



BILLS OF QUANTITY FOR RENOVATIONS AT LUNGALUNGA OSBP

Item	Description	Unit	Qty	Rate	Amount
<u>BILL NO 1. - REFURBISHMENT</u>					
<p><i>The contractor is liable for & will comply with all regulations and by-laws of the Local County Government and other regulatory bodies including serving of notices and paying of fees permits where applicable.</i></p> <p><i>The Contractor shall be responsible for obtaining all necessary approvals for the works as per the respective legislation. The costs of these approvals shall be deemed to be included in the Contractor's rates.</i></p> <p><i>Any damage to structures and surfaces not required to be worked on shall be made good by the Contractor at their own cost. Rates shall be deemed to include making good affected surfaces ready to receive new works. The Contractor shall include in their rates the cost of temporarily relocating furniture from and back to the work spaces ensuring that the furniture is tagged for their location to avoid confusion upon return. Additionally, the Contractor shall be responsible for cleaning of the site after completion of works restoring the site.</i></p>					
MAIN ADMIN BLOCK					
<u>Demolitions</u>					
1.00	Carefully demolish existing MDF partitions including granite countertop and frame, cart away and dispose as directed by the PM, make good and prepare bradering to receive new elements	Sm	60		
2.00	Carefully remove existing aluminium encasement bulletproof glass windows, and stainless steel cash trays, store as directed bt the PM and prepare for reuse; make good of existing surfaces	Sm	40		
<u>New Works</u>					
<u>Paintwork</u>					
<p><i>Paint color code shall be provided by KRA team on site: The contractor to allow for all scaffolding necessary:</i></p> <p><i>Scrape off all existing coats of paint and grind/ rub down existing rough-cast wall finish and ensure smooth surface to receive new paintwork using appropriate tools: sand to remove all loose particles; clean surfaces</i></p> <p><i>Prepare and apply one coat Acrylic Sealer Undercoat and two finishing coats 1st grade 'Crown Ultraquard' acrylic emulsion extreme exterior paint: from 'Crown paints solo' or equal and approved: on masonry and/or concrete surfaces: NOTE: All surfaces must be dry before paintwork:</i></p>					
3.00	External Walls	Sm	900		
<p><i>Sand and clean surfaces:apply one coat skimming compound(where necessary)as 'Wall Magic'or equal and approved:apply ONE coat"crow"Cover Matt and three coats plastic emulsion paint:from "Crown"or equal approved"on; Allow for scaffolding where necessary</i></p>					
4.00	Internal walls	Sm	2,016		
5.00	Soffits	Sm	500		
6.00	Allow for plaster repair to existing wall, column and soffit surface	Sm	10		
Total Carried Down to Summary					



KENYA REVENUE AUTHORITY

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Item	Description	Unit	Qty	Rate	Amount
	<i>Wire brush and scrape to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; Surfaces of railings/grilles- measured flat overall; Repair and apply glass putty as 'Crown metal putty' :</i>				
1.00	Metalic box gutters	Sm	113		
2.00	Steel window encasement & Bulgarproof grille	Sm	115		
	<i>Sand off and clean to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of First Quality Super Gloss paint/Polyurethane vanish where applicable; to</i>				
3.00	General wood surfaces	Sm	351		
4.00	Wood surfaces 100-200mm girth	Lm	510		
5.00	Preapare masonry surface ,and apply road marking paint high gloss paint , Black, yellow kerbs and paving area,bollards , treat blemishes	Lm	1,200		
	Window Film				
	<i>Supply and install 3M one way solar control window film/ tint to windows or equal and approved: A sample film shall be submitted for approval : as per Architect's specification</i>				
6.00	Aluminium encasement window panes	Sm	224		
7.00	Supply and fix box profile decorative film as "Llumar" or equal and approved fixed to glass windows as directed and approved by the Project Manager. (Art work to be provided by the PM)	SM	129		
8.00	All repair of metalic gutter; fix on facia board with approved pattern brackets to match existing; Rate includes demolitions stop end pieces, outlets, swan neck wall ofsets, clips, rainwater shoes, gutterclamps, connectors and corners to match existing; ainted with one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surface; scaffolding where necessary	Sm	50		
9.00	Allow for repair of Decra stone coated roofing tiles; Rate includes demolitions, repair of batterns, fixing accessories, flashing, verge trimming and sealants to match existing; Scaffolding where necessary	Sm	200		
10.00	Allow for repair of facia board including demolitions, hoisting and fixing in position above ground floor include all necessary jointing to match existing; treated wood; scaffolding where necessary	Lm	50		
11.00	Allow for repair of polycarbonate sheets; Demolition and replacement of multiwall/solid UV stabilizer clear sheets. Rate includes PVC facia board, cut to size and alignment, sealants, joining strips, hangers, galvanized bolts and washers, and repair of batters to match exusting profiles; scaffolding where necessary	Sm	50		
12.00	Allow for repair of PVC 12" heavy gauge ceiling; Demolitions and replacement of PVC panels fixed on existing brandering; Rate includes fixing screws, hangers, supports, adhesives, and molded cornice to match existing; Scaffolding where necessary	Sm	100		
	Total Carried Down to Summary				



