

**BILLS OF QUANTITIES FOR PROPOSED RENOVATIONS  
AND IMPROVEMENTS TO NAKURU POLYTECHNIC PHASE II**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>1. GARMENT/HAIR DRESSING BLOCK</u></b>				
A	Carefully dismantle and remove existing weldmesh cladding and set asisde	43	NO		
B	Ditto remporary partiion wall ditto	16	SM		
C	Steel framed	22	SM		
	<b><u>Doors</u></b>				
D	Demount existing doors and remove door frame and set aside	4	SM		
E	Purpose made steel casement door size 900x2100mm high comprising 40x20x2.00 thick RHS main frame 20x20x2.00mm thick mullions and transomes 2mm thick steel plate bottom plate and top glazed half complete with all necessary hinges, lugs and locking devices all finished with approved quality primer	4	NO		
	<b>Total Carried to collection</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Prepare and apply one undercoat and two finishing coats of gloss paint on metal door surface	16	SM		
B	4mm thick clear sheet glass and glazing to metal casement window with linseed oil putty in medium panes	6	SM		
C	Prepare and apply one under coat and two finishing coats of gloss paint on existing metal window surface	72	SM		
D	Prepare and apply one under coat and two finishing coats of silk vinyl painting on window sills	11	SM		
	<b><u>Re-Roofing</u></b>				
E	Carefully remove defective asbestos roofing sheets and dispose as directed	262	SM		
F	100x50 mm sawn softwood in extension to a rafters	48	LM		
	<b>CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	75X50mm sawn softwood purlins	187	LM		
B	28 gauge prepainted box profile iron sheets	281	SM		
C	Prepainted iron ridge cap	31	LM		
D	200x25mm wrot softwood fascia and barge	31	LM		
E	150x100 mmx26gauge galvanised iron box gutter	31	LM		
F	Extra over ditto for stopped end with outlet	2	NO		
G	75mm diameter x26 gauge downpipe	6	LM		
H	Extra over ditto for offset bends	4	NO		
	<b><u>Finishes Generally</u></b>				
	<b><u>Floors</u></b>				
J	Hack defective floor screed and cart away debris	164	SM		
K	32 mm thick cement sand backing to receive new finish	164	SM		
L	10mm thick ceramic floor tiles	164	SM		
M	100x10mm thick ceramic tile skirting	164	SM		
	<b><u>Walls</u></b>				
N	Scrap off loose paint repair minor cracks and seal with approved filler, scrub and sand wall surfaces	240	SM		
	<b>CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	prepare and apply one undercoat and two finishing coats of silk vinyl paint on wall surface internally	240	SM		
B	Wire brush and clean stone surfaces externally	111	SM		
<b><u>Ceiling</u></b>					
C	75x50mm sawn softwood brandering	610	LM		
D	9mm thick chipboard ceiling	164	SM		
E	75x25 mm wrot softwood covetto cornice	104	LM		
F	Prepare and apply one under coat and two finishing coats of plastic emulsion paint on ceiling surface	164	SM		
<b><u>Extension to veranda</u></b>					
G	Excavate oversite to remove to vegetable soil 200 mm average deep load cartaway spread and level as directed spread and level as directed.	88	SM		
H	Excavate to reduce level not exceeding 1.50 m deep	30	CM		
<b>CARRIED TO COLLECTION</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Excavate for surface trenches not exceeding 1.50 m deep	16	CM		
B	Return fill in and ram	8	CM		
C	Load cart away surplus excavated material and dispose as directed	40	CM		
D	50mm thick concrete 1:4:8 in blinding to strip footings	22	SM		
E	Concrete 1:2:4 in strip footing	4	CM		
F	200mm thick natural stones in foundation walling	18	SM		
G	250mm thick hardcore filling	72	SM		
H	50mm thick murrum blinding	72	SM		
J	100 gauge polythene shaeet damp proof membrane	78	SM		
K	BRC No A142 fabric mesh reinforced	78	SM		
L	150mm thick concret 1:2:4 floor slab with gentle slope	78	SM		
M	sawn softwood formwork to edge of slab 75-150mm girth	40	LM		
N	25mm thick cement sand rendering to plinths				
P	Prepare and apply two coats of bituminous paint on rendered surfaces	12	SM		
