

PROPERTY OF:

WINDLE TRUST INTERNATIONAL

Juba - CES - Republic of South Sudan

BILLS OF QUANTITIES

FEB. 2022



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Windle Trust Office Building

February 2022

Property of: Windle Trust International

Juba - CES - Republic of South Sudan

Bills of quantities should be read in Conjunction with Specifications and drawings.

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
1	Excavations & Earth work				
1.1	site clearance & planning:				
1.1.1	Site clearance	JOB	1		
1.1.2	Site planning:	JOB	1		
	Total carried to collection				
1.2	Excavations & Earth work				
	Excavation for footings and sub-structure complete for the building as per drawings and Engineer instructions. Include the removal of excavated materials to a location approved by local authorities the following excavations are measured net and are to include any necessary planking, strutting, disposal and filling of soil.				
1.2.1	Excavate for column pits of different sizes 3.00 m deep (or as specified on site)	M ³	187		
1.2.2	Backfill and compact in layers not exceeding 20 cm thickness for foundation using selected material below raft foundation	M ³	157		
1.2.3	Cart & Remove away excavated soil	M ³	30		
	Total carried to collection				

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Item	Description	Amount(USD)
	<i>Collection</i>	
1	Excavation & Earth Works	
1.1	Site clearance & Planning	
1.2	Excavation & Earth Works	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
2	Concrete Works				
2.1	Foundation & substructure				
2.1.1	Plain Concrete				
	Provide & Mix and cast in position plain concrete Grade 15 for the following :				
2.1.1.1	100 mm thickness under isolated column bases	M ²	58		
	Total carried to collection				
2.1.2	Reinforced Concrete				
	Provide all materials Mix and cast in position (as per drawing) reinforced concrete minimum strength 30kg/cm ³ using OPC cement including reinforcement and work for the following :				
2.1.2.1	Reinforced Concrete Footings	M ³	27		
2.1.2.2	Reinforced Concrete Short columns	ML	21		
2.1.2.3	Reinforced Concrete Slab 10 cm (Nominal Reinforcement)	M ²	211		
2.1.2.4	Reinforced Concrete grade beam	ML	187		
	Total carried to collection				
2.2	Super Structure				
	Reinforced Concrete Mix and lay in position or Ready Mix Concrete from an approved provider as per specification ; reinforced concrete; grade 25; vibrated; include for Reinforcement, a high tensile steel bars; grade 460 n/mm ² ; to conform with the relative British Standard Specifications; also include for construction and construction joints, in super-structure as shown in the drawings				
2.2.1	Ground Floor				
2.2.1.1	Reinforced Concrete columns	ML	57		
2.2.1.2	Reinforced Concrete Cover Slab	M ²	234		
2.2.1.3	Reinforced Concrete Beams	ML	52		
2.2.1.4	Reinforced Concrete Staircase as per drawings	JOB	1		
2.2.1.5	Reinforced Concrete lintels	ML	26		
2.2.1.6	Provide & lay conduit pipes, electrical boxes and fix all electrical points according to the electricity layout plan , Allow conduit pipes for main distribution board and all necessary pipes before casting concrete for beams and slab	M ²	234		
	Total carried to collection				
2.2.2	First Floor				
2.2.2.1	Reinforced Concrete columns	ML	57		
2.2.2.2	Reinforced Concrete Cover Slab	M ²	97		
2.2.2.3	Reinforced Concrete Beams	ML	54		
2.2.2.4	Reinforced Concrete Staircase as per drawings	JOB	1		
2.2.2.5	Reinforced Concrete lintels	ML	39		
2.2.2.6	Provide & lay conduit pipes, electrical boxes and fix all electrical points according to the electricity layout plan , Allow conduit pipes for main distribution board and all necessary pipes before casting concrete for beams and slab	M ²	97		
	Total carried to collection				

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Item	Description	Amount(USD)
	<i>Collection</i>	
2	Concrete Works	
2.1	Foundation & Sub structure	
2.2	Super Structure	
2.2.1	Ground floor	
2.2.2	First Floor	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
3	<i>Brick Works</i>				
	Provide & Build 20 cm thick brick walls in 1:6 mix cement sand mortar				
3.1	Dwarf wall	ML	374		
3.2	Ground Floor	M ²	149		
3.3	First Floor	M ²	382		
3.4	Parabet Walls	ML	36		
Total carried to Collection					

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Bills of quantities should be read in Conjunction with Specifications and drawings.

