

INSTALLATION ITEMS.

No	Description	Qty	Unit	Rate	Amount
	<u>GROUND FLOOR</u>				
	<u>WATER CLOSET (WC)</u>				
A	General purpose squatting type WC suite as Twyford 'ORIENTAL' comprising of the following-: Ø Floor plate in enamelled clay with integral foot treads ref. NO. FC9154WH Ø Pan in Vitreous china to BS3402 ref.No.VC4521. Ø Loose S trap in vitreous china to BS3402 ref.No.VC4521.	16	No		
B	<u>FLUSH VALVES</u> 32mm dia water closet flush valve for General purpose squatting "WC" complete with back entry with intergral vacuum breaker,non-hold-open features and non return valve,bent chrome plated flush pipe and rubber pipe connector.The flush valve to be as "DOCOL" or equal and approved.	16	No		
C	<u>WASH HAND BASIN (WHB)</u> Heavy duty cylindrical sink size 600x600mm with two tap holes, on concrete work top support and unslotted chain waste fitting complete with lever action bib tap for cold water all as ASL or equal and approved.	12	No.		
D	<u>DHOBI SINK</u> Stainless steel dhobi sink size 750x455x300mm deep (approx) complete with 20mm chrome plated bricon top with chrome plate chain and rubber stopper and heavy gauze 11/2" bottle trap.	8	No.		
E	<u>MIRRORS</u> 6mm thick polished plate glass, silver backed mirror with beveled edges, size 1200x600mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back nest.	4	No		
F	<u>SHOWER FITTINGS</u> Surface shower fitting consisting of 15mm dia chrome plated riser pipent to connect the surface shower mixer for hot and cold water to the swivel/adjustable shower rose and chrome plated handles and stop corks to be as Bricon/aztec or equal and approved	16	No		
	Sub total carried forward to Collection Page 4 ; Kshs.				

No	Description	Qty	Unit	Rate	Amount
A	<p style="text-align: center;"><u>SPECIAL NEEDS</u></p> <p><u>WATER CLOSET AND WASH HAND BASIN FACILITY</u> <u>(DISABLED PERSON)</u></p> <p>A completely assembled unit of wheel chair accessible WC/WHB/SHOWER and disabled toilet combination facility comprising :</p> <ul style="list-style-type: none"> Ø A close-coupled white in colour WCbowl with horizontal outlet, complete with 7.5 litre Cistern with fittings and additional security. Ø Wall mounted wash hand basin with one L/Handor R/Hand offset tap hole and chain stay hole, wall brackets, lever action chrome plated 15mm dia.Tap,chrome plated chain waste32mm Ø 5No.600mm long grab rails Ø 1No. hinged support rail and toilet roll holder Ø Doc.M back support with cushion Ø Mirror 400mm wide by 900mm high fixed 900mm above floor Ø disabled shower unit complete with accessible wheel chair 	4	Set		
	Sub total carried forward to Collection Page 4 ; Kshs.				

No	Description	Qty	Unit	Rate	Amount
	<u>FIRST,SECOND AND THIRD FLOOR</u>				
	<u>WATER CLOSET (WC)</u>				
A	General purpose squatting type WC suite as Twyford 'ORIENTAL' comprising of the following-: Ø Floor plate in enamelled clay with integral foot treads ref. NO. FC9154WH Ø Pan in Vitreous china to BS3402 ref.No.VC4521. Ø Loose S trap in vitreous china to BS3402 ref.No.VC4521.	48	No		
B	<u>FLUSH VALVES</u> 32mm dia water closet flush valve for General purpose squatting "WC" complete with back entry with integral vacuum breaker,non-hold-open features and non return valve,bent chrome plated flush pipe and rubber pipe connector.The flush valve to be as "DOCOL" or equal and approved.	48	No		
C	<u>WASH HAND BASIN (WHB)</u> Heavy duty cylindrical sink size 600x600mm with two tap holes, on concrete work top support and unslotted chain waste fitting complete with lever action bib tap for cold water all as ASL or equal and approved.	36	No.		
D	<u>DHOBI SINK</u> Stainless steel dhobi sink size 750x455x300mm deep (approx) complete with 20mm chrome plated bricon top with chrome plate chain and rubber stopper and heavy gauze 1 1/2" bottle trap.	24	No.		
E	<u>MIRRORS</u> 6mm thick polished plate glass, silver backed mirror with beveled edges, size 1200x600mm plugged and screwed to wall with 4No. Chrome plated chrome capped screws and 5mm thick foam back nest.	12	No		
F	<u>SHOWER FITTINGS</u> Surface shower fitting consisting of 15mm dia chrome plated riser pipent to connect the surface shower mixer for hot and cold water to the swivel/adjustable shower rose and chrome plated handles and stop corks to be as Bricon/aztec or equal and approved	48	No		
	Sub total carried forward to Collection Page 4 ; Kshs.				

