

BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF COUNTY TREASURY KWALE COUNTY
GOVERNMENT OF KWALE (ALL PROVISIONAL)

ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>BILL NO. 1; PRELIMINARIES</u>				
	<u>NOTES:</u>				
A	Prospective Tenderers MUST visit the site before filling their bids. Tenderers will be required to sign attendance register Non-attendance is an automatic disqualification.				
B	<u>Conditions of contract</u> shall be those published by FIDIC				
	1 st Edition 1999 'SHORT FORM OF CONTRACT'				
	<u>Preliminaries and General Items</u>				
	<u>Project Sign Board</u>				
C	Allow for providing, erecting, and maintaining in the whole period of construction contract and afterwards clearing away of sign board as designed and approved by the project manager		ITEM		
	<u>Setting out</u>				
D	The Contractor shall be responsible for the full setting out of the works and the maintenance thereof.		ITEM		
	<u>Program of works</u>				
E	The Contractor shall submit to the Engineer a fully detailed Programme showing the order, the procedure and method by which he proposes to carry out the construction and completion of the works.		ITEM		
	<u>Cleaning up</u>				
A	The contractor shall remove all rubbish from the site from time to time and on completion he must thoroughly clean up by sweeping or otherwise to leave the site for ready use. The Contractor shall adopt all measures to ensure that floor tiles, terrazzo work, windows etc, are left clear and free from dirt, stains etc.		ITEM		
	<u>Watching</u>				
B	The Contractor shall allow for providing and maintaining any barriers, watching or lighting, which must comply with the bye-laws, or requirements of the employer, local Authority and police regulations and must give all requisite notices to these Authorities and provide everything necessary to protect the general public, workmen, plant, materials and the whole of the works from injury or damage.		ITEM		
	<i>Carried forward</i>				

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	<i>Brought forward</i>				
	<u>Tools, plants, and scaffolding</u>				
A	The contractor shall allow for provision for all the Tools, Plant, scaffolding etc, necessary for the proper execution of the works. He should also allow for the removal, reinstating, adapting from time to time as may be necessary and maintaining all plant and equipment during the course of the contract		ITEM		
	<u>Project Site Office</u>				
B	The Contractor shall provide, erect and maintain where directed on site and afterwards dismantle a temporary site office of size not exceeding 4m square as directed by the project manager, complete with furniture. He shall also provide a strong hasp and staple fastening and two keys. He shall provide erect and maintain a lock up type water or bucket closet for the sole use of the project manager including making temporary connections to the drain where applicable to the satisfaction of government and medical officer of health and shall provide services of cleaner and pay all conservancy charges and keep both office and closet in a clean and sanitary condition from commencement to the completion of the works and dismantle and make good disturbed surfaces.		ITEM		
C	Allow for provision and maintenance of power and water necessary for execution of the works.		ITEM		
	PRELIMINARIES CARRIED TO SUMMARY				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>Brought forward</u>				
A	Treat surface of hardcore with approved insecticide	690	SM		
B	One layer of 500mm gauge polythene sheet damp proof membrane under floors, 300mm laps	690	SM		
	<u>CONCRETE WORKS</u>				
	<u>Mass concete (1: 3: 6) in:</u>				
C	50mm thick blinding	378	SM		
	<u>Reinforced concrete(1: 2:4) in:-</u>				
D	Strip foundations	42	CM		
E	Column bases	50	CM		
F	Columns.	6	CM		
G	Ground beam	21	CM		
H	150mm thick surface bed	690	SM		
	<u>Sawn formwork to</u>				
J	Vertical side of strip foundation bases	142	SM		
K	Column bases	105	SM		
L	Column.	73	SM		
M	Sides and soffits of ground beams	283	SM		
N	Edges of surface bed 75-150mm high	119	LM		
	Carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>ELEMENT NO 2:</u>				
	<u>REINFORCED CONCRETE SUPERSTRUCTURE</u>				
	<u>Vibrated reinforced concrete 1: 2: 4 in</u>				
A	Beams	170	CM		
B	Stair waist/beams	5	CM		
C	Stair treads/risers	1	CM		
D	Columns	47	CM		
E	150mm thick suspended floor slab	2,760	SM		
F	150mm thick landing	24	SM		
G	Lift shaft	49	CM		
	<u>sawn formwork to:</u>				
H	Sides and soffites of beams	1,982	SM		
J	Sloping soffites of stairs	16	SM		
K	Sides of columns	2,534	SM		
L	Soffites of suspended floor slab	2,760	SM		
M	Soffites of landing	24	SM		
P	Edges of suspended slab girth 75-150mm	476	LM		
Q	Risers75-150mm high	28	LM		
R	Raking string edge to staircases 300mm high cut and fitted to profile of treads and risers	28	LM		
S	Sides of lift shaft and strong room	65	SM		
	<u>Carried forward</u>				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	ELEMENT NO. 3:				
	WALLING				
	Sundries				
	Machine cut coral block walling in cement and sand (1:3) mortar reinforced with and including 25 x 3mm thick hoop iron in every alternative course				
A	200mm. Thick walling extenally	2,715	SM		
B	Ditto parapet wall	100	SM		
	Permanent ventilations				
C	Pair of permanent ventilation size 225 x 225 25mm thick fixed with and pair including mosquito wire gauze	20	NO		
D	Ditto but to 200mm thick wall ditto	22	NO		
E	Eaves filling to 200m block walling average 300mm high	128	LM		
	VENTS BLOCKS				
F	Dressed Vent block wall bedded and jointed in sand: cement (1:3) 150 mm thick walling.	28	SM		
	Total for walling carried to summary				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>ELEMENT NO. 4</u>				
	<u>ROOFING.</u>				
	<u>COVERINGS</u>				
	<u>Roof Covering :-</u>				
	<u>Supply and fix approved Box profile IT 5 gauge 28 on 50x50 mm purlins, 150x50 mm rafters and trusses, 150 x 50 mm wall plate; treated as described before fixing all to S.E details and approval;</u>				
A.	Roof coverings	585	SM		
B	Ridge cap	10	LM		
	<u>Structural Steel</u>				
	<u>The following in welded/bolted structural steel to B.S 5950 as per Engineers details including cutting to size, hoisting, placing in position, welding to B.S 5135, bolts and nuts to B.S 4190 and Bs 4320 respectively; the whole ground and primed in two coats and painted in two coats 'Zinga' paint to manufacturers specifications in:</u>				
C	Varried forms, sizes and thicknesses as maybe specified.	8,516	KG		
	<u>Extra over ditto in:</u>				
D	Connection plates and brackets.	82	NO		
E	Varried sizes of galvanised bolts 12 - 25 mm diameters	32	NO		
	<u>Prepare surfaces by grit blasting, ultra high water jetting or any approved chemical technique and apply by sandblasting self-priming zinc rich paint to B.S. 7079 PtA 1s.a.2.5 or roughness minimum of 90% zinc when dry on: degree of Rz 50-70 to a</u>				
F	General surfaces of metal	585	SM		
	<u>FLAT ROOF</u>				
	<u>Water proofing</u>				
	Supply and lay APP membrane under quarry tiles				
G	SBS finishing to roof	240	Sm		
H	300 mm wide flashing	119	Lm		
	<u>Carried forward</u>				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>ELEMENT NO. 5:</u>				
	<u>TIMBER DOORS</u>				
	<u>Wrot Cedar, or equal and approved Hardwood</u>				
A	45mm hick(finished) framed four panel door size 2000 x2050mm high comprising of 150 x 45mm grooved top rails and stiles, 200 x 45mm grooved bottom and middle rails, 20mm thick panel infills all finished for painting (m.s)	4	No		
B	Dittos size 1200 x 2050mm high ditto	1	No		
C	Dittos size 900 x 2050mm high ditto	43	No		
	<u>FRAMES</u>				
D	150x 50mm once rebated freme with labour: plugged	278	LM		
E	45 x 38mm architrave	278	LM		
F	25mm diameter quadrant	278	LM		