<b>CARRIED TO TO COLLECTION</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>ROOF</u></b>				
	<b><u>The following in standard section steel complete with all necessary cutting ,welding and grinding all finished with one coat of approved quality primer</u></b>				
A	60x60x3.00 mm thick RHS stanchions 3500 mm long with base branket welded and set in and including 300x300 x600 mm deep concrete 1:3:6 bases complete with all necessary excavations	14	NO		
B	40x40x2.00mm thick RHS rafter carved to profile as eachs	42	LM		
C	40x40x2.00 mm thick RHS tie beams and king post	42	LM		
D	30x30x2.00 mm thick RHS struts	50	LM		
E	30x30x2.00 mm thick RHS purlins	128	LM		
F	Drill 10mm diameter holes through 40x40x2.00 mm thick steel RHS	28	NO		
G	Ditto through 200mm ththick wall or concrete beam	28	NO		
H	10mm diameter x300mm long steel bolt fixed through wall ans steel strut including making good	28	NO		
	<b>CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	28 gauge prepainted box profile iron sheets curved to profile at eaves and fixed to steel purlins with 'J' bolts and matching rubber washers	96	SM		
	<b><u>FLOOR FINISH</u></b>				
B	32 mm thick cement sand backing to receive tiles (m.s)	78	SM		
C	10mm thick non-slip ceramic floor tiles	78	SM		
D	100x10mm thick ceramic tile skirting	26	LM		
	<b><u>EXTERNAL WORKS</u></b>				
E	300mm precast concrete IBD complete with all necessary excavations	35	LM		
F	50mm thick precast concrete paving slab jointed and pointed in cement sand mortar on and including 150 mm thick compacted murrum base complete with all necessary excavations	60	SM		
G	Allow a provisional sum of Kenya Shillings Fifty Thousand for Electrical works		SUM		50,000.00
	CARRIED TO COLLECTION				
	<b><u>COLLECTION</u></b>				
	B/F from page NPR/1				
	B/F from page NPR/2				
	B/F from page NPR/3				
	B/F from page NPR/4				
	B/F from page NPR/5				
	B/F from page NPR/6				
	B/F from page NPR/7above				
<b>TOTAL FOR RENOVATIONS TO GARMENT/HAIRDRESSING BLOCK CARRIED TO SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>2. Construction of New Toilet Block</b>				
	<b>A. Substructures</b>				
A	Clear site of turf, grasses etc and cart away	24	SM		
B	Excavate oversite to remove top vegetable soil 200mm average deep lead cart away spread and level as directed	24	SM		
C	Excavate for strip footing not exceeding 1.50m deep	12	CM		
D	Return fill in and ram	6	CM		
E	Load cart away surplus material and dispose as directed	6	CM		
F	50mm thick concrete 1:4:8 in blinding to strip footings	10	SM		
G	Concrete 1:2:4 in strip footings and strip footing.	2	CM		
H	10mm square twisted steel reinforced bars	42	KG		
J	8mm ditto	27	KG		
K	200mm thick natural stone wall bedded and jointed in cement sand mortar and reinforced with 20mmx16 gauge galvanised hoop iron cut away alternate course	15	SM		
L	50mm thick murrum blinding	15	SM		
M	Approved chemical anti-termite treatment to floor surfaces	18	SM		
N	1000 gage polythene damp proof membrane	18	SM		
P	BRC No. 98 fabric mesh reinforcement	18	SM		
Q	150mm thick concrete 1:2:4 floor slab	18	SM		
	<b>CARRIED TO COLLECTION</b>				



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Sawn softwood formwork to edges of slab 75-150mm girth	18	LM		
B	25m thick waterproof cement sand rendering to plinths	5	SM		
C	Prepare and apply two coats of bituminous paint on rendered plinths	5	SM		
D	50mm thick precast concrete paving slabs <b>jointed</b> and pointed in cement sand mortar on and including 100mm thick compacted rolled and watered murrum base complete with all necessary excavations	12	SM		
E	Allow for keeping all excavations free from genral water		ITEM		
<b>Carried to collection</b>					
<b><u>COLLECTION</u></b>					
Brought forward from Page NPR/2/08					
Brought forward from Page NPR/2/09 Above					