Item	Description	Amount(USD)
	<i>Collection</i>	
3	Brick Works	
3.1	Dwarf wall	
3.2	Ground Floor	
3.3	First Floor	
3.4	Parbet Walls	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
4	Water proofing works				
	Provide & Fix 4mm Bituminous sheets complete with a bitumen prime coat (or equivalent)				
	Total carried to collection				
4.1	Ground Floor				
4.1.1	to floor level	M ²	211		
	Total carried to collection				
4.2	First Floor				
4.2.1	to toilets & kitchen	M ²	28		
4.2.2	Ditto but to balconies	M ²	6		
	Total carried to collection				
4.3	Roofing				
4.3.1	Provide & Apply khafgy to roof with clear slopes	M ²	97		
4.3.2	Prpvide & Apply cold applied bituminous emulsion at an average of 350 gr/m2 , 1 hot applied elastomeric membrane of 3mm thick SBS modified bitumen; 1 cap sheet roofing SBS modified bitumen membrane with 180 gr/m2 polyester reinforcement and granular surface; include sealants, flahing,polyester non woven geotextile 150 gr/m2, and all necessary material and accessories as per Engineer approval	M ²	97		
4.3.3	Ditto; skirting including groove, sealant and flashing	ML	24		
	Total carried to collection				

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Item	Description	Amount(USD)
	<i>Collection</i>	
4	Water proofing Works	
4.1	Ground floor	
4.2	First Floor	
4.3	Roofing	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
5	Plaster Works				
	Provide & Plaster 200 mm thick in 1:6 cement and sand mortar as specified on drawings.				
	Total carried to collection				
5.1	Ground Floor				
5.1.1	Plaster for Ceiling	M ²	203		
5.1.2	Ditto but for internal walls	M ²	367		
5.1.3	Ditto but for External walls.	M ²	149		
5.1.4	Ditto for staircase	JOB	1		
5.1.5	Ditto for free column	JOB	1		
	Total carried to collection				
5.2	First Floor				
5.2.1	Plaster for Ceiling	M ²	97		
5.2.2	Ditto but for internal walls	M ²	421		
5.2.3	Ditto but for External walls.	M ²	171		
5.2.4	Ditto for Beams	JOB	1		
5.2.5	Ditto for Pergola	JOB	1		
	Total carried to collection				
5.3	Roof				
5.3.1	Plaster for External walls.	M ²	19		
5.3.2	Ditto for Beams	JOB	1		
5.3.3	Ditto for Pergola	JOB	1		
	Total carried to collection				

