

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	COMPLETION OF BOILER, GENERATOR AND COMPRESSOR ROOM AT RORET PINEAPPLE PROCESSING PLANT ELEMENT NO.1 SUBSTRUCTURES (ALL PROVISIONAL) <u>over site excavation</u>				
A	Clear site of grass, shrubs trees and all vegetation cart away as directed.	56	SM		
B	Excavate vegetable soil average 300mm deep wheel and cart away as directed	56	SM		
C	Excavate foundation trench starting from reduce level not exceeding 1.50 metres deep	16	CM		
D	Excavate in hard rock	10	CM		
	<u>Filling and carting away.</u>				
E	Return, fill-in and rum selected excavated materials around foundations	10	CM		
F	Remove and cart away surplus excavated materials.	6	CM		
G	Hardcore filling in making up levels of 1500mm thick in layer maximum thickness.	30	CM		
H	50mm (average)thick quarry dust blinding to surfaces of hardcore	30	SM		
I	Premises 200SC or other equal and approved anti-termite insecticide treatment with ten years guarantee, applied strictly in accordance with manufacture's instruction, to tops of fill and foundation walls.	30	SM		
J	Polythene sheet500gauge ,200mm weltd laps no allowance made to laps horizontal;1 no. layer laid on compacted quarry dust blinding	30	SM		
	<u>Concrete</u>				
K	50mm thick mass concrete class Q (1:3;6) to bottoms of foundations	10	SM		
	<u>Insitu concrete, reinforced; class20/(20mm) vibrated</u>				
L	150mm thick bed	5	CM		
	Reinforcement bars highly yield steel cold worked to BS.4461 including bends hooks tying wire and distance blocks				
M	D 12	60	KG		
	D 8	42	KG		
	CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<u>Fabric B.S.4483</u> Reference A142 mesh 200x 200mm, weight 2.22kgs per square metre (measured net – no allowance made for laps including bends, tying wire and distance blocks.	30	SM		
B	<u>Sawn formwork to insitu concrete as described</u> To sides; vertical or battering of foundations ground beams or the like	7	SM		
C	Edges of ground floor slab;75 to 150mm wide	16	LM		
D	<u>Walling</u> 200mm thick approved natural stone local roughly squared to foundation walling bedding and jointing in cement sand (1;3) mortar.	30	SM		
E	<u>Insitu Finishing</u> 12mm thick 2 No coat work cement sand (1;3) render, wood floated to concrete or block work base to walls external.	7	SM		
F	<u>Painting and decorations</u> <u>Prepare and apply three coats bituminous paint to;</u> Wood floated rendered plinths over 300mm girth	7	SM		
G	<u>Disposal of water</u> Keeping all excavations free from all water including spring or running water		ITEM		
H	Planking and strutting		ITEM		
I	Paving slabs 600x600x 50mm precast concrete class 20/20 paving slabs laid to falls on blinded hardcore surface and jointed in cement and sand (1;3) mortar	30	SM		
	TOTAL CARRIED TO COLLECTION				
	COLLECTION From page BW/1 FROM ABOVE				
	TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY				