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Item	Description	Unit	Qty	Rate	Amount
1.00	Allow for repair of down pipes; Demolition and replacement of metallic down pipe including pipe clips, shoes, joint union and stop ends to match existing; painted with one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; scaffolding where necessary	Lm	20		
2.00	Ditto but to 100mm th. uPVC downpipe	Lm	20		
3.00	Allow for acoustic ceiling repair; carefully remove broken acoustic tiles and frames: supply and fix as "Armstrong" or equal and approved Fibre acoustic ceiling on and including approved suspension/branding system comprising galvanised mild steel channels and studs on grid to manufacturer's instructions	Sm	244		
4.00	Allow for tile repair; Hack off floor tiles repairing with cement and sand (1:4) plaster to receive floor tiling: on concrete : Supply and fix Ceramic floor tiles: fixed with approved quality proprietary adhesive in accordance with manufacturer's printed instructions: on cement and sand mortar (1:4) screed beds (m.s): jointed, pointed and grouted in matching proprietary colour grout: allow for supply and fixing of all spacers and expansion joints as necessary : all as per the sample provided and approved by the Employer to; 600mm x 600mm tiles	Sm	30		
	Floor Cleaning				
5.00	Deep cleaning of wall tiles including all tools & tackles, cleaning machines, chemicals, and other related consumables, all complete as per direction of PM. The cleaning shall consist following operations: (i) Removal of dirt & dusts using heavy duty vacuum cleaner (ii) Removal of sticky & rigid stains using high quality scrubbing pad & environment friendly heavy duty floor cleaner (iii) Scrubbing of wall tiles with single disc machine with a right mix of scrubbing brush, scrubbing pads (high quality); hand held mechanized scrubber for narrow or intricate areas using safe, gentle & environment friendly chemicals. (iv) Removal of dirty water & slurry mud from above operations using vacuum cleaner. (v) Polish and scrub with diamond grit where necessary (vi) Re-grout and plaster to make good/restore tiles as directed by the PM. Rates shall include scaffolding and safety equipment	Sm	144		
6.00	Ditto but to terrazzo	Sm	690		
	Door Accessories				
	<u>Allow for careful demolitions: supply the following items of ironmongery with matching screw stall as "union" or any other equal and approved.</u>				
7.00	Two lever mortice lock complete with set of lever handles with brass finish	No	40		
8.00	Stainless steel push/pull plate and floor springs, opening mechanism and any other necessary ironmongery all as "ASSA ABLOY" or equal and approved to Architect's details and approval	No.	4		
Total Carried Down to Summary					



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Item	Description	Unit	Qty	Rate	Amount
	<i>Electrical Installations</i>				
	<u>Supply and install the following items to be installed in conformity to the latest standard of IEC or approved local standard. Equivalent items must be brought for approval before use.</u>				
1.00	200w IP65 floodlight including 50 watt dusk to dawn photocell controlled floodlight installation and connection to surface	No	10		
2.00	Ditto but to indoor floodlight	No	4		
	<u>The following lighting fixtures to be complete with the LED drivers and complete fitting.</u>				
3.00	2ft LED tubes as 'Tronic' or equivalent approved	No	100		
	<u>Refurbishment of electrical system in port health office</u>				
4.00	8 Way consumer unit as Powermax or Tronic or Crab Tree or equivalent approved.	No.	1		
5.00	Two compartment steel Trunking; size 50mm by 100mm	No.	5		
6.00	PVC twin outlet Patress box	No.	8		
7.00	PVC Single outlet Patress box	No.	8		
8.00	13A Twin Sockets, make Carl and Gilbert or ABB approved equivalent make.	No.	8		
9.00	Two Gang Two Way Switch, make Carl and Gilbert or ABB or approved equivalent make	No.	4		
10.00	100A double pole circuit breaker/Isolator, make Carl and Gilbert or equivalent approved make	No.	1		
11.00	32A Single pole miniature circuit breaker, make Tronic or Crab Tree or equivalent approved make	No.	2		
12.00	20A Single pole miniature circuit breaker, make Tronic or Crab Tree or equivalent approved make	No.	1		
13.00	10A Single pole miniature circuit breaker, make Tronic or Crab Tree or equivalent approved make	No.	1		
14.00	2.5mm, 3 core cable approved equivalent make (Red, Black and Green)	Lm	90		
15.00	2.5mm, single core colour Red, make East African Cable or ASL or Coast Cables approved equivalent make	Lm	50		
16.00	2.5mm, Single core colour Yellow Green, make East African Cable or ASL or Coast Cables approved equivalent make	Lm	50		
17.00	2.5mm, Single core colour Yellow Green, make East African Cable or ASL or Coast Cables approved equivalent make	Lm	50		



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Item	Description	Unit	Qty	Rate	Amount
18.00	Surface panel light. Maximum 30Watts. Minimum 18Watts	pcs	2		
19.00	1.5mm , colour Black, make East African Cable or ASL or Coast Cables approved equivalent make	Lm	20		
20.00	1.5mm square, colour Red, make East African Cable or ASL or Coast Cables approved equivalent make	Lm	20		
	Air Conditioning installations				
21.00	A class A, 24,000BTU/hr. High wall as LG or approved equivalent together with its outdoor unit. The unit must be EPRA approved with MEPs label and standard operating at 240 Volts, 50hertz frequency and remotely controlled. The unit shall be manufactured to use environmentally friendly refrigerant. as LG ATNW24GPLS1 or equal and approved equivalent. For the following office spaces in the verification block; Mounting bracket for the outdoor unit complete with a cage and provided with purpose-made protective steel iron angle frame and all other anchoring accessories including rawl bolts and anti-vibration rubber mountings to the Engineers approval; Refrigeration liquid pipework of appropriate diameter including Amaflex insulation between the indoor and outdoor unit approximately 15m per unit. It should include trucking to conceal the pipe works; Supply and install Air conditioners surge protector as Sollatek or equal and approved equivalent; 25mm PVC condensate drainage pipework, class D, including bends, clips, joints and tees along the running length of the pipe; Supply and install 2.5 sq. mm PVC 4 core flex cable for signal and powering between the outdoor and indoor unit.	No	10		
	Total Carried Down to Summary				-