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Item	Description	Amount(USD)
	<i>Collection</i>	
5	Plaster Works	
5.1	Ground Floor	
5.2	First Floor	
5.3	Roof	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
6	Ironmongery & Joinery Works				
6.1	Ground Floor				
6.1.1	Curtain walls :				
	Aluminum powder coated double glazed curtain wall with fixed panels ,double glazing consisting of 6 mm high performance light blue tinted glass from outside, 12 mm air gap space and 6 mm obscure toughened glass from inside, door glazing to be 12 mm thk fully tempered glass				
6.1.1.1	Curtain Wall type (CW01)	No	1		
6.1.1.2	Curtain Wall type (CW02)	No	1		
6.1.1.3	Curtain Wall type (CW04)	No	1		
6.1.1.4	Curtain Wall type (CW06)	No	1		
6.1.1.5	Curtain Wall type (CW07)	No	1		
6.1.1.6	Curtain Wall type (CW09)	No	1		
6.1.1.7	Curtain Wall type (CW10)	No	1		
6.1.1.8	Curtain Wall type (CW12)	No	1		
6.1.1.9	Curtain Wall type (CW13)	No	1		
6.1.1.10	Curtain Wall type (CW15)	No	1		
6.1.2	Doors				
6.1.2.1	Provide & Fix solid Aluminium external doors with cladding rebate edge with large frame covering wall width architrave internally & externally with high quality accessories for the following :-				
6.1.2.1.1	Door type (DX1)	No	1		
6.1.2.2	Provide & Fix Aluminum powder coated sliding door, with 6 mm thick high performance single glazing as per drawings.				
6.1.2.2.1	Door type (DN1)	No	5		
6.1.2.2.2	Door type (DN2)	No	2		
6.1.3	Windows				
	Provide & fix single Glazed 6 mm blue reflected glass with Aluminium frame complete with metal grill as per drawings and Engineer approval				
6.1.3.1	Window type (W01)	No	3		
6.1.3.2	Window type (W03)	No	2		
6.1.3.3	Window type (W05)	No	3		
6.1.4	Steel works				
6.1.4.1	Provide & Fix 50 mm stainless steel supporting post (tubular section),with 25 mm stainless steel balustrade (tubular section) handrail for staircase	ML	6		
Total carried to collection					
6.2	First Floor				
6.2.1	Curtain walls				
	Aluminum powder coated double glazed curtain wall with fixed panels ,double glazing consisting of 6 mm high performance light blue tinted glass from outside, 12 mm air gap space and 6 mm obscure toughened glass from inside, door glazing to be 12 mm thk fully tempered glass complete with louvers as per drawings & Engineer approval				
6.2.1.1	Curtain Wall type (CW03)	No	2		
6.2.1.2	Curtain Wall type (CW05)	No	2		
6.2.1.3	Curtain Wall type (CW08)	No	1		
6.2.1.4	Curtain Wall type (CW11)	No	1		
6.2.1.5	Curtain Wall type (CW14)	No	1		
6.2.1.6	Curtain Wall type (CW16)	No	1		
6.2.2	Doors				
6.2.2.1	Provide & Fix solid Aluminium external doors with cladding rebate edge with large frame covering wall width architrave internally & externally with high quality accessories for the following :-				
6.2.2.1.1	Door type (DX1)	No	1		
6.2.2.2	Provide & Fix Aluminum powder coated sliding door, with 6 mm thick high performance single glazing as per drawings.				
6.2.2.2.1	Door type (DN1)	No	8		

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
6.2.2.2.2	Door type (DN2)	No	4		
6.2.2.2.3	Door type (DN2)	No	1		
6.2.3	Windows				
	Provide & fix single Glazed 6 mm blue reflected glass with Aluminium frame				
6.2.3.1	Window type (W01)	No	6		
6.2.3.2	Window type (W02)	No	2		
6.2.3.3	Window type (W04)	No	3		
6.2.4	Steel works				
6.2.4.1	Provide & Fix 50 mm stainless steel supporting post (tubular section),with 25mm stainless steel balustrade (tubular section) handrail	ML	24		
6.2.4.2	Provide and install 4*8cm rectangular steel pipes for purgola (300*480cm), fixed to steel frame, complete with purgola and all accessories as per drawings and the Engineer satisfaction	M ²	30		
	Total carried to collection				
6.3	Roof				
6.3.1	Steel works				
6.3.1.1	Provide and install 4*8cm rectangular steel pipes for purgola (300*480cm), fixed to steel frame, complete with purgola and all accessories as per drawings and the Engineer satisfaction	M ²	47		
6.3.1.2	Provide and install steel truss complete with steel purlins, angles, eaves, insulation, roof tiles, false ceiling and all accessories as per drawings and the Engineer satisfaction	M ²	213.95		
	Total carried to collection				

