

## **REFURBISHMENT OF LYNROSS STATION**

**Nov-25**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 1</u></b>				
	<b><u>BILL NO.1</u></b>				
	<b><u>ALTERATIONS</u></b>				
	<b><u>REMOVAL OF EXISTING WORK</u></b>				
	Hacking up/off and removing ceramic and porcelain tiles, including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc:				
1	Tiles to floors	m²	30.00		
2	Tiles to walls	m²	130.00		
3	Tile skirtings 75mm high	m	100.00		
	<b><u>BUILDING UP OPENINGS</u></b>				
	Brickwork in NFP bricks in class II mortar in building up openings:				
7	One brick walls	m²	20.00		
	<b><u>GENERAL REPAIRWORK</u></b>				
	Repairwork to existing brick walls:				
8	Water-jetting surfaces of existing facebrick walls with high pressure low-volume water jetting lance to remove all dirt, brushing down and washing to remove surface contamination, mould, fungus, damp and treating with two coats of anti-fungal wash and leaving perfectly clean on completion	m²	138.00		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO.2</u></b></p> <p><b><u>RAINWATER GOODS</u></b></p> <p><b><u>Commercial and industrial Square profile Chromadek seamless gutters, 0,9mm thick coated internally and externally in colour Fish Eagle White including cut and mitred angles covered with a mitre strip externally, stop ends riveted and all sealed on the inside with Dow Corning 813 silicone sealer, secured to fibre cement fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled rivets, including a 50 x 20mm high overflow spigot, with 0,6mm thick Chromadek downpipes in colour Fish eagle White fixed to wall with straps at 1500mm centres using nail plugs,with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows,shoes etc.</u></b></p>				
1	125x85x0.6mm Eaves gutters	m	68.00		
2	Extra over eaves gutter for stopped end	No	8.00		
3	Extra over eaves gutter for outlet for 100x75mm pipe	No	4.00		
4	100x75mm Rainwater pipe	m	12.00		
5	Extra over rainwater pipe for shoe	No	4.00		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 1</u></b>				
	<b><u>BILL NO.3</u></b>				
	<b><u>CARPENTRY AND JOINERY</u></b>				
	<b><u>DOORS, ETC</u></b>				
	<b>Internal wooden doors</b>				
1	40mm Door 813 x 2032mm high	No	4.00		
	<b>External wooden doors</b>				
2	Door size overall 900 x 2100mm high.	No	6.00		
	<b><u>CUPBOARDS, ETC</u></b>				
	<b>SUPPLEMENTARY PREAMBLES</b>				
	<b>General:</b>				
	The following cupboard fittings have been given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc Prices are to include for all necessary filler pieces against walls, etc				
	<b>Kitchen cupboards etc</b>				
3	Floor cupboard with rustenburg granite top	No	1.00		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 1</u></b>				
	<b><u>BILL NO.4</u></b>				
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>				
	<b><u>NAILED-UP CEILINGS</u></b>				
	<b>6,4mm Gypsum plasterboard with H-profile galvanised steel jointing strips:</b>				
1	Ceilings including 38 x 50mm SA Pine battens at 400mm centres and cross battens at 400mm centres	m <sup>2</sup>	204.00		
2	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm SA Pine rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	2.00		
	<b>Gypsum plasterboard cornices:</b>				
3	75mm Coved cornices	m	100.00		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 1</u></b>				
	<b><u>BILL NO.5</u></b>				
	<b><u>IRONMONGERY</u></b>				
	<b><u>HINGES, BOLTS, ETC.</u></b>				
	<b>Stainless steel:</b>				
1	100mm Butt hinges.	No	10.00		
	<b><u>LOCKS</u></b>				
2	Grade 304Stainless Steel indicator bolt (code: fixed to surface with matching stainless steel screws. To comply with SANS 4:2008	No	4.00		
3	Grade 304 Stainless steel Euro profile Mortice sash lock with reversible latch and deadbolt. Fore end to be stainless steel To comply with SANS 4:2008	No	6.00		
	<b><u>HANDLES</u></b>				
	<b>"Union Assa Abloy" or similar approved:</b>				
4	Grade 304 Stainless steel round D lever handle on a long backplate with a Euro profile cylinder opening. Fixing to door to be stainless steel male and female screws. To comply with SANS 4:2008	No	6.00		
	<b><u>SUNDRIES</u></b>				
	<b>"Union Assa Abloy" or similar approved:</b>				
5	Grade 304 Stainless Steel floor mounted door stop , plugged and screwed to floor with matching stainless steel screws. To comply with SANS 4:2008	No	10.00		
	<b><u>BATHROOM FITTINGS</u></b>				
6	Satin stainless steel toilet roll holders for 2 or 3 rolls with central shaft system and cylinder lock, plugged and screwed to the wall with stainless steel screws. (vandal resistant)	No	4.00		
7	Satin stainless steel sanitary towel disposal bins with capacity of min 10 litres, free standing or wall mounted (plugged and screwed to the wall with stainless steel screws)	No	2.00		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8	Supply and deliver Automatic towel dispenser with stainless steel screws and Fischer plugs (5 x 30mm): -100% Touch free operation -Made from Rust-resistant 1.2mm stainless steel with a brush finish -Suitable paper towel sizes (mm): -Min 240 x 85 -Ideal 190mm x 170mm -Size: L 300mm x D 134mm x H 305mm -Contractor is required to supply and deliver industrial batteries for all equipment	No	4.00		
9	Satin stainless steel soap dispensers with a replaceable and refillable 1 litre container, cylinder lock , plugged and screwed to the wall with stainless steel screws.	No	4.00		
10	Satin stainless steel waste disposal bins with capacity of plus minus 40 and with a frame inside the dispenser to hold a liner, plugged and the wall with stainless steel screws.	No	4.00		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 1</u></b>				
	<b><u>BILL NO.6</u></b>				
	<b><u>METALWORK</u></b>				
	<b><u>STEEL GATES, SCREENS, ETC</u></b>				
	<b>Epoxy coated welded screens and gates, to brickwork:</b>				
1	Single gate 860 x 2125mm high overall, including all ironmongery	No	4.00		
	<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
	<b>1,6mm Double rebated frames suitable for half brick walls:</b>				
2	Frame for door size 813 x 2032mm high	No	4.00		
	<b>1,6mm Double rebated frames suitable for one brick walls:</b>				
3	Frame for door size 813 x 2032mm high	No	6.00		
	<b><u>STEEL WINDOWS, DOORS, ETC</u></b>				
4	Window 900x 1200mm high	No	12.00		
5	Window 1500x 1200mm high	No	4.00		
	<b>Aluminium blinds</b>				
6	Heavy duty aluminium blinds (25mm) - corrosion-resistance and rigid to cover window size 1500 x 1200mm	No	4.00		



