqm	Height in m	Capacity of Dumping in cum	Remarks
1	Muck Dumping Site -1	Near Weir Site-I	40.00	20.00	800.00	2.50	2000.00	Forest Land
2	Muck Dumping Site -2	Near Desilting Tank	50.00	20.00	1000.00	3.00	3000.00	Forest Land
3	Muck Dumping Site -3	Near Silt cum Flushing edit	60.00	25.00	1500.00	3.50	5250.00	Forest Land
4	Muck Dumping Site -4	Near Power House	60.00	25.00	1500.00	3.50	5250.00	Forest Land
5	Muck Dumping Site -5	Near Road	60.00	25.00	1500.00	2.00	3000.00	Forest Land
6	Muck Dumping Site -6	Near Road	40.00	25.00	1000.00	3.00	3000.00	Forest Land
7	Muck Dumping Site -7	Near Road	40.00	25.00	1000.00	2.00	2000.00	Forest Land
8	Muck Dumping Site -8	Near Road	40.00	25.00	1000.00	2.00	2000.00	Forest Land
	Total				9300.00		25500.00	

Date 31/12/2020

Place - Rampur