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Item	Description	Amount(USD)
	<i>Collection</i>	
6	Ironmongery & Joinery Works	
6.1	Ground Floor	
6.2	First Floor	
6.3	Roof	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
7	Pavior Works				
7.1	Ground Floor				
7.1.1	Provide & lay 60x60 cm Porcelain tiles of approved quality for floor.	M ²	182		
7.1.2	Ditto but Porcelain skirting	ML	113.32		
7.1.3	Provide & lay 20x20 cm Ceramic tiles of approved quality for toilets floor	M ²	21		
7.1.4	Ditto but 20x30 cm Ceramic wall tiles for toilet & kitchens	M ²	151		
7.1.5	Provide & Lay Granite Tread size 30 x 120 x3 cm & Riser size 16x120x2 cm	No	20		
7.1.6	Provide & Lay Granite tiles for staircases landing.	M ²	3		
	Total carried to collection				
7.2	First Floor				
7.2.1	Provide & lay 60x60 cm Porcelain tiles of approved quality for floor.	M ²	170		
7.3.2	Ditto but Porcelain skirting	ML	139		
7.3.3	Provide & lay 20x20 cm Ceramic tiles of approved quality for toilets floor	M ²	33		
7.3.4	Ditto but 20x30 cm Ceramic wall tiles for toilet & kitchens	M ²	192		
	Total carried to collection				

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Item	Description	Amount(USD)
	<i>Collection</i>	
7	Pavior Works	
7.1	Ground Floor	
7.2	First Floor	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
8	Painting Works				
	Provide & Plaster 200 mm thick in 1:6 cement and sand mortar as specified on drawings.				
	Total carried to collection				
8.1	Ground Floor				
8.1.1	Paint for Ceiling	M ²	203		
8.1.2	Ditto but for internal walls	M ²	367		
8.1.3	Ditto but for External walls.	M ²	149		
8.1.4	Ditto for staircase	JOB	1		
	Total carried to collection				
8.2	First Floor				
8.2.1	Paint for Ceiling	M ²	71		
8.2.2	Ditto but for internal walls	M ²	421		
8.2.3	Ditto but for External walls.	M ²	171		
8.2.4	Ditto for Beams	JOB	1		
8.2.5	Ditto for Pergola	JOB	1		
	Total carried to collection				
8.3	Roof				
8.3.1	Paint for internal walls	M ²	19		
8.3.2	Ditto for Beams	JOB	1		
8.3.3	Ditto for Pergola	JOB	1		
	Total carried to collection				

