BUILDING, CIVIL & STRUCTURALWORKS AT LANET 132/33/11 KV SUBSTATION

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	**Location and access to the Site** The Lanet 132/33/11kv Substation is located in Nakuru County at Lanet off Nairobi -Nakuru Road. The bidder is advised to visit Site, to familiarize himself with the nature and position of the Site. No claims arising from the Contractor's failure to do site visit will be entertained.				
2.00	**Pricing items of preliminaries** Prices SHALL BE INSERTED against items of "preliminaries" in the tenderer's priced Bills of Quantities. The Contractor is advised to read and understand all preliminary items. The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all cost involved in complying with all the requirements for the proper execution of the whole of the Works in the Contract				
3.00	**Prevention of Accidents, damage or loss.** The Contractor is notified that these works are to be carried out on KPLC premises, substation and all system operational within will continue with all other normal activities. The Contractor is thus instructed to take reasonable care in the execution of the works as to prevent noise, accidents, damage or loss and disruption of activities being carried out in within the premises. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.				
4.00	**Existing Services** Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services. The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services, and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the Client.	ITEM	1		
5.00	**CONTRACTOR'S SUPERINTENDENCE/SITE AGENT** The Contractor shall constantly keep on the works /site a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the Resident Engineer's of the works. Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.				
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	Insurance				
1.00	The Contractor shall insure as required in Conditions of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects. Thereafter the PROJECT MANAGER shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the PROJECT MANAGER's inspection.	ITEM	1		
2.00	Contractor shall allow a sum of Ksh. 1.000,000.00 for training project enginners on project management	ITEM	**1**		
	Site Security				
3.00	The Contractor shall be entirely responsible for the security of all the Works, stores, materials, plant, personnel, etc, both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection from the public.	ITEM	1		
	Sign Boards				
4.00	The Contractor shall allow for provision to erect publicity, project details, directional, safety, etc sign boards, maintaining and later clearing away on completion of work such sign board. The positioning, the size, type of construction and lettering shall be to client's approval.	ITEM	1		
5.00	Allow a Provisional Sum of Kes. 1,500,000.00 for project manager, project engineer, and project supervisors on communications and data for both electronic and print. (Allow markup as necessary)	ITEM	1		
	Visitor's Book, Site Diary & Instruction Book				
6.00	The Contractor shall keep on the Site a visitors' book for recording the names of all persons who visit the site for the purpose of the project. He shall also maintain on the Site a diary in which he shall record site activities on a daily basis and particularly any occurrence which bears on the progress of the Works in any way. The visitors' book and the diary shall be surrendered to the Client at the completion of the project or at any other time that he may be directed. Too an A-4 carbonated triprocate instruction shall be provided on site.	ITEM	1		
	Statutory County & Government approvals				
7.00	Allow for re- drafting,customizing and replication for drawings to suit approver needs/standards including proffesional fees by contractor nominated profesionals & NCA	ITEM	1		
	Site Office and Store				
8.00	The Contractor shall provide at his own risk and cost where directed on the site weatherproof lockup sheds for the safe storage and custody of material for the Works and for the use of workmen engaged thereon and shall remove such sheds and make good damaged or disrupted surfaces upon completion to the satisfaction of the Project Manager. The site office prefarably portable that can be shifted to multiple location within the KPLC site.	ITEM	1		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	WATER AND ELECTRICITY SUPPLY FOR THE WORKS				
1.00	The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub--contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use. OR Allow for adequate Capacity Generator on site for the supply of power for use for the works.	ITEM	1		
	Tests				
2.00	The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called by the Client for his approval or rejection and any other samples in the case of rejection until such samples are approved by the Client and the Client may reject any materials or workmanship not in his opinion up to to the approved samples.	ITEM	1		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	CONTROL ROOM BUILDING				
	DEMOLITION OF EXISTING PARTIALLY CONSTRUCTED BUILDING				
1.00	Demolish and completely remove the existing partially constructed building, comprising natural stone masonry substructure walling, reinforced concrete floor slab, natural stone masonry superstructure walling, reinforced concrete lintels and reinforced concrete beams, including breaking up, dismantling and removal of all associated building components, cutting reinforcement,t loading, carting away and disposal of all arising demolition debris to an approved dumping site, salvaging and setting aside reusable materials as directed by the Engineer, making good any damage to adjoining structures and clearing the site upon completion; including all necessary labour, plant, tools, equipment, safety precautions and incidentals, all to the satisfaction and approval of the Engineer.	ITEM	1		
2.00	Make good the site of demolition for commencement work for new control room building.	M^2	236		
	SUBSTRUCTURES - ALL PROVISIONS				
	Excavations				
	General excavations to include excavating in loam, clay. Black cotton soil, red soil or any soil which does not require ripping or use of compressor tools				
3.00	Excavate strip foundation trenches for wall foundations: commencing from reduced level and not exceeding 1.5 metres deep.	M^3	76		
4.00	Excavate pits for column bases	M^3	52		
5.00	Ditto but over 1.5m deep but not exceeding 3.0m deep	M^3	10		
6.00	Ditto but cable trenches but not exceeding 1.5mm deep.	M^3	21		
7.00	Extra over excavation for excavating in all classes of rock	M^3	53		
8.00	Level all bed of excavation to receive blinding (ms)	M^2	94		
	Backfilling around foundations				
9.00	Backfill around foundation : selected excavated material : placed in 200mm thick layers : well watered and compacted to 98% MDD	M^3	61		
	Disposal of Excavated Material				
10.00	Surplus excavated material : remove and damp to County damping site	M^3	67		
	Disposal of water				
11.00	Keep excavations free from all water by baling, pumping or otherwise	ITEM	1		
	Planking and strutting				
12.00	Planking and strutting to sides of all excavations : keep excavation free from all fallen materials	ITEM	1		
	Imported Hardcore				
13.00	Approved quarry stone hardcore : 450mm thick (overall) : hand packed and well compacted in 150mm thick layers	M^3	113		
	Murram Blinding				
14.00	50mm Murram blinding to surface of hardcore	M^2	189		
	Antitermite Treatment				
15.00	Chemical antitermite treatment to murram filling ; Dragnet 30% EC or equal and approved : provide 5 year guarantee	M^2	189		
	50mm thick Blinding insitu Concrete : Class 15/25mm				
14.00	Srip foundations.	M^2	51		
15.00	Ditto but column bases.	M^2	35		
16.00	Ditto all cable trenches	M^2	59		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	Insitu concrete : class 25/20 : vibrated : reinforced in;				
1.00	Strip foundations	M^3	13		
2.00	Column bases.	M^3	11		
3.00	Column stubs./footings	M^3	5		
4.00	Cable trenches bed	M^2	59		
5.00	Cable trenches walls	M^2	87		
6.00	150mm thick ground floor slab bed	M^2	189		
7.00	Ramp and stairs steps	M^3	8		
	Mesh fabric reinforcement to BS 4483 : 200mm laps				
8.00	Fabric mesh reference A142 weighing 2.22kg per square metre : in floor beds	M^2	189		
	High yield steel bar reinforcement to BS 44461 in Substaructure.				