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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 1</u></b>				
	<b><u>BILL NO.8</u></b>				
	<b><u>TILING</u></b>				
	<b><u>WALL TILING</u></b>				
	<b>Porcelain tiles fixed with adhesive to plaster (plaster elsewhere) and flush pointing with and including waterproof grout:</b>				
1	300 x 600mm & 600x600mm Glazed/ polished Porcelain/Ceramic tiles with 3mm grouting lines. Wall edge / corners to be finished with Stainless Steel Square Edge trim. Matt or polished finish.	m <sup>2</sup>	130.00		
2	600 x 600mm & 300 x 600mm Glazed/ Porcelain/Ceramic tiles with 3mm grouting lines. Complete with stainless steel square edge trim. Matt finish.	m <sup>2</sup>	30.00		
	<b><u>FLOOR TILING</u></b>				
	<b>Porcelain tiles fixed with adhesive to screed (screed elsewhere) and flush pointing with and including waterproof grout:</b>				
3	300mm high Glazed polished Porcelain/Ceramic tiles with 3mm grouting lines. Wall edge / corners to be finished with Stainless Steel Square Edge trim. Matt or polished finish.	m <sup>2</sup>	30.00		
4	300mm high natural porcelain tile, bedded to wall with cement adhesive.	m <sup>2</sup>	174.00		
5	Skirting 100mm high (of fair cut tiles)	m	100.00		
	<b><u>SUNDRIES</u></b>				
	<b>Stainless steel corner protectors, stair nosings, expansion joint strips, etc:</b>				
6	12 x 30 x 3mm Angle section stainless steel tile bearer plugged horizontally to brickwork or concrete	m	60.00		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 1</u></b>				
	<b><u>BILL NO.9</u></b>				
	<b><u>PLUMBING AND DRAINAGE</u></b>				
	<b><u>SANITARY FITTINGS</u></b>				
1	Franke Projectline Model PLN611 Grade 304 18/10 polished stainless steel single end bowl inset sink (Code: 821047), overall size 800 x 460mm wide with one 340 x 370 x 150mm deep bowl, fitted onto cupboard (elsewhere specified) including 38mm waste fitting and PVC trap (trap elsewhere specified).	No	1.00		
2	Vaal Sanitaryware 565 x 275 x 310mm Sweetpea white vitreous china wall mounted back inlet urinal (code: 705127) including 38mm chromium plated domical grating (code: 878720) and chromium plated back inlet spreader (code: 705422), flush valve, flush pipe and fittings (by others), fixed on and including two hanger brackets (code: 812720).	No	4.00		
3	Gypsy Standard Universal Vandal Resistant WC, 390mm (w) x 480mm (d) x 410mm (h). Installation as per manufacturer's specification.	No	4.00		
4	Sloped Rustenburg Granite trough	No	2.00		
	<b><u>TAPS, VALVES, ETC</u></b>				
	<b>"Cobra Watertech" or similar approved:</b>				
5	Walcro - Self closing push button pillar tap, with non-hold open featur. Flow time 6 to 10 seconds. SANS 1808 - 9	No	8.00		
6	Cobra Watertech Ledimo or equal approved 15mm chrome plated wall mounted sink mixer with overarm swivel outlet, adjustable wall flanges and concealed connections (Code: LO-266-041-10), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	1.00		