	<u>Suply and fix the following ironmongery all to 'union' or equal and approved specification</u>				
G	100mm heavy duty brass butt hinges	96	PRS		
H	Supply and fix three lever mortice lock complete with furniture	48	No		
J	Door closer Rf. 8850	48	No		
K	Rubber door stop fixed to concrete floor with rawbolt	48	No		
	<u>Glazing</u>				
L	5mm clear sheet glass with putty and beadings to detail.	19	SM		
	<u>PAINTING AND DECORATIONS (CROWN OR EQUAL AND APPROVED)</u>				
M	Prepare and apply three coats gloss paint to general wood surfaces	192	SM		
N	Ditto girth 200- 300mm	278	LM		
P	Ditto girth not exceeding 100mm	278	LM		
Q	Prime back of time before fixing girth 200- 300mm	278	LM		
R	Kiker plate overal 500mm high to one side of wet areas doors	22	SM		
	<u>Fixing One STRONG ROOM DOOR</u>				
S	The door opening should be made as per the drwings given. The door will be installed by the vendor. The anchoring slots of the door to be filled with concrete 1:1.5:3 mix with proper compaction, with out affecting the line and level set by the Door in stalling vendor.	1	NO		
	<u>Total for Timber doors carried to summary</u>				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>ELEMENT 6:</u>				
	<u>ALLUMINIUM WINDOWS & DOORS</u>				
	<u>Heavy duty aluminium slidding windows: complete with 6mm clear sheet glass and glazing: with all necessary ironmongery and glazing: to Architectural details</u>				
	<u>WINDOWS</u>				
A	Overall size 1300 x1650mm	58	SM		
B	Overall size 1200 x 1650mm	11	SM		
C	Overall size 800 x 1650mm	1	SM		
D	Overall size 1000 x 1200mm	19	SM		
E	Overall size 1400 x 2250mm	347	SM		
F	Overall size 1700 x 2000mm	34	SM		
G	Ditto 2500 x 1650mm	21	SM		
H	Ditto 3000 x 1650mm	10	SM		
J	Ditto 650 x 1650mm	27	SM		
K	Ditto 750 x 900mm	40	SM		
L	Ditto 1750 x 900mm	14	SM		
	<u>Precast concrete (1:2:4) units: vibrated</u>				
M	200 x 75mm (average) windows sills, weathered and throated: reinforced with wire mesh	330	LM		
	<u>Curtain track</u>				
N	Aluminium curtain track complete with rollers screwed to timber	330	LM		
	<u>DOORS</u>				
P	Heavy duty natural aluminium door frames size 900x2100mm comprising 102x45x2.4mm thick rectangular hollow section stiles, top, bottom and 2 number middle rails complete with 200mm wide	65	NO		
	<u>All ironmongery shall be as 'union' or other equal and approved</u>				
Q	100mm aluminium butt hinges riveted to frame	130	PRS		
R	Round satin anodized aluminium door stopper Code DS 01 AS	65	NO		
S	3 Lever cylinder mortice lock	65	NO		
T	Concealed floor door closer	65	NO		
	<u>Total for Aluminium Windows and Doors carried to summary</u>				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	ELEMENT NO.7:				
	JOINERY FITTINGS				
	(ALL PROVISIONAL)				
	BENCHING AND COUNTER				
A	100mm thick benching of insitu mass concrete (1:3:6)	35	SM		
B	75mm thick reinforced concrete worktops	35	SM		
C	Steel fabric mesh reinforcement no. A98 weighting 1.54kg/sm including side and end laps	35	SM		
	Sawn formwork to				
D	Soffites of worktops	35	SM		
E	edges of benches n.e 75-150mm high	24	LM		
F	Ditto worktop n.e girth	48	LM		
	Finishes				
G	edges of benches n.e 75-150mm high	35	SM		
H	6mm thick ceramic tiles on worktops	35	SM		
J	Ditto edges of worktops size 74 x 25mm thick	24	LM		
K	12mm thick cement and sand plaster to soffites of wortops	35	SM		
	Total for Joinery Fittings carried to summary				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>ELEMENT NO. 8:</u>				
	<u>BALUSTRANDING AND RAILING (PROVISIONAL)</u>				
	<u>Staircase</u>				
A	50 x 50mm hardwood screwed to 36 x 3mm flat bar(m.s)	68	LM		
	<u>Metal Work</u>				
B	36 x6 mm mild steel flar bar screwed to hardwood and welded to vertical bars	68	LM		
C	40 x 40x 3mm thick RHS balusters bedded to concrete with cement and sand(1:3) mortar	207	LM		
D	25x 25 x25 x2mm ditto intermediate rails	246	LM		
	<u>Painting</u>				
E	Prepare and apply three coats gloss paint to general surfaces of metalwork girth 100-200mm	207	LM		
F	Ditto girth n.e 100mm	246	LM		
G	Prepare and apply three coats gloss paint to general surfaces of woodwork girth 100-200mm	68	LM		
	<u>Sundries</u>				
H	Make hole in concrete slab size 50 x 50 x 50mm deep	173	No		
	<u>BALCONY</u>				
J	50 x 50mm hardwood screwed to 36 x 3mm flat bar(m.s)	112	LM		
	<u>Metal Work</u>				
K	36 x6 mm mild steel flar bar screwed to hardwood and welded to vertical bars	112	LM		
L	40 x 40x 3mm thick RHS balusters bedded to concrete with cement and sand(1:3) mortar	336	LM		
M	25x 25 x25 x2mm ditto intermediate rails	540	LM		
	<u>Painting</u>				
N	Prepare and apply three coats gloss paint to general surfaces of metalwork girth 100-200mm	336	LM		
P	Ditto girth n.e 100mm	540	LM		
Q	Prepare and apply three coats gloss paint to general surfaces of woodwork girth 100-200mm	112	LM		
	<u>Sundries</u>				
R	Make hole in concrete slab size 50 x 50 x 50mm deep	280	No		
S	5mm tinted sheet glass fixed to aluminium frames with aluminium glazing bead[ms] in panes exceeding 1m2	67	SM		
	Total for Balustrading \$ Railing carried to summary				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	ELEMENT NO. 9:				
	FINISHES				
	EPDM waterproof applied as per manufacturer's instruction to				
A	Concrete gutter surfaces	141	SM		
	WALLS				
	Cement and sand (1:3) in-				
B	15mm thick plaster steel trowelled on concrete walls and beams	5,628	SM		
	White glazed ceramic tiles bedded and jointed in cement and sand (1:3) mortar and flush pointed with white cement				
C	150 x 150 x6mm thick tiles	606	SM		
	FLOOR FINISHES				
	Cement and sand (1:3) screed trowelled:-				
D	32m thick to receive ceramic tiles(m.s)	2,760	SM		
	TELLER COUNTERS				
	The following in full-height, clear glass PARTITIONS comprising of 10mm clear toughened glass fixed in accordance with the manufacurer's instruction,and all necessary accessories.				
E	Bullet proof partitions, overall height 1350mm, comprising 100 x 50mm aluminium hollow section frames to manufacturer's details in main posts and approved Bank coloursintermediary sections all in powder coated finish in Bank colours.	25	SM		
F	Extraover boxing for cash scoop tray size 400 x 200mm	5	NO		
	Carried forward				

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ITEM		QTY	UNIT	RATE	BQ AMOUNT
	Brought forward				
	<u>Tiling</u>				
A	600 x 600 x 20mm polished ceramic floor tiles laid in accordance with the manufacturer's instructions	2,760	SM		
	<u>CEILING FINISHES</u>				
B	Supply and fix 75 x 50mm treated softwood branding	1,800	LM		
C	Ditto 50 x 50mm ditto	1,800	LM		
D	12mm T & G PVC ceiling nailed to timber branderng (m.s) and set out in symmetrical panel with V-joints	876	SM		
E	Extra over ditto for forming 700 x 700mm access door including trimming joists and frame	5	No		
F	12mm diameter PVC cornice	550	LM		
	<u>Cement and sand (1:3) in-</u>				
G	15mm thick plaster steel trowelled on Soffits of slabs	3,066	SM		
	<u>Cladding to wall faces</u>				
H	5mm tinted sheet glass fixed to aluminium frames with aluminium glazing bead[ms] in panes exceeding 1m2	97	SM		
J	Supply and fix 1200x 800 x 1mm thick stainless steel plate plugged to the vertical faces of slab complete with vinyl signate and all necessary wirng inscribed the the words COUNTY TREASURY. To archictural approval	1	Item		
	<u>ROOF</u>				
	<u>Water proofing</u>				
	Supply and lay APP membrane under quarry tiles				
K	SBS finishing to roof	876	SM		
L	300 mm wide flashing	900	LM		
	Carried forward				

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	<u>The works involve plumbing works, water harvesting system at</u>				
	The major work to be carried out in this contract include the following:				
	1. Water supply service - refers to the construction, installation, replacement, repair, alteration, maintenance, testing or commissioning of any water supply service.				