COLLECTION PAGE FOR SANITARY FITTINGS

No	Description	Amount
A	Total Brought forward from page 1	
B	Total Brought forward from page 2	
C	Total Brought forward from page 3	
D	Total carried forward to Collection Page 17; Kshs.	

No	Description	Qty	Unit	Rate	Amount
	INTERNAL PLUMBING				
	Supply, deliver and install tubing and fittings as described and shown on the drawings.				
	Tenderers must allow for jointings, clippings,couplings etc necessary for the proper and satisfactory functioning of the system when pricing.				
	The following in PN 20 PPRC conforming to the current European standards for PPR installations and to the Engineers approval, pipe jointing shall be by polyfusion or use of electric coupling				
	Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves , sockets,sliding and fixed joints, support raceways, isolating sheaths, elastic materials, expansion arms and bends, crossovers etc.				
	<u>PPR.pipes</u>				
A	20mm dia. pipe chased in walls/floors and in duct	120	Lm		
B	25mm ditto	60	Lm		
C	32mm Ditto	60	Lm		
D	40mm Ditto	80	Lm		
E	50mm Ditto	80	Lm		
F	63mm Ditto	60	Lm		
G	75mm Ditto	60	Lm		
	<u>Extra over PPR. pipework for the following</u>				
	<u>Bends/elbows</u>				
H	20mm diameter female threaded bend/elbow	30	No		
J	25mm ditto	30	No		
K	32 mm ditto	20	No		
L	40 mm ditto	20	No		
M	50 mm ditto	24	No		
N	63 mm ditto	20	No		
P	75 mm ditto	20	No		
	<u>Unequal Tees</u>				
Q	25x20mm diameter Tee	30	No		
R	32x20mm-ditto	30	No		
S	32x25mm-ditto	20	No		
T	40x25mm ditto	20	No		
U	40x32mm ditto	24	No		
V	50x40mm ditto	20	No		
W	63x50x40mm ditto	20	No		
X	75x63mm female threaded Tee	5	No		
	<u>Female threaded adaptors</u>				
Y	20x½” dia. Female threaded 90° bend	30	No		
Z	25x¾" Female threaded adaptor	30	No		
Z1	32x1” ditto	20	No		
Z2	40x1¼” ditto	20	No		
Z3	50x1½” ditto	24	No		
Z4	63x1½” ditto	20	No		
Z5	75x1½” ditto	20	No		
	Sub total carried forward to Collection Page 7 ; Kshs.				

No	Description	Qty	Unit	Rate	Amount
A	Gate valves 15 mm diameter approved medium pressure screw down full way non-rising stem wedge gate valve to BS 1952, with wheel and head joints to steel tubing. The gate valve to be as PEGLER or approved equivalent.	8			
B	20mm –ditto-	8	No		
C	25mm –ditto-	8	No		
D	32mm –ditto-	8	No		
E	63mm –ditto-	2	No		
F	75mm –ditto-	2	No		
	Ball valve				
G	32 mm diameter ball valve and plastic float	8	No		
H	<u>ROOF WATER TANK</u> Supply PVC water tank and of capacity of the tank to be approximately 2,300 litres. The tank to vest of dwarf walls erected by others. The tank to be complete with tank cover 32mm inlet connection, Screened 32mm overflow connection, 50mm outlet connection, Float switch/regulator, Access cover, Non slip walkways on roof panels, mosquito proof inspection vent, water level indicators, .The tank to be installed according to structural Engineer's details	8	No		
I	<u>STERILIZATION</u> Allow for flushing and sterilization of the as required to the satisfaction of the Engineer	1	Item		
J	<u>TESTING AND COMMISSIONING</u> Allow for setting to work, testing and commissioning of system to the satisfaction of the Engineer.	1	Item		
	Sub total carried forward to Collection Page 7; Kshs.				

