

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	PROPOSED BIO DIGESTER FOR WAJIR STAFF HOUSES -32M3 CAPACITY				
	<u>DRAINAGE</u>				
A	Clear site to remove debris, shrubs, grass and cart away.	12	SM		
	<u>Trench Excavation</u>				
B	Excavate trench for 150mm dia U.P.V.C pipe average not exceeding 1.5deep	18	CM		
C	Return fill and ram	10	CM		
D	Cart away surplus excavated material average 100m away and spread on site	8	CM		
	<u>UPVC pipework</u>				
E	100mm heavy duty golden brown pipe	150	LM		
F	100mm heavy duty grey pipe	3	LM		
G	50mm ditto	50	LM		
	<u>Extra over UPVC pipework for the following Bends</u>				
H	100mm diameter bend	3	NO		
J	100 mm diameter Tee	3	NO		
K	50mm diameter bend	3	NO		
L	Rectangular manholes average 0.75m deep	6	NO		
M	Ring chamber heavy duty manholes average 1.0m deep.	2	NO		
N	250x250x250 deep gully trap including all excavations 50mm concrete bed 140mm thick masonry walling 1:4 sand; cement plaster covered with a 390x390x6mm m/s plate.	3	NO		
P	Allow for flushing of the sewerage system and testing by water.	1	ITEM		
	Total carried to collection page				

	BIO DIGESTER SUBSTRUCTURES (ALL PROVISIONAL)				
	<p><u>Supply and install biodigester waste treatment system complete with the following items to the satisfaction of the PM. The system is expected to treat approximately 13,300 gallons per day (50 cubic metres per day) or 200 persons complete with all accessories as Riflo SEPTICA System or equivalent whichever is higher. The tenderer to submit the technical brochures and working calculations together with the tender for evaluation. Alternative and approved systems utilising packaged systems may be provided</u></p> <p>Excavation</p> <p>A Excavate pit exceeding n.e. 1.50m deep starting from ground level</p> <p>B Excavate pit exceeding 1.50m deep but not exceeding 3.0m deep starting from reduced level</p> <p>C Extra over excavations for excavating in hard rock (class I)</p> <p>D Return fill and ram approved excavated material around foundations</p> <p>E Load and cart away surplus excavated material</p> <p>F Allow for keeping the whole excavation free from all water including spring and running water</p> <p>G Allow for plunking and strutting the whole excavation</p> <p>Mass concrete class 'P' in:</p> <p>H 50mm thick blinding under foundations</p> <p><i>Carried to Collection</i></p>	24 8 24 7 17 1 1 16	CM CM CM CM CM ITEM ITEM SM		

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
	<u>Reinforced insitu concrete class 25/(20mm aggregates)</u>				
A	200mm thick floor bed	16	SM		
B	200mm thick wall	62	SM		
C	200mm thick suspended slab	16	SM		
D	Strip foundation	1	CM		
	<u>Assorted reinforcement</u>				
E	Fabric mesh reinforcement to B.S. 4483 ref A142 weighing 2.22kg/m ² (measured net-no allowance made for laps)	32	SM		
	<u>Sawn formwork to:</u>				
F	Soffites of suspended slab, Sides walls and Edge of bed between 150 - 225mm wide	16	SM		
	<u>Water proof cement/sand (1:3) in:</u>				
G	20mm thick screed to floor bed cross falls	16	SM		
H	20mm thick screed trowelled hard and smooth	16	SM		
J	20mm thick render to walls	15	SM		
K	20mm thick render to soffites	16	SM		
	<u>Sundries</u>				
L	Form or leave 100mm diameter hole in 200mm thick reinforced concrete wall and slab	10	No		
M	Form or leave 600 x 600mm hole in 200mm thick reinforced concrete suspended slab	3	No		
N	600 x 600mm heavy duty double manhole cover and frame including setting cover in concrete opening and forming rebate	3	No		
	<i>Carried to Collection</i>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	16mm diameter U-shaped mild steel step iron fixed to structural wall.	10	No		
B	200mm galvanised mild steel water bar on construction joints	26	No		
Approved filling					
C	Hand packed crushed stone hardcore.	10	Cm		
D	Blind surfaces of hardcore with 50mm thick well watered fine murram or crushed stone	4	SM		
E	Insecticide treatment on blinded surfaces with "Termidor" termicide or other equal and approved at the rate of fipromil (250gm/ litre) after dilution with water (1:100) at the rate of 5litres per square metre all in accordance with Manufacturer's Specifications	16	SM		
F	Single layer 1000 gauge polythene sheeting with minimum 300mm side and end laps	4	SM		
Carried to Collection					

ITEM	DESCRIPTION	QTY	UNIT	RATE	K.SHS
A	1No. Soak Pit Excavations Excavate for soak pits exceeding 1.5m depth but not exceeding 3.0m deep starting from ground level spread on site as directed	8	CM		
	Natural Stone Walling				
B	150mm thick walling bedded and jointed in cement sand mortar and reinforced every alternate course with hoop iron	10	SM		
C	Backfilling Approved local hardcore filling	8	CM		
	D	Approved red soil	2	CM	
GRAND SUMMARY					
BILL NO.	DESCRIPTION	Page No			CONTRACTOR'S USE
					K.SHS.
1	PRELIMINARIES	P / 15			
2	WORKS	B/D 5			
	TOTAL KSHS				
	Add VAT 16%				
Total Estimate					
amount in words;					
Contractors signature					Witness Signature
	Stamp				