9.00	D 8	KG	267		
10.00	D 10	KG	839		
11.00	D 12	KG	192		
12.00	D 16	KG	518		
	Fair face formwork : to				
13.00	verticle ides of cable trench walls	M^2	172		
14.00	Ditto but column footings	M^2	56		
15.00	Diito but side of ramp and stair steps at doors	M^2	3		
16.00	Vertical edge of ground floor bed	LM	64		
17.00	Extra-over for boxing size 400 x 400x600mm deep to form control panel grooves on 150mm thick concrete slab.	No	8		
	Natural stone minimum compressive strength 7N/mM2 : regular coursed walling of uniform colour : bedded and jointed in cement and sand (1:3) mortar : 20 gauge x 25mm hoop iron in every alternate course in;				
18.00	225mm thick substructure walling	M^2	173		
19.00	One layer 1000 gauge polythene sheet damp proof membrane : under beds : 300mm laps.	M^2	189		
20.00	Makes 120mm diameter holes on walling	No	12		
21.00	Ditto 220mm diameter holes on walling	No	25		
22.00	Supply and lay 110mm diameter heavy duty PVC ducts as cable sleeves	LM	18		
23.00	Ditto but 200mm diameter	LM	63		
24.00	100mm thick concrete (1:3:6) bed and surround to; 200mm and 110 diameter pipes and allowing for all necessary formwork.	M^3	22		
25.00	6mm Chequer plate trench cover to trench including welded 25 x 25 x 3mm RHS a frame underneath.	M^2	60		
26.00	50x50x 3mm angle line to cable trench edging emmbeded and welded into 12mm Dia. Bar; 150mm long at 1000mm centres with fish tail inserts cast into concrete	LM	121		
27.00	Prepare and apply undercoat of zinc chromate primer to all general metal surfaces.	M^2	25		
28.00	Ditto but two coats of gloss aluminium paint.	M^2	25		
29.00	Supply and fix 14 Gauge galvanized perforated steel cable trays; 300mm wide and 50mm deep by 1.2mm thick including mounting on the trench on well secured hangers/support structure (ms) and all jointed by welds and bended as approprite to client satisfactory.	LM	90		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	Ditto but cable 900mm wide ladder in 900x 900mm deep cable trench mouned 200mm high above cable trench bed.	LM	15		
2.00	Supply and fix steel fabricated cable tray support structure in 1000mm and 900mm wide cable trenches, size, 40x25x3mm thick; girth 1000mm, to receive/support cable tray (ms) fixed with rowl bolts or welded on 150mm long M.S. inserts in the vertical sides of concrete cable trench wall at 900mm centres and well primed with gloss primer paint and two coats of 1st grade aliminium gloss paint.	NO	120		
3.00	100x50x3mm U- channel welded on 50x50x3mm angle line edging (ms) on 900x900mm cable trench to support 11kV panel switchgear boards	LM	30		
	CONCRETE IN SUPERSTRUCTURE				
4.00	Columns	M^3	9		
5.00	Ground beam	M^3	7		
6.00	Beams	M^3	11		
7.00	Lintels	M^3	4		
8.00	Ditto but 150 mm thick suspended slab	M^2	228		
	Hieh yield deformed bar reinforcement in beams and suspended slab to BS 44461, including, cutting, bending,tying wire and spacer blocks;				
9.00	D 8	KG	1032		
10.00	D 10	KG	3522		
11.00	D 12	KG	740		
12.00	D 16	KG	1805		
	Fair face formwork : to				
13.00	Vertical sides of columns	M^2	31		
14.00	Vertical sides ground beams	M^2	79		
15.00	Vertival sides litels and ring beams	M^2	145		
16.00	Soffits of lintels and beams	M^2	14		
17.00	Ditto: soffits suspended slab	M^2	235		
18.00	Ditto: sides of suspended slab	LM	64		
	WALLING **Machine cut natural stone blocks or other equal and approved building blocks: minimum compressive strength 7N/mM2 : regular coursed walling of uniform colour : bedded and jointed in cement and sand (1:3) mortar : 20 gauge x 25mm hoop iron in every alternate course in;**				
19.00	200mm thick Walling	M^2	277		
	Damp proof courses ; bituminous felt : bedded in cement mortar (1:4) : 300mm laps				
20.00	Horizontal : 200mm wide	LM	94		
	WINDOWS **Aluminium** **Mediam duty anodized aluminium windows complete with all necessary framing, million, transome, mosquito, proofed hooded permanent vents, all necessary pegs, prime, quality handle, pointing with approved mastic sealant all round, 5mm thick glass**				
21.00	Window overall size 1200 x 1500 mm high; 2No. Sliding leaves	NO	10		
22.00	Ditto but size 1.0 x 1.5m high	NO	12		
23.00	Ditto but size 0.9 x 1.5m high	NO	1		
24.00	Ditto but size 0.6 x 0.9m high	NO	2		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	Burglar proofing				
1.00	12mm Diameter round mild bars welded to each other at 150mm centres both ways with every alternate bars welded to window frames (m.s)	M^2	23		
	Window Cills				
2.00	Provide, mix, place and finish in-situ reinforced concrete window cills, including necessary formwork, reinforcement where specified, casting to the required profile, slope and dimensions, smooth steel-trowelled finish, drip groove to underside, curing and all necessary materials, labour and workmanship, complete as specified and as directed by the Engineer.	LM	19		
3.00	Prepare and apply two coats of brick red paint	M^2	4		
	DOORS **Steel Doors** **Supply and fix the following purpose -made steel doors, including fixing lugs, once shop primed with one coat red oxide primer before delivery to site, complete with frames and including all ironmongery to Client approval and as per Door drawing: SK NO. 06449**				
	BAT AND INSECT PROOFING **Mild steel Bat and insect proofing screens panels in lourver opening, including 13 x13 x 3mm flat frame in panels; welded one face with and including coffee tray gauge wire mesh: one shop coat red oxide primer : to**				