	2. Sanitary- This work relates to any part of an above-ground sanitary plumbing system that connects sanitary fixtures (toilets, basins, taps, sinks, showers) and appliances (dishwashers, washing machines) to a disposal system or below-ground sanitary drainage system.				
	3. Roofing (storm water) - involved in the collection or disposal of storm water and includes the connection of any storm water piping to a drain or tank.				
	4. Drainage- Work involving any part of a below-ground sanitary drainage system from the above-ground sewage or waste pipes to the disposal system				
	5. Fire Protection- water service used for fire fighting, from the point of connection to the water supply to any fire fighting device or equipment forming part of that service. This includes things like fire hydrants, hose reels, domestic fire sprinkler systems and so forth.				
	6. Passenger Lift- Work involve Supply and installation of passenger lift and conduct the statutory inspection and provide the certificate before commissioning. 10 passenger lift of capacity 800kg/ 10 person to serve 4 floors.				
	7. Air Condition (AC)- Supply and install AC, Variable refrigerant flow (VRF) systems				
	<u>SANITARY APPLIANCES</u>				
	Supply, deliver, install , test and commission the following sanitary appliances complete with all the accessories including all connections to the services, waste, jointing to water supply overflows, supports and all plugging and screwing to walls and floors.				
	(i) All sanitary fittings shall be in approved colour				
	(ii) The Model and Ref. No. indicated is only a guide to the type and quality of fittings				
	(iii) Equivalent and approved models may be accepted				
	Balance carried forward				

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	Balance brought forward				
A	<u>Water Closet (WC) Suite</u>				
	Squat pan WC suit ('S' or 'P'-trap) in approved colour with horizontal outlet to BS 3402 with 7.5 litre valve less low level ceramic cistern and fittings including siphon. All to be as IDEAL STANDARD.	10	NO		
B	<u>Water Closet (WC) Suite</u>				
	Ceramic Toilet Bowl Twyford or equivalent type. WC suit ('S' or 'P'-trap) in approved colour with horizontal outlet to BS 3402 with 7.5 litre valve less low level ceramic cistern and fittings including siphon. All to be as IDEAL STANDARD.	14	NO		
C	<u>Wash hand basin (WHB)- Pedestal</u>				
	Pedestal wash hand basin size 650 x 500mm with one tap hole, 32mm diameter chrome plated waste with plug and chain, pedestal, monoblock basin as Cobra "Trini" monobloc tap model TR 850 or approved equivalent and chrome plated bottle trap (32mm 'P' trap) with 75mm seal. To be as IDEAL STANDARD "PLAN" - wash basin model 109.003.36 and pedestal model 109.003.37 or equal and approved.	16	NO		
D	<u>Hand Driers</u>				
	Automatic hand drier in white colour, operating on an infra-red automatic sensing system with heating element safely cut-out complete with a 30 seconds safely timer, plastic rawl plugs and fixing screws. The hand drier to have a heating capacity of 2.1kw and performance flow rate of 135cfm (3.82m ³ /min) and to be size 270 x264x143mm deep. Its shall have a noise level below 72.5 dBA at1.5m. It shall be as med clinic or approved equivalent	10	NO		
E	<u>Mirror</u>				
	6mm thick polished plate glass silver mirror with bevelled edges, size 610x610mm. Plugged and screwed to wall with 4 No. chrome plated dome capped screws. The mirror shall rest against a layer of 5mm thick foam bevelled edges, size.	10	NO		
F	<u>Soap Dispenser</u>				
	Wall mounted soap dispenser with a capacity of about one litre having a press action soap release mechanism complete with fixing screws. Allow for initial soap supply. To be as GROHE 'Ario Accessories Tier: G5 Prestige "Model-40 360 soap dispenser or approved equivalent.	10	NO		
	Balance carried forward				

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	Balance brought forward				
	<u>INTERNAL PLUMBING</u>				
	<u>CPVC PIPES</u>				
	Supply, deliver and install Chlorinated Polyvinyl Chloride (CPVC) pipes, tubing and fittings as described and shown on the drawings. The pipes and fittings shall be produced as per SDR 11 and shall meet or exceed the requirements of ASTM D 2846, current E. Note: The pipes and the fittings should only be supplied after checking and testing the existing pipes & fittings and remeasurement of the defective parts on site as directed by the Project Engineer.				
A	<u>PPR PIPE WORKS</u>	40	LM		
	20mm diameter pipework 100m role	40	LM		
	32mm diameter pipework 100m role				
B	<u>Bends/Elbow</u>	40	No		
	20mm diameter bend	40	No		
	32mm diameter bend				
C	<u>Tees</u>	40	No		
	20mm equal tee	40	No		
	32mm equal tee				
D	<u>Reducers</u>	40	No		
	25x20mm diameter reducer	40	No		
	32x20mm diameter reducer				
E	<u>Male / Female Adapters (threaded)</u>	40	No		
	20mm threaded adapter	40	No		
	25mm threaded adapter	40	No		
	32mm threaded adapter				
F	<u>Male / Female Adapters tee (threaded)</u>	40	No		
	20mm threaded adapter	40	No		
	25mm threaded adapter	40	No		
	32mm threaded adapter				
G	<u>Gate Valves Pegler</u>	20	No		
	25mm gate valve	20	No		
	35mm gate valve				
H	<u>Unions</u>	20	No		
	25mm diameter pipe unions	20	No		
	32mm diameter pipe unions				
	Balance carried forward				

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	Balance brought forward				
A	<u>Manhole</u>				
	700x700x825 deep (internally) manhole chamber consisting of 150mm thick rendered internally, 150mm thick concrete (1:2:4) cover slab with metallic grip bars including excavations and disposal and all necessary landscaping. 4 No N	6	No		
B	<u>Septic tank</u>				
	1m wide by 3 m long by 2 m deep internal, consisting of 150 mm thick sloping base reinforced with 12mm diameter bars at 225mm centre both ways, reinforced external and intermediate walls reinforced with 12mm diameter steel bars at 225mm centres both ways, reinforced concrete (1:2:4). belt beam at the top reinforced with 4 no. 16mm steel bars and 10mm diameter stirrups at 225mm centre ,150mm thick reinforced concrete (1:2:4). cover slab reinforced with 12mm diameter bars at 150mm centres both ways, internal surfaces rendered and finished with steel float, 2no.100mm diameter pvc inlet and outlet pipes and including all excavation, disposal, foam work etc.	1	NO		
C	<u>Soak pit</u>				
	Excavate for soak pit starting from ground level and not exceeding 1.5m backfill after construction of soak pit and cart away and dispose surplus material as directed by the P.M.	30	CM		
D	Extra over for excavating in rock.	10	CM		
E	Provide materials and erect soak pit 1.20m internal diameter with 140mm thick walling and 100mm thick concrete (1:3:6) base and 150mm thick RC slab and 600 x 450mm medium duty manhole cover and frame and stone filling and all necessary formwork.	1	NO		
F	<u>Testing F</u>				
	Test the whole sewer system as in specifications to the satisfaction of the Engineer	1	Item		
	<u>Water harvesting</u>				
	storm water piping				
G	Water Storage Tank 5000 litre, (Diameter x Ht) as Roto or equally approved, with a concrete base of equivalent diameter.	1	No		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	<u>Water supply</u>				
A	<u>Roof Water Storage Tank 5000 litre, (Diameter x Ht) as Roto or equally approved</u>				
	5,000Litrs 2400 x 2800mm. The tank has screwed connections for inlet, outlet, no overflow, 25mm medium pressure ball valve. The tank is mounted on a flat floor slab .	4	No		
B	<u>Pedrollo pump</u>				
	Peripheral impeller self priming pump				
	pKSm 60	1	No		
	<u>PORTABLE FIRE FIGHTING EQUIPMENT</u>				
	<u>Supply, deliver, install and fix the following fire fighting equipment in positions indicated on the contract drawings:</u>				
	<u>Water / Carbon Dioxide Gas fire extinguisher</u>				
C	9 litre water / carbon dioxide gas portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	8	No		
D	<u>Carbon Dioxide Gas Fire Extinguisher</u>				
	4.5 kg carbon dioxide gas portable fire extinguisher complete with pressure - gauge, initial change and mounting brackets.	2	No		
E	<u>Dry Chemical Powder Fire Extinguisher</u>				