COLLECTION PAGE FOR INTERNAL PLUMBING

No	Description	Qty	Unit	Rate	Amount
A	Total Brought forward from page 5				
B	Total Brought forward from page 6				
	Total for Internal Plumbing carried forward to Collection Page 17 ; Kshs.				

No	Description	Qty	Unit	Rate	Amount
	INTERNAL DRAINAGE				
	All drainage pipes to be as 'Key Terrain or equal and approved equivalent. Allow for connection to the nearest manholes. UPVC and muPVC pipe work.				
	UPVC and muPVC pipework				
A	100mm heavy duty golden brown pipe class D	120	Lm		
B	100mm diameter heavy duty grey pipe class D	120	Lm		
C	50mm ditto	60	Lm		
D	40mm ditto	60	Lm		
E	32mm ditto	60	Lm		
	Extra over UPVC and muPVC pipework for the following				
	Bends				
F	32mm diameter bend	20	No		
G	40mm diameter bend	15	No		
H	32mm diameter Tee	15	No		
J	40mm diameter Tee	20	No		
K	50mm diameter 135° Tee	15	No		
L	100mm single branch	16	No		
M	32mm diameter plug	12	No		
N	40mm diameter plug	12	No		
P	50mm diameter plug	12	No		
Q	100mm diameter plug	16	No		
R	40X32 reducer	20	No		
S	40mm boss connector	15	No		
T	50mm ditto	15	No		
U	100x50 mm diameter floor trap and grating	64	No		
V	100mm diameter access bend	20	No		
W	100mm diameter short radius bend	10	No		
X	100mm long radius bend	10	No		
Y	WC connector	64	No		
Z	100mm diameter vent cowl	4	No		
Z1	100mm diameter weathering slate	4	No		
Z2	100mm weathering apron	4	No		
Z5	Inspection Chambers Allow excavation ,concreting to class 1:3:6, walling 150mm thick solid concrete block walls with 1:3mortar and plastering to 1:2, medium duty Rectangular cover and frame to specification for Manhole not exceeding 1500mm depth.	20	No		
Z6	Gully traps Ditto but 100mm diameter gully trap complete with golden brown plastic seal pipe, cast aluminum Grating, chamber and concrete cover.	8	No		
	Sub total carried forward to Collection Page 9 ; Kshs.				
	pg 8				

COLLECTION PAGE FOR INTERNAL INTERNAL AND EXTERNAL DRAINAGE

No	Description	Amount
A	Total for drainage brought forward from page 8	
	Total for Internal and External Drainage carried forward to page 17	

No	Description	Qty	Unit	Rate	Amount
	<u>HOSE REEL SYSTEM AND PORTABLE FIRE FIGHTING</u>				
	Supply, deliver, install and fix the following fire fighting equipment in positions indicated on the contract drawings: -				
A	9 litres water/carbon dioxide extinguisher to BS 1382 and BS 5423 and with normal charge and wall mounting brackets	8	No		
B	4.5 Kg Carbon dioxide gas fire extinguisher to BS 3326 and BS 3326 and BS 5423 and with normal charge and wall mounting brackets	8	No		
C	5 kg dry powder fire extinguisher with normal charge and mounting brackets	8	No		
D	9" (225mm) wall mounted manual Bell	8	No		
E	<u>HOBBY PUMPS</u>				
	Automatic Hobby pumps (twin) set on a common frame giving duty of 2.3litres/sec at ahead of 2.1 bars.The pumps to be complete with a pressure tank(24litres),electrical supply wiring in steel conduit,				
F	Fire Exit sign as described in section 4.8 of particular specifications	10	No		
	<u>FIRE HOSE CABINET</u>				
H	Surface mounted fire hose cabinet manufactured from electrogalvanised steel sheet with folded edges and curled hose plate edges and painted with electro static powder coating,180 ⁰ C baked.The cabinet to have adequate space to house 30m long hose reel and 3No.portable fire extinguishers and should conform to BS EN 671-1.To be as Germania or equal and approved				
I	Supply deliver and assemble water tank on flat roof,made of pressed steel sectional tank plates 6mm thick plates(type 1 and 2) and of size 1220x1220 mm capacity of tank to be 10,000 litres and of preferred dimensions 2500mm x4000mm high.The tank to come complete with cover,mosquito proof inspection vent,internal stays,joining material,bolts and nuts including applying two coats of non-toxic bituminous paint on the inside and two coats of aluminium paint on the outside				
	Sub total carried forward to Collection Page 12; Kshs.				