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Item	Description	Unit	Qty	Rate	Amount
Item	Description	Unit	Qty	Rate	Amount
<i>Foul water drainage repairs</i>					
Tenderers to allow for all the couplings, connectors, joints etc as required in the running lengths of pipework and also where necessary, for pipe fixing clips, joints including chasing to remove fitting in masonry works e.t.c .					
1.00	32 mm diameter uPVC waste pipe	Lm	10		
2.00	Replacement of 100 mm diameter Trapped Floor Gully with 1 No. 32 mm diameter inlet and 50 mm diameter outlet and floor gully inlet with stainless steel grating	No.	4		
3.00	Excavate for replacement, laying and covering up of 100 mm diameter uPVC Drain Pipe	Lm	60		
<i>Inspection Chambers/Manholes</i>					
4.00	Allow for replacing missing top Medium duty metallic foundry Rectangular Covers and Frame to uPVC covers to manholes not exceeding 3000 mm depth and mounting in position in concrete Class 1:3:6, 150 mm thick top concrete slab and trowel smooth plastering to 1:2 finish	No.	2		
5.00	ditto: but in PCC reinforced slab covers; to inspection chambers, fabricated	No.	12		
<i>Gully Traps</i>					
6.00	Masonry repairs to gulley trap in chamber complete with golden brown uPVC P-trap with seal drain pipe and metallic purpose made cover.	No.	12		
<i>Footpaths and storm water drains</i>					
7.00	Remove damaged sections, prepare surfaces for and supply and fix 600 x 600 x 50mm thick precast concrete paving slabs , fill jointed and pointed in cement sand (1:3) mortar joints fixed on and including 50mm thick quarry dust base to foot paths	Sm	100		
8.00	Remove damaged sections, prepare surfaces for and supply and fix mazeras backing, fill jointed and pointed in cement sand (1:3) mortar joints fixed to storm water drains	Sm	150		
9.00	200 x 150mm thick haunching in class 20 (1:2:4) mass concrete to fixed to edges of storm water drains and footpaths as necessary	Cm	6		
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Item	Description	Unit	Qty	Rate	Amount
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<i>Service Countertops, partitions and cladding</i>					
1.00	Supply and lay on hacked surface; selected and approved quality local machine cut stone or concrete blocks : load bearing (7N/mm ²) block walling : bedded, jointed and pointed : in cement and sand (1:3) mortar every alternate course with 25mm wide x 20 gauge hoop irons	Sm	40		
2.00	12mm thick 1:4 cement sand plaster to wall to smooth finish	Sm	80		
3.00	Prepare and apply one undercoat layer and 3 coats of Matt Emulsion paint to wall surface	Sm	40		
4.00	Supply and install service countertop; 25mm thick polished granite finish to top with bull nosed edges : 10mm thick polished granite finish to fascia : 200mm high x 10mm thick granite border above worktop complete with cutting for reinstallation of previously existing cash trays as necessary: all bonded to aluminium frame - brandering supports mounted on newly constructed masonry dwarf wall with brandering fixed on wall and partitions to receive fluted wall panel cladding: to Architects detail and approval:	Sm	30		
5.00	Granite skirting; 100mm high ; rounded junction with wall finish and coved junction with floor to match the counter granite;	Lm	32		
6.00	Supply and fix 28mm thick wood plastic composite fluted wall panels, finished in brand colours including all necessary supports, brandering framework, screws, clips, adhesives, and specialized joining or finishing trims	Sm	120		
7.00	Reinstall previously existing aluminium encasement bulletproof glass windows and stainless steel cash trays to service counter; make good of existing surfaces	Sm	40		
Total Carried Down to Summary					



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Item	Description	Unit	Qty	Rate	Amount
	<i>Solar Water Heaters</i>				
	Supply ,deliver, install , test and commission of the following split solar hot water system appliances complete with all the accessories including all connections to the services, jointing to water supply, overflows, supports and all plugging and screwing to walls and frames. The hot water cyclinder shall be installed in a designated space inside the apartment.				
	<i>Solar Panels</i>				
1.00	Supply and install solar water heating system comprising of Solar panel with multi-fin high selective aluminium absorber with laser welded copper risers of haro design, 4m ² dielectric nett absorbing area, glass wool insulation, aluminium profile casing, low iron special solar tempered glass and all other necessary interconnectors. The system shall be a closed circuit type of the solar heating system as Megusun or equal and approved. Solar panels to be contained at the Roof Space.	No.	1		
	<i>Hot Water Storage Cylinder</i>				
2.00	Supply and install solar water heating system comprising of 1No. 300 litres capacity hot water cylinder complete with 3KW electric booster element and thermostat, cathodic protection with magnesium anode according to DIN 4753/6, insulation of high density expanded polyurathane, high quality enamelling against internal corrosion to DIN 4753 and all other necessary interconnectors. The system shall be a closed circuit type complete with the necessary hydraulic kit (pump, expansion vesel, valves, gauges etc..) and shall be as Megasun or equal and approved, and shall have connections for heating fluid (2no) inlet and outlet, hotwater supply (1no.) and cold water supply (1no). Cylinder to be contained within the kitchen in the facility.	No.	1		
	<i>Solar System Hydraulic Kit</i>				
3.00	Solar water heating system hydraulic kit comprising of circulating pump suitable for hot water circulation from solar tanks to solar panels. It shall be complete with an 8 liter expansion vesssel suitable for the heating fluid complete with valves and controls. All as Grundfos UPS 32-80 circulator pump and GT-HR or equal and approved.	No.	1		
	<i>Solar Heater Controller</i>				
4.00	The solar system shall be equipped with a heater controller wired such that it can display and control the temperature of circulating fluid and the temperature of stored hot water, then the controller shall switch the electric circulation pump and/ or booster heater element ON/OFF.	No.	1		
	<i>Wiring</i>				
5.00	Allow for all wiring to booster heater and circulation pump from local isolator supplied by others for all the solar heating systems.	item			
	<i>Safety Valve</i>				
6.00	Temperature/pressure safety valve set to release when the water in the tanks exceed 85°C as manufactured by Spirax Sarco Model No. SV11 Pop Type or equal and approved.	No.	2		
	<i>Gate Valves</i>				
7.00	25mm diameter screwed- in bonnet, full way non-rising stem, solid wedge disk, bronze gate valve to BS 5154 PN 20 for series 'B' ratings with wheel head and transition fitting for jointing to PPR tubing.	No.	2		