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Item	Description	Amount(USD)
	<i>Collection</i>	
8	Painting Works	
8.1	Ground Floor	
8.2	First Floor	
8.3	Roof	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
9	Electrical Works				
9.1	Lighting and sockets and fans				
	Supply, install, test and commission of panelboard casing, circuits breakers,cables and wires connections, earthing connection, MCCBs,MCBs,ELCBs and all necessary accessories, labor,tools, transport, testing, one year guarantee, all overhead expenses and as shown on the drawings & load schedule.				
9.1.1	Suspended LED, 240V ~ 50 HZ, 24.5W, CRI>80, 2800lm AND CCT 4000K, IP22	No	9		
9.1.2	Suspended LED, 240V ~ 50 HZ, 150 W, CRI>80, 2500lm AND CCT 3000K, IP22	No	1		
9.1.3	Downlight LED, 240V ~ 50 HZ, 15W, CRI>80, 1200lm AND CCT 4000K, IP 22	No	20		
9.1.4	Downlight LED, 240V ~ 50 HZ, 15W, CRI>80, 918lm AND CCT 3000K, IP 56	No	22		
9.1.5	Downlight LED, 240V ~ 50 HZ, 15W, CRI>80, 1318lm AND CCT 3000K, IP 22	No	12		
9.1.6	Downlight LED, 240V ~ 50 HZ, 15W, CRI>80, 918lm AND CCT 3000K, IP 56	No	10		
9.1.7	Recessed LED, 240V ~ 50 HZ, 36W, CRI>80, 3600lm AND CCT 4000K, IP 22	No	25		
9.1.8	Floodstar, 240V ~ 50 HZ, 27W, CRI>80, 2170lm AND CCT 3000K, IP56	No	23		
	Lighting fixtures outlets points via wires of cross section 3x2.5 mm ² copper wires and wiring accessories as stated in load schedules and drawings via 20mm PVC conduit for the main circuit/subcircuit. The control of this circuit is from any kind of switch, dimmer, or controller. Maximum No. of wires within each 20mm conduits is 6 wires				
9.1.9	13A, 230V one way 1 gang switch	No	14		
9.1.10	13A, 230V one way 2 gang switch	No	7		
9.1.11	13A, 230V two way 1 gang switch	No	1		
9.1.12	13A, 230V one way 2 gang switch waterproof	No	10		
9.1.13	13A, 230V, single switched socket earthed type	No	60		
9.1.14	13A, 230V, weatherproof single switched socket earthed type	No	20		
9.1.15	13A, 230V, double switched socket earthed type	No	16		
9.1.16	20A, 230V, hand dryer power outlet	No	4		
9.1.17	Dual voltage 115-230V shaver socket	No	4		
9.1.18	20A, 230V, double pole switch with neon indicator and flexible connection for water heater	No	6		
9.1.19	13A, 230V, Double switched socket and dual data outlets deskbox with usb charger	No	23		
9.1.20	Single phase isolator weatherproof type 20A	No	14		
9.1.21	3 phase isolator weatherproof type 20A	No	2		
9.1.22	Exhaust fan 12 inch	No	8		
Total carried to collection					
9.2	Main Panel Board				
9.2.1	600A bus bar	No	1		
	(3) no. 630A MCCB with ninterlock between three				
	(3) no.630 A MCC 4-pole(with mechanical inter lock just one switch on)				
	(3) no.100 A MCC 3-pole				
	(12) no.60 A MCC 3-pole				
	(2) no.32 A MCC 3-pole				
Millimeter					
Total carried to collection					

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
9.3	Generators				
9.3.1	Supply install, connect test and commissioning 320KVA generator 415/240 V, 50HZ with water cool cat. prime or approved by equivalent	No	1		
Total carried to collection					
9.4	Lightening				
	Supply, install and connect the following lightening copper materials, saddles, test clamps, cables, copper flat bar and accessories. The lightening system must be connected to all metatic equipment on roof. fares UK or approved by equivalent				
9.4.1	Air terminals complete with bas	JOB	1		
9.4.2	3X25 mm ² cu flat bar				
9.4.3	70 mm ² PVC copper conductor				
9.4.4	test points				
9.4.5	Earth rods 1200mm with coupler and clamp				
9.4.6	Bar connector with wall plugs and nails				
Total carried to collection					
9.5	Earthling system				
9.5.1	supply install and connect complete earthling system with resistance one ohm or less for each power supply and main panel board	JOB	1		
Total carried to collection					
9.6	Transformer (Future)				
9.6.1	Supply install, connect test and commissioning 500KVA transformer with LV cables connection kits and all accessories	JOB	1		
Total carried to collection					
9.7	Fire Alarm System Works				
	Supply, install, test and comission complete addressable fire detection and alarm system comprising various types of smoke detectors, heat detectors, fire alarm control panel (FACP), Addressible alarm siren with light strobe including fire resistance cables 2C* 1.5mm ² , boxes (conduits, conduit fittings, cabling, plugs, earthing, terminations, etc) and all other accessories as the specifications.				
9.7.1	Fire alarm control panel (FACP)	No	1		
9.7.2	Optical Smoke Detector (S)	No	15		
9.7.3	Optical Heat Detector (S)	No	2		
9.7.4	Fire Alarm Sounder with FLASHER	No	3		
9.7.5	Break Glass call point	No	3		
9.7.6	Supply and install fire extinguisher complete it with all accessories	No	15		
Total carried to collection					
9.8	Telecommunication system				
	Supply, install, test, and commission a complete data & telephone outlet including all conduits, boxes, Cable Trunk, Fiber Optic, Cat 6 cables According to specifications and drawings. All Data outlets shall be numbered in sequence.				
9.8.1	Dual Telephone And Data Outlet Faceplate	No	30		
9.8.2	Data Outlet Faceplate	No	9		
9.8.3	Supply, install, test, and commission a rack cabinet with core switch , 27U type as per approved including power strips, fans, all needed internal cables, cable ties, cable management trays (horizontal and vertical) , connections and all accessories needed to complete the work as specified and as detailed on drawings.	JOB	1		
9.8.4	Supply, install, test, and commission a 48 port switch as per approved including patch cord and all accessories needed to complete the work. As specified and as detailed on drawings. 2xSFP	JOB	1		