	6kg dry chemical powder portable fire extinguisher complete with pressure gauge, initial charge and mounting brackets.	8	No		
F	<u>Automatic Dry Chemcial Powder Fire Extinguisher</u>				
	10kg automatic dry chemical powder fire extnguisher complete with pressure gauge, initial charge, glass bulb, sprinkler head and mounting base. The operating temperature of the bulb shall 68 degree centigrdes. The unit shall be mounted on the concrete slab ceiling using purpose-made screws and to be as germania, model GD 25 or equal and approved.	2	No		
G	<u>Fire Hose real</u>				
	supply and install with Hose Length 30m - Semi-Rigid, Double Braided Polyester Cord-Reinforced Rubber BS EN 694 Assembly Components Isolation Ball Valve, Connection Hose, Swinging Arm, Reel, Hose, Nozzle Working Pressure 12 bar Test Pressure 18 bar Nozzle Orifice Diameter 8mm 6mm. Flow Rate at 4bar56L/m34L/m Flow Rate at 6bar68L/m41L/m	8	No		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	<u>Excavation</u>				
A	Excavate trench abd sand/coral reef for pipes not exceeding 100mm deep and average 750mm deep. Part return in, fill and surplus cart away	30	LM		
	<u>GI piping</u>				
B	supply and install Galvanized Iron Conduit Pipe - 25mm with fitting	30	LM		
	<u>Fire fighting water storage tank</u>				
C	Water Storage Tank 5000 litre, (Diameter x Ht) as Roto or equally approved, with a concrete base of equivalent diameter.	1	No		
	<u>Pump</u>				
D	Set of automatic electrically driven twin booster pump. One duty and the other one stand by with automatic changeover, capable of delivering 6m ³ per hour against a head of 25meters with single phase power source. The pump set shall pressure set or equal and approved) and all accessories required for proper and satisfactory operation. It includes pressure switches, time delay switch, a switch to protect pressure switches, time delay switch, a switch to protect against dry run , timer gate valves ,non- return valves water level indicator , float level regulator, 75mm diameter foot valve and strainer. The pump to be as Grundos CH 8-30 or approved equivalent. The Pump to be installed on mild steel frame with approved paint.	1	No		
E	Supply, installation , testing and commissioning of 800kg/10 passenger capacity elevators to serve 4 floor of 1.5 m/s speed for operation on 415 V, 3 Phase, 50 Hz AC supply, having AC variable voltage and variable frequency type traction control, electro magnetic brake system, simple operation, operating panel with luminous buttons, over load warning indicator, battery operated alarm bell, CFL type emergency light, infrared rays sensing door protection for suitable height, reverse phase relay on controller, fireman's switch at ground floor, digital car position indicator in car and at all positions indicator in car at all floors with UP/DOWN directions, light fixtures, ventilation fan etc. complete with all accessories including automatic rescue device and having following other features	2	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT		
	Balance brought forward				
	<u>Air Condition (AC)- Variable refrigerant flow (VRF) systems</u>				
	works involve Piping with Insulation & Cabling and Supply & Installation of VRF Air conditioners-				
	<u>INSTALATION OF COPPER PIPES WITH INSULATION AND CABLES.</u>				
A	Assorted copper pipe sizes with insulation	700	LM		
B	Communication cable	400	LM		
C	Power cable	300	LM		
D	Drainage piping with necessary accessories	300	LM		
E	Y-branches	25	No.		
	<u>SUPPLY AND INSTALATION OF VRF AC.</u>				
	Supply and install the following air conditioning complete with the associated accessories. The indoor unit to be mounted on the wall with hanging supports comprising of hanging bolts or screws, Nuts, Washers on the position that will effectively perform to the required standard. The indoor unit to be LG Multi V or equivalent.				
	<u>Ground floor</u>				
	Supply of LG VRF AC				
F	18,000 btu/hr wall mounted IDU	12	No.		
G	24,000 btu/hr wall mounted IDU	3	No.		
H	Wireless remote	15	No.		
J	Installation	15	No.		
	<u>1st floor</u>				
	Supply of LG VRF AC				
K	18,000 btu/hr wall mounted IDU	11	No.		
L	Wireless remote	11	No.		
M	Installation	11	No.		
	<u>2nd floor</u>				
N	Supply of LG VRF AC				
P	18,000 btu/hr wall mounted IDU	11	No.		
Q	Wireless remote	11	No.		
R	Installation	11	No.		
	<u>3rd floor</u>				
	Supply of LG VRF AC				
S	18,000 btu/hr wall mounted IDU	12	No.		
T	24,000 btu/hr wall mounted IDU	1	No.		
U	Wireless remote	13	No.		
V	Installation	13	No.		
	Balance carried forward				

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BILLS OF QUANTITIES FOR PROPOSED CONSTRUCTION OF COUNTY TREASURY KWALE COUNTY
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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>BILL No. 1: GROUND FLOOR</u>				
	<u>SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION</u>				
	<u>THE FOLLOWING:-</u>				
1.01	<u>LIGHTING POINTS AND SWITCHES</u>				
	Lighting points wired in 3 x 1.5mm ² PVC/SC CU cables drawn in 20mmØ concealed HG PVC conduits complete with all necessary accessories but excluding switches for:-				
	i) One way switching	63	No.		
	ii) Two way switching	32	No.		
1.02	10A, moulded ivory white switch plates as MK Range or approved equivalent as follows:-				
	1 gang 1 way	23	No		
	1 gang 2 way	6	No		
	2 gang 2 way	6	No		
	3 gang 2 way	1	No		
	<u>LIGHTING FITTINGS</u>				
1.03	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
	i) 600mm x600mm, recessed module LED luminaire panel as Massive or equal & approved equivalent type '4x18'	41	No		
	ii) 300mm X 300mm, recessed module LED luminaire panel as Massive or equal & approved equivalent	5	No		
	iii) 300mm ø, recessed module LED luminaire panel as Massive or equal & approved equivalent	24	No		
	iv) 150mm ø, recessed module LED luminaire panel as Massive or equal & approved equivalent	12	No		
	v) 50W Floodlight module LED luminaire or an approved equivalent	10	No		
	vi) Self-contained single sided EXIT sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent.	3	No.		
	<u>POWER POINTS</u>				
1.04	Raw power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	41	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
1.05	13A moulded switched socket outlet plates as Crabtree or approved equivalent as follows:				
	i) Twin switched	41	No.		
1.06	Clean/UPS power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	34	No.		
1.07	13A Non-Standard switched socket outlet plates as Crabtree or approved equivalent as follows:				
	i) Twin switched	34	No.		
1.08	Sump pump power points comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in 25mmØ concealed HG PVC conduits	1	No.		
1.09	20A DP control switch with neon light and cord outlet for item No 1.11 above as Crabtree or approved equivalent	1	No.		
1.10	Hand drier Unit power point comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in Trunking/50mmØ concealed HG PVC conduits	4	No.		
1.11	20A DP control switch with neon light and cord outlet for item No 1.08 above as Crabtree or approved equivalent	4	No.		
1.12	Bathroom/ Toilet extract power points comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in 25mmØ concealed HG PVC conduits	8	No.		
1.13	20A, DP control switch with neon light and cord outlet for item above as crabtree or approved equivalent	8	No.		
1.14	Air conditioning units power points comprising wiring in 3 x 4mm ² PVC/SC CU cables drawn in 32mmØ concealed HG PVC Conduits	17	No.		
1.15	20A DP control switch with neon light and cord outlet for item above as crabtree or approved equivalent	17	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
1.16	Fire alarm panel power point comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in Trunking/50mmØ concealed HG PVC conduits	1	No.		
1.17	20A DP control switch with neon light and cord outlet for item No 1.18 above as Crabtree or approved equivalent	1	No.		
	<u>FIRE ALARM SYSTEM</u>				
1.18	Full function hybrid protocol analogue addressable repeater panel complete with graphic display and 32 zonal LEDs. The panel to be designed to meet fully the requirements of BS EN54 Pt 2 and 4 as Menvier or Approved Equivalent	1	No.		