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>GEYSERS ETC</u></b>				
	<b><u>Hydroboil</u></b>				
7	Kwikot or Franke ZIP approved 2,5 litre Stainless steel water boiler ,approximate size 275 x 165 x 365mm high with stainless steel tank, steam free boiling water, electronic controls, 15mm overflow, connected to 15mm cold water supply including isolating valve and 230 volt 1800 watt electrical power supply, plugged and screwed to wall and fitted under 1 year warranty.	No	1.00		
	<b>Water purifier</b>				
	5 Stage reverse Osmosis Water Purifier				
	<b>DIMENSIONS</b>				
	PURIFIER ALONE SIZE: 15CM(L) X 40CM(W) X54CM(H)				
	PRESSURE TANK SIZE: 28CM(L) X 28CM(W) X37CM(H)				
	BOX WEIGHT: 12KG				
	10 LITRES STEEL TANK				
	RO PIPE 5 METRES				
	CONNECTION FITTINGS, WATER SUPPLY CONNECTION				
	BLUE SHUT OFF VALVE				
8	LUXURY 3LEVER FAUCET SILVER	No	1.00		
	SEDIMENT 5 MICRON FILTER				
	GRANULE ACTIVATED CARBON FILTER				
	ACTIVATED CARBON FILTER				
	100 GPD MEMBRANE (400LITRES PER DAY)				
	TASTE AND ODOR FILTER				
	FILTER HOUSING SPANNER				
	INSTALLATION MANUAL				
	¼ TAP AND ¼ PIPE				
	COST TO INCLUDE A BOOSTER PUMP / PRESSURE READING VALVE				
	DEPENDING ON THE PRESSURE/ Two Pin Electrical plug and point				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO.11</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>PAINTWORK, ETC TO NEW WORK</u></b></p> <p><b><u>ON INTERNAL GYPSUM PLASTER SURFACES</u></b></p> <p>One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use, on:</p>				
1	Ceilings and beams	m <sup>2</sup>	204.00		
	<p><b><u>METAL SURFACES</u></b></p> <p>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel:</p>				
2	Door frames	m <sup>2</sup>	12.00		
3	Windows	m <sup>2</sup>	40.00		
4	Steel members and roof	m <sup>2</sup>	204.00		
	<p><b><u>ON WOOD SURFACES</u></b></p> <p>One coat primer, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on:</p>				
5	Doors	m <sup>2</sup>	38.00		
	<p><b><u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u></b></p> <p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p> <p>One coat superior quality acrylic emulsion paint for interior and exterior use, on work in sound condition:</p>				
6	Walls	m <sup>2</sup>	138.00		
	<p><b><u>ON METAL SURFACES</u></b></p> <p>One coat alkyd based universal undercoat and one coat superior quality universal enamel paint, on work in sound condition:</p>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7	Benches	m <sup>2</sup>	50.00		
8	Steel shade	m <sup>2</sup>	68.00		
9	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m <sup>2</sup>	30.00		

