



REPUBLIC OF KENYA
DIRECTORATE OF PUBLIC WORKS

PROPOSED CONSTRUCTION OF TB UNITS AT ISIOLO COUNTY REFERRAL HOSPITAL.

TENDER DOCUMENTS

ICG/020/2017 -2018

ISSUED BY:

COUNTY WORKS OFFICER,

ISIOLO COUNTY GOVERNMENT

DEPARTMENT OF PUBLIC WORKS

P.O BOX 36-60300

P.O BOX 38,

ISIOLO

ISIOLO.

23RD February, 2018.at 11:00am

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	PROPOSED CONSTRUCTION OF TB UNITS				
	<u>ELEMENT NO.1</u>				
	<u>SUBSTRUCTURES</u>				
	<u>(ALL PROVISIONAL MEASURED)</u>				
	<u>The following works have been measured up to and including around floor slab).</u>				
	<u>Earthworks & excavations.</u>				
A	Excavate to remove clay soil deep and deposit as average 2000mm deep	CM	701		
B	Extra over excavation for all class of rock.	CM	3		
C	Approved hardcore filling well handpacked, rammed, watered and compacted in layers of 150mm thick.	CM	575		
D	50mm fine material for building (murrum / quarry dust) for surface of hardcore well and leveled.	SM	290		
E	Return, fill and ram selected excavated materials around foundation.	CM	51		
F	Load and cart away excavated soil from site as directed.	CM	650		
G	“Termidor” or other equal and approved insecticide solution treatment to manufacturer’s instructions on blinded surfaces and bottoms of foundations.	CM	319		
H	1000 gauge polythene D.P.M underlay sheeting to bottom of slab with end and side laps of 150mm.	SM	319		
J	Allow for keeping excavations free from all water by draining pumping or otherwise.				Item
L	Allow for maintaining and upholding sides of excavations as necessary clearing away any debris: rubbish etc.				item
	TOTAL CARROED TO COLLECTION				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>SUBSTRUCTURES (continued)</u>				
	<u>Plain concrete (1;4:8) in:-</u>				
A	50mm thick blinding to foundation and column bases	SM	135		
	<u>Vibrated reinforced concrete (1:2:4) in:</u>				
B	Foundation strip footing	CM	34		
C	Ground beams	CM	17		
D	100mm thick slab	SM	319		
	<u>Sawn formwork to:-</u>				
E	Vertical sides columns, foundation and bases	SM	165		
F	Edges of floor slab 75 –150 mm high	LM	114		
G	Sides of ground beams	SM	174		
	<u>Steel reinforcements:-</u>				
	<u>Supply and including all necessary lying wires and spacer blocks..</u>				
H	8mm high tensile square twisted steel bars	KG	460		
I	10mm Ditto.	KG	630		
J	12mm ditto	KG	1980		
K	Steel fabric reinforcement mesh No. A142	SM	319		
	<u>Foundation Walling</u>				
	<u>Natural stone walling in cement – sand (1:3) mortar including reinforcing with 20x3mm thick hoop-iron in every alternate course.</u>				
L	225mm Thick walling	SM	436		
	TOTAL CARROED TO COLLECTION				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>SUBSTRUCTURES (contd)</u>				
	<u>Plinths</u>				
A	12mm thick cement – sand (1:3) render to plinths	SM	57		
B	Prepare and apply three coats of bitumastic paint to rendered plinths externally.	SM	57		
	Paving slabs around building				
C	600 x 600x 50mm thick grey pre-cast concrete (1:2:4) paving slabs with cement and sand mortar (1:3) joints including 50mm bed of sand	SM	90		
	TOTAL CARRIED TO COLLECTION BELOW			KSHS	
	COLLECTION				
	FROM PAGE GH /1				
	FROM PAGE GH/2				
	FROM ABOVE				
	TOTAL FOR ELEMENT NO. 1 SUBSTRUCTURES CARRIED SUMMARY PAGE				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>SUPERSTRUCTURE</u>				
	<u>ELEMENT NO.2</u>				
	<u>Reinforced concrete superstructure</u>				
	<u>Vibrated reinforced concrete (1:2:4) in:-</u>				
A	Beams and columns	CM	12		
B	50mm Thick Worktop	SM	15		
	<u>Sawn formwork to:</u>				
C	Sides and soffits of beams and lintols	SM	124		
D	Ditto Columns curved	SM	10		
E	Soffits of worktop	SM	15		
	<u>Steel reinforcement:-</u>				
	<u>Supply and fix including all necessary lying wires and spacer blocks.</u>				
F	8mm high tensile square twisted bars	KG	400		
G	12mm ditto	KG	900		
H	Fabric mesh A142 reinforcement	SM	15		
	TOTAL FOR ELEMENT NO. 2				
	REINFORCED CONCRETE SUBSTRUCTURES				
	TOTAL CARRIED SUMMARY PAGE				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<p><u>ELEMENT NO.3</u> <u>WALLING</u></p> <p><u>Natural building stones or concrete blocks in cement – sand (1:4) mortar and reinforced at every alternate course with 25mm x 3 mm thick hoop – iron.</u></p>				
A	150mm thick walling	SM	509		