	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.2</u>				
	<u>FRAME</u>				
	<u>Insitu concrete; reinforced; class 20/20mm vibrate</u>				
A	Beams	3	CM		
B	Reinforcement				
	<u>Bars; highly yield steel ;cold worked to B.S.4461 including bends hooks tying wire and distance blocks</u>				
	12mmDitto	220	KG		
	8mm Ditto	180	KG		
	<u>Sawn formwork to insitu concrete as described</u>				
C	To sides and soffits of beams	42	SM		
	.				
	TOTAL FOR FRAME CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO.3				
	WALLING				
A	200mm wide B.S743 type A bitumen hessian base 150 mm laps (no allowance made for laps); horizontal 1 no layer bedded in cement sand(1;3) mortar	56	LM		
	<u>NATURAL STONES WALLING</u>				
	<u>Standard quarry stones (approved by P.M) bedding, jointing and pointing in cement sand (1;3) mortar reinforced with and including 25x3mm thick hoop iron at every alternate course</u>				
B	200mm thick walling machinery cut	180	SM		
C	100mm eaves filling 200mm high including dressing between rafters	70	LM		
D	Concrete louvers as per P.M direction	30	SM		
	TOTAL FOR WALLING CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO.4				
	ROOFING CONSTRUCTION				
	<u>Approved box profile sheets; 28 gauge; prepainted</u>				
A	Roof covering; 150mm laps on one end and one and a half corrugation side lap fixed to angle section purlins with and including 3-bolts nut and neoprene washers	120	SM		
	<u>Accessories fixing as necessary to roof sheets</u>				
B	150mm dia half round ridge cap	18	LM		
C	Extra over roofing sheets for raking cutting	20	LM		
	<u>CARPENTRY</u>				
	<u>The following sawn celcured cypress timber trusses nailed connections spanning 3000 to4000mm wide hoisting 9.0m above ground.</u>				
D	150x50mm tie beam	72	LM		
	Ditto tie beams				
E	Ditto king post	168	LM		
F	Ditto under purlins	180	LM		
G	100x50mm struts and ties	160	LM		
	<u>The following in sawn celcured cypress</u>				
H	100x50mm wall plate rag-bolted at 1200mm centres with 12mm diameter bolts(m/s)	36	LM		
I	200x50 mm ridge board	20	LM		
	<u>The following in wrot cypress</u>				
J	200x25mm thick fascia	64	LM		
	<u>Labour and material (provisional)</u>				
K	12mm diameter rag bolt 200mm long complete with and including head nut and two washers ; cast into and including mortice in stone or concrete and run with cement and sand(1;3) mortar	42	NO		
L	Drill 50mm thick timber to receive 12mm dia bolt 9m/s)	42	NO		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Eaves</u> <u>Approved sawn softwood; second grade pressure impregnated</u>				
A	50x50mm second grade celcured and well-seasoned cypress timber brandering	0	LM		
B	Ditto; plugged	0	SM		
C	25X25mm timber slats at 75mm centers nailed to brandering 9m.s)	0	SM		
D	Coffee tray tacked to timber at eaves	0	SM		
	<u>RAINWATER DISPOSAL</u>				
	<u>26g Galvanized mild steel sheeting</u>				
E	Raking flashing overall 400mm girth bent four times to form 50x50mm trough nailed to and including 150x 50mm sawn celcured cypress trimming piece both sides underneath and neatly dressing under roofing files	0	LM		
	<u>240g Galvanized mild steel sheeting all welds ground smooth</u>				
F	150x 100mm box gutter including solder joints in the running length fixed to fascia board with and including brackets at approved centers	38	LM		
G	Extra; for stopped ends	4	NO		
H	Extra for bends	4	NO		
I	Extra ;100 mm dia outlet 100mm long	4	No		
J	100mm dia rain water downpipe fixed with and including mild steel steel straps at 900mm centres plugged and screwed to wall	12	LM		
K	Extra swan neck bend with 1135mm projection	4	NO		
ML	Extra; horse shoe bend	4	NO		
	<u>Painting and decorations</u> <u>On woodwork</u>				