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 2</u></b>				
	<b><u>BILL NO.1</u></b>				
	<b><u>EXTERNAL WORK</u></b>				
	<b>PAINTWORK</b>				
	Prepare and apply tw coat white reflective road marking paint on bituminous road surfacing, precast concrete paving blocks, etc:				
1	1000mm Platform markings/lines	m	600.00		
	<b>STEELWORK</b>				
2	Steel litter bin size 400mm Ø x 750mm high / 72-litre capacity with steel ash tray, galvanised with a polyurethane paint.	No	2.00		
	<b>STEEL BALUSTRADES</b>				
3	Horizontal balustrades 1000mm high, comprising 90"° 48mm diameter x 4.0mm EJ90 stanchions spaced at 1400mm centres, with 38mm diameter x 2,5mm hand/knee rails, side mounted stanchions to be fitted with pre-drilled base plates for fixing to metal surface to embankments	m	30.00		
	<b>Total carried to summary</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 3</u></b>				
	<b><u>BILL NO.1</u></b>				
	<b><u>CIVIL WORK</u></b>				
1	Clear vegetation, rubble,boulders and cart away to spoil to a borrow pit as directed by Principal Agent	m <sup>2</sup>	700		
2	Pipe Jetting on existing pipes both water and sewer	No.	1		
3	Lay existing paving blocks (stored on site) (200 x 100 x 50) including soil poisoning/membrane to prevent vegetation from growing and also building sand to lock the paving. Rate should include layerworks, compaction etc	m <sup>2</sup>	50		
4	Supply, Install new welded pallisade fence (steel) as directed by the Principal Agent. Rate should include painting as prescribed in PRASA blue print	m	200		
5	Supply and install polymer concrete manhole covers	No.	8		
6	Supply and install new sliding gate for vehicles at the entrance of the station including sliding rod and locking mechanism	No.	1		
7	Supply and install new pedestrian gate,including connections, hinges etc to be installed on the bridge as directed by the Principal Agent	No.	2		
8	Supply. Install steel structure (verification point) to be installed on the bridge as directed by the Principal Agent. The rate shall include roof sheeting 0.58mm thick, trusses, H-steel columns, base plates, bolts & nuts. The structure to be chemically anchored on the bridge deck using 40 Mpa epoxy grout.	Sum	1	70,000.00	70,000.00
9	Supply, install and weld flat bars steel to the wall to close the old verification buildings (guard houses) as directed by the Principal Agent. This rate includes accessories such as bolts, nuts to join into the wall etc. This is to prevent intruders having access to the buildings	m	50		
10	Provisional sum for Plumbing and Sewer. Plumbing drainange including uPVC pipes, fittings, pressure pipe fittings copper pipes, pipes should be laid as per SABS 1200 L, medium pressure pipelines LD, Sewers LE and should be backfilled in accordance with SABS 1200 DB	Sum	1	50,000.00	50,000.00
11	Backfil open trenches and compact	m <sup>3</sup>	20		