No	Description	Qty	Unit	Rate	Amount
A	Swing type hose reel assembly from an approved manufacturer complete with a 30m diameter rubber hose with an adjustable nozzle and mounting brackets "To be as ANGUS"	8	No		
B	25 mm G.I. pipe	60	Lm		
C	50mm ditto	24	Lm		
D	25mm diameter bend	10	No		
E	50mm ditto	8	No		
F	50x25 mm dia unequal Tee	12	No		
G	50x25mm reducing bush	12	No		
H	25mm gate valve	8	No		
I	25 diameter union	10	No		
J	50mm ditto	8	No		
K	Allow for setting to work, testing and commissioning of the Hose reel system and the fire extinguishers to the approval of the Engineer	Item	Item		
Sub total carried forward to Collection Page 12; Kshs.					

COLLECTION PAGE FOR HOSE REEL AND PORTABLE FIRE FIGHTING EQUIPMENT

No	Description	Amount
A	Carried forward from Page 10	
B	Carried forward from Page 11	
	Total for Fire Fighting Equipment carried forward to The Main Summary Page 17; Kshs.	

No	Description	Qty	Unit	Rate	Amount
	<u>EXTERNAL WATER RETICULATION</u>				
	NOTE: The following quantities for water reticulation are measured from the external surface of buildings wall to the main supply pipe				
A	Excavate trench for 63mm dia. pressure pipe work not exceeding 1500mm deep and 750mm deep on average, part refill and ram, and surplus cart away.	120	Lm		
B	Ditto for 63 mm dia pipe	60	Lm		
C	Ditto for 50mm dia pipe	50	Lm		
D	Supply, deliver and install Upvc pressure pipes medium grade class "B" pipe work . Tenderers must allow in their prices for adequate supports, unions couplings, etc necessary for the proper functioning of the water reticulation system.				
E	50mm – ditto-	50	Lm		
F	63mm – ditto-	60	Lm		
G	75mm – ditto-	120	Lm		
	Extra over Upvc pipe work for the following: -				
	<u>BENDS</u>				
H	50mm diameter x 90 ⁰ bends	10	No		
I	63mm diameter x 90 ⁰ bends	12	No		
J	75mm diameter x 90 ⁰ bends	8	No		
	<u>TEES</u>				
K	63x50mm unequal Tee	10	No		
L	75x50mm -ditto-	2	No		
M	75x63mm –ditto-	2	No		
N	75x75mm equal Tee	8	No		
P	63mm –ditto-	8	No		
	<u>REDUCING BUSHES</u>				
Q	75x 63mm reducing bush	4	No		
R	75x50mm ditto	4	No		
	<u>VALVES CHAMBERS AS "PEGLER"</u>				
S	65mm diameter sluice valve	4	No		
T	75mm ditto	2	No		
U	50mm –ditto-	2	No		
	<u>PLUGS</u>				
V	65mm diameter plug	4	No		
W	75mm ditto	4	No		
X	50mm diameter –ditto-	4	No		
Y	Standard pre-cast concrete (1:2:4) water line marker post marked (WL) set in concrete (1:3:6) base including excavation and disposal and all necessary painting	8	No		
Z	<u>STERILIZATION</u>				
	Allow for flushing and sterilization of the external water reticulation system as required to the satisfaction of the Engineer	1	Item		
Z1	<u>TESTING AND COMMISSIONING</u>				
	Allow for setting to work, testing and commissioning of the whole external water reticulation system to the satisfaction of the Engineer.	1	Item		
	Sub total carried forward to Collection Page 14 ; Kshs.				
	pg 13				