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Item	Description	Unit	Qty	Rate	Amount
8.00	<u>Non- Return Valves</u> 25mm diameter screwed -in cap, lift type disc bronze/copper non-return valve to BS 5154 PN 32 for series 'B' ratings.	No.	2		
	<u>Primary Circuit Pipe work</u> Alluminium/cooper or approved modified heavy gauge class "C" Pipework complete with all the necessary fittings ie bends, tees, reducers, unions etc screwed and jointed, pipe supports holder barts etc for satisfactory completion and performance of the installation.				
9.00	25mm diameter pipework	Lm	30		
10.00	25mm diameter bend	No.	8		
11.00	25mm diameter pipe unions	No.	4		
12.00	25mm male/female threaded tee	No.	1		
	<u>Tempering Valve</u>				
13.00	25 mm diameter tempering valve	No.	1		
	<u>Secondary Circuit Pipe work</u> <u>PPR PN 20 Oxy stable Pipework and Fittings</u>				
14.00	40mm diameter pipework	Lm	30		
15.00	32mm ditto	No.	35		
16.00	25mm ditto	No.	45		
17.00	40 mm diameter isolating valve	No.	2		
18.00	32 mm ditto	No.	3		
19.00	25 mm ditto	No.	4		
	<u>Pipe Insulation</u>				
20.00	Allow for insulation for pipework, bends, tees and other fittings with 25mm thick industrial grade insulation and shall comprise of 130 kg/m ³ minimum density mineral fibre pipe sections with factory applied fully bonded reinforced aluminium foil facing. The thermal conductivity of the insulate shall not exceed 0.033 W/m.K at 10°C mean.	Lm	30		
	<u>Hot Water Circulating Pump</u>				
22.00	Circulating pump suitable for solar water re-circulation from solar tanks to solar panels. It shall be complete with an 8 liter expansion suitable for the heating fluid complete with valves and controls. All as Grundfos UPS 32-80 circulator pump and GT-HR or equal and approved.	No.	1		
	<u>Sterilization</u>				
23.00	Allow for flushing out and sterilizing the whole system with chlorine to the satisfaction of the Project manager.	item			
	<u>Testing and Commissioning</u>				
24.00	Allow for pressure testing and commissioning of the plumbing installation to the satisfaction of the Engineering technologist	item			
Total Carried Down to Summary					



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Item	Description	Unit	Qty	Rate	Amount
	Signage				
	<i>Way finding and directional signage</i>				
	Size: 5ft x 4ft Steel structure mounted, with aluco bond (aluminium composite board) pasted with a reflective stick with vinyl cuts (letters), Partner states Logos ,signs				
	WELCOME TO ONE STOP BORDER POST LUNGA LUNGA ,KENYA	No.	1		
	WELCOME TO CUSTOMS & BORDER CONTROL, LUNGA LUNGA ESTATE	No.	1		
	PARKING	No.	2		
	ABLUTION	No.	2		
	Fire Assembly point (Standard signage	No.	1		
	TO TANZANIA, with indicative arrow	No.	1		
	DOG KENNEL	No.	1		
	SPEED LIMIT – 5 KM/H	No.	4		
	STOP, (average ground clearnce 2.4 meters)	No.	4		
	DOOR SIGNAGES:				
	Size 60 cm x 12 cm (optional) Red, aluco bond (aluminium composite board) pasted with white/black vinyl cuts (letters)				
	• STATION MANAGER	pcs	1		
	• DEPUTY STATION MANAGER	pcs	1		
	• FACILITHIES AND LOGISTICS	pcs	1		
	• ICT –KENYA	pcs	1		
	• ICT TANZANIA	pcs	1		
	• CUSTOMS ENFORCEMENT	pcs	1		
	• VERIIFCATION	pcs	1		
	• KITCHEN	pcs	1		
	• LADIES X 8	pcs	1		
	• GENTS X 8	pcs	1		
	• BOARDROOM	pcs	1		
	• STORE ROOM	pcs	1		
	• REGISTRY	pcs	1		
	• GATE HOUSE X3	pcs	3		
	• NIS	pcs	1		
	• PORT HEALTH KENYA	pcs	1		
	• JOINT OPERATION CENTER	pcs	1		
	• IMMIIGRATION KENYA	pcs	1		
	• IMMIGRATION TANZANIA	pcs	1		
	• BIOSAFETY	pcs	1		
	• PEST AND CONTROL BOARD/KENYA	pcs	1		
	• FORESTRY	pcs	1		
	• EXCLUSIVE ROOM	pcs	1		
	• SECURITY	pcs	1		
	• PWD	pcs	2		
	• ENFORCEMENT	pcs	1		
	Total carried down to summary				



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Item	Description	Unit	Qty	Rate	Amount
<u>SUMMARY</u>					
1.00	Sub-total from Pg 1				-
2.00	Sub-total from Pg 2				-
3.00	Sub-total from Pg 3				-
4.00	Sub-total from Pg 5				-
5.00	Sub-total from Pg 6				-
6.00	Sub-total from Pg 7				-
7.00	Sub-total from Pg 9				-
8.00	Sub-total from Pg 10				-
TOTAL CARRIED TO GRAND SUMMARY					-

