

RECLAMATION MUCK DUMPING PLAN FOR UPPER KURMI HEP (8.00 MW)

Sr. No.	Name Of Component From Where Muck Is To Be Produced	Actual Size Of Land In sqm	Actual Size Of Component In sqm	DIAGRAM	Total Qty. Of Muck Is 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	Name Of Dumping Place	Size Of Muck Dumping In m	Area Of Dumping Place In sqm	Remaining Height Of Muck Dumped	Capacity Of Muck To Be Dumped	Remaining Capacity In cum	Remarks
1	Weir Site-I	25.00 X 10.00	20.00X10.00		500.00	45%	725.00	253.75	471.25	Muck Dumping Site-I near weir site I	40.00 X 20.00	800.00	2.50	2000.00	1528.75	Out Of Total Muck Generated About 35% Shall Be Used In Construction Of Gates, 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				0.98	1528.75	784.19	
3	Weir Site-II	15.00X10.00	15.00 X 10.00		375.00	45%	543.75	190.31	353.44				3.00	3000.00	2646.56	Out Of Total Muck Generated About 35% Shall Be Used In Construction Of Gates, 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 Tank	122.00 X 3.00	122.00 X 3.00		915.00	45%	1326.75	464.36	862.39	Muck Dumping Site-II near Desilting tank	50.00 X 20.00	1000.00	1.78	2646.56	1784.18	
5	Desilting cum forebay Tank	50.00 X 12.00	50.00 X 10.00		1250.00	45%	1812.50	634.38	1178.13				0.61	1784.18	606.05	
6	Silt Flushing	30.00 X 3.00	30.00 X 3.00		223.92	45%	324.68	113.64	211.04				0.40	606.05	395.01	
7	Penstock in HRT-I	434X3.00	434X3.00		3239.34	45%	4697.04	1643.96	3053.08	Muck Dumping Site-III near Silt Flushing Cum Adit	60.00 X 25.00	1500.00	3.50	5250.00	2196.92	Out Of Total Muck Generated About 35% Shall Be Used In Construction Of Gates, 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				1.22	2196.92	1824.08	
9	Penstock in HRT-II	326.00X3.50	326.00X3.00		2433.24	45%	3528.19	1234.87	2293.32				3.50	5250.00	2956.68	
10	Penstock in HRT-II	274.00X3.00	274.00X3.00		2045.11	45%	2965.41	1037.89	1927.52				0.69	2956.68	1029.16	Out Of Total Muck Generated 35% Shall Be Re Used In HRT II Penstock, Surgestop, Anchor Blocks, Saddle Supports And Retaining Walls To Support Penstock And Balance muck including The Swell Factor (45%) shall be dumped in site IV, 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	Muck Dumping Site-IV near Power House Site	60.00 X 25.00	1500.00	-0.12	1029.16	-180.82	
13	Open Penstock	96.00 X 3.50	96.00 X 1.55		74.40	45%	107.88	37.76	70.12				-0.17	-180.82	-250.94	
14	Power House/Switchyard/ Tailrace	65.00X25.00	50.00 X 15.00		1500.00	45%	2175.00	1087.50	1087.50				-0.89	-250.94	-1338.44	
15	Proposed Road-I	641.60X5.00	641.60X5.00		8020.00	45%	11629.00	9884.65	1744.35	Muck Dumping Site-V	60.00X25.00	1500.00	2.00	3000.00	1255.65	
16	Proposed Road-II	950 X 5.00	950 X 5.00		11875.00	45%	17218.75	14635.94	2582.81	Muck Dumping Site-VI	40.00X25.00	1000.00	3.00	3000.00	417.19	

17	Proposed Road-III	76.80 X 5.00	76.80 X 5.00		960.00	45%	1392.00	1183.20	208.80	Muck Dumping Site- VII	40.00X25.00	1000.00	2.00	2000.00	1791.20	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.	
18	Proposed Road-IV	311.4X5.00	311.4X5.00		3892.50	45%	5644.13	4797.51	846.62	Muck Dumping Site- VIII	40.00X25.00	1000.00	2.00	2000.00	1153.38		
19	Compensate HRT-IL, Forebay, Surge shaft, Power House Muck At MDS-III & V	-1338.44															
20	TOTAL REMAINING CAPACITY	6282.26														1741.3	
	Total				39772.86		57670.65	38452.9	19217.7			7500.00					
Total Qty. Of Muck Is To Be Produced IN cum					39772.86 cum		Total Qty. Of Muck To Be Dumped On The Basis Of Increased Qty In cum =									57670.65 cum	
Qty Of Muck To Be Utilised (In cum) =					38452.9 cum		Total Qty Of Muck Remaining After Utilisation =									19217.7 cum	
Total Area Of Dumping Place In sqm =					7500.00 cum		Total Capacity Of Muck To Be Dumped =									25500.00 cum	