B	Extra over walling for smooth face dressing and horizontal and vertical keying	SM	168		
C	<p><u>Bitumastic Damo proof Course fet cement (1:4) mortar bed</u></p> <p>150mm wide</p>	LM	164		
D	<u>Permanent ventilation.</u>				
D	Leave or make hole size 225x225mm through walling for vents	NO	57		
E	225 x 225 x 12mm thick precast concrete (1:2:4) vent block lined with mosquito gauze internally including moulding around in cement – sand (1:3) mortar.	Pair	57		
	<p>TOTAL FOR ELEMENT NO. 3 WALLING CARRIED TO SUMMAR PAGE</p>				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>ELEMENT NO. 4</u> <u>ROOFING AND RAINWATER DISPOSAL</u> <u>Wall-plate in first grade sawn celcured cypress.</u>				
A	100x50mm wall-plate on beam with 12mm cement /sand (1:3) mortar bed and hoop ron straps (m/s)	LM	115		
B	Make mortice in concrete beam for anchoring hoop iron straps	NO	80		
C	20x2mm thick hoop iron strapping's 800mm long once folded, cast into beams and other end run over and lapped over timber with adequate nailing.	NO	80		
	<u>Covering</u>				
D	28gauge IT 4 rooting sheets on 75x50mm timber purlins (m/s) with adequate end and side laps..	SM	415		
E	Ditto matching ridge and valley	LM	117		
	<u>Trusses</u> <u>The following double pitched sawn cypress celcured graded timber.</u>				
G	150x50mm tie beam	LM	260		
H	100 x50mm rafters	LM	373		
J	100X50mm struts or ties	LM	314		
K	75x50mm purlins	LM	1700		
	<u>Wrot 1st grade cypress in:-</u>				
L	250x25mm fascia / verge boards with one beveled edge and fixed to ends of rafters and purlins	LM	140		
	TOTAL CARRIED TO SUMMARY				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>ROOFING (continued)</u> <u>1st grade sawn cypress timber in:-</u>				
A	75x50mm bandering set at 600mm centres	LM	630		
B	50 x 50mm ditto	LM	600		
	<u>Decoration and painting</u> <u>Knot, prime, stop, destain, prepare and apply one</u> <u>undercoat and two finishing gloss oil paint to:-</u>				
C	Surface of timber 200-300mm girth.	LM	140		
	TOTAL CARRIED TO SUMMARY PAGE				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<p data-bbox="285 338 558 369">ROOFING (continued)</p> <p data-bbox="532 485 748 579">COLLECTION FROM PAGE GH/6 FROM PAGE GH/7</p> <p data-bbox="285 1797 570 1860">TOTAL FOR ELEMENT CARRIED TO SUMMARY</p>				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
A	<p><u>ELEMENT NO. 5</u> <u>METAL DOORS</u></p> <p><u>METAL DOORS</u></p> <p><u>The following purpose made mild steel doors complete with hanging lacking accessories fabricated in accordance with the architectural designs and once primed with red oxide before delivery to the site cutting and pinning fixing lugs to walls and plastering reveals in cement (1:3) mortar with all main frames in 50x40mm RHS tubing.</u></p> <p>Single leaf door size 3200x2400mm high overall comprising 50x25x3mm thick framing, 50x25mm RHS vertical infill flush welded and jointed to full width of gate in two leaves</p> <p><u>TIMBER DOORS</u></p> <p><u>The following in framing and finishes wrot hardwood in:-</u></p>	NO	1		
B	100x50mm rebated and moulded framing	LM	102		
C	45x20mm architrave	LM	102		
D	30mm quadrant beading	LM	102		
E	850x2050mm high semi solid core flush door	NO	20		
F	<p><u>IRONMONGERY</u> <u>Supply and fix only the following ironmongeries to manufactures instructions with matching</u></p> <p>100mm pressed brass hinges</p>	Prs	30		
	<p>TOTAL CARRIED TO COLLECTION PAGE</p> <p style="text-align: right;">GH/9</p>				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
A	2 – lever mortice lock as “union” or other equal approved with set of lever furniture handles	NO	20		
B	100mm steel tower bolt	NO	20		
C	Rubber door stop with raw bolt screwed & plugged	NO	20		
	<u>Prepare and apply one undercoat and two finishing coats glass oil painting to:-</u>				
D	Metal surfaces externally	SM	8		
E	Ditto internally	SM	8		
	<u>Knot, prime, stop and apply one undercoat and two finishing coats gloss all paint to:-</u>				
F	Wood surfaces internally	SM	76		
G	Ditto 100 – 200mm girth	LM	102		
H	Ditto 0 – 100mm girth	LM	102		
	TOTAL CARRIED TO COLLECTION BELOW				
	COLLECTION				
	FROM PAGE GH/9				
	FROM ABOVE				
	TOTAL FOR ELEMENT NO.5 DOORS CARRIED TO SUMMARY PAGE				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>ELEMENT NO. 6</u> <u>WINDOWS</u>				