<b>TOTAL FOR SUBSTRUCTURES CARRIED TO SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>B. WALLING AND RING BEAM</u></b>				
A	200mm wide hessian based bituminous felt horizontal damp proof course	17	LM		
B	150mm ditto	5	LM		
C	200mm thick natural stone wall bedded and jointed in cement sand mortar and reinforced as described	34	SM		
D	150mm thick ditto	10	SM		
E	Raking cutting to 200mm thick wall	8	LM		
F	Extra over walling for fine chisel dressing	34	SM		
G	Ditto for key-pointing externally	34	SM		
H	Concrete 1:2:4 in ring beam	1	CM		
H	Sawn softwood formwork to sides and soffits of beams	11	SM		
J	12mm square twisted steel reinforcement bars	61	KG		
K	8mm ditto	31	KG		
	<b>TOTAL FOR WALLING AND RING BEAM CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>C. Roof</b>				
	<b><u>Construction - The following in selected wall seasoned sawn softwood timber treated with approved Quality wood preservative</u></b>				
A	100x50mm wall plate fixed with 12mm diameter x 300mm long x 12mm diameter bolts at 1500mm centres	12	LM		
B	100x50mm tie beam	15	LM		
C	100x50mm rafters	21	LM		
D	100x50mm struts	32	LM		
E	75x50mm purlins	41	LM		
F	28 gauge prepainted iron box profile roofing sheets with matching roof washers	29	SM		
G	Prepainted rige cap	7	LM		
H	200x25mm wrot softwood fascia and barge board	22	LM		
J	150x100mmx26 gauge galvanised iron box gutter fixed with approved iron brackets	14	LM		
K	Prepare and apply one undercoat and two finishing coats of gloss paint on general wood surfaces 200-300mm girth	22	LM		
M	Ditto on metal surfaces 200-300mm girth	5	SM		
	<b>CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	Extra over gutter for stopped ends	2	NO		
B	Ditto with outlets	2	NO		
C	75mm diameter x 26 gauge galvanised iron downpipe fixed with approved holderbolts	6	LM		
D	Extra over gutter for offsets bends	4	NO		
E	Prepare and apply one undercoat and two finishing coats of gloss paint on metal surfaces 200-300mm girth	6	LM		
<b>Carried to collection</b>					
<b><u>COLLECTION</u></b>					
Brought forward from page NPR/2/11					
Brought forward from page NPR/2/12					
<b>TOTAL FOR ROOF CARRIED TO SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>D. Doors and windows</b>				
A	Purpose made steel casement single leaf door size 900x2100mm high comprising 25x25x3.00mm thick RHS framewrok with 300mm thick steel plate panels including all necessary cutting, welding and grinding complete with hinges, lugs and locking devices all finished with one coat of approved qaulity primer	1	NO		
B	Prepare and apply one undercoat and two finishing coats of gloss paint on metal surfaces	4	SM		
C	100x50mm wrot rebated door frame plugged	15	LM		
D	45x20mm softwood Architrave	15	LM		
E	15mm ditto quadrant	15	LM		
F	45mm thick semi-solid core finish door size 820x2050mm high faced on both sides with 3mm thick interior quality plywood and lipped on all exposed edges with 12mm thick harwoodd edging	3	NO		
G	100mm heavy duty pressed steel butt hinges	4 1/2	Pairs		
H	2 - lever mortice lock as Union or equal and approved	3	NO		
	100mm long aluminium barel bolts fixed with matching screws	3	NO		
	Prepare and apply one undercoat and two finishing coats of gloss paint on general wood surfaces	11	SM		
	Ditto on general wood surfaces 200-300mm girth	15	LM		
	Ditto 100-200mm girth	15	LM		
	Ditto 0-100mm girth	15	LM		
	<b>CARRIED TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><b>Windows</b></p> <p>A Purpose made steel casement window size 600x750mm high comprising standard window sections complete as deescribed</p> <p>B Ditto size 1200x750mmm high</p> <p>C 4mm thick abscre sheet glass and glazing to metal casement window with linseed oil putty</p> <p>D Prepare and apply one undercoat and two finishing coats of gloss paint on metal surfaces</p> <p>E 250x50mm average thick weathered and throated precast concrete windwo sill bedded, jointed and pointed in cement sand mortar</p> <p style="text-align: right;"><b>Carried to collection</b></p> <p><b><u>COLLECTION</u></b> Brought forward from page NPR/2/13</p> <p>Brought forward from page NPR/2/14 above</p>	<p>3</p> <p>2</p> <p>3</p> <p>6</p> <p>6</p>	<p>NO</p> <p>NO</p> <p>SM</p> <p>SM</p> <p>LM</p>		