4.00	Double leaf door overall size 2000 x 3000mm high	NO	2		
5.00	Ditto but Single leaf door overall size, 1200 x 2500mm high	NO	7		
	TOTAL CARRIED TO SUMMARY PAGE				
	Aluminium Door				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	Supply and fix medium-duty, purpose-made powder-coated aluminium framed double-leaf door 1.2x2.5mm high; comprising extruded aluminium sections of approved profile, size and thickness, complete with full-height glazing in approved clear/tinted toughened safety glass of specified thickness, including aluminium glazing beads, EPDM rubber gaskets, weather seals, aluminium door frame, hinges, heavy-duty pull handles, cylinder lock with keys, mortice lock, door stopper and all necessary ironmongery, fittings, accessories and fixing materials; including cutting, drilling, fabrication, assembling, glazing, installation, adjustment and making good, all in accordance with the Engineer.	No	5		
2.00	Supply and fix first grade emergency panic lock on the1200mm wide doors to client approval.	NO	3		
3.00	Prepare and apply gloss paint to general surfaces ; steel doors; both sides measured	M^2	54		
	FINISHES				
	Floor finishes				
	Cement and sand (1:4) trowelled screeds : on concrete : to				
4.00	25mm Floor screed to receive terazzo including plastic diving strips	M^2	189		
	Polished Terrazzo Floor Finishes on concrete				
5.00	30mm thick terrazzo floor finish	M^2	189		
6.00	Ditto 25mm thick Skirting 150mm high:	LM	115		
	Wall finishes				
	12mm lime plaster in two coats : steel trowelled finish : on concrete or blockwork : to				
7.00	Walls and columns	M^2	277		
	Prepare and apply three coats PVA matt vinyl emulsion paint : on				
8.00	Plastered walls, columns and beams.	M^2	277		
9.00	Ditto but soffit of suspended slab	M^2	235		
10.00	200 x 300 x8mm Thick glazed ceramic wall tiles : fixed with approved quality adhesive in accordance with the manufacturers instructions : on and including 12mm thick cement and sand screed backing : jointed, pointed and grouted in matching colour coloured cement grout and Plastic corner strips to edges of tiled surfaces	M^2			
11.00	Key pointing in cement sand (1:3) in horizontal joints.	M^2	277		
12.00	Plinth walls and edges of floor bed	M^2	29		
	Prepare and apply three coats first grade external quality paint : to				
13.00	Columns and beams	M^2	78		
	Prepare and apply three coats bituminous paint : to				
14.00	Plinth area and edges of floor bed	M^2	29		
	PAVING SLABS				
15.00	150mm thick Hardcore bed : deposited, spread, levelled and compacted : to receive sand bed(ms)	M^2	41		
16.00	50mm Sand bed : levelled and compacted to receive paving slabs	M^2	41		
17.00	50x 600 x 600mm precast concrete (class 20) paving slabs : laid on sand bed (ms) : jointed and pointed in cement mortar (1:4)	M^2	41		
	TOTAL CARRIED TO SUMMARY PAGE				
	KITCHEN				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	100mm thick 1:2:4 concrete in kitchen work top	SM	2		
2.00	Y 10 reinforcement bars at 150 centres	KG	17		
3.00	150mm block wall	M^2	2		
4.00	12mm thick mix 1:3 cement sand plaster	M^2	5		
5.00	Single drain single bowl stainless approved kitchen sink	NO	1		
6.00	Bricon or approved kitchen mixer tap	NO	1		
7.00	900x600mm wide 20mm thick MDF board bottom cabinets comprising of 2No. Cabinents, 4No. Drawers including fixing, mouver hinges, rails, handles and approved finishes.	ITEM	1		
8.00	Ditto in locable overhed cabinets but with 3No. open shelves	ITEM	1		
9.00	10mm thick granito tiles finishes on the kitchen work top fixed with approved quality adhesive in accordance with the manufacturers instructions : on and including 12mm thick cement and sand screed backing : jointed, pointed and grouted in matching colour coloured cement grout and alluminium corner strips to edges of tiled surfaces	M^2	2		
	DRAINAGE AND PLUMBING WORKS				
10.00	Approved Standard white countertop wash hand basin size: 585x430mm on with one center tap hole and a 2nd RHS tap hole for Basin top mounted under counter soap dispenser .Cobra single lever mixer tap with pop up waste: and plastic bottle trap 32mm dia with seal.	NO	2		
11.00	Approved standard WC white wall concealed cistern white seat & cover unit to have short siphon internal overflow and wide mouth WC P-trap waste outlet.	NO	2		
12.00	Stainless steel toilet roll holder with top flap cover.	NO	2		
13.00	Stainless Steel basket soap dish size 200x150mm.	NO	1		
14.00	Approved standard hand drier with infrared sensor and DP Switch with wiring	NO	1		
15.00	Aluminium coat/towel hook complete with screw to wall fixtures and rubber door stopper	NO	2		
16.00	Approved standard basin mounted push action stainless steel liquid soap dispenser with 0.5 litre under counter soap holder.	NO	2		