	<u>The following purpose made burglar proofed metal steel window casements in standard 25mmx3mm T and Z section framing in medium panes (o.35M finished with one coat Red-oxide primer before fixing and all complete with necessary fasteners and stays to all openable parts and 75mm permanent vent hood filled with coffee-tray and mosquito gauze to full width all as per Architects designs including cutting sone and pinning fixing lugs and beddings and pointing ground reveals in Cment(1:3) mortar</u>				
A	Windows size 1200x1000mm high with equal 900mm high side-hung openable satchets, one 3 equal sized paned top-hung openable snatch.	NO	21		
B	Ditto 1500x1000mm	NO	2		
C	Ditto 900x800mm	NO	2		
D	Ditto 600x700mm	NO	7		
	<u>GLAZING</u>				
	<u>4mm thick class in medium panes including cutting and glazing to metal with lead putty</u>	SM	28		
E	Clear sheet 0.10-0.50SM	SM	4		
F	Obscure sheets ditto				
	<u>Insitu concrete (1:2:4) as described including form work in:</u>				
G	Windows cill size (average) 65mm thick x 250mm wide weathered and throated	LM	44		
	<u>Pelment Boxes.</u>				
H	Wrot hardwood pelmet box comprising 150x25mm top fascia and ends fixed on 50x25mm sawn bearer plugged to wall				
I	Brass 1-section curtain track complete with hocks and rollers	LM	44		
	<u>prepare and apply one undercoat and two coats glass oil finishing paint to:-</u>	LM	44		
J	Glazed metal surfaces externally				
K	Ditto internally				
L	Timber 200-300mm high	SM	32		
		SM	32		
		LM	44		
	<u>TOTAL FOR ELEMENT NO.5 WINDOWS CARRIED TO SUMMARY PAGE.....</u>				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>ELEMENT NO. 7</u>				
	<u>FINISHINGS</u>				
	<u>External Walls</u>				
A	12mm Thick cement-sand (1:4) render to beams	SM	29		
B	15mm Thick ditto to wall surfaces	SM	30		
C	Three coats of 1 st grade plastic emulsion paint as per “crown berger” or other equal and approved to plastered/rendered surfaces.	SM	59		
	<u>Internal walls</u>				
D	15mm thick cement-sand (1:4) plaster finished smooth for painting	SM	769		
E	9mm thick ditto as backing to receive tile	SM	80		
F	6mm thick glazed ceramic tilling as saj ceramic Ltd” or equal and approved on plastered walling including mastic pointing	SM	80		
G	Etra for rounded edge tile.	LM	20		
H	<u>Floors</u>				
I	30mm Thick Cement-sand (1:4) screed finished to receive tiles	SM	310		
J	6mm thick floor files as ‘saj ceramic or equal and approved	SM	310		
K	150X6mm skirting ditto	LM	405		
L	6mm Thick ditto to worktips	SM	15		
	<u>Ceiling</u>				
M	12mm Thick chip boards nailed symmetrically onto timber brandering (m/s) with clout nails and v-joined	SM	303		
N	100x20mm wrot cypress mould cornice with mitre jointing at corners	LM	411		
O	Extra-over celotex ceiling for trap door size 600x600mm comprising loose 12mm board set on 50x25mm framing	NO	4		
	<u>PAINTING and DECORATIONS</u>				
	<u>Prepare AND APPLY THREE COATS”SILKY Vinly as Crown berger” Plastic Emulsion Painting to-:</u>				
P	Plastered walls surfaces.				
Q	Plastered soffits of ceiling boards and cornies	SM	769		
	ELEMENTS NO.6 FINISHES	SM	303		
	TOTAL CARRIED TO SUMMARY PAGE.....				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO.8 PLUMBING WORKS</u>				
	<u>(All work in this element have measured to the outside of the building) medium grade galvanized mild steel tubing and connections and jointing</u>				
A	12mm tubing	LM	160		
B	19mm ditto	LM	120		
C	12mm brass full way gate valve	NO	10		
D	19 mm ditto	NO	10		
E	200 Litres approved PVC storage tank complete with ball valve and other necessary accessories including fixing to roof on bearings.	NO	3		
F	Vitrous China hospital type wash hand basin fixed on Semi – concealed brackets complete with two chromium plated bib taps and other accessories.	NO	14		
G	High Level W.C suit comprising vitrous china pan with “p” trap 2 gallon plastic cistern complete with plastics seat and cover flush pipe and necessary accessories.	NO	7		
H	Stainless steel 2000x600mm kitchen sink	NO	1		
I	50mm diameter PVC gulley traps grating setting in ground including excavations and concrete surround.	NO	9		
J	32 mm diameter medium grade PVC waste pipe.	LM	16		
K	100mm ditto vent pipe.	LM	32		
L	Allow for testing the whole of plumbing installation.	ITEM			