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Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
9.8.5	Supply, install, test, and commission a 48 port patch panel as per approved including patch cord and all accessories needed to complete the work. As specified and as detailed on drawings.	JOB	1		
9.8.6	Supply, install, test, and commission a 48 port Fiber patch panel as per approved including patch cord and all accessories needed to complete the work. As specified and as detailed on drawings.	JOB	1		
9.8.7	Wireless Access Point	No	4		
9.8.8	Dual Telephone And Data Floor Box	No	30		
Total carried to collection					
9.9	Television system				
	Supply, installation, testing and commissioning of coaxial cable ,tape off,splitter mounted on a GI outlet box with front plate and all necessary accessories complete as required including the termination of wires.				
9.9.1	TV outlet	No.	12		
9.9.2	130 cm Dish	No.	2		
9.9.3	Quad LNB	No.	2		
9.9.4	Cascadable Multiswitch 9 SAT+1TERR / 12 OUT	No.	3		
Total carried to collection					
9.10	Puplic address system				
	Supply, installation, testing and commissioning of coaxial type ,tape off,splitter mounted on a GI outlet box with front plate and all necessary accessories complete as required including the termination of fire rated wires.				
9.10.1	Ceiling Speakers 6 w	No.	15		
9.10.2	Voice Evacuation panel combined with FACP	No.	1		
9.10.3	volume control	No.	1		
9.10.4	Mic	No.	1		
9.10.5	Amplifier as per number of speakers (240WATT)	No.	1		
9.10.6	Sound Publication Center	No.	1		
Total carried to collection					
9.11	Security system				
	Supply, install, test, and commission a complete security system including all conduits,wires, boxes CAT6 cables According to specifications and drawings.				
9.11.1	Access control panel	No.	1		
9.11.2	Access control panel per floor	No.	2		
9.11.3	Access control reader	No.	4		
9.11.4	Electromagnetic Door Lock With Door Contact	No.	7		
9.11.5	Request To Exit Push Botton	No.	8		
Total carried to collection					
9.12	IP closed circuit television (CCTV) system				
9.12.1	NVR (Network Vedio Recorder) FHD , HDMI	No	1		
9.12.2	CCTV LED Monitor 55'	No	1		
9.12.3	IP Dome camera	No.	6		
9.12.4	IP Fixed outdoor day/night color camera complete ,IP-65.	No.	8		
9.12.5	POE Switch 24 Port	No.	1		
Total carried to collection					