12	Supply and install a non-shrinking grout 'Sika 212' or similar approved by the Principal Agent between the gaps of the coping blocks and between paving blocks and coping blocks	Sum	1	20,000.00	20,000.00
13	Supply, install and test 5000 litres Jojo tank or similar approved including compression fittings, bends, accessories, 50mm diameter uPVC pipes class 12 to run from the booster pump to the facilities on site as directed by the Principal Agent. The rate shall include excavations, compaction, formwork, reinforced concrete base with mesh wire (ref 617) to support the tank and chamfer all concrete edges	Sum	1	35,000.00	35,000.00
<b>Total carried to summary</b>					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO.1</u></b></p> <p><b><u>ELECTRICAL WORK</u></b></p> <p><b><u>PLATFORM/ AREA LIGHTING</u></b></p> <p><b><u>DISTRIBUTION BOARDS</u></b>  <b><u>Distribution boards complete with all MCBs, switchgear, accessories, sheet metal frames, sub-frames, busbars, terminals, wiring, conduit terminations, labelling, fixtures and fittings as specified, with all equipment fitted and equipped in factory all strictly as per schematic diagram.</u></b></p> <p><b><u>Main distribution boards</u></b>  Supply and install surface mounted mild steel electrical enclosure with the following specification:  • Dimension: 1100(H) x 940(W) x 250(D)  • Double Doors  • Colour: Orange  • 1 x MCCB &amp; 60W 1P 2.5kA SAMITE CLIP TRAY CBs  • Provision for gland plate and glands when requested  • Pre-fitted copper bus-bars  • Polycarbonate safety cover  • Fully numerically labelled with corresponding legend card  • Legend card holder on the interior of the door  • Enclosure Number card holder on  • Electrical Cabinet/Enclosure Danger Signage</p> <p>Construct a Brick Structure as per attached Annexure 3 Sketch. Key structural features shall entail Concrete foundation, double-brick wall, concrete slab roof, steel bandit door (and frame) with vandal proof locking mechanism, three sleeves for cable ways and electrical signage.</p> <p>SU1 Steel Flush mount DB with the following specification  • 1x 24-way samite or dinrail mount  • 482mm(H)X325mm(W)X150mm(D)  • Prefitted earth and neutral bar</p>	Each	1		
2		Each	1		
3		Each	3		

**BULK SUPPLY & RETICULATION****Supply, install and connect Armoured copper cables in trunking, conduit pipes and underground( Rate to include cables termination)**

High Voltage Cables (3 Phase Four Core Aerial Bundled Cable Aluminum PVC 6.35/11kV) - 25mm<sup>2</sup> with connecting equipment.

4		meter	75
	Price to include all accessories		
5	16mm <sup>2</sup> 4-core armoured copper cable	meter	350
6	16mm <sup>2</sup> 3-core armoured copper cable	meter	300
7	4mm <sup>2</sup> 3-core armoured copper cable	meter	100

**GLANDS AND SHROUDS****Supply, Install and connect Glands & shrouds for following cables**

8	16mm <sup>2</sup> 4-core armoured copper cable	Each	6
9	4mm <sup>2</sup> 4-core armoured copper cable	Each	2

**CONDUCTORS****Supply, install and connect 600/1000Volt PVC insulated stranded copper conductors drawn into conduits & power skirting**