17.00	"Bevelled" Mirror to Client's approval fixed on wall with chrome plated dome headed screws. Mirror size 600 x 800mm high	NO	1		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	Supply, install, test and commission complete plumbing and water reticulation installations to the 11kV Control Room Building, serving the kitchen, toilets, washrooms and other designated plumbing facilities, comprising water supply pipework reticulated from the ground-mounted water storage tank and elevated water storage tank. The installation shall include 32mm diameter PPR pressure pipes for main water supply and distribution to and from the water storage tanks, and 25mm diameter PPR pressure pipes for secondary distribution from the main supply lines to individual points of use, including all necessary bends, tees, reducers, sockets, unions, adaptors, couplings, connectors and other pipe fittings. Include all necessary isolation valves, stop valves, gate valves, non-return valves, float-operated ball valves, drain valves, overflow pipes, tank inlet and outlet connections and associated plumbing accessories. Allow for complete water supply connections to kitchen sinks, wash-hand basins, WCs, showers and other sanitary appliances, including all necessary taps, mixers, flexible connectors and connection accessories. Include complete waste and soil discharge installations comprising waste pipes, soil pipes, traps, floor drains, gullies, inspection chambers and connections to the designated drainage system, including all fittings, jointing materials, supports and accessories. The works shall further include all interconnecting pipework between the ground-mounted and elevated water storage tanks, tank distribution arrangements and associated valves and controls to ensure proper water supply and distribution throughout the building. Allow for excavation of trenches where necessary, pipe bedding, backfilling, making good disturbed surfaces, pipe supports and brackets, pressure testing, flushing, disinfection of water supply pipework, leakage testing, commissioning and all labour, materials, equipment, transport, fixing accessories and sundries necessary to provide a complete, operational and leak-free plumbing installation, all in accordance with the approved plumbing and sanitary drawings, specifications and to the satisfaction of the Engineer.	ITEM	1		
	FIRE FIGHTING EQUIPMENT				
2.00	Supply, deliver, install, test and commission adequate and complete portable fire-fighting equipment; comprising approved carbon dioxide (CO_2) fire extinguishers of appropriate capacities for protection against electrical fires; ABC dry chemical powder fire extinguishers for general-purpose fire protection; wet chemical fire extinguishers suitable for Class F cooking oil and fat fires; and fire blankets. The works shall include all necessary fire extinguisher mounting brackets, wall hooks, floor stands where required, safety pins, tamper seals, pressure gauges, operating instructions, identification labels, fire extinguisher location signs, fire safety notices and all associated fixing accessories. All extinguishers shall be new, fully charged, certified and of approved manufacture, complying with applicable KEBS standards and relevant fire safety requirements. The item shall further include positioning and installation at accessible and strategically located positions as directed by the Engineer, inspection, testing, commissioning, demonstration of proper operation, provision of maintenance instructions, manufacturers' warranties and certification, together with all labour, transport, materials and sundries necessary to provide a complete and operational fire-fighting installation. All to the approval of the Engineer.				
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	5kg CO_2 portable fire extinguisher, complete with wall bracket	No.	5		
2.00	9kg ABC dry chemical powder portable fire extinguisher, complete with wall bracket	No.	2		
3.00	6-litre foam portable fire extinguisher, suitable for Class F kitchen fires, complete with wall bracket	No.	1		
4.00	Fire blanket, approximately 1.2m × 1.8m, complete with protective wall-mounted container	No.	1		
5.00	Fire extinguisher identification and location signage	ITEM	1		
6.00	Fire safety instruction and warning signage	ITEM	1		
	SMOKE DETECTORS				
7.00	Supply, install, connect, test and commission a complete automatic smoke detection system, comprising addressable or conventional photoelectric smoke detectors, as appropriate to the approved fire alarm design, complete with detector bases, mounting accessories, fire-resistant cabling, PVC conduits and associated fittings, junction boxes, cable connectors, termination accessories, identification labels and all necessary wiring connections. The installation shall include manual call points, sounders, visual alarm indicators, fire alarm control panel, standby batteries and power supply arrangements, where required by the approved system design, together with all necessary interconnections, programming, configuration, testing and commissioning. The system shall provide audible and visual warning upon detection of smoke and shall be suitably interfaced with other fire protection systems where specified. The item shall include all labour, materials, equipment, access provisions, fixing accessories, testing, commissioning, demonstration to the Employer and handover of operation manuals, system layout drawings, as-built drawings and test certificates, all in accordance with the approved fire alarm design, applicable fire safety standards and to the satisfaction of the Engineer.	ITEM	1		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	ELECTRICAL INSTALLATIONS WORKS				