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<u>ELEMENT NO.9 DRAINAGE</u>				
	<u>Standards type manhole as mow drawing No. (50) 5300 and (50) 5301 including all excavating constructions, benching channels and approved light duty cast iron manahole cover and frame</u>				
A	Manhole type "A"	NO	13		
	<u>Excavate trench for pipe not exceeding 150mm diameters not exceeding 1.5 metres total depth part backfilling and remainder cart away</u>				
B	Average depth 500mm	LM	115		
C	100mm diameter medium grade UPVC drain pipe	LM	115		
D	Provide for 5 persons septic tank	ITEM			
E	Allow testing drainage works	ITEM			

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TB UNITS AT ISIOLO COUNTY REFERRAL HOSPITAL				
1	ELEMENT NO.1 SUBSTRUCTURES B/F FROMGH/3				
2	ELEMENT NO.2 R.C SUPERSTRUCTURE B/F FROM GH/4				
3	ELEMENT NO.3 WALLING B/F FROM GH/5.....				
4	ELEMENT NO. 4 ROOFING B/F FROM GH/8.....				
5	ELEMENT NO.5 DOORS B/F FROM GH/10.....				
6	ELEMENT NO.6 WINDOWS B/F FROM GH/11.....				
7	ELEMENT NO.7 FINISHING B/F FROM GH/12.....				
8	ELEMENT NO.8 PLUMBING WORKS FROM GH/13.....				
9	ELEMENT NO.9 DRAINAGE B/F FROM GH/14.....				
	TOTAL ELEMENTAL SUMMARY				
	CARRIED TO GRAND SUMMARY.....				