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Item	Description	Unit	Qty	Rate	Amount
	K9 DOG KENNEL				
	<u>Demolitions</u>				
1.00	Carefully demolish existing steel grille door and frame, cart away and dispose as directed by the PM, make good and prepare walling to receive new doors	Sm	4		
	<u>New Works</u>				
	<u>Paintwork</u>				
	<i>Paint color code shall be provided by KRA team on site: The contractor to allow for all scaffolding necessary:</i>				
	<i>Scrape off all existing coats of paint and grind/ rub down existing rough-cast wall finish and ensure smooth surface to receive new paintwork using appropriate tools: sand to remove all loose particles: clean surfaces</i>				
	<i>Prepare and apply one coat Acrylic Sealer Undercoat and two finishing coats 1st grade 'Crown UltraGuard' acrylic emulsion extreme exterior paint: from 'Crown paints solo' or equal and approved: on masonry and/or concrete surfaces: NOTE: All surfaces must be dry before paintwork:</i>				
2.00	External Walls	Sm	135		
	<i>Sand and clean surfaces: apply one coat skimming compound (where necessary) as 'Wall Magic' or equal and approved: apply ONE coat "crown" Cover Matt and three coats plastic emulsion paint: from "Crown" or equal approved "on; Allow for scaffolding where necessary</i>				
3.00	Internal walls	Sm	54		
4.00	Allow for plaster repair to existing wall, column and soffit surface	Sm	10		
	<i>Wire brush and scrape to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; Surfaces of railings/grilles- measured flat overall; Repair and apply glass putty as 'Crown metal putty' :</i>				
5.00	Bulgarproof grille and steel door	Sm	12		
	<i>Sand off and clean to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of First Quality Super Gloss paint/ Polyurethane varnish where applicable: to</i>				
6.00	General wood surfaces	Sm	12		
7.00	Wood surfaces 100-200mm girth	Lm	6		
	<u>Grille Door</u>				
8.00	Standard steel casement gate overall size 900x1200mm high comprising 40 x 25 x 3 mm stiles, bottom & top rail, & 4No intermediate rails all primed with red oxide complete with hinges, stays, fasteners, normal door latch, clear glass transom, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) including steel frame pedestrian door	No	4		
	Total carried down to summary				-
SUMMARY					
2.00	Sub-total from Pg 1				-
	TOTAL CARRIED TO GRAND SUMMARY				-

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Item	Description	Unit	Qty	Rate	Amount
	ABLUTION BLOCK				
	Paintwork				
	<i>Paint color code shall be provided by KRA team on site: The contractor to allow for all scaffolding necessary:</i>				
	<i>Scrape off all existing coats of paint and grind/ rub down existing rough-cast wall finish and ensure smooth surface to receive new paintwork using appropriate tools: sand to remove all loose particles: clean surfaces</i>				
	<i>Prepare and apply one coat Acrylic Sealer Undercoat and two finishing coats 1st grade 'Crown Ultraquard' acrylic emulsion extreme exterior paint: from 'Crown paints solo' or equal and approved: on masonry and/or concrete surfaces: NOTE: All surfaces must be dry before paintwork;</i>				
1.00	External Walls	Sm	105		
	<i>Sand and clean surfaces: apply one coat skimming compound (where necessary) as 'Wall Magic' or equal and approved: apply ONE coat "crown" Cover Matt and three coats plastic emulsion paint: from "Crown" or equal approved "on; Allow for scaffolding where necessary</i>				
2.00	Internal walls	Sm	50		
3.00	Allow for plaster repair to existing wall, column and soffit surface	Sm	10		
	<i>Wire brush and scrape to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; Surfaces of railings/grilles- measured flat overall; Repair and apply glass putty as 'Crown metal putty' :</i>				
4.00	Metalic box gutters	Sm	40		
	<i>Sand off and clean to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of First Quality Super Gloss paint/Polyurethane vanish where applicable; to</i>				
5.00	General wood surfaces	Sm	42		
6.00	Wood surfaces 100-200mm girth	Lm	62		
7.00	All repair of metalic gutter and fixing on facia board with approved pattern brackets to match existing; Rate includes demolitions stop end pieces, outlets, swan neck wall ofsets, clips, rainwater shoes, gutterclamps, connectors and corners to match existing; ainted with one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surface; scaffolding where necessary	Sm	10		

8.00	Allow for repair of Decra stone coated roofing tiles; Rate includes demolitions, repair of battens, fixing accessories, flashing, verge trimming and sealants to match existing; Scaffolding where necessary	Sm	10
9.00	Allow for repair of fascia board including demolitions, hoisting and fixing in position above ground floor include all necessary jointing to match existing; treated wood; scaffolding where necessary	Lm	10
10.00	Allow for repair of PVC ceiling; Demolitions and replacement of PVC panels fixed on existing brading; Rate includes fixing screws, hangers, supports, adhesives, and molded cornice to match existing; Scaffolding where necessary	Sm	40
11.00	Allow for repair of down pipes; Demolition and replacement of metallic down pipe including pipe clips, shoes, joint union and stop ends to match existing; painted with one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; scaffolding where necessary	Lm	10
Doors			
<i>Allow for demolitions; Wrot mahogany with rounded edges</i>			
12.00	Ex. 150x50mm rebated frame	Lm	36.00
13.00	50x25mm architrave	Lm	72.00
14.00	25mm quadrant	Lm	72.00
15.00	General repairs and reuse of existing doors on site	No.	3.00
<i>Allow for carefull demolitions; supply the following items of ironmongery with matching screw stall as "union" or any other equal and approved.</i>			
16.00	100mm stainless steel ball bearing steel butt hinges	Prs	6.00
17.00	Two lever motrice lock complete with set of lever handles with brass finish	No	3
18.00	Stainless steel push/pull plate opening mechanism, indicator lock, and any other necessary ironmongery all as "ASSA ABLOY" or equal and approved to Architect's details and approval	No.	6