1.19	Fire Alarm points comprising wiring in 1.5mm ² heat resistant cables drawn in 20mmØ concealed HG PVC conduits	33	No.		
1.20	Addressable Photoelectric Smoke Detector as Menvier or Approved Equivalent	26	No.		
1.21	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	5	No.		
1.22	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.	2	No.		
	<u>DATA/TELEPHONE & TELEVISION</u>				
1.23	200 X 50mm Deep Powder coated 3-compartment metal trunking complete with bends As Manufactured by Power Technics	120	LM		
1.24	100 X 50mm Deep Perfotrated GI cable tray complete with all accessories As Manufactured by Power Technics	100	LM		
1.25	Data/Telephone outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	34	No.		
1.26	Floor mounted pedestal for workstations capable of accomodating 4No. Data/Telephone points & 4No. Twin switched socket outlet points fabricated and finished to engineers specifications.	1	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>BILL No. 2: FIRST FLOOR</u>				
	<u>SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:-</u>				
2.01	<u>LIGHTING POINTS AND SWITCHES</u>				
	Lighting points wired in 3 x 1.5mm ² PVC/SC CU cables drawn in 20mmØ concealed HG PVC conduits complete with all necessary accessories but excluding switches for:-				
	i) One way switching	35	No.		
	ii) Two way switching	29	No.		
2.02	10A, moulded ivory white switch plates as MK Range or approved equivalent as follows:-				
	1 gang 1 way	12	No		
	1 gang 2 way	2	No		
	2 gang 2 way	7	No		
	<u>LIGHTING FITTINGS</u>				
2.03	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
	i) 600mm x600mm, recessed module LED luminaire panel as Massive or equal & approved equivalent type '4x18'	27	No		
	ii) 300mm ø, recessed module LED luminaire panel as Massive or equal & approved equivalent	25	No		
	iii) 150mm ø, recessed module LED luminaire panel as Massive or equal & approved equivalent	10	No		
	iv) Self-contained single sided EXIT sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent.	2	No.		
	<u>POWER POINTS</u>				
2.04	Raw power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	29	No.		
2.05	13A moulded switched socket outlet plates as Crabtree or approved equivalent as follows:				
	i) Twin switched	29	No.		
	Balance carried forward				

GOVERNMENT OF KWALE (ALL PROVISIONAL)

ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
2.06	Clean/UPS power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	27	No.		
2.07	13A Non-Standard switched socket outlet plates as Crabtree or approved equivalent as follows:				
	i) Twin switched	27	No.		
2.08	Hand drier Unit power point comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in Trunking/50mmØ concealed HG PVC conduits	4	No.		
2.09	20A DP control switch with neon light and cord outlet for item No 1.08 above as Crabtree or approved equivalent	4	No.		
2.10	Bathroom/ Toilet extract power points comprisnng wiring in 3 x2.5mm ² PVC/SC/CU cables drawn in 25mmΦ concealed HG PVC conduits	6	No.		
2.11	20A, DP control switch with neon light and cord outlet for item above as crabtree or approved equivalent	6	No.		
2.12	Air conditioning units power points comprising wiring in 3 x 4mm ² PVC/SC CU cables drawn in 32mmΦ concealed HG PVC Conduits	14	No.		
2.13	20A DP control switch with neon light and cord outlet for item above as crabtree or approved equivalent	14	No.		
2.14	Instantaneous shower power point comprising wiring in 3x4mm ² PVC/SC/CU cables drawn in 25mmΦ concealed in HG PVC conduits	2	No.		
2.15	20A DP Contro switch marked 'Instant Shower' with neon light and code outlet for item above as crabtree or approved equivalent	2	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	<u>FIRE ALARM SYSTEM</u>				
2.16	Fire Alarm points comprising wiring in 1.5mm ² heat resistant cables drawn in 20mmØ concealed HG PVC conduits	34	No.		
2.17	Addressable Photoelectric Smoke Detector as Menvier or Approved Equivalent	30	No.		
2.18	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	2	No.		
2.19	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.	2	No.		
	<u>DATA/TELEPHONE & TELEVISION</u>				
2.20	200 X 50mm Deep Powder coated 3-compartment metal trunking complete with bends As Manufactured by Power Technics	120	LM		
2.21	100 X 50mm Deep Perfotrated GI cable tray complete with all accessories As Manufactured by Power Technics	100	LM		
2.22	Data/Telephone outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	27	No.		
2.23	Floor mounted pedestal for workstations capable of accomodating 4No. Data/Telephone points & 4No. Twin switched socket outlet points fabricated and finished to engineers specifications.	1	No.		
2.24	Floor mounted semi-circular profile metal trunking complete with all accessories As Manufactured by Power Technics	6	LM		
2.25	250 X 250 X 150mm G.I Fully Recessed Telephone Draw box	1	No		
2.26	Security points comprising draw wire in concealed 20mm Ø HG PVC Conduits all emanating from the security office	6	No.		
2.27	50mmØ PVC HG conduit linking the Draw Boxes	25	LM		
2.28	38mmØ PVC HG conduit linking the Draw Boxes	25	LM		
	Total for Bill No. 2 C/F to Bills summary Page				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>BILL No. 3: SECOND FLOOR</u>				
	SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:-				
3.01	LIGHTING POINTS AND SWITCHES				
	Lighting points wired in 3 x 1.5mm ² PVC/SC CU cables drawn in 20mmØ concealed HG PVC conduits complete with all necessary accessories but excluding switches for:-				
	i) One way switching	26	No.		
	ii) Two way switching	36	No.		
3.02	10A, moulded ivory white switch plates as MK Range or approved equivalent as follows:-				
	1 gang 1 way	7	No		
	1 gang 2 way	7	No		
	2 gang 2 way	8	No		
	Intermediate	2	No		
	LIGHTING FITTINGS				
3.03	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
	i) 600mm x600mm, recessed module LED luminaire panel as Massive or equal & approved equivalent type '4x18'	27	No		
	ii) 300mm ø, recessed module LED luminaire panel as Massive or equal & approved equivalent	23	No		
	iii) 150mm ø, recessed module LED luminaire panel as Massive or equal & approved equivalent	10	No		
	iv) Self-contained single sided EXIT sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent.	2	No.		
	POWER POINTS				
3.04	Raw power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	34	No.		
3.05	13A moulded switched socket outlet plates as Crabtree or approved equivalent as follows:				
	i) Twin switched	34	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
3.06	Clean/UPS power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	31	No.		
3.07	13A Non-Standard switched socket outlet plates as Crabtree or approved equivalent as follows: i) Twin switched	31	No.		
3.08	Hand drier Unit power point comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in Trunking/50mmØ concealed HG PVC conduits	4	No.		
3.09	20A DP control switch with neon light and cord outlet for item No 1.08 above as Crabtree or approved equivalent	4	No.		
3.10	Bathroom/ Toilet extract power points comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in 25mmØ concealed HG PVC conduits	6	No.		
3.11	20A, DP control switch with neon light and cord outlet for item above as crabtree or approved equivalent	6	No.		
3.12	Air conditioning units power points comprising wiring in 3 x 4mm ² PVC/SC CU cables drawn in 32mmØ concealed HG PVC Conduits	12	No.		
3.13	20A DP control switch with neon light and cord outlet for item above as crabtree or approved equivalent	12	No.		
3.14	Instantaneous shower power point comprising wiring in 3x4mm ² PVC/SC/CU cables drawn in 25mmØ concealed in HG PVC conduits	2	No.		
3.15	20A DP Control switch marked 'Instant Shower' with neon light and code outlet for item above as crabtree or approved equivalent	2	No.		
3.16	Cooker power outlet power points comprising wiring in 3x6mm ² PVC/SC/CU cables drawn 32mmØ HG/PVC conduits	1	No.		
3.17	45A Cooker control unit complete with 13A Socket outlet and pilot lamps as crabtree or approved equivalent.	1	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	FIRE ALARM SYSTEM				
3.18	Fire Alarm points comprising wiring in 1.5mm ² heat resistant cables drawn in 20mmØ concealed HG PVC conduits	26	No.		
3.19	Addressable Photoelectric Smoke Detector as Menvier or Approved Equivalent	21	No.		
3.20	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	2	No.		
3.21	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.	2	No.		