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>PC and PROVISIONAL SUMS</u>				
A	Allow provision sum of Kshs. 500,000 for contingencies				500, 000
B	Allow sum of Kenya100,000 for kitchen and wardrobe fittings				250, 000
	TOTAL P.C& PROVISIONAL SUMS CARRIED TO GRAND SUMMARY.....				

PROPOSED CONSTRUCTION OF TB UNITS AT ISIOLO COUNTY

REFERRAL HOSPITAL

GRAND SUMMARY

ITEM	DESCRIPTION	FOR TENDERERS USE ONLY (KSHS)	OFFICIAL USE ONLY (KSHS)
1.	PARTICULAR PRELIMINARIES		
2	GENERAL PRELIMINARIES		
3	TB UNITS		
4	PERIMETER FENCE		
5	WATER TOWER CONCRETE BLOCK PAVINGS		
6	ELECTRICAL WORK		
7	P.C AND PROVISIONAL SUMS		
8	SUB-TOTAL (A)		
9	ADD 16% V.A.T OF SUB-TOTAL (A)		
10	GRAND TOTAL CARRIED TO FORM OF TENDER		

Amount in Words.....

Tenders signature and stamp.....Date.....

Name.....

Name of witness.....

Signature.....

Address

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
<u>MASONRY PERIMETER FENCE AT TB UNITS</u>					
A	Excavate trenches for strip foundation columns bases not exceeding 1.5m deep.	LM	48		
B	Ditto 1-50 -2.00m	CM	16		
<u>FILLING AND CARTING</u>					
C	Return,fill and ram selected excavated to column pit.	CM	54		
D	Load and cart away excavated material on site as directed.	CM	10		

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
A	PLAIN CONCRETE OF MIX 1:4:8 50mm thick blinding to column bases and foundation. <u>Vibrated reinforced concrete(1:2:4) in:-</u>	SM	43		
B	Beams	CM	4		
C	Column bases and columns	CM	6		
D	Strip foundation <u>Sawn formwork to:-</u>	CM	5		
E	Side columns.	SM	77		
F	Bases and strip	SM	28		
G	Beams. <u>Natural stone walling in cement –sand including reinforcing with 20x3mm thick every alternate course.</u>	SM	40		
G	200mm thick quarry stone walling	SM	92		
H	150mm machine cut walling in cement sand(1:4) mortar	SM	130		
J	8mm diameter bar reinforcement	KG	160		
K	12mm diameter ditto/10mm Diameter ditto	KG	675		
L	12mm thick cement sand(1:3)plaster to columns/ beams.	SM	58		
M	Prepare and apply three coats of gloss oil paint to plastered surfaces.	SM	58		
N	300x50mm thick precast concrete coping in cement and sand mortar(1:3).	LM	46		
O	300x400x50mm ditto.	NO	17		
P	Extra over walling for keying with (1:3)cement sand mortar. <u>Expansion joints</u>	SM	130		
Q	25mm thick flexcell,300mm wide.	LM	10		
R	25x25mm plastic sealant.	LM	6		

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT KSHS
	<p><u>COLLECTION</u></p> <p>FROM PAGE MP/1</p> <p>FROM PAGE MP/2</p>				