N	<p><u>Prepare and apply one zinc plumbate primer and three coats of CROWN SOLO or other equal and approved super gloss oil paints to:-</u></p> <p>Fascia; 200 to 300 mm girth; external</p> <p><u>Prepare and apply three coats of CROWN SOLO or other equal and approved polyurethane varnish to:-</u></p> <p>Surface of eaves; over 300mm girth external</p> <p>On Metal work</p> <p>General surfaces of gutters; over 300mm girth external</p> <p>Small pipes</p>	56 0 26 5	LM LM SM SM		
	<p>COLLECTION</p> <p>FROM PAGE BW/5</p> <p>FROM PAGE BW/6</p> <p>FROM ABOVE</p>				
	TOTAL FOR ROOF CONSTRUCTION CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	<p><u>ELEMENT NO.5</u></p> <p><u>DOORS</u></p> <p>SUPPLY and install 3000x3000mm door rolling shutters c/w all necessary accessories and furniture</p>	3	No		
	TOTAL CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 6</u>				
	<u>WINDOWS</u>				
	<u>Bull-nosed burnt clay finishing fair on all exposed surface and hoisting and placing in position bedding jointing and pointing in pigmented cement and sand(1;3) mortar</u>				
A	150x25mm thick clay window sill	4	LM		
	<u>Wrot mahogany</u>				
B	150x25mm thick window board including bull-nosed edges and 25x25mm bearer ;plugged counter sinking and flush	0	LM		
C	pelleting	0	LM		
	15x15mm quadrant bead				
	<u>METAL WORK UNITS</u>				
	<u>PURPOSE-MADE UNITS</u>				
	<u>Supply assembles and fixed the following purpose made mild steel casement windows; standard metal section from approved manufacture complete with frames transoms mullions and with and including permanent ventilators comprising;;T'' bar gauze and 16 gauge sheet metal hood 50mm high x 50mm projection to full width of manufacturer's primer all welding ground to smooth finish.</u>				
D	<i>Steel for glazing with putty lugs to two jambs cutting and pinning to concrete or block work fixing to head and sill with screws plugging.</i>	2	NO		
E	Window ,overall size 1500x1800mm high with 2NO openable light size 900x900mm high	0	NO		
	Window overall size 900x900mmhigh complete with 1 No top-hung light size 900x900mm high				
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UN IT	RATE	AMOUNT
	Glazing				
	4mmthick clear sheet glass panes over 0.1 but not exceeding 0.5square meters fixing with putty	6	Sm		
	Ditto but obscure	0	Sm		
	<u>Painting and decorations</u>				
	<u>On metal work</u>				
	<u>Prepare and apply three coats oil paint full gloss to Crown Solo or other equal and approved to</u>				
	General window surfaces over 300mm girth internal	12	Sm		
	General window surfaces over 300mm girth external	12	Sm		
	<u>Aluminum primer or other equal and approved wood primer before fixing;</u>				
	Backs of frame board etc. over 100mm but not exceeding 200mm girth	0	Lm		
	<u>Knot prime and stop prepare and apply one undercoat and two coats of gloss oil paint</u>				
	Frames over 100mm but not exceeding 200mm girth internal	0	LM		
	Frames not exceeding 100mm girth internal	0	LM		
	CARRIED TO COLLECTION				
	TOTAL FOR WINDOWS CARRIED TO SUMMARY				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.7</u>				
	<u>FINISHES</u>				
	<u>Wall finishes</u>				
	Extra over walling for smooth chisel dressing with flush pointed vertical joints and recessed horizontal joints	140	SM		
	<u>Insitu finishes</u>				
	<u>plaster 18mm thick 1No coat work of cement and sand (1;3) wood floated to concrete or block work base generally to</u>				
A	Beams and columns external	0	SM		
B	Walls; internal	196	SM		
	<u>Plaster 18mm thick 2NO coat work 15mm first coat of cement sand (1;3) 3mm second coat of cement and lime putty(1;9) steel troweled to concrete or block work base generally.</u>				
C	Walls, beams and columns internal	0	SM		
	<u>Prepare and apply one undercoat and three coats of first quality emulsion paint to the following surfaces</u>				
D	Plastered walls	196	SM		
	<u>Floor finishes</u>				
	<u>Screed cement and sand(1;3) coloured</u>				
E	40mm thick red-oxide screed to concrete or block work base generally to floor level internal	90	LM		
F	100mm wide skirting rounded junction with wall finish coved junction with floor finish	66	LM		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Cellotex Ceiling</u>				
A	Extra over cellotex ceiling for trap door size 600x450mm wide comprising with and including 50x50mm timber framing	0	NO		
	<u>Painting and decoration</u>				
	<u>On steel trowelled plastered surfaces</u>				
	<u>Prepare and apply one undercoat and three coats of first quality emulsion paint to the following surfaces</u>				
B	Cellotex ceiling surface	0	SM		
C	Moulded cornice not exceeding 100mm girth	0	LM		
	CARRIED TO COLLECTION				
	COLLECTION				
D	FROM PAGE 11				
E	FROM ABOVE				
	TOTAL FOR FINISHES CARRIED TO SUMMARY				

**SUMMARY FOR COMPLETION OF BOILER, GENERATOR AND COMPRESSOR ROOM AT RORET
 PINEAPPLE PROCESSING PLANT.**

ITEM	DESCRIPTION	AMOUNT
	B/F FROM PAGE 2 (ELEMENT 1) B/F FROM PAGE 3 (ELEMENT 2) B/F FROM PAGE 4 (ELEMENT 3) B/F FROM PAGE 7 (ELEMENT 4) B/F FROM PAGE 8 (ELEMENT 5) B/F FROM PAGE 10 (ELEMENT 6) B/F FROM PAGE 12 (ELEMENT 7)	
	SUB-TOTAL FOR BUILDERS WORK FOR BOILER, GENERATOR AND COMPRESSOR ROOM	