1.00	Supply, install, connect, test and commission complete internal electrical installation to the 11kV Control Room Building, comprising all lighting installations including fluorescent, bulkhead, spherical and wall-mounted light fittings; lighting switches and controls; 13A single and twin switched socket outlets; telephone and television outlets; cooker control units; consumer control units and distribution boards complete with suitably rated incoming isolators, outgoing circuit breakers, neutral and earth bars; PVC conduits, trunking, junction boxes, draw-in boxes, adaptable boxes, switch and socket outlet back boxes; PVC insulated copper conductor cables of appropriate sizes for lighting, power and dedicated equipment circuits; sub-main feeder cables; flexible connections; earth continuity conductors; earthing and bonding connections; all associated wiring accessories, connectors, glands, cable lugs, terminals, supports, fixings, identification labels and sundry materials necessary for a complete and functional installation, all in accordance with the electrical layout drawing, specifications and approved electrical design. The item shall also include all necessary builders' work associated with the installation, making good disturbed surfaces, circuit identification, insulation resistance and continuity testing, polarity and earth fault loop impedance tests, functional testing, commissioning and handing over of the complete installation in proper working order, including submission of test certificates and as-built drawings. All to the approval of the Engineer.	ITEM	1		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	Supply and fix emergency chargeable lights in the control room to client approval.	NO	5		
	Fumes Extractor Fan				
2.00	Supply and fix 450x450mm extractor fan in the battery room including the wiring accessories.	NO	1		
	ROOFING & RAINWATER DISPOSAL				
	Structural Steel work				
	The following in framed structural steelwork : complete with and including all welded and bolted connections : delivery to site and erection with and including one shop coat of zinc plumbate primer				
3.00	7 No. structural steel roof trusses spanning 10500 mm girth : hoisting and fixing approximate 4.5 M above ground level :				
4.00	100 x 50 x 4 mm thick RHS rafters	LM	84		
5.00	50 x 50 x 3 mm SHS tie beam	LM	74		
6.00	50 x 50 x 3 mm SHS struts and ties	LM	60		
7.00	150 x 150 x 8 mm thick base plate welded to truss : drilled with 4No. holes for 12 mm diameter bolts	No	14		
8.00	Supply and fix 150x51x2mm 'Z' - purlins with welded cleats and bolted to rafters primed	LM	180		
9.00	Fabricate steel framework comprising of SHS 40x40x3mm thick to form vertical facsia cladding, comprising of vertical and horicontal members, bracings, struts runners all adequately and including fixing into position in to client satisfaction.	LM	358		
10.00	Supply and fix BP760 box profile factory pre-painted gauge 28 full length roofing sheets to an approved colour laid with 94mm side laps and fixed to steel 'Z' purlin (m/s) including self tapping screws/bolts as necessary.	M^2	286		
11.00	Ditto but vertical sides of fascia cladding framework and gable sides	M^2	83		
12.00	Ditto but eave covering	M^2	34		
13.00	Supply and fix 450x50mm pre-painted stel ridge cappping matching the roofing sheets in profile colour and gauge self drive screws with weatherproof washers, cutting and fixing complete.	LM	23		
	Rainwater Goods				
15.00	Provide fabricated and fix 14 gaugestainless steel purpose made gutters, 600mm girth, formed to the required profile and dimentions, including all necessary brackets, supports, stiffners,joints stop ends, outlets, connecting by welding, sealing with approved waterproof sealant, cutting, bending and fixing accessories nomplete with all necessary fixing connections to rainwater downpipes as specified and directed by the Engineer.	LM	47		
16.00	Extra over for stopped ends.	NO	4		
17.00	Ditto 110mm diameter holes in gutter	NO	4		
18.00	110mm diameter class 41 PVC down pipe	LM	16		
19.00	Extra-over down pipe for 900mm girth swan-neck including, tightly secured with sandle clips at 750mm cenetres.	NO	4		
20.00	Extra over downpipe for 300m shoe	NO	4		
	EXTERNAL WORKS				
	Gound Mounted Water Tank Plinth				
21.00	Excavate Pit for water tank not exceeding 1.50 metresdeep	M^3	8		
22.00	Remove surplus excavated material from site	M^3	7		
23.00	Return fill and well ram selected excavated materialsaround foundations	M^3	1		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	Concrete work:-				
	50mm thick plain blinding concrete mix (1:4:8) class 10-15mm aggregates in:-				
1.00	Foundations	M^2	10		
	Guaranteed strength vibrated reinforced concrete mix (1:11/2:3) class 25-20mm aggregate in:-				
	Base.	M^3	3		
2.00	Ditto but curved 250mm thick walling	M^2	2		
3.00	Ditto but curved 300mm thick top cover	M^3	2		
	Reinforcements				
	High yield deformed bars to B.S. 4461				
4.00	D 8	KG	31		
5.00	D 12	KG	635		
	Wrot Formwork to:-				
6.00	Curved base 225-300mm high	M^2	11		
7.00	Curved edges of walling	18	18		
	Fillings				
8.00	Approved hardcore of 100-200mm diameter fillings	M^3	4		
	FOUL DRAINAGE				
	Septic Tank : 1No.				
	Excavation and Earthworks				
9.00	Excavate pit for Septic Tank depth not exceeding				
10.00	1.50 metres deep commencing from reduced level	M^3	26		
11.00	Ditto between 1.50m-3.00m deep	M^3	25		
12.00	Extra-over ditto for excavating in rock	M^3	17		
13.00	Remove surplus excavated material from site	M^3	68		