	<p><b>TOTAL FOR DOORS AND WINDOWS CARRIED TO SUMMARY</b></p>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>FINISHES</u></b>				
	<b><u>FLOORS</u></b>				
A	32mm thick cement sand backing to receive tiles(m.s)	14	SM		
B	10mm thick non-slip ceramic floor tiles	14	SM		
C	100x10mm thick ceramic tile skirting	16	LM		
	<b><u>walls</u></b>				
D	25mm thick cement lime sand plaster trowelled smooth	26	SM		
E	Prepare and apply one undercoat and two finishing coats of silk vinyl paint on walls.	26	SM		
F	10mm thick cement sand backing	32	SM		
G	6mm thick white glazed ceramic wall tiles	32	SM		
	<b><u>Ceiling</u></b>				
H	9mm thick clipboard ceiling	16	SM		
J	Prepare and apply one undercoat and two finishing coats of plastic emulsion paint on ceiling surfaces	16	SM		
K	75x25mm wrot softwood cornice	17	LM		
L	75x50mm sawn softwood brandering	64	LM		
	<b>TOTAL FOR FINISHES CARRIED TO SUMMARY</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<p><b><u>F.PLUMBING AND DRAINAGE</u></b>  <b><u>plumbing works</u></b>  <b><u>Sanitary Fittings</u></b></p>				
A	White glazed ceramic pedestal type water closet complete with seat cover and low level plastic cistern with plastic flush pipe	1	NO		
B	Ditto but 'Asian 'type water closet with high level cistern ditto	2	NO		
C	white glazed ceramic urinal bowl complete with automatic flushing cistern and stainless stell flush pipe	2	NO		
D	Ditto washhand basin complete with waste chain and plug	3	NO		
E	12mm chrominium plated pillar tap as 'Bric	3	NO		
F	38mm diameter plastic bottle traps	3	NO		
G	450x450x6mmthick polished glass mirror fixed to wall with and including 6mm thick foam backing and chrome plated screws	2	NO		
H	<p><b><u>pipe work</u></b>  Excavate trench for small pipe not exceeding 1.50 m deep 250-500mm average deep part return fill in and ram and surplus spread and level as directed</p>	30	LM		
CARRIED TO COLLECTION					



ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	20mm diameter PPR pipe	30	LM		
B	Chase wall to form 50x50x25mm deep groove to receive pipe	14	LM		
C	12mm diameter PPR pipe encased in plastered walls	14	LM		
D	Extra over for 20x12 mm reducer	1	NO		
E	Ditto 12mm equal tee	7	NO		
F	Ditto 12mm equal elbor	4	NO		
G	300mm long flexible pipe connector	7	NO		
H	Allow for connection to nearest water supply mains		ITEM		
	<b><u>Drainage Works</u></b>				
J	Excavate trench for large pipe not exceeding 1.50M deep;part return fill in and ram and surplus cart away	14	LM		
K	100mm heavy duty PVC drain pipe	14	LM		
L	38 mm ditto	10	LM		
M	f.0 ditto for tee with inspection eye	4	NO		
N	Ditto bend	4	NO		
CARRIED TO COLLECTION					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	300x300x300mm deep gulley chamber comprising 150mm thick concrete 1:3:6 base ,with benching ;150mm thick natural stone walls and 100 mm thick concrete cover slab complete with gulley trap ,grating all finished with waterproof cement sand rendering internally including all necessary excavations	2	NO		
B	Standard manhole size 600x450mm internally comprising 150mm thick concrete 1:3:6 base 150mm thick natural stone walls,medium duty cast iron manhole cover,200mm thick benching to falls including forming channels and all finished with water prof cement sand rendering internally	3	NO		
C	Allow for connecting drainage system to nearest sewerage system		ITEM		
<b>Carried to collection</b>					
<b><u>COLLECTION</u></b>					
Brought forward from page NPR/2/16					
Brought forward from page NPR/2/17					
Brought forward from page NPR/2/18 above					