10	1.5mm <sup>2</sup> house wire	meter	200
11	2.5mm <sup>2</sup> house wire	meter	200
12	2.5mm <sup>2</sup> Suffix Cable 2 conductors + Earth	meter	100

**Earth Wire**

13	supply and install 2.5mm <sup>2</sup> green&yellow earth wire	meter	200
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**ELECTRICAL CABLE MANAGEMENT****CONDUITS****Supply and install pipes including short lengths jointing sweeping bends,buses, locknuts, roundboxes**

14	20mm <sup>2</sup> steel galvanised pipe	meter	100
15	25mm <sup>2</sup> steel galvanised pipe	meter	50
16	50mm <sup>2</sup> steel galvanised pipe	meter	100
17	110mm <sup>2</sup> PVC pipe	meter	100

**Supply and Install steel powder coated walls boxes**

18	100mm X 100m blank cover plates	Each	5
19	100mm X 50m blank cover plates	Each	5
20	50mm X 50m blank cover plates	Each	5

**Supply and Install steel galvanised walls boxes**

21	100mm X 100m deep	Each	5
22	100mm X 50m deep	Each	5
23	50mm X 50m deep	Each	5

<b><u>SWITCH SOCKETS</u></b>			
<b><u>Supply, install and connect Steel switch sockets in flush mounted boxes complete with cover plates</u></b>			
24	16Amp normal single socket on the wall	Each	8
25	16Amp normal double socket on the wall	Each	4
<b><u>SWITCHES</u></b>			
<b><u>Supply, install and connect light switches in flush mounted boxes, complete with cover plates</u></b>			
26	16Amp 1-lever/ 1-way switch	Each	5
27	25Amp day/night light switch / photocell	Each	3
<b><u>ISOLATORS</u></b>			
<b><u>Supply, install and connect isolator sockets in flush mounted boxes complete with cover plates</u></b>			
28	30Amp single phase isolator	Each	3
<b><u>LUMINAIRES</u></b>			
<b><u>Supply, install and connect luminaires complete with LED tubes or lams</u></b>			
T8 LED fluorescent fittings complete with the following specification			
<ul style="list-style-type: none"> <li>• 2X18W LED tubes</li> <li>• Dust Proof</li> <li>• Demission: 1230(L)X52(W)X70(D) mm</li> <li>• Voltage: 220-250V / 50Hz</li> <li>• Protection: IP65 rated</li> </ul>			
29		Each	6
45W Bulkhead LED luminaire. Light fitting to be			
<ul style="list-style-type: none"> <li>• SABS Approved</li> <li>• Voltage: 220-250V / 50Hz</li> <li>• Protection: IP65 rated</li> <li>• 5year Maintenance Free Warrantee</li> </ul>			
30		Each	12
Round LED panel Ceiling Light complete with fittings			
<ul style="list-style-type: none"> <li>•Wattage: 25W LED</li> <li>•Colour: White</li> <li>•Input voltage: 220-250V /50Hz</li> <li>•Dimension: 300mm, 13mm</li> <li>•Hole size: 280mm</li> <li>•Protection: IP 12 rated</li> </ul>			
31		Each	10
side-entry LEDlume-max luminaire streetlights with the following spec.			
<ul style="list-style-type: none"> <li>• 128 LEDS</li> <li>• 700mA</li> <li>• 34460Lm output</li> <li>• 10Kv/10Ka surge protection</li> <li>• 280W-294W</li> <li>• IP66</li> <li>• 5years maintenance free warrantee</li> </ul>			
32		Each	15

**SWITCHGEARS****Supply , install and connect switchgears inside DB**

33	100Amp 3Phase CB	Each	1
34	80Amp 3Phase CB	Each	1
35	80Amp 1Phase CB	Each	2
36	63Amp 1Phase CB	Each	3
37	40Amp 1Phase CB	Each	6
38	30Amp 1Phase CB	Each	4
39	20Amp 1Phase CB	Each	6
40	15Amp 1Phase CB	Each	6
41	10Amp 1Phase CB	Each	12
42	30Amp 1Phase Earth leakage CB	Each	3
43	40A 1Phase 3Pole Contactor	Each	3