	Concrete Work:-				
	Mass concrete mix (1:3:6) class 10-15mm aggregate in;				
14.00	50mm Thick blinding laid to slope not exceeding 15 degrees from horizontal	M^2	17		
	Guaranteed strength vibrated reinforced concrete mix (1:11/2:3) class 25/20mm aggregate in:-				
15.00	200mm Thick base	M^2	18		
16.00	100mm Thick baffles to walls	M^2	5		
17.00	150mm Suspended slabs	M^2	18		
18.00	150mm Benching to form channels	M^2	1		
19.00	200mm Thick walls	M^2	54		
	Reinforcement				
	High yield square reinforcement bars to B.S. 44461				
20.00	Assorted bars	KG.	335		
	BRC Ref. type A193 including 200mm laps in:-				
21.00	Floor bed	M^2	18		
22.00	Walls and baffles	M^2	6		
	Wrot formwork to:-				
23.00	Horizontal soffits of suspended slabs	M^2	18		
24.00	Vertical sides of baffles walls	M^2	10		
25.00	Edges of suspended slab 75-150 mm high	LM	18		
26.00	Vertical edges of beds over 75-150mm high.	LM	20		
27.00	Extra-over boxing size 600 x 450mm to form opening through 150mm thick reinforced concrete slab	NO.	2		
28.00	Ditto size 600 x 800mm ditto	NO.	2		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	12mm Water proofed cement and sand (1:3) render: steel trowelled smooth to:-				
1.00	Base	M^2	18		
2.00	Suspended slab	M^2	18		
3.00	Walls	M^2	54		
	Manhole Covers				
4.00	Cast iron medium duty manhole cover and frame size 600 x 450mm to B.S 497: frame set into cement and sand ((1:4) mortar: cover set in grease	NO.	2		
5.00	Ditto size 600 x 800mm ditto	NO.	2		
	Step Irons				
6.00	200mm Wide galvanised step iron: twice bent andmorticed into concrete walls	NO.	8		
	Class 41 PVC soil water vent pipes built into concrete				
7.00	100mm Diameter pipes 200mm long.	NO.	1		
8.00	Extra for bend with mosquito gauze soldered on	NO.	2		
9.00	Extra for equal tee	NO.	1		
10.00	Extra for nipple	NO.	2		
11.00	Extra for flange	NO.	1		
22.00	150mm Diameter stand pipe 800mm long	NO.	2		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	STEEL GALVANIZED STRUCTURES **Supply Fabricated Steel Structures for 66kV equipment including Bus Bars, Voltage and Current transformers, Surge Diveters, Post Insulators and Isolators, Lighting mast etc.** **The steel structures shall be manufactured from hot-rolled structural steel sections of tensile strength of 430-460N/mm^2, yield strength of 255N/mm^2, density of 7860kg/mm^2 galvanizing thickness of >110 microns as per drawings attached including all welding and nuts and bolts connections, stiffiner plates/cleats, washers, etc, including transporting to site and delivery to site in a well coded manner, fully assembled to ascertain completeness and handed over to client ready for erection.** **Notes: 1) All Holes To Be 18mm diameter where applicable for M16 Bolts unless otherwise stated. 2) All Steelwork to Be Free From Rust, Rust, Dust Burrs E.T.C Then Galvanised By Hot Dip. Process, Thickness and Quality of Zinc Coating to Withstand Test of 729. 3) Assembly Bolts, Nuts and washers to Conform TO BSS 916 and the Quantity Supplied to Include 10% Spare Allowance. 4). Fabricators Are To Designate All Steelwork Items and Provide Erection Mark Plans.5) All Individual Steel Parts to Be Marked - KPLC**				
1.00	Cable Transition Support Structure; size 150x150x6mm thick SHS and 4.0m long - Two-legged- Approx. 430 Kgs each.	No.	2		
2.00	NCTs Structure; size 150x150x6mm thick SHS and 2.40m long - Approx. 165 Kgs each.	No.	2		
3.00	VTs Structure; size 150x150x6mm thick SHS and 2.4m long - two-legged - Approx. 165 Kgs.	No.	2		
4.00	Supply and fix all galvanized steel bolts M28x600mm long including poring anchoring holding in position and allowing for all bolts nuts washers and bottom cleats.	No.	40		
5.00	Allow factory visit Provisional sum of Kes. 500,000.00 for inspection and tests before, during and after, in workshop/factory fabrication and galvanization. All requird tests shall be carried out by client Inspection Team/Engineers to Accept/Reject every process, Quality, Workmanship etc before delivery to site as specified in Technical Specifications for steel structures, including all facilitation/transport and communication for 6no. (IAC members ,PE,PM)	ITEM	1		
	33KV EQUIPMENT FOUNDATIONS -(ALL PROVISIONAL)				
6.00	Excavate foundation pits commencing from reduced level and not exceeding 1.5m deep	CM	19		
7.00	Ditto but over 1.5m but not exceeding 3.0m	CM	4		
8.00	Extra -Over for excavating in all classes of rock	CM	7		
9.00	Allow for all necessary plunking and strutting	ITEM	1		
10.00	Allow for disposal of general water by pumping, bailing or otherwise	ITEM	1		
11.00	Return, ram and fill selected excavated, and approved borrow materials around the foundations	CM	14		
12.00	Load and Cart-Away surplus excavated materials from site to County Government Approved damping site	CM	9		
13.00	Level and Compact bases of pits to receive blinding. ***Blinding(Plain Concrete Class 15)***	SM	13		
14.00	50mm thick (1:3:6) Concrete blinding to pit bottoms	SM	13		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	Vibrated Reinforced Concrete Class 25/20 mm Aggregates In:				
1.00	Bases	CM	3		
2.00	Stub columns	CM	7		
3.00	15mm thick average to plinth top surface finish smooth trowelled including 50mm chamfer all round on all plinths.	SM	4		
	High yieled steel reinforcement bars including cutting,bending, tying and fixing in place, spacer blocks and tying wires to BS 4449.				