3.22	Addressable rate of rise heat Detector as Menvier or approved equivalent.	1	No.		
	DATA/TELEPHONE & TELEVISION				
3.23	200 X 50mm Deep Powder coated 3-compartment metal trunking complete with bends As Manufactured by Power Technics	120	LM		
3.24	100 X 50mm Deep Perfotrated GI cable tray complete with all accessories As Manufactured by Power Technics	100	LM		
3.25	Data/Telephone outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	31	No.		
3.26	Television cord outlet points comprising 25mmØ HG PVC conduits complete with T.V co-axial socket outlet as M.K or Approved Equivalent	2	No.		
3.27	Floor mounted pedestal for workstations capable of accomodating 4No. Data/Telephone points & 4No. Twin switched socket outlet points fabricated and finished to engineers specifications.	2	No.		
3.28	Floor mounted semi-circular profile metal trunking complete with all accessories As Manufactured by Power Technics	12	LM		
3.29	250 X 250 X 150mm G.I Fully Recessed Telephone Draw box	1	No		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>BILL No. 4: THIRD FLOOR</u>				
	SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:-				
4.01	LIGHTING POINTS AND SWITCHES				
	Lighting points wired in 3 x 1.5mm ² PVC/SC CU cables drawn in 20mmØ concealed HG PVC conduits complete with all necessary accessories but excluding switches for:-				
	i) One way switching	37	No.		
	ii) Two way switching	29	No.		
4.02	10A, moulded ivory white switch plates as MK Range or approved equivalent as follows:-				
	1 gang 1 way	13	No		
	1 gang 2 way	4	No		
	2 gang 2 way	6	No		
	LIGHTING FITTINGS				
4.03	Lighting fittings complete with lamps of appropriate wattage and colour rendering and fixing materials as follows:-				
	i) 600mm x600mm, recessed module LED luminaire panel as Massive or equal & approved equivalent type '4x18'	28	No		
	ii) 300mm ø, recessed module LED luminaire panel as Massive or equal & approved equivalent	25	No		
	iii) 150mm ø, recessed module LED luminaire panel as Massive or equal & approved equivalent	11	No		
	iv) Self-contained single sided EXIT sign with 8W fluorescent lamp for non-maintained emergency lighting for 3 hour duration as Thorn EF X3 or approved equivalent.	2	No.		
	POWER POINTS				
4.04	Raw power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	29	No.		
4.05	13A moulded switched socket outlet plates as Crabtree or approved equivalent as follows:				
	i) Twin switched	29	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
4.06	Clean/UPS power socket outlet power points comprising wiring in 3 x 2.5mm ² PVC/SC CU cables drawn in 25mmØ concealed HG PVC conduits/trunking including all conduit accessories but excluding plates	27	No.		
4.07	13A Non-Standard switched socket outlet plates as Crabtree or approved equivalent as follows:				
	i) Twin switched	27	No.		
4.08	Hand drier Unit power point comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in Trunking/50mmØ concealed HG PVC conduits	4	No.		
4.09	20A DP control switch with neon light and cord outlet for item No 1.08 above as Crabtree or approved equivalent	4	No.		
4.10	Bathroom/ Toilet extract power points comprising wiring in 3 x 2.5mm ² PVC/SC/CU cables drawn in 25mmØ concealed HG PVC conduits	6	No.		
4.11	20A, DP control switch with neon light and cord outlet for item above as crabtree or approved equivalent	6	No.		
4.12	Air conditioning units power points comprising wiring in 3 x 4mm ² PVC/SC CU cables drawn in 32mmØ concealed HG PVC Conduits	14	No.		
4.13	20A DP control switch with neon light and cord outlet for item above as crabtree or approved equivalent	14	No.		
4.14	Instantaneous shower power point comprising wiring in 3x4mm ² PVC/SC/CU cables drawn in 25mmØ concealed in HG PVC conduits	2	No.		
4.15	20A DP Control switch marked 'Instant Shower' with neon light and code outlet for item above as crabtree or approved equivalent	2	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	FIRE ALARM SYSTEM				
4.16	Fire Alarm points comprising wiring in 1.5mm ² heat resistant cables drawn in 20mmØ concealed HG PVC conduits	26	No.		
4.17	Addressable Photoelectric Smoke Detector as Menvier or Approved Equivalent	30	No.		
4.18	Addressable Manual Fire Alarm 'Break Glass' call points as MENVIER or approved equivalent.	2	No.		
4.19	Addressable Electronic Fire Alarm sounder complete with Red Flashing beacon as MENVIER or approved equivalent.	2	No.		
	DATA/TELEPHONE & TELEVISION				
4.20	200 X 50mm Deep Powder coated 3-compartment metal trunking complete with bends As Manufactured by Power Technics	250	LM		
4.21	100 X 50mm Deep Perfotrated GI cable tray complete with all accessories As Manufactured by Power Technics	140	LM		
4.22	Data/Telephone outlet points comprising 25mmØ concealed HG PVC conduits complete with draw wire.	27	No.		
4.23	Floor mounted pedestal for workstations capable of accomodating 4No. Data/Telephone points & 4No. Twin switched socket outlet points fabricated and finished to engineers specifications.	1	No.		
4.24	Floor mounted semi-circular profile metal trunking complete with all accessories As Manufactured by Power Technics	6	LM		
4.25	250 X 250 X 150mm G.I Fully Recessed Telephone Draw box	1	No		
4.26	Security points comprising draw wire in concealed 20mm Ø HG PVC Conduits all emanating from the security office	6	No.		
4.27	50mmØ PVC HG conduit linking the Draw Boxes	25	LM		
4.28	38mmØ PVC HG conduit linking the Draw Boxes	25	LM		
	Total for Bill No. 4 C/F to Bills summary Page				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>Bill No. 5: LIGHTNING PROTECTION</u>				
	SUPPLY, DELIVER, INSTALL, TEST AND COMMISSION THE FOLLOWING:-				
	AIR TERMINATION				
3.00	Supply and lay along the ridge cap 25mm X 3mm thick bare copper tape as Furse P. No. TC030	70	M		
3.01	State Holdfast as Furse Cat. No. HF015 to fix the above tape to the roof ridge / parapet wall.	12	No.		
3.02	Air termination spike comprising the following.				
3.03	2000mm by 15mm diameter copper rod as Furse P.No. RA240 Complete with: Copper multiple point as Furse P. No. RA 600 and Copper ridge saddle as Furse P No. SD115.	3	Item		
	DOWNWARD CONDUCTOR				
3.04	Downward conductor comprising 25mm x 3mm thick bare copper tape as item 9.00	50	M		
3.05	Copper square tape clamp for making crossing tape joints as Furse CT 105 – FU.	4	No.		
3.06	DC tape clips for fixing the down conductors to the wall as Furse CT 105 – FU	40	No.		
3.07	Copper Oblong test clamp as Furse P NO CN 105	3	No.		
3.08	Steel conduits 32 mm diameter conduit.	25	M		
3.09	Saddles for the above item 9.07	15	No.		
	EARTHING				
3.10	Earth inspection concrete chamber 300mm x 300mm x 300mm with an air tight inspection cover to approval.	3	No.		
3.11	16 mm nominal diameter by 1500mm threaded copper bond earth rod as Furse P NO 310 driven to ground.	3	No.		
3.12	Driving stud for the above item as Furse ST 300	3	No.		
3.13	Earth electrode rod - to - downward conductor copper tape clamps as Furse CR 105	3	No.		
Total for Bill No. 5 C/F to Bills summary Page					

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	BILL No. 7: POWER DISTRIBUTION				
	LV BOARD,DISTRIBUTION BOARDS, SUB-MAIN CABLES,UPS & POWER DRAW BOXES				
	600/1000 volt grade multi core PVC insulated copper armoured cable to BS 6346, including concealed heavy gauge PVC conduit, accessories and fittings				
	POWER DISTRIBUTION PANEL LV BOARD:				
7.01	3 phase, 415V, Low Voltage free standing board fully front access chamber, with all CTs, auxilliary circuit breakers, labels, small wiring, ammeter and voltmeter, Automatic changeover switch, relays, timers, MANUAL-OFF-AUTOMATIC switch, indicator lamps, 1No. changeover contactors, and interconnections for automatic/ manual operation of the switch board. chamber sealable fabricated from 16 SWG steel sheets and frames complete with the following:	1	Item		
	(a) 1 set 600A TPN copper busbar				
	(b)1 No. 600A TP&N isolator.				