Mechanical Works			
<i>Twyfords Ltd products are specified only as an indication of quality. Equal and approved appliances or in approved quality trade name. the Ref. No. is intended only as a guide to the type and quality of fittings</i>			
19.00	Urinal cistern tank complete with automatic siphoning pump and 3no. urinal bowls (Twyford or equivalent)	No	1.00
20.00	Provide for I Care Disabled Bathroom Suite High Doc M Toilet Close Coupled 470 Comfort Height Toilet Pan WC Cistern, Seat, Grab Rails, Basin, Tap, Waste	No	1.00
21.00	1/2 " delayed action push pillar tap (cobra or equivalent)	No	4.00
22.00	Urinal/Sink bottle traps	No	6.00
Total carried down to summary			-
<u>SUMMARY</u>			
1.00	Sub-total from Pg 3		-
TOTAL CARRIED TO GRAND SUMMARY			-

BILLS OF QUANTITY FOR RENOVATIONS AT LUNGALUNGA OSBP

Item	Description	Unit	Qty	Rate	Amount
	GATES				
	Paintwork				
	<i>Paint color code shall be provided by KRA team on site: The contractor to allow for all scaffolding necessary:</i>				
	<i>Scrape off all existing coats of paint and grind/ rub down existing rough-cast wall finish and ensure smooth surface to receive new paintwork using appropriate tools: sand to remove all loose particles: clean surfaces</i>				
	<i>Prepare and apply one coat Acrylic Sealer Undercoat and two finishing coats 1st grade 'Crown Ultraquard' acrylic emulsion extreme exterior paint: from 'Crown paints solo' or equal and approved: on masonry and/or concrete surfaces: NOTE: All surfaces must be dry before paintwork:</i>				
1.00	External Walls	Sm	32		
	<i>Sand and clean surfaces: apply one coat skimming compound (where necessary) as 'Wall Magic' or equal and approved: apply ONE coat "crown" Cover Matt and three coats plastic emulsion paint: from "Crown" or equal approved "on: Allow for scaffolding where necessary</i>				
2.00	Internal walls	Sm	32		
3.00	Allow for plaster repair to existing wall, column and soffit surface	Sm	20		
	<i>Wire brush and scrape to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; Surfaces of railings/grilles- measured flat overall; Repair and apply glass putty as 'Crown metal putty' :</i>				
4.00	Metalic box gutters	Sm	32		
	<i>Sand off and clean to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of First Quality Super Gloss paint/Polyurethane vanish where applicable; to</i>				
5.00	General wood surfaces	Sm	30		
6.00	Wood surfaces 100-200mm girth	Lm	25		
7.00	Allow for repair of Decra stone coated roofing tiles; Rate includes demolitions, repair of battens, fixing accessories, flashing, verge trimming and sealants to match existing; Scaffolding where necessary	Sm	10		
8.00	Allow for repair of PVC ceiling; Demolitions and replacement of PVC panels fixed on existing branderling; Rate includes fixing screws, hangers, supports, adhesives, and molded cornice to match existing; Scaffolding where necessary	Sm	32		

9.00	<p>Allow for tile repair; Hack off floor tiles repairing with cement and sand (1:4) plaster to receive floor tilling; on concrete : Supply and fix Ceramic floor tiles: fixed with approved quality proprietary adhesive in accordance with manufacturer's printed instructions: on cement and sand mortar (1:4) screed beds (m.s): jointed, pointed and grouted in matching proprietary colour grout: allow for supply and fixing of all spacers and expansion joints as necessary : all as per the sample provided and approved by the Employer to; floor and vanity top</p> <p>Door Accessories</p> <p><u>Allow for careful demolitions; supply the following items of ironmongery with matching screw stall as "union" or any other equal and approved.</u></p>	Sm	10	
10.00	<p>Two lever motrice lock complete with set of lever handles with brass finish</p> <p>Electrical Installations</p> <p><u>Supply and install the following items to be installed in conformity to the latest standard of IEC or approved local standard. Equivalent items must be brought for approval before use</u></p>	No	4	
11.00	<p>200w IP65 floodlight including 50 watt dusk to dawn photocell controlled floodlight installation and connection to surface</p> <p><u>The following lighting fixtures to be complete with the LED drivers and complete fitting</u></p>	No	4	
12.00	<p>LED circle downlight; surface</p> <p><u>Supply and install wall-mounted fan as per specifications below</u></p>	No	4	
13.00	<p>Industrial wall fan 20-inch diameter, oscillating, 3-speed, pull cord control complete with wall mounting kit, connection to existing adjacent fused spur, and all necessary fixings and accessories. Fan to be an approved manufacturer's model, Eurovent certified and in accordance with relevant BS EN standards; allow for testing and commissioning</p>	No	10	
Total carried down to summary				
<u>SUMMARY</u>				
4.00	Sub-total from Pg 2			
TOTAL CARRIED TO GRAND SUMMARY				

BILLS OF QUANTITY FOR RENOVATIONS AT LUNGALUNGA OSBP

Item	Description	Unit	Qty	Rate	Amount
	INCINERATOR				
	Paintwork				
	<i>Paint color code shall be provided by KRA team on site: The contractor to allow for all scaffolding necessary: Scrape off all existing coats of paint and grind/ rub down existing rough-cast wall finish and ensure smooth surface to receive new paintwork using appropriate tools: sand to remove all loose particles; clean surfaces</i>				
	<i>Prepare and apply one coat Acrylic Sealer Undercoat and two finishing coats 1st grade 'Crown Ultraquard' acrylic emulsion extreme exterior paint: from 'Crown paints solo' or equal and approved: on masonry and/or concrete surfaces: NOTE: All surfaces must be dry before paintwork:</i>				
1.00	External Walls	Sm	230		
	<i>Wire brush and scrape to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; Surfaces of railings/grilles- measured flat overall; Repair and apply glass putty as 'Crown metal putty' :</i>				
2.00	Metalic grille surface	Sm	20		
	Grille Door				
	Standard steel casement gate overal size 900x2,100mm high comprising 40 x 25 x 3 mm stiles, bottom & top rail, & 4No intermediate rails all primed with red oxide complete with hinges, stays, fasteners, normal door latch, clear glass transom, permanent vent with mosquito gauze and sheet metal hood etc assembled and fixed to opening including cutting and pinning lugs to concrete or blockwork surround and bedding frame in cement and sand mortar (1:4) including steel frame pedestrian door				
3.00		No	1		
	Total carried down to summary				
SUMMARY					
1.00	Sub-total from Pg 1				-
	TOTAL CARRIED TO GRAND SUMMARY				-