4.00	D8-16mm	KG	465		
	Fair - Face FormWork to:				
5.00	To vertical sides of stub-Columns	SM	38		
	Cable Trenches (900x900mm deep) from Switching Yard to Controm Room Building				
6.00	Excavate for cable trench 1200mm wide and commencing from reduced level not exceeding 1.5m metres deep.	CM	117		
	TOTAL CARRIED TO SUMMARY PAGE				
1.00	Load and cart- away excess excavated materials from site to County Government Approved damping site	CM	117		
2.00	Allow for all necessary plunking and stritting	ITEM	1		
3.00	Allow for disposal of general water by pumping. Bailing or otherwise.	ITEM	1		
4.00	50mm thick Plain concrete blinding (1:3:6)mix (Class 15/20 mm Aggregate)	SM	156		
	Vibrated reinforced concrete class 20/25 1:2:4 as described in;				
5.00	100mm thick trench bed	SM	156		
6.00	150mm thick trench walls with fairly smooth face finish.	SM	234		
7.00	Provide and put in place (1200x400x100mm) thick precast concrete cable trench covers reinfoced with D8 bars spaced at 100mm both ways with fair face finish on both sides. **[Note: The concrete used for precast covers shall be Class 30]**	No.	867		
8.00	Supply and fix 14 Gauge galvanized perforated steel cable trays; 600x50x2mm including mounting on the trench on well secured hangers/support (ms) and all jointed by welds and bended as approprite to client satisfactory.	LM	140		
9.00	Supply and fix steel fabricated cable tray support structure of 40x25x3mm thick; girth 1300mm, to receive/support cable tray (ms) fixed with rowl bolts or welded on 150mm long M.S. inserts in the vertical sides of concrete cable trench wall at 1000mm centres and well	NO	145		
	High yieled steel reinforcement bars including cutting, tying, bending and fixing in place, spacer blocks and tying wires to BS				
10.00	D 8 in cable trench @ 150mm C/C Both ways	KG	1096		
	Fair Face - Form work to:				
11.00	Vertical sides of trench walls.(Internally and Externally)	SM	468		
12.00	Allow for 30mm thick average cement/sand screed to cable trench bed sloping to drain run-off water including making out- let holes and supply and fix 110mm diameter PVC out-let pipes to the open drains.	SM	117		
	Cable Trenches (1200x900mm deep) Feeder-outs Cable Trench				
13.00	Excavate for cable trench 1200mm wide and commencing from reduced level not exceeding 1.5m metres deep.	CM	56		
14.00	Load and cart- away excess excavated materials from site to County Government Approved damping site	CM	56		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	Allow for all necessary plunking and stritting	ITEM	1		
2.00	Allow for disposal of general water by pumping. Bailing or otherwise.	ITEM	1		
3.00	50mm thick Plain concrete blinding (1:3:6)mix (Class 15/20 mm Aggregate)	SM	75		
	Vibrated reinforced concrete class 20/25 1:2:4 as described in;				
4.00	100mm thick trench bed	SM	75		
5.00	150mm thick trench walls with fairly smooth face finish.	SM	90		
6.00	Provide and put in place (1500x400x100mm) thick precast concrete cable trench covers reinfoced with D8 bars spaced at 100mm both ways with fair face finish on both sides. **[Note: The concrete used for precast covers shall be Class 30]**	No.	131		
7.00	Supply and fix 14 Gauge galvanized perforated steel cable ladder; 1200x50x3mm including mounting 200mm high on the trench bed on well secured support and all jointed by welds and bolted as approprite to client satisfactory.	LM	50		
	High yieled steel reinforcement bars including cutting, tying, bending and fixing in place, spacer blocks and tying wires to BS D 8 in cable trench @ 150mm C/C Both ways	KG	449		
	Fair Face - Form work to:				
8.00	Vertical sides of trench walls.(Internally and Externally)	SM	180		
9.00	Allow for 30mm thick average cement/sand screed to cable trench bed sloping to drain run-off water including making out- let holes and supply and fix 110mm diameter PVC out-let pipes to the open drains.	SM	60		
	TRANSFORMER PLINTH -ALL PROVISIONAL				
10.00	Demolish the exsisting transformer plinths as directed in site approximately $10m^2$ to create space for construction of the new one, cart away the debris and make good the disturbed area.	ITEM	1		
11.00	Excavate transformer pit commencing from reduced level but not exceeding 1.5 metres deep	M^3	53		
12.00	Ditto but over 1.5m but not exceeding 3.0m	M^3	11		
13.00	Extra -Over for excavating in all classes of rock	M^3	21		
14.00	Cart away from site surplus excavated materials to designate County dumping site.	M^3	64		
15.00	Plain concrete 50mmm thick blinding 1:4:8 to base	M^2	35		
	<u>Vibrated Reinforced Concrete Class 25/20 mm Aggregate in:-</u>				
16.00	Base	M^3	11		
	PedestalWalling	M^3	6		
17.00	Cover slab	M^3	5		
18.00	Sump walling	M^3	7		
	High Yield deformed Reinforcement Bars, to BS 4449 including cutting, bending, tying, fixing, and spacer blocks.				
19.00	D 8	KG	266		
20.00	D 10	KG	262		
21.00	D 12	KG	1381		
22.00	D 16	KG	644		
	<u>Hardcore filling</u>				
23.00	Approved hardcore filling compacted to Engineer's approval	M^3	20		
24.00	50mm thick blinding to surface of hardcore with lean concrete	M^2	35		
25.00	1000 gauge polythene sheet	M^2	35		
26.00	15mm thick average to plinth top surface finish smooth trowelled including 50mm chamfer all round on all plinths.	M^2	35		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	Formwork				
1.00	Vertical sides of pedestall walling	M^2	49		
2.00	Vertical sides of sump walling	M^2	67		
3.00	Vertical sides of top cover walling - 225- 300mm high	LM	16		
	Supply and fix fabicated GALVANIZED gratting, of 50x50x3mm SHS framing filled with spaced 50x4mm thick flat bar welded vertically at 50mm centres, and with spacers size; 50x4mm thick, in				
4.00	Galvanized mild steel grating oil sump covers, comprising of 50x50x4mm angle iron frame and welded 50x5mm thick lat bar grating (bars set vertically in both directions), hot-dip galvanized (>95 microns), including all placing and fitting well on the 50x50x4mm thick angle line	NO	20		
5.00	Ditto but Galvanized 50x50x4mm angle line embedded in concrete sump walling and transormer plinth with 150mm long fish-tailed 12mm diameter inserts to recive grating (ms)	LM	40		
	ALL PROVISIONAL				
	TX GROUND ANCHOR				
6.00	Supply fabricated galvanized 150 x 75x6mm U-Channel welded to form triangular shaped (2.50x1.0x1.8metres); the tip exposed above the concrete 450mm, including 50mm diameter hole drilled.	NO	1		
7.00	Excavate foundation pits commencing from ground level and not exceeding 1.5m deep	M^3	2		
8.00	Ditto but over 1.5m but not exceeding 3.0m	M^3	1		
9.00	Extra -Over for excavating in all classes of rock	M^3	11		
10.00	Load and Cart-Away surplus excavated materials from site to County Government Approved damping site	M^3	3		
	Blinding(Plain Concrete Class 15)				
11.00	50mm thick (1:3:6) Concrete blinding to pit bottoms	M^2	1		
	Vibrated Reinforced Concrete Class 25/20 mm Aggregates In:				
12.00	Base	M^3	1		
13.00	Stub column	M^3	2		
14.00	15mm thick average to plinth top surface finish smooth trowelled including 50mm chamfer all round on all plinths.	M^2	1		
	High yieled steel reinforcement bars including cutting,bending, tying and fixing in place, spacer blocks and tying wires to BS 4449.				