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	<i>Collection</i>	
9	Electrical Works	
9.1	Lighting and sockets and fans	
9.2	Main Panel Board	
9.3	Generators	
9.4	Lightening	
9.5	Earthling system	
9.6	Transformer (Future)	
9.7	Fire Alarm System Works	
9.8	Telecommunication system	
9.9	Television system	
9.10	Puplic address system	
9.11	Security system	
9.12	IP closed circuit television (CCTV) system	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
10	Sanitary Works				
10.1	Supply and install heavy duty water supply pipes PP-R pipes class 3 PN 20 , from approved manufactures, complete with all necessary fittings , valves for all kitchens and toilets and all general services as detailed in specifications as shown in the drawings.	JOB	1		
10.2	Provide and install complete heavy duty drainage pipes shall be U.P.V.C. class 3 to BS4515 (6 bar) lay with all fittings including all bends, junction, accessories, support ... etc. for complete work & according to the Engineer approval	JOB	1		
10.3	Provide material for reinforced concrete manholes of with including all excavation , back filling ,concrete work, water proofing (Epoxy paint), water seal internally around the pipe with heavy duty cover and benchers to the standard specifications	No	10		
10.4	Provide & install of high quality hand wash basin with all accessories (supports , flexible connection) on granite worktop	No	12		
10.5	Ditto but on Granite worktop	No	2		
10.6	Provide & install of high quality WC. seat with all accessories	No	9		
10.7	Provide & install of high quality Urinal with all accessories	No	6		
10.8	Provide & install of Fix floor drain with all accessories for toilets & kitchens size 20mm*20mm.	No	20		
10.9	Provide & Fix Conicoid Pre-caste Concrete Septic Tank	No	1		
	Total carried to Summary				

Bills of quantities should be read in Conjunction with Specifications and drawings.

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
11	HVAC Works				
11.1	AC Units				
	Supply, install, test & commission, split units (wall mounted type) , with all accessories , supports and wiring, fittings, out site unit to suitable for high temperatures up to 50c° , equipped with compressors ,DC fan motor, including power cables for power supply from AC panel ,50Hz 380-417V, (Refer to HVAC Drawings)				
11.1.1	Wall mounted type , nominal cooling capacity 18K BTU,	No	18		
11.1.2	Wall mounted type , nominal cooling capacity 24K BTU,	No	6		
11.1.3	Wall mounted type , nominal cooling capacity 36K BTU,	No	1		
Total carried to collection					
11.2	Piping System and Piping Insulation				
	Supply, install, and test refrigerant piping, complete with hangers and supports, fittings, accessories and as per the recommendations of the equipment manufacturer, with leak testing to be carried out as per the recommendations of the manufacturer and to the satisfaction of the engineer.				
11.2.1	Refrigeration pipe & fittings & accessories	JOB	1		
11.2.2	Supply, install, and test condensate drain piping from PVC piping as per specifications, complete with fittings, accessories, connected to the nearest drain	JOB	1		
Total carried to collection					
11.3	Piping Insulation				
	Supply, install, and cover thermal piping insulation for both refrigerant and condensate drain piping in accordance with specifications. Piping running outdoors or in machine room should further be cladding by galvanized steel or aluminum.				
11.3.1	Refrigeration piping insulation	JOB	1		
11.3.2	Condensate drain piping insulation	JOB	1		
Total carried to collection					
11.4	Duct Work				
	Supply and installation of galvanized steel ducting for air conditioning and ventilation system low velocity according to SMACNA standards including all volume dampers, splitter damper beads, junctions, reducers, elbows, sealants, flexible joint supports as specified on the drawing , insulation to be fiber glass insulation for indoor unit ductwork with (25 thickness 24kb/m3 density) . complete with glue and fixing pains as required ,all plenum box shall be internally insulated (25 thickness 24kb/m3 density , acoustic liner insulation) , insulation for outdoor ductwork (50 thickness 48kb/m3 density) , complete with glue and fixing pains as required &0.6 mm aluminum jacketing shall be including (duct gauge to be specified as per standard)	JOB	1		
Total carried to collection					
11.5	Exhaust Fan				
	Supply and installation of wall-mounted exhaust fan with all wiring, gravity shutter support, electric connection, control, disconnect switch, flexible connections, with all necessary accessories as specified and shown on drawings and specifications.				
11.5.1	wall mounted exhaust fan, 240V, 50CFM	No	8		
Total carried to collection					

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Bills of quantities should be read in Conjunction with Specifications and drawings.