BILLS OF QUANTITY FOR RENOVATIONS AT LUNGALUNGA OSBP

Item	Description	Unit	Qty	Rate	Amount
WAREHOUSE					
Paintwork					
<i>Paint color code shall be provided by KRA team on site: The contractor to allow for all scaffolding necessary:</i>					
<i>Scrape off all existing coats of paint and grind/ rub down existing rough-cast wall finish and ensure smooth surface to receive new paintwork using appropriate tools: sand to remove all loose particles; clean surfaces</i>					
<i>Prepare and apply one coat Acrylic Sealer Undercoat and two finishing coats 1st grade 'Crown Ultraguard' acrylic emulsion extreme exterior paint: from 'Crown paints solo' or equal and approved: on masonry and/or concrete surfaces: NOTE: All surfaces must be dry before paintwork;</i>					
1.00	External Walls	Sm	230		
<i>Wire brush and scrape to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; Surfaces of railings/grilles- measured flat overall; Repair and apply glass putty as 'Crown metal putty' :</i>					
2.00	Metalic box gutters & Downpipes	Sm	42		
<i>Sand off and clean to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of First Quality Super Gloss paint/Polyurethane vanish where applicable; to</i>					
3.00	General wood surfaces	Sm	36		
4.00	Allow for repair of PVC ceiling; Demolitions and replacement of PVC panels fixed on existing brandering; Rate includes fixing screws, hangers, supports, adhesives, and molded cornice to match existing; Scaffolding where necessary	Sm	20		
Total carried down to summary					
SUMMARY					
1.00	Sub-total from Pg 1				
TOTAL CARRIED TO GRAND SUMMARY					

BILLS OF QUANTITY FOR RENOVATIONS AT LUNGALUNGA OSBP

Item	Description	Unit	Qty	Rate	Amount
	VERIFICATION BUILDING				
	Paintwork				
	<i>Paint color code shall be provided by KRA team on site: The contractor to allow for all scaffolding necessary: Scrape off all existing coats of paint and grind/ rub down existing rough-cast wall finish and ensure smooth surface to receive new paintwork using appropriate tools: sand to remove all loose particles: clean surfaces</i>				
	<i>Prepare and apply one coat Acrylic Sealer Undercoat and two finishing coats 1st grade 'Crown UltraGuard' acrylic emulsion extreme exterior paint: from 'Crown paints solo' or equal and approved: on masonry and/or concrete surfaces: NOTE: All surfaces must be dry before paintwork;</i>				
1.00	External Walls	Sm	790	690.00	545,100.00
	<i>Sand and clean surfaces:apply one coat skimming compound(where necessary)as 'Wall Magic'or equal and approved:apply ONE coat"Crown"Cover Matt and three coats plastic emulsion paint:from "Crown"or equal approved"on; Allow for scaffolding where necessary</i>				
	<i>Sand and clean surfaces:apply one coat skimming compound(where necessary)as 'Wall Magic'or equal and approved:apply ONE coat"Crown"Cover Matt and three coats plastic emulsion paint:from "Crown"or equal approved"on; Allow for scaffolding where necessary</i>				
2.00	Internal walls	Sm	200		
3.00	Soffits	Sm	180		
	<i>Wire brush and scrape to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; Surfaces of railings/grilles- measured flat overall; Repair and apply glass putty as 'Crown metal putty' :</i>				
4.00	Metalic box gutters & Down pipes	Sm	172		
5.00	Steel window encasement & Bulgarproof grille	Sm	203		
	<i>Sand off and clean to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of First Quality Super Gloss paint/Polyurethane vanish where applicable; to</i>				
6.00	General wood surfaces	Sm	40		
	<i>Supply and install 3M one way solar control window film/ tint to windows or equal and approved: A sample film shall be submitted for approval : as per Architect's specification</i>				
7.00	Aluminium encasement window panes	Sm	224		
8.00	Allow for repair of PVC ceiling; Demolitions and replacement of PVC panels fixed on existing brandering; Rate includes fixing screws, hangers, supports, adhesives, and molded cornice to match existing; Scaffolding where necessary	Sm	50		

9.00	All repair of metallic gutter and fixing on fascia board with approved pattern brackets to match existing; Rate includes demolitions stop end pieces, outlets, swan neck wall offsets, clips, rainwater shoes, gutterclamps, connectors and corners to match existing; ainted with one undercoat and two finishing coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surface; scaffolding where necessary	Sm	40	
	Floor Cleaning			
10.00	Deep cleaning of terrazzo including all tools & tackles, cleaning machines, chemicals, and other related consumables, all complete as per direction of PM. The cleaning shall consist following operations: (i)Removal of dirt & dusts using heavy duty vacuum cleaner (ii)Removal of sticky & rigid stains using high quality scrubbing pad & environment friendly heavy duty floor cleaner (iii)Scrubbing of terrazzo with single disc machine with a right mix of scrubbing brush, scrubbing pads (high quality); hand held mechanized scrubber for narrow or intricate areas using safe, gentle & environment friendly chemicals. (iv)Removal of dirty water & slurry mud from above operations using vacuum cleaner. (v)Polish and scrub with diamond grit where necessary (vi)Restoration of terrazzo as directed by the PM.	Sm	130	
	Door Accessories			
11.00	<u>Allow for careful demolitions; supply the following items of ironmongery with matching screw stall as "union" or any other equal and approved.</u>	No	40	
12.00	Allow for general warped door repair	No.	1	
	Electrical Installations			
	<u>Supply and install the following items to be installed in conformity to the latest standard of IEC or approved local standard. Equivalent items must be brought for approval before use</u>			
13.00	200w IP65 floodlight including 50 watt dusk to dawn photocell controlled floodlight installation and connection to surface	No	10	
Total carried down to summary				
<u>SUMMARY</u>				
1.00	Sub-total from Pg 2			
TOTAL CARRIED TO GRAND SUMMARY				