COMPLETION OF RORET WASTE WATER TREATMENT PLANT					
SEWER LINE WORKS					
ITEM NO.	DESCRIPTION	UNIT	QUALITY	RATE	AMOUNT
				KSHS	KSHS
1	SITE PREPARATION				
1.1.1	Clear the site of vegetative cover and shrubs and remove from site	M ²	0		
1.1.2	Setting out the sewer line route	M	200		
1.1.3	Cut down edges, grab up all roots and dispose from site	M ²	0		
2	EXCAVATION AND BACKFILLING				
2.1.1	Excavate over hard rock, sewer line trench average width 0.6m and depth n.e 1 m	M ³	200		
2.1.2	Trim the faces and beds of all the excavations to the required levels and profiles with removal of all the lose materials and other debris	M ³	60		
2.1.3	Ditto pits to receive bases and walls of manholes chambers with plan dimension as specified and deposit excess materials from site, for depth not exceeding 1.5m	M ³	20		
2.1.4	Extra over item 213 to cater for working space of 0.6m width all round backfill and remove surplus materials from site	M ³	36		
3	DRAIN PIPES				
3.1.1	Supply, deliver to site and lay 200mm dia unPVC waste water, heavy grade pipes in trench	M	250		
3.1.2	Ditto for 200mm dia heavy duty PVC pipe sat manhole chamber connections and as directed by the Engineer on site	M	48		
3.1.3	Lay all the pipes true to line and level as per the design drawings and Engineer's direction	M	250		
3.1.4	Test the completed drainage pipeline as per the required standards and rectify possible anomalies	M	250		
	SUBTOTAL CARRIED TO COLLECTION PAGE				

	Backfill all the pipe trenches in layers of 225mm with well selected and compacted suitable materials as per the Engineer's direction	M ³	180		
4	MANHOLE CHAMBERS				
	Supply materials and construct manhole chambers with concrete surround and 14-gauge lockable steel cover and frame as per drawing and as directed by the Engineer	No	10		
	SUBTOTAL CARRIED TO COLLECTION PAGE				

IMMOFF TANK WORKS					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
				KSHS	KSHS
5.1	SETTING OUT AND EARTH WORKS				
5.1.1	General site clearance and setting out	m ²	00		
5.1.2	Excavate over site 200mm to remove vegetable soil and remove from site	m ²	00		
5.1.3	Excavate pit foundation to depth n.e 12m over hard ground	m ³	00		
5.1.4	Extra over soft rock over 3.2m but n.e 15m and remove surplus materials from site	m ³	00		
5.2	TANK CONSTRUCTION				
5.2.1	Supply materials, transport to site, fill and compact 50mm thick blinding layer on tank foundation base	m ²	00		
5.2.2	Supply materials, transport, place and compact concrete class 20 in wall, tank slab and roof	m ³	124.93		
5.2.3	Ditto and construct formwork to wall and slab	m ²	600		
5.2.4	Ditto, cut bend and fix Y-12 bars to roof, slab and foundation slab @ 200mm c/c	Kg	8000		
	Subtotal				
5.3	Allow for fixing and testing following items				
5.3.1	80mm dia. Sludge withdrawal pipe	M	6		
5.3.2	200m dia. Inlet and outlet pipes	M	6		
5.3.4	Ditto perforated pipes	M	12		
	Sub total				
6	Allow provisional sum for the construction of soak pit	No	2		
	SUBTOTAL CARRIED TO COLLECTION PAGE				

Kericho County, Strategic Intervention Projects 2018/2019 Financial Year
 Completion of Boiler, Generator and Compressor Rooms and Waste Water Treatment Plant at Roret

Item No	Description	Qty	Unit	Rate	Amount
	Brought forward from page 14				
	Brought forward from page 15				
	Brought forward from page 16				
	TOTAL FOR WASTE WATER TREATMENT CARRIED TO SUMMARY				

Item No	Description	Qty	Unit	Rate	Amount
	PROVISIONAL SUMS				
	The following provisional sums are to be measured on completion and priced in accordance with the rates contained in these bills of quantities or prorate thereto or deducted in whole if not required				
A	Allow a provisional sum of Kenya shillings Three hundred thousand (Ksh. 300,000) only for project manager's expenses		Item		300,000.00
B	Allow a provisional sum of Five Hundred Thousand Shillings only (Ksh. 500,000) for electrical works		Item		500,000.00
	TOTAL FOR P.C & P ROVISIONAL SUMS CARRIED TO GRAND SUMMARY				800,000

GRAND SUMMARY

ITEM	DESCRIPTION	AMOUNT
		K.SHS.
	BOILER, COMPRESSOR AND GENERATOR ROOMS WASTE WATER TREATMENT PLANT PROVISIONAL SUMS	800,000
	SUB TOTAL ADD 5% CONTINGENCY TOTAL WITH CONTINGENCY ADD 16% VAT	
	GRAND TOTAL WITH CONTINGENCY AND VAT CARRIED TO FORM OF TENDER	

AMOUNT IN WORDS.....

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CONTRACTOR

NAME:.....

.....**SIGN**.....**DATE**.....

WITNESS NAME:.....**SIGN**.....**DATE**.....