COLLECTION PAGE FOR EXTERNAL WATER RETICULATION

No	Description	Amount
A	Carried forward from Page 13	
	Total for External water Reticulation carried forward to The Main Summary Page 17 ; Kshs.	

No	Description	Qty	Unit	Rate	Amount
A	<p><u>SOLAR INSTALLATIONS</u></p> <p>Solar Installations The hot water system shall consist of a solar hot water system with auxiliary electrical heating elements for use during periods of low solar intensity.</p> <p>A Solar hot water system consisting of an efficient Solar Collector with an area of about 2m² and a hot water cylinder with a minimum capacity of 450litres. The cylinder shall be fabricated from 6mm thick mild steel plate and hot dipped galvanized after manufacture, It shall have polyethrene foam insulation of minimum thickness 50mm which shall then be protected with a galvanised mild steel sheet. The cylinder shall be installed in the ceiling void. The package shall also incorporate a pressure relief/safety valve, gate valve and a non return all size 20mm. It shall be as SUNRAY systems of Australia or an approved equivalent.</p>	8	Set		
<p>Total for solar system installation carried forward to The Main Summary Page 17 ; Kshs.</p>					

PROJECT ENGINEER'S STATIONERY/ EXPENSES

No	Description	Qty	Unit	Rate	Amount
A	Toner cartridge for HP Medium Duty Laser jet printer 1300 series	2	No	12,000	24,000
B	Photocopying paper size A4, 80g/cm ³ white – 500sheets	50	Reams	600	30,000
C	Laptop computer as described on page FX-4	1	No	100,000	100,000
D	Size A1print roll plain ammonia paper	5	Rolls	2,000	10,000
E	Size A1plot roll plain paper	5	Rolls	2,000	10,000
F	Flash disks with one year warranty (4 GB)	3	No	3,000	9,000
G	Project Engineers expenses				400,000
G	Total carried forward to the main summary page G-24				583,000

MAIN PRICES SUMMARY PAGE

No	Description	Amount (Ksh)
A	Total for Sanitary fittings brought forward from summary page G – 11	
B	Total for plumbing brought forward from summary page G – 14	
C	Total for drainage brought forward from summary page G – 16	
D	Total for Fire protection services brought forward from G – 19	
E	Total for External water reticulation brought forward from summary page G – 21	
F	Total for solar system installations brought forward from summary page G – 22	
G	Total for Stationaries brought forward from summary page G - 33	583,000
	SUB-TOTAL Kshs.	
H	Lump sum cost of contractor preliminaries	
I	Contingency sum to be used at the direction of the Engineer ... Kshs.	500,000
	TOTAL AMOUNT CARRIED TO FORM OF TENDER... Kshs.	

Total Amount in words:- Kenya Shillings;

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Tenderer's Name and Stamp;

.....

Signature;

PIN No.

Witness;

Signature of Witness; V.A.T Certificate No.

Address;

Date:

SCHEDULE OF UNIT RATES

No	Description	Qty	Unit	Rate	Amount
A	Sluice valve	1	No		
B	25mm PPR -pipe	10	Lm		
C	25mm Gate Valve	2	No		
D	Automatic Hand drier	1	No		
E	30m longSwinging Hese reel	1	No		
F	9Kg Dry chemical powder fire extinguisher	1	No		
G	Instant water heater	1	No		
H	100mm dia G.I pipe	10	Lm		
J	Standard Man hole with cover	1	No		
K	100mm dia PVC pipe	10	Lm		
L	100mmx50mm PVC reducer	1	No		
M	25mm PPR -pipe adaptor	10	No		
	Sub total carried forward to collection page				