	(c) 2No. 600A TP MCCBAdjustable main incomer				
	(d) 1 No. 450A TP & N MCCBs as ABB outgoers.				
	e) 5 No. 250A TP & N MCCBs as ABB outgoers.				
	(f) 4No. 160A TP & N MCCBs as ABB outgoers.				
	(g) 5No. 125A TP & N MCCBs as ABB outgoers.				
	(h) 3 No. Spare ways for future development				
	(j) Sufficient space for KPLC cut-outs.				
	(k) Sufficient space for No. KPLC 3 phase meter				
	(l) 415V three phase surge diverter				
	(m) Sealable studs for all cover plate screws and all necessary accessories.				
	(n) 6mm perspex viewing window for meters.				
	(p) Heavy duty rubber lining for all the perspex viewing windows.				
	(q) 6" Viro padlock complete with 3 sets of keys.				
7.02	40 KVAr automatic p.f Correction capacitor bank, with 5.steps regulators, CTs and control cabling	1	Item		
7.03	Complete earthing to KPLC requirements comprising clamps and 20mm dia, 4ft long copper earth electrodes in concrete inspection pit with removable cover.	1	Item		
	CLEAN POWER SUPPLY				
7.04	40kVA freestanding switch mode uniteruptible power supply unit	1	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	iii) Indicator bulbs (for 3 Phase)				
	iv) 1No. 1-250A Digital ammeter c/w selector switch, 5A fuse				
	v) 1No. 0-500V Digital Voltmeter c/w selector switch, 5A fuse				
	vi) 200A TP MCCB main Incomer, adjustable and with trip coil as Crabtree or equal and approved for above board				
	vii) 4 x 100A TPN MCCB outgoers				
	viii)TPN blanking plates				
7.06	25mm ² 4-C PVC/SWA/PVC Copper cable to Distribution panel board above located in the service duct c/w appropriate cable lugs	10	LM		
	i) Cable glands for above cable	4	No.		
7.07	Manual bypass switch & Isolator switch for above UPS	1	No.		
	GROUND FLOOR -				
	RAW POWER DISTRIBUTION BOARDS				
7.08	150A, 8-Way,TPN DB surface mount as EATON or approved equivalent.	1	No.		
7.09	125A, 6-Way, TPN DB Surface mount as EATON or approved equivalent.	1	No.		
7.10	SP Maniature circuit breakers for distribution boards above.				
	i) 5A SP MCB	1	No.		
	ii) 10A SP MCB	6	No.		
	iii) 20A SP MCB	6	No.		
	iv) 25A SP MCB	10	No.		
	v) 30A SP MCB	18	No.		
	vi) TP Blanking Plates	1	No.		
	SUB-MAINS & FEEDER CABLES				
7.11	25mm ² 4-C PVC/SWA/PVC Copper cable to 2No. DBs above located in the service duct c/w appropriate cable lugs	120	LM		
	i) Cable glands for above cable	4	No.		
7.12	150x75mm, 14SWG cable tray c/w mounting row bolts and all other necessary accessories	70	LM		
	CLEAN POWER DISTRIBUTION				
7.13	100 A ,4-way, TPN DB as crabtree or approved	1	No.		
7.14	SP Miniature circuit breakers for above items				
	i) 20A	9	No.		
	ii) TP Blanking Plates	3	No.		
	SUB-MAINS & FEEDER CABLES				
7.15	16mm ² 4-C PVC/SWA/PVC copper cable to 1No. DBS located in the service ducts c/w appropriate cable lugs	120	LM		
7.16	150x50mm, 14SWG cable tray cw row bolts for mounting and all the other necessary accessories for power supply cable	50	LM		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	FIRST FLOOR -				
	RAW POWER DISTRIBUTION BOARDS				
7.17	150A, 8-Way,TPN DB surface mount as EATON or approved equivalent.	1	No.		
7.18	125A, 6-Way, TPN DB Surface mount as EATON or approved equivalent.	1	No.		
7.19	SP Maniature circuit breakers for distribution boards above.				
	i) 5A SP MCB	1	No.		
	ii) 10A SP MCB	6	No.		
	iii) 20A SP MCB	6	No.		
	iv) 25A SP MCB	10	No.		
	v) 30A SP MCB	18	No.		
	vi) TP Blanking Plates	1	No.		
	SUB-MAINS & FEEDER CABLES				
7.20	25mm ² 4-C PVC/SWA/PVC Copper cable to 2No. DBs above located in the service duct c/w appropriate cable lugs	150	LM		
	i) Cable glands for above cable	4	No.		
7.21	150x75mm, 14SWG cable tray c/w mounting row bolts and all other necessary accessories	70	LM		
	CLEAN POWER DISTRIBUTION				
7.22	100 A ,4-way, TPN DB as crabtree or approved	1	No.		
7.23	SP Miniature circuit breakers for above items				
	i) 20A SP	9	No.		
	ii) TP Blanking Plates	3	No.		
	SUB-MAINS & FEEDER CABLES				
7.24	16mm ² 4-C PVC/SWA/PVC copper cable to 1No. DBS located in the service ducts c/w appropriate cable lugs	150	LM		
7.25	150x50mm, 14SWG cable tray cw row bolts for mounting and all the other necessary accessories for power supply cable	50	LM		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	SECOND FLOOR -				
	RAW POWER DISTRIBUTION BOARDS				
7.26	150A, 8-Way,TPN DB surface mount as EATON or approved equivalent.	1	No.		
7.27	125A, 6-Way, TPN DB Surface mount as EATON or approved equivalent.	1	No.		
7.28	SP Maniature circuit breakers for distribution boards above.				
	i) 5A SP MCB	1	No.		
	ii) 10A SP MCB	6	No.		
	iii) 20A SP MCB	6	No.		
	iv) 25A SP MCB	7	No.		
	iv) 30A SP MCB	18	No.		
	v) 45A SP MCB	1	No.		
	vi) TP Blanking Plates	3	No.		
	SUB-MAINS & FEEDER CABLES				
7.29	25mm ² 4-C PVC/SWA/PVC Copper cable to 2No. DBs above located in the service duct c/w appropriate cable lugs	160	LM		
	i) Cable glands for above cable	4	No.		
7.30	150x75mm, 14SWG cable tray c/w mounting row bolts and all other necessary accessories	70	LM		
	CLEAN POWER DISTRIBUTION				
7.31	100 A ,4-way, TPN DB as crabtree or approved	1	No.		
7.32	SP Miniature circuit breakers for above items				
	i) 20A SP	9	No.		
	ii) TP Blanking Plates	3	No.		
	SUB-MAINS & FEEDER CABLES				
7.33	16mm ² 4-C PVC/SWA/PVC copper cable to 1No. DBS located in the service ducts c/w appropriate cable lugs	160	LM		
7.34	150x50mm, 14SWG cable tray cw row bolts for mounting and all the other necessary accessories for power supply cable	50	LM		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	THIRD FLOOR -				
	RAW POWER DISTRIBUTION BOARDS				
7.35	150A, 8-Way,TPN DB surface mount as EATON or approved equivalent.	1	No.		
7.36	125A, 6-Way, TPN DB Surface mount as EATON or approved equivalent.	1	No.		
7.37	SP Maniature circuit breakers for distribution boards above.				
	i) 5A SP MCB	1	No.		
	ii) 10A SP MCB	6	No.		
	iii) 20A SP MCB	6	No.		
	iv) 25A SP MCB	10	No.		
	v) 30A SP MCB	18	No.		
	vi) TP Blanking Plates	1	No.		
	SUB-MAINS & FEEDER CABLES				
7.38	25mm ² 4-C PVC/SWA/PVC Copper cable to 2No. DBs above located in the service duct c/w appropriate cable lugs	170	LM		
	i) Cable glands for above cable	4	No.		
7.39	150x75mm, 14SWG cable tray c/w mounting row bolts and all other necessary accessories	70	LM		
	CLEAN POWER DISTRIBUTION				
7.40	100 A ,4-way, TPN DB as crabtree or approved	1	No.		
7.41	SP Miniature circuit breakers for above items				
	i) 20A SP	9	No.		
	ii) TP Blanking Plates	3	No.		
