

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF 10no. MARKET STALLS RENOVATION OF  
FLOODLIGHT IN KWALE COUNTY (ALL PROVISIONAL)**

| Item | Description                                                                                                                                                                                                                                                                                                                                                                                            | Qty | Unit |  |  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <b>PRELIMINARIES</b>                                                                                                                                                                                                                                                                                                                                                                                   |     |      |  |  |
| A    | <b><u>Site</u></b><br>The proposed Works will be at<br>..... ward, in Kwale<br>County.                                                                                                                                                                                                                                                                                                                 |     |      |  |  |
| B    | <b><u>Scope of the works.</u></b><br><b><u>The works involve construction of Market stalls</u></b><br>The major work to be carried out under this contract<br>include the following:<br>1. Excavation & Earthworks including fillings<br>2. Waterproofing.<br>3. Concrete works<br>4. Reinforcement<br>5. Formwork.<br>6. Walling.<br>7. Roofing.<br>8. Doors<br>9. Finishes.<br>10. Electrical works. |     |      |  |  |
| C    | <b><u>Sign Board</u></b><br>Allow for providing, erecting, maintaining throughout<br>the course of the contract and afterwards clearing away<br>a signboard as designed, specified and approved by the<br>Project Manager.                                                                                                                                                                             | 1   | ITEM |  |  |
| D    | <b><u>Temporary building.</u></b><br>The Contractor must provide for a temporary building<br>required for the storage of materials and clear it away<br>on completion of the works to the satisfaction of the<br>client.                                                                                                                                                                               | 1   | ITEM |  |  |
| E    | Allow for drawing the County logo and text reading<br>"KWALE COUNTY GOVERNMENT" and the name of<br>the FINANCIAL YEAR on both sides of the rendered and<br>painted gable wall surfaces of the Market stalls                                                                                                                                                                                            | 1   | ITEM |  |  |
|      | <b>TOTAL PRELIMINARIES CARRIED TO GRAND<br/>SUMMARY</b>                                                                                                                                                                                                                                                                                                                                                |     |      |  |  |

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| Item | Description                                                                                                       | Qty | Unit |  |  |
|------|-------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <b><u>SUBSTRUCTURE</u></b>                                                                                        |     |      |  |  |
|      | <b><u>Site Preparation</u></b>                                                                                    |     |      |  |  |
| A    | Clear site of shrubs,grass,small trees girth not exceeding 600mm and grub roots and remove from site as directed. | 157 | SM   |  |  |
| B    | Excavate oversite average 150mm deep to remove top vegetable soil and spread on site as directed                  | 157 | SM   |  |  |
| C    | Excavate trenches for wall foundation commencing from reduced level but not exceeding 1.5m deep.                  | 132 | CM   |  |  |
| D    | Extra over all excavations for excavating in rock                                                                 | 53  | CM   |  |  |
|      | <b><u>Disposal of excavated materials</u></b>                                                                     |     |      |  |  |
| E    | Backfill and compact selected excavated materials                                                                 | 73  | CM   |  |  |
| F    | Remove surplus excavated materials from site                                                                      | 59  | CM   |  |  |
|      | <b><u>Disposal of water</u></b>                                                                                   |     |      |  |  |
| G    | Keep trenches free from general water                                                                             | 1   | Item |  |  |
|      | <b><u>Planking and strutting</u></b>                                                                              |     |      |  |  |
| H    | Allow for all necessary earthwork support to sides of foundation trenches                                         | 1   | Item |  |  |
|      | <b><u>Fillings</u></b>                                                                                            |     |      |  |  |
| J    | 300mm thick approved handpacked hardcore filling spread, levelled and compacted in 150mm layers.                  | 45  | CM   |  |  |
| K    | Gladiator T.C.L or any other equal and approved chemical anti-termite treatment to sub soil or filling            | 157 | SM   |  |  |
| L    | 500 gauge polythene sheeting in damp proof membrane over murrum blinding (measured seperately)                    | 157 | SM   |  |  |
| M    | 50mm thick fillings as blinding to hardcore levelled and compacted                                                | 157 | SM   |  |  |
|