BILLS OF QUANTITY FOR RENOVATIONS AT LUNGALUNGA OSBP

Item	Description	Unit	Qty	Rate	Amount
JOC BUILDING					
	Paintwork				
	<i>Paint color code shall be provided by KRA team on site: The contractor to allow for all scaffolding necessary:</i>				
	<i>Scrape off all existing coats of paint and grind/ rub down existing rough-cast wall finish and ensure smooth surface to receive new paintwork using appropriate tools: sand to remove all loose particles: clean surfaces</i>				
	<i>Prepare and apply one coat Acrylic Sealer Undercoat and two finishing coats 1st grade 'Crown Ultraquard' acrylic emulsion extreme exterior paint: from 'Crown paints solo' or equal and approved: on masonry and/or concrete surfaces: NOTE: All surfaces must be dry before paintwork;</i>				
1.00	External Walls	Sm	407		
	<i>Sand and clean surfaces: apply one coat skimming compound (where necessary) as 'Wall Magic' or equal and approved: apply ONE coat "crown" Cover Matt and three coats plastic emulsion paint: from "Crown" or equal approved" on; Allow for scaffolding where necessary</i>				
2.00	Internal walls	Sm	300		
	<i>Wire brush and scrape to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of super gloss paint or other equal and approved anti-rust/ corrosive treatment to metal work surfaces; Surfaces of railings/grilles- measured flat overall; Repair and apply glass putty as 'Crown metal putty' :</i>				
3.00	Metalic box gutters & Downpipes	Sm	42		
4.00	Steel window encasement & Bulgarproof grille	Sm	25		
	Flagposts	Sm	4		
	<i>Sand off and clean to remove all possible loose, chalking and flaking material, prepare and apply one undercoat and two finishings coats of First Quality Super Gloss paint/Polyurethane vanish where applicable; to</i>				
5.00	General wood surfaces	Sm	29		
	Window Film				
	<i>Supply and install 3M one way solar control window film/ tint to windows or equal and approved: A sample film shall be submitted for approval : as per Architect's specification</i>				
6.00	Aluminium encasement window panes	Sm	31		
7.00	Allow for repair of PVC ceiling; Demolitions and replacement of PVC panels fixed on existing brandering; Rate includes fixing screws, hangers, supports, adhesives, and molded cornice to match existing; Scaffolding where necessary	Sm	20		

	Floor Cleaning			
8.00	<p>Deep cleaning of terrazzo including all tools & tackles, cleaning machines, chemicals, and other related consumables, all complete as per direction of PM. The cleaning shall consist following operations:</p> <p>(i)Removal of dirt & dusts using heavy duty vacuum cleaner (ii)Removal of sticky & rigid stains using high quality scrubbing pad & environment friendly heavy duty floor cleaner (iii)Scrubbing of terrazzo with single disc machine with a right mix of scrubbing brush, scrubbing pads (high quality); hand held mechanized scrubber for narrow or intricate areas using safe, gentle & environment friendly chemicals. (iv)Removal of dirty water & slurry mud from above operations using vacuum cleaner. (v)Polish and scrub with diamond grit where necessary (vi)Repair of terrazzo as directed by the PM.</p>	Sm	48	
	Electrical Installations			
	<u>Supply and install the following items to be installed in conformity to the latest standard of IEC or approved local standard. Equivalent items must be brought for approval before use</u>			
9.00	200w IP65 floodlight including 50 watt dusk to dawn photocell controlled floodlight installation and connection to surface	No	8	
	<u>The following lighting fixtures to be complete with the LED drivers and complete fitting</u>			
10.00	600x600mm panel lights; surface	No	4	
	Mazeras Drain			
11.00	Allow for demolitions and cart away from site; supply and fix mazeras stone pitching (approx. 150mm - 200mm thick) to channel sides and inverts, set to line and level on mortar bedding onto compacted 150mm murrum base/bed; Grout all voids and joints of mazeras stone pitching with 1:4 cement: sand mortar, finished flush and swept clean(rate includes mortar for siding); Allow for curing of all concrete and mortar works for a minimum of 7 days by sprinkling with water	Sm	200	
	Total carried down to summary			
SUMMARY				
1.00	Sub-total from Pg 2			-
	TOTAL CARRIED TO GRAND SUMMARY			-

GRAND SUMMARY PAGE

1.00	Sub-Total from Main admin block				-
2.00	Sub-Total from K9 dog kennel				-
3.00	Sub-Total from Ablution block				-
4.00	Sub-Total from Gates				-
5.00	Sub-Total from Incinerator				-
6.00	Sub-Total from Warehouse				-
7.00	Sub-Total from Verification Building				-
8.00	Sub-Total from JOC Building				-
	Total 1				-
	Add 10% contingency (sub - total 1 x 0.1)				-
9.00	Total 2 (Total 1 + contingency)				-
	Add 16% VAT (Total 2 x 0.16)				-
10.00	GRAND TOTAL (Total 2 +VAT)				-