	SUB-MAINS & FEEDER CABLES				
7.42	16mm ² 4-C PVC/SWA/PVC copper cable to 1No. DBS located in the service ducts c/w appropriate cable lugs	170	LM		
7.43	150x50mm, 14SWG cable tray cw row bolts for mounting and all the other necessary accessories for power supply cable	50	LM		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	Balance brought forward				
	OUTDOOR AC POWER SUPPLY				
7.44	35mm ² 4-C PVC/SW A/PVC copper to 2 No. 3 phase Isolators at the roof top serving the outdoor Air conditioning units c/w appropriate cable lugs.	100	LM		
	i) Cable glands for above cable	4	No.		
7.45	Wall mounted power distribution panel board with front access panel, metal clad 14SWG, 415 mains L.V, 450A TP copper busbars wired for one incoming MCCB and 4No. 225TP outgoing feeders with all necessary accessories:	1	No.		
7.46	2 x 16mm ² 4C PVC/SWA/PVC copper cable to power DB on roof space c/w appropriate lugs for the outdoor AC unit	120	Lm		
	i) Cable glands for above cable	4	No.		
7.47	150A TPN Metaclad isolator	4	No.		
	WATER PUMP				
7.48	6mm ² 4-C PVC/SWA/PVC copper cable c/w appropriate cable lugs from MCP to water pump	100	Lm		
	i) Cable glands for the above cable	2	No.		
7.49	32A TPN Isolator switch for item above as crabtree or approved equivalent	1	No		
	LIFTS				
7.50	16 mm ² 4-C PVC/SWA/PVC copper cable to Passenger Lift 1 Isolator complete with cable glands and cable lugs	95	Lm		
7.51	16 mm ² 4-C PVC/SWA/PVC copper cable to Passenger Lift 2 Isolator complete with cable glands and cable lugs	95	Lm		
7.52	80A TPN Isolator as MK or approved equivalent	2	No.		
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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	BILL No. 9: EXTERNAL ELECTRICAL WORKS				
	Provide, Install, Test and Commission				
9.01	1500VA photocell control unit as Thorn Cat No. QPK complete with 80A contactor with 240V AC contactor coil as Crabtree or approved equivalent	3	No		
9.02	Lighting points from consumer unit comprising wiring in 3x 1.5 sqmm SC PVC Cu cables in 20mm dia. heavy gauge PVC conduits concealed in concrete slab/ceilling and walls excluding other accessories for;-				
	One way switching	30	No		
9.03	10mm ² two core steel armoured cable. Rate to include for laying and fixing of cable	100	LM		
9.04	100mm diameter PVC duct with concrete surround at road crossings	150	LM		
9.05	Fabricated loop in box gauge 16 450x400x150mm steel sheets complete with bonding screws/bolt and cover plate.	3	No		
9.06	Galvanised steel Meter and lockable switching cabinets, ground mounted, water proofed raised above ground on concrete base to details.	3	No		
9.07	30A Circuit Breakers club turn or equivalent	4	No		
9.08	63A Double pole switch	4	No		
9.09	Cut out complete with SPN 80A HRC fuse	3	No		
9.10	15W, 270mmx140mmx95mm, Outdoor LED Wall light waterproof as GY-708A or approved equivalent.	30	No..		
9.11	Gate Wall light as approved by engineer.	6	No..		
9.12	Earthing conductor	3	No..		
9.13	Earthing comprising of 1800mm long by 15mm diameter copper earth electrode with a driving tip and clamp in a 300mm by 300mm man hole with removable cover	3	No		
9.14	400A operating earth linkage circuit breaker with rated leakage current of 0.5 Amp Type crabtree or equivalent	3	No		
	Balance carried forward				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	BILL No. 10: GENERAL ITEMS OF PRELIMINARY				
10.01	Allow a sum of kshs, 50,000 for Preparation of Working Drawings	1	Item		
10.02	Prepare and submit Maintenance Manuals for all items installed.	1	Item		
10.03	Allow a sum of kshs, 50,000 for preparation of As-Installed in Drawings	1	Item		
10.04	Allow a sum of kshs, 50,000 for removal of any existing power services on site, comprising:-				
	i) Applying to the KPLC to disconnect and remove such services, including any power meters that may be on site.				
	ii) Making all the required liaison with KPLC to ensure speedy disconnection, removal, and/or re-routing of all services that may be existing on site.				
	(Note: The tenderer <u>MUST</u> visit site to assess and establish the nature of all existing services on site).	1	Item		
10.05	Allow for sum of kshs, 6,500,000 for expansion and construction of power house to accommodate switch lv board and generator	1	Item		
10.06	Allow a sum of kshs, 50,000 for sub-contractors charges for liaison with Kenya Power & Lighting Company comprising the following:-				
	i) Presenting power application details and getting reference number.				
	ii) Making regular follow-ups with Kenya Power & Lighting Company				
	iii) Facilitating inspection, approvals and certification by Kenya Power & Lighting Company				
	iv) Providing attendance and materials required for power connection.				
	v) Filling out and submitting Commencement and Completion certificates				
	vi) Performing all other services required for power supply to site.	1	Item		
	Total for Bill No. 10 C/F to Bills Summary Page				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>BILL No. 11: GENERATOR SET</u>				
	<u>Supply, deliver to site, install, test and commission the following:</u>				
11	Supply, deliver to site, install, test and commission a prime rated 400 KVA 3 phase, 415V, 50Hz diesel generating set with a continuous power factor of 0.8 lagging and as fully described in the particular specifications. The generator set is to be complete with a sound attenuated canopy and an integral base/belly daily service fuel tank with an operational running capacity of 8 hours.	1	No		
11	Supply, deliver to site and install a steel exhaust pipe of not less than 14 SWG and of adequate diameter running from the generating set to the outside of the generator house	5	LM		
11	Connect the exhaust pipe above in item 1.2 using steel pipes of adequate diameter, and flexible piping off engine exhaust manifold complete with heavy duty silencer	1	Item		
11	Complete earthing of generating set to electrical engineer's approval	1	Item		
11.1	An electrical control panel complete with suitable rated incoming MCCBs and contactors for automatic change over operation and complete with all other control accessories as fully described in clauses 9.3 to 9.10 of the particular specifications	1	No		
11.1	Suitable rated manual by-pass switch with clearly labeled NORMAL-OFF-BYPASS positions, and shall such be wired that when the switch is on either OFF or BYPASS position, the generator shall receive no signal to start	1	No.		
11.1	240V AC/12V DC mains power supply trickle battery charger as specified in clause 9.6 of specifications. The trickle charger shall charge the battery when the set is on IDLE mode , otherwise when the set is RUNNING , the battery shall be charged by the generator charger .	1	No.		
11.1	12 volts battery as specified by engineer	1	No.		
	Balance carried forward				

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ITEM	DESCRIPTION	UNIT	QTY	RATE	BQ AMOUNT
	Balance brought forward				
	For the supply to the site of the following spare parts and lubricators:				
11.2	Metal tool box with lock and two keys		1		
11.2	Set of 8 No. Chrome vanadium ring spanners in sizes to suit the set		1		
11.20	Set of 3 screwdrivers, 75mm, 200mm and 300mm plus one 200mm Philips type		1		
11.2	- ditto -but open ended spanners		1		
11.2	Set of feeler gauges		1		
11.2	Set of 8 No. Ratchets in sizes to suit the set		1		
11.2	Grease gun to suit greasing points complete with compressor		1		
11.3	Oil can, trigger type		1		
11.3	Any other special tools which the tenderer recommends should be purchased as an optional.*		1		
	Total for Bill No. 11 C/F to Bills summary Page				

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ITEM	DESCRIPTION	QTY	UNIT	RATE	BQ AMOUNT
	<u>MAIN SUMMARY</u>				
1.0	PRELIMINARIES				
2.0	BULDER WORK				
3.0	ELECTRICAL WORKS				
4.0	MECHANICAL WORKS				
5.0	PC SUMS				
	<u>TOTAL 1</u>				
	<u>ADD</u>				
	Contingencies 10%				
	<u>Note* Hardship Areas, (where sites are difficult to access) are allowed upto 5% of the contingencies after approval from the project manager and the Quantity surveyor</u>				
	TOTAL 2				
	ADD.				
	16% V.A.T				
	<u>TOTAL CARRIED TO FORM OF TENDER</u>				
	SIGNATURE AND STAMP OF TENDERER				
	DATE				
	NAME AND ADDRESS				
	TENDERER'S WITNESS SIGNATURE				
	DATE				
	NAME AND ADDRESS				