<b>TOTAL FOR PLUMBING AND DRAINAGE CARRIED TO SUMMARY</b>					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>G.ELECTRICAL WORKS</u></b>				
A	Lighting points wired in 3x1.50 mm <sup>2</sup> single core insulated copper cables drawn in 20mm diameter plastic conduits concealed in plaster	6	NO		
B	5A lighting switches oneway two gang	2	NO		
C	1200 mm 1x36W flourescent light fitting complete with tubes tubes	6	NO		
D	6mm <sup>2</sup> single core copper cable laid in trench and covered with precast concrete 'Hatari' tiles	30	LM		
E	24 gauge galvanised iron cable loop in box mounted on wall	1	NO		
F	Consumer unit complete with MCB's	1	NO		
G	Allow for connecting power to the nearest power supply chains		ITEM		
	<b>CARRIED TO TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>SUMMARY</u></b>				
A	Total for substructures from page NPR/2/09				
B	Total for Walling and ring beam from Page NPR/2/10				
C	Total for Roof from page NPR/2/12				
D	Total for Doors and Windows from page NPR/2/14				
E	Total for Finishes from page NPR/2/15				
F	Total for Plumbing and drainage from page NPR/2/18				
G	Total for Electrical work from page NPR/2/19				
	<b>CARRIED TO GRAND SUMMARY</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b><u>3. ONE BAY GARAGE SHED</u></b>				
A	Clear site of turf grassess etc and cart away	28	SM		
B	Excavate oversite to remove top vegetable soil	28	SM		
C	Excavate for strip footing not exceeding 1.50m deep	9	CM		
D	Return fill in and ram	4	CM		
E	Load cart away	5	CM		
F	concrete 1:2:4 in strip footing	3	CM		
G	200mm thick natural stone wall bedded and jointed in cement sand mortar	10	SM		
H	250mm thick hardcore filling	22	SM		
J	50mm thick murrum blinding	22	SM		
	100mm thick concrete 1:2:4 floor slab	22	SM		
L	BRC No. 98 fabric mesh reinforcement	22	SM		
	<b><u>The following in standard steel sections complete with all necessary cutting, welding and grinding all finished with one coat of approved</u></b>				
M	75x75x3.00mm thick RHS stanchions 4200mm long with base plate welded and set in and including 300x300x600mm deep concrete 1:3:6 base	6	NO		
N	75x50x2.00mm thick RHS wall plate	23	LM		
	<b>CARRIED TO TO COLLECTION</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
A	60x40x2.00mm thick tie beams	18	LM		
B	60x40x2.00mm thick rafters and king post	24	LM		
C	40x40x2.00mm thick struts	20	LM		
D	30x30x2.00mm thick purlins	29	LM		
E	28 gauge prepainted box profile iron roofing sheets fixed with "J" bolts with matching roof washers	29	SM		
F	Prepare and apply one undercoat and two finishing coats of glass paint on metal surfaces 200-300mm girth	68	LM		
G	Ditto 100-200mm girth	50	LM		
	<b>Carried to collection</b>				
	<b><u>Collection</u></b> Brought forward from NPR/2/21 Brought forward from NPR/2/22 above				
	<b>TOTAL FOR GARAGE SHED</b>				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
<b><u>PC/PROVISIONAL SUMS</u></b>					
A	Allow a provisional sum of Kenya shilling forty thousand only for payment of transport cost of Engineers site supervisory staff		SUM		40,000.00
B	Allow a Provisional sum of Kenya shillings Forty thousand only for Project Management		SUM		40,000.00
<b>TOTAL CARRIED TO SUMMARY</b>					

PSI

ITEM	DESCRIPTION	AMOUNT
	<p><b><u>GRAND SUMMARY</u></b></p> <p>A TOTAL FOR RENOVATIONS TO GARMENT/HAIRDRESSING BLOCK FROM PAGE NPR/2/07</p> <p>B TOTAL FOR CONSTRUCTION OF NEW TOILET BLOCK FROM PAGE NPR/2/20</p> <p>C TOTAL FOR ONE - BAY GARAGE SHED FROM PAGE NPR/2/22</p> <p>D TOTAL FOR PC/PROVISIONAL SUMS</p> <p style="text-align: right;">SUB - TOTAL ADD 16% V.A.T</p>	
	<p><b>GRAND TOTAL CARRIED TO FORM OF TENDER</b></p>	
	<p>Contract Period ..... weeks</p> <p>Amount in words .....</p> <p>.....</p> <p>.....</p> <p>Tenderers Name .....</p> <p>.....</p> <p>Adress .....</p> <p>.....</p> <p>Signature .....Date.....</p> <p>.....</p> <p style="text-align: center;">GSI</p>	