ITEM No	DESCRIPTION	UNIT	QTY	RATE	SHS
	<u>REINFORCED CONCRETE WATER TOWER</u>				
A	Excavate for column bases	CM	10		
B	Load and cart away excavated materials	CM	4		
C	Return fill and ram	CM	6		
D	Concrete of Mix 1:4:8 in 50 mm blinding to column bases.	SM	5		
	<u>CONCRETE OF MIX 1:2:4IN</u>				
E	Column bases	CM	2		
F	Columns	CM	2		
G	Beams	CM	1		
H	150mm suspended slab	SM	14		
I	<u>Sawn forwork to:</u>				
J	Clomun bases	SM	5		
K	Column	SM	24		
L	Beams	SM	10		
M	Suspended slab	SM	14		
N	Edge of slab 75-150mm high	LM	15		
	<u>Reinforcement</u>				
O	8mm Diameter bars	KG	60		
P	12mm Diameter bars	KG	560		
Q	12mm plaster to columns beams and suspended slab	SM	38		
R	10,000 Litres Plastic Water	NO	1		
	TOTAL				

ITEM No	DESCRIPTION	UNIT	QTY	RATE	SHS
	<u>CONCRETE BLOCK PAVINGS</u>				
	Excavation				
A	Excavate to formation level and deposit in spoil heaps	CM	125		
B	Extra over excavation for excavating in hard rock	CM	5		
	IMPORTED FILLING				
C	150mm bed of compacted murrum.	SM	419		
D	Precat concrete paving blocks, normal size 200x100x60mm(cabro blocks or equivalent) on 50mm sand bed , laid all as per the manufacturer's instructions and to the Engineer approval in herring bone pattern.	SM	419		
E	Raking cutting	LM	20		
	Kerbs.				
F	125x250xprecast concrete class 25 half battered kerb, jointed and pointed in cement mortar (1:5) on and including 250x100mm plain concrete class 20 foundation and handling at back including all excavation and disposal.	LM	80		
G	125x100 mm precast concrete class 25 channels, set in and including plain concrete has 20300x4x150mm launching sides ditto.	LM	164		
H	Precast concrete class 25, invert block size 500x355x75mm thick, with flat top edges bedded on and including 100mm bed of compacted murrum	LM	40		

PROPOSED TB UNITS ISIOLO COUNTY REFERRAL HOSPITAL
BILL OF QUANTITIES FOR ELECTRICAL WORKS

ITEM NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Supply, install test and commission the following				
	Lighting points wired in 3x1.5mm 2 sc PVC Copper cables drawn in 20mm diameter heavy gauge conduits concealed in building fabric including all accessories but without switches and fittings for, a) One way switching b) Two way switching	22 6	NO NO		
B	5A Lighting switches ivory types as MK or approved equivalent,				
	a) 1gang 2W b) 2gang 2W	22 4	NO NO		
C	Lighting fittings complete with appropriate rated lampls as follows				
	a) 100w spherical fitting as thorn or approved equivalent c/w energy saver bulb 14w	7	NO		
	b) 1200mm, 36w single battern fluorescent fitting as thorn or approved equivalent c/w with tube complete with tube	25	NO		
	c) 100w Bulkhead fitting metallic as Thorn or approved equivalent C/W energy saver Bulb 14w	12	NO		
D	Power points wired in 3x2.5mm2 sc PVC copper cables drawn in concealed 25mm diameter PVC Hg conduit as				
	a) Single outlet b) Twin outlet	22	NO		
E	13A switched socket outlet plattes ivory type as MK or approved equivalent				
	a) Single b) Twin	0 22	NO NO		

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
F	10ways SPN Consume unit complete with a 100A SPN Isolator as (Mem) original or approved equivalent. The following MCB's as Mem or approved equivalent to be installed in the consumer unit a) 6A SP MCB b) 20A S[MCB c) 32A SP MC	1	NO		
		4	NO		
		2	NO		
		4	NO		
	<u>SUB-MAINS CABLE</u>				
G	Sub mains cables comprising 3x10.0mm ² S.C PVC cables drawn in 25mm conduit PVC Hg concealed to wall inclusive all accessories.	20	M		
H	16 gauge looping in Box Complete with 60/80A cut out with neutral link(indosian) or approved equivalent	1	NO		
I	1500mm copper earth rod inclusive all accessories and driven next to the loop in Box above and include manhole complete with cover.	ITEM			
J	Allow for power supply point using 10.0mm ² S.W.A 3 core underground cable inclusive digging trench and backfilling as per engineers instructions	40	M		
K	Allow for builders work	ITEM			