15.00	D10-12mm	KG	73		
	Fair - Face Formwork to:				
16.00	To vertical sides of stub-Columns	M^2	8		
	ACCESS ROAD, DRIVEWAY & PARKING				
17.00	Excavate access road 350mm deep commencing from stripped level and cart away to designated damping area by the County Government.	CM	88		
	Filling				
18.00	Handpacked hardcore, filling leveled, well rammed and consolidated in 150mm thick layers	CM	125		
19.00	50mm thick quarry dust blinding on compacted hardcore (ms)	SM	250		
21.00	900x250 x 125mm High pre-cast concrete kerb bedded and jointed in cement and sand (1:4) mortar including 325x100mm thick mass concrete class 20/20 in foundation and haunching at the back, all necessary formwork and excavations.	LM	100		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
1.00	Extra-over ditto for curved on plan to various radii	LM	20		
2.00	900x250 x 125mm High pre-cast concrete channels	LM	20		
3.00	Extra-over ditto for curved on plan to various radii	LM	20		
4.00	Heavy duty industrial concrete paving blocks size (210x105x80mm) minimum strength 49N/mm square laid in herringbone pattern laid to slope on quarry dust (measured separately) and compacted	SM	250		
	Drainage				
5.00	Excavate, cut and shape in a V formation an earth drain into any material and cart away to County Government designated damping site.	CM	72		
6.00	Supply and lay 300mm diameter 600x450x 225mm Precast concrete invert drain blocks, including with two (2) courses side slabs on both sides laid on a 100mm thick murram well compacted. All jointed in 1:3 cement/sand mortar.	LM	50		
7.00	Ditto but double lines, side slabs size; 600x270x75mm thick	LM	100		
8.00	Construct 8.0m long open drain channel size; 450mm wide and 450mm deep, 150mm thick reinforced concrete walling and base; including 63x63x4mm thick MS angle line embedded in concrete with fish-tailed 12mm diameter x 125mm long MS inserts, in drain walling to recive steel gratting (ms);	ITEM	1		
9.00	D10 at 150mm centres both ways	KG	105		
10.00	Provide fabicated 8.0m long heavy duty grating; 450mm wide with 20mm ribbed bars welded in MS angle 63x63x4mm thick frame at 50mm centres . Prpare and apply gloss primer and two coats of 1st grade aluminium gloos paint.	ITEM	1		
	Chain-link Fence				
11.00	2.4m high x10A Gauge chain-link complete with 4mm diameter 5 strands of galvanized plain wire passing through hole in the 3.0m high 125x125mm cranked reinforced concrete posts (60 No) placed at 3.0m centers, 3No. strands of 12Gauge barbed wire on 450mm cranks, including, excavation and erection works, mortised in 1:3:6 mix mass concrete surround 600mm deep, including 16N0.125x125mm concrete strut posts at approprite locations.	LM	150		
12.00	Fair face plain concrete strip (1:3:6)mix, size; 250x250mm high to anchor and hold chain-link in the ground, incliding excavation and carting away the excavated materials.	CM	9		
	GATE-				
13.00	Excavate pits for gate coulumns commencing from ground levels and cart away the spoil.	M^3	4		
14.00	Ditto but over 1.5m deep but not exceeding 3.0m deep	M^3	1		
15.00	Plain concrete (1:4:8-20mm aggregates) in 50mm thick blinding for gate column bases.	M^2	3		
16.00	Vibrated reinforced concrete class 20/20 (1:2:4/25) for gate column bases	M^3	1		
5.00	Ditto but 400x400mm gate columns with fair face finish.	M^3	1		
17.00	Fair face formwork to sides of gate columns	M^2	5		
18.00	High yield mild steel reinforcement 8mm,12mm and 16mm bar including cutting, bending, spacers, tying wire and fixing to BS 4449 in, column bases and columns	KG	76		
19.00	Fabricate and fix a primary substation gate as per the provided drawing No.	NO	1		
20.00	Prepare and apply 1st grade gloss paint on metal surface of the gate.	M^2	28		
21.00	Ditto but silicone paint to concrete column surfaces.	M^2	8		
	TOTAL CARRIED TO SUMMARY PAGE				

	Description	Unit	Qty	Rate (KSh. PPCBL Incl.)	Amount (Kshs)
	SUMMARY PAGE				
	BROUGHT FORWARD FROM PAGE 1				
	BROUGHT FORWARD FROM PAGE 2				
	BROUGHT FORWARD FROM PAGE 3				
	BROUGHT FORWARD FROM PAGE 4				
	BROUGHT FORWARD FROM PAGE 5				
	BROUGHT FORWARD FROM PAGE 6				
	BROUGHT FORWARD FROM PAGE 7				
	BROUGHT FORWARD FROM PAGE 8				
	BROUGHT FORWARD FROM PAGE 9				
	BROUGHT FORWARD FROM PAGE 10				
	BROUGHT FORWARD FROM PAGE 11				
	BROUGHT FORWARD FROM PAGE 12				
	BROUGHT FORWARD FROM PAGE 13				
	BROUGHT FORWARD FROM PAGE 14				
	BROUGHT FORWARD FROM PAGE 15				
	BROUGHT FORWARD FROM PAGE 16				
	BROUGHT FORWARD FROM PAGE 17				
	BROUGHT FORWARD FROM PAGE 18				
	BROUGHT FORWARD FROM PAGE 19				
	BROUGHT FORWARD FROM PAGE 20				
	SUB-TOTAL (PPCBL Incl.)				
	ADD 16% VAT				
	TOTAL CARRIED TO FORM OF TENDER				
	Company Stamp				
	Signed:				
	Name:				
	Address:				
	Conctract Period: **52** Weeks. AGREE…..... NOT AGREE….....				