**TRENCHING AND EXCAVATIONS****Trenching must be: (600mm wide & 500mm deep)rate to include backfilling ,compacting ,re-tar or re-paving.**

44	natural soil.	m3	350
45	on paved area	m3	350

**HIGH-MAST POLES AND COMPONENTS****Supply and install steel galvanised mid-hinge high mast poles complete with foundation as per pole manufacture's specification**

46	12-meter high steel galvanised pole	Each	5
47	Supply and install steel galvanized one way-spigot	Each	7
48	Supply and install steel galvanized Two-way-spigot	Each	3
49	Supply and install steel galvanized Three-way-spigot	Each	1

**TRANSFORMER**

Supply, Install and commissioning of Distribution Power Transformer with the following specification:

50	Kilo Volt Ampere(kVA): 50 Voltage Ratios(kV):11/0.420KV Number of Phases: Three Phase Frequency:50Hz Impedance %:3.6 - 5 Type of cooling: Oil Natural Air Natural Vector Group: Dyn11	Each	1
51	Supply and Install 11kV Surge arrestors Supply and Install Porcelain cut out fuse complete with Base and Carrier with the following specifications:	Each	3
52	Fuse Tube:5-6A Rating:6.6/11kV Material: Porcelain	Each	3

53	Supply and install aluminium jumper cable 35mm <sup>2</sup> Supply and install Earth Rod with the following specification. •16mm diameter,1m length Copper bond Threaded Earth Rods with nuts.	meter	30		
54	•Provisions for Earth Rod Brass clamp with Bolt of the following dimensions: Height: 11.00mm Width: 25.00mm Weight: 38.20grams Depth: 45.00 mm Design, Supply, and Install Hot dipped Galvanized steel base plate structure with associated accessories with the following specifications:  •100(H)mmx50mm(L)x6mm thickness 1.2m long Galvanized steel channel. •100mmx50mmx6mm 1m long Galvanized steel angle •Vertical and Support Brackets must be bolded. •Hook bold of M16x22mm must be used. •Hook bold of M16x50mm must be used. •Hot dip Galvanized Steel Beam Clamp, fits channel size 21 x 41mm steel C clamp -Type 6 and 7. •M12 x30mm GS bold&nut with flat and spring washers. •M12 x210mm GS bold&nut with flat and spring washers. •M20X230mm Galvanized bold&Nuts with flat and spring washers. •Corrosion resistant, Fire and heat resistant, High UV radiation resistance, extremely tough and durable Stainless-steel strap of 19mm thickness with Buckles •Able to carry a weight of 450KG .  Note:100(H)(mmx50mm(L)x6mm thickness Hot Dip Galvanized Steel channel and angle may be assembled prior to erection on site (Provided the correct measurement has been utilized) Only bolts and Nuts will be used to fasten the structure to the Lattice steel Tower. The Transformer base must be bolted on to the designed Frame. Design, Supply and install surface mounted steel electrical lockable metal enclosure with chassis plate with following specs: •Width: 400mm •Depth: 70mm •Height: 250mm •Colour: orange •IP Rated:65 •Electrical Enclosure Danger Signage •Provision for glands and Lugs •Ground Screw •Locking mechanism to cater the use of Padlock	Each	2		
55		Each	1		
56		Each	1		



