

## **TECHNICAL SPECIFICATION FOR MANUAL DRAINAGE EXCAVATION**

### **General Condition**

Hereunder are the specifications for the Manual Excavation in Benoe Estates to guide the Drainage Contractor to prepare a proposal to Group Banana Plantation Management.

1. The proposal will include the proposed price per cubic meter of excavation, specifying the number of workers the contractor can hire in case of being selected.
2. The service supplier is obliged to supply all the materials and tools needed for this operation.
3. The necessary manpower must be fully trained and supervised by the contractor.
4. The agriculture supervisor will allocate the drain lines in the area, these lines allocation must be fully respected by the contractor.
5. The contractor excavates the drain as per drain dimension given by the farm.
6. In case of wrong excavation of any drain, the contractor must backfill it without any cost for the project.
7. The contractor must excavate the complete area of each cableway in good job quality to apply for the work to be received.
8. The work receiving will be done per cableway and this is when the whole cableway is completely finished, in that case the project staff will proceed to review the work quality for payment.
9. The receiving of works will be done by a committee integrated by Engineering and Agricultural staff.
10. The minimum accomplishment will be at least 2.5 hectares per week. In case the contractor cannot afford this accomplishment, the contractor will be penalized as per the contract entered into with Banana plantation.
11. The contractor must provide one supervisor and two foremen for supervision and training of the workers.
12. The contractor is responsible for the transportation of the workers.

**MATERIALS AND TOOLS TO BE USED FOR THIS JOB**

<b><u>S/N</u></b>	<b><u>DESCRIPTION</u></b>
1	SPADE
2	SHOVEL
3	DIGGER
4	GLOVES
5	MEASURING TAPES
6	TWINE ROPES

**LABOUR FORCE OR MANPOWER TO BE USE FOR THE JOB**

<b><u>S/N</u></b>	<b><u>DESCRIPTION</u></b>	
1	SUPERVISOR	1
2	FOREMAN	2
3	GENERAL LABOUR	60

**Drains Specification**

- 1 The indicated spacing in between two tertiary drains must be maintained at 11.2 meters.
- 2 The walls of the drains must be shaved straight and smooth.
- 3 The ground removed from the drains must be deposited at least 0.50m from the drain, and should be spread out to avoid undulations.
- 4 Any damage in the irrigation network and cableway by any contractor in any part of the project must be charged to the contractor.

**Drains Dimensions****Tertiary Drains**

Top Width	=	1m
Bottom Width	=	0.40m
Depth inlet	=	0.90m
Depth Outlet	=	1.10m

Further information will be received in case the proposal is accepted by the Contract Engineer CDC Group Banana, (Camp 7, Tiko).