

BILL OF QUANTITIES FOR A STANDARD SAND DAM

ITEM	UNIT	QUANTITY	UNIT RATE KSH.	TOTAL COST KSH.
1. CEMENT	50KG. BAG	200	600	120,000
2. BARBED WIRE	25 KG. ROLL	3	2,500	7,500
3. ROUND BARS 12.5MM	6 METER LENGTH	8	450	3,600
4. ROUND BARS 6.25 MM	6 METER LENGTH	8	250	2,000
5. WIRE NAILS 100MM	KG	1	70	70
6. CYPRESS TIMBER50X50MM	300MM LENGTH	15,000	15	650
7. SAND	TONNES	60	200	12,000
8. A. HARDCORE	TONNES	120	300	36,000
8. B. HARDCORE ALTERNATE- BALLAST	TONNES	85	3,000	255,000
9.WATER	LITRE	26,000	1	26,000
10. UNSKILLED LABOUR	2,000 PERSON DAYS	80	100	200,000
11. SKILLED LABOUR	80 PERSON DAYS	1	350	28,000
12. TECHNICAL SUPERVISION SITTING, EXCAVATION, PLASTERING, COMPLETION	8 PERSON DAYS	1	5,000	40,000
13. TECHNICAL SUPERVISION TRAVEL	8 DAYS	1	1,000	8,000
13. ALTERNATIVE TOTAL COST				702,820
				483,000

NOTES

1. DAM VOLUME = 72 CUBIC METERS
2. DAM DEPTH = 3 METERS
3. DAM LENGTH = 27 METERS
4. DAM CREST WIDTH = 0.75 METERS
5. DAM FOUNDATION WIDTH AT RIVER BED =1 METER
6. BACK FLOW LENGTH = 2 METERS
7. BACKFLOW WIDTH = WIDTH OF RIVER BED=2 METERS

TECHNICAL TRAINING

1. 5-10 FUNDI TECHNICAL TRAINING	14 PERSON DAYS	2	24,000	336,000
2. TRAVEL TO MANYARA			?	
3. DAILY SUBSISTENCE			?	