Item	Description	Amount(USD)
	<i>Collection</i>	
11	HVAC WORK	
11.1	AC Units	
11.2	Piping System and Piping Insulation	
11.3	Piping Insulation	
11.4	Duct Work	
11.5	Exhaust Fan	
	Total carried to Summary	

Item	Description	Unit	Qty	Rate(USD)	Amount(USD)
12	Site Works				
12.1	Excavations & Earth work				
	Excavation for strip foundation and sub-structure complete for the site works as per drawings and engineer instructions. Including the removal of excavated materials to a location approved by local authorities. The following excavations are measured net and are to include any necessary planking, strutting, disposal and filling of soil.				
12.1.1	Excavate for strip foundations 70 cm width from natural ground level below to 1.0 m depth or as specified on site to reach undisturbed earth level for boundary wall.	ML	80		
12.1.2	Backfill & compact in layers not exceeding 20 cm thickness for foundation using excavated material for strip foundation.	M ³	14		
12.1.3	Cart & Remove away extra excavated soil	M ³	42		
	Total carried to collection				
12.2	Concrete Works				
12.2.1	Plain Concrete				
	Provide & Mix and cast in position plain concrete Grade 15 for the following :				
12.2.1.1	5 cm thickness blinding below foundation	M ²	56		
	Total carried to collection				
12.2.2	Reinforced Concrete:				
	Provide all materials Mix and cast in position (as per drawing) reinforced concrete minimum strength 30kg/cm ³ using OPC cement including reinforcement and work for the following :-				
12.2.2.1	Reinforced Concrete grade beam 20*40 cm	ML	80		
	Total carried to collection				
12.3	Brick Works				
12.3.1	Provide & Build 2 1/2 brick wall (or equivalent stone) in 1:5 mix cement sand mortar for strip foundation.	ML	80		
12.3.2	Ditto but 2 brick wall for strip foundation	ML	80		
12.3.3	Provide & Build 20 cm thick brick walls in 1:6 mix cement sand mortar for boundary wall	M ²	160		
	Total carried to collection				
12.4	Plaster Works				
12.4.1	Provide & Plaster 200 mm thick in 1:6 cement and sand mortar on external walls	M ²	160		
	Total carried to collection				
12.5	Painting Works				
12.5.1	Provide & paint 3 coats high quality pomastic paint in white colour or other approved colour to reach smooth finishes for internal walls	M ²	160		
	Total carried to collection				
12.6	Pavior Works				
12.6.1	Provide & Lay 60x60 cm Concrete Tiles	M ²	97		
12.6.2	Provide & Lay 1200x1200 cm cast-in-situ Terazzo Tiles	M ²	74		
12.6.3	Provide & Lay Granite Tread size 30x120 x3 cm & Riser size 16x120x2 cm	No	8		
12.6.4	Provide & Lay Granite Tread size 30x150 x3 cm & Riser size 16x150x2 cm	No	4		
12.6.5	Provide & Lay Granite Tread size 30x300 x3 cm & Riser size 16x300x2 cm	No	4		
	Total carried to collection				

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Bills of quantities should be read in Conjunction with Specifications and drawings.

Item	Description	Amount(USD)
	<i>Collection</i>	
12	Site Works	
12.1	Excavation & Earth Works	
12.2	Concrete Works	
12.3	Brick Works	
12.4	Plaster Works	
12.5	Painting Works	
12.6	Pavior Works	
	Total carried to Summary	

Item	Description	Amount(USD)
	<i>Summary</i>	
1	Excavations & Earth work	
2	Concrete Works	
3	Brick Works	
4	Water proofing works	
5	Plaster Works	
6	Ironmongery & Joinery Works	
7	Pavior Works	
8	Painting Works	
9	Electrical Works	
10	Sanitary Works	
11	HVAC Works	
12	Site Works	
	Total	