<b><u>Water Booster Pump</u></b>						
Supply, Install and commissioning of water booster pump with the following specification:						
57	•Peripheral Pump	Each	1			
	•Voltage: 230V/50Hz					
	•Input Power: 2.2kW					
	•Max. Head: 55M					
	•Max. Flow: 150 L/Min					
	•Max Operating Pressure: 8 bar					
•Water booster Pump with Automatic controller						
Supply and install Isolator Switch 30Amp with Weatherproof Box						
58	•30A double pole switch	Each	1			
	•50mm x 100mm					
	•PVC wall box					
	•SABS approve					
<b><u>HVAC</u></b>						
Supply,install and commisioning air conditioner Mid wall split unit (heating & cooling) rate to include outdoor and indoor unit and all accessories						
59	12 000 BTU ductless inverter air-conditioning unit	Each	1			
Supply and install air-conditioner steel cage complete with wire-mesh with the following spec						
60	•Demission: 0.865X1.536X1.361m	Each	1			
	•Colour: black					
	•Locking to cater for the use of padlock and also provide padlock					
<b><u>Earthing</u></b>						
Earthng of all building to comply with the letest SANS1 0142 code of practice for the wiring of premises as amended.Bonding of all hot,cold and waste pipe complete with 12.5mm x 1mm thick soli or perforated copper tape including fixings, brass screws,nuts, washers. also include for earth mat with earth spikes.						
61		sum	1	40,000.00	40,000.00	
<b><u>TESTING AND COMMISSIONING</u></b>						
Inspection,testing and handing over of the complete installation in the presence of the engineer and certify the results on the certificate of compliance by accredited person.						
62		sum	1	10,000.00	10,000.00	
<b>Total carried to summary</b>						

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>SECTION NO. 5</u></b>				
	<b><u>BILL NO.1</u></b>				
	<b><u>PROVISIONAL SUMS</u></b>				
	<b>FIRE PROTECTION SERVICES</b>				
1	Allow a sum of Twenty Thousand Rand ( R20 000.00) for Fire Protection Services	Item	1.00	20,000.00	20,000.00
2	Provide for profit		%		
3	Provide for attendance		%		
	<b>SIGNAGE</b>				
4	Allow a sum of One Hundred Thousand Rand (R100 000.00) for Signage	Item	1.00	100,000.00	100,000.00
5	Provide for profit		%		
6	Provide for attendance		%		
	<b>COMMUNITY LIASON OFFICER</b>				
7	Allow a sum of Ninety Thousand Rand ( R90 000.00)for Community Liason Officer	Item	1.00	90,000.00	90,000.00
8	Provide for profit		%		
9	Provide for attendance		%		
	<b>ROOF STRUCTURE</b>				
10	Allow a sum of Fifty Thousand Rand (R50 000.00) for Inspection and Fixing of Roof Stucture	Item	1.00	50,000.00	50,000.00
11	Provide for profit		%		
12	Provide for attendance		%		
	<b>EMU PAINTING</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
13	Allow a sum of Twenty Thousand Rand (R20 000.00) for painting of EMU train markings	Item	1.00	20,000.00	20,000.00
14	Provide for profit		%		
15	Provide for attendance		%		
	<b>TRIPPING HAZARDS</b>				
16	Allow a sum of Thirty Thousand Rand (R30 000.00) for the removal of tripping hazards	Item	1.00	30,000.00	30,000.00
17	Provide for profit		%		
18	Provide for attendance		%		
	<b>Total carried to summary</b>				

SECTION NO	DESCRIPTION		AMOUNT
	<b><u>FINAL SUMMARY</u></b>		
1	General Building Works		
2	External Works		
3	Civil work		
4	Electrical Work		
5	Provisional Sums		
	Sub Total (A)		
	<b>PRELIMINARIES</b>		
	Allow for preliminaries		
	Sub Total (B)		
	<b>CONTINGENCIES</b>		
	Allow the sum of 10% (ten percent) of the above sub total for Contingencies to be spent as the Principal Agent may direct and to be deducted in whole or in part if not required	10.00%	
	Sub Total (C)		
	<b>VALUE ADDED TAX</b>		
	Value Added Tax [15%]	15.00%	
	<b>Total amount carried to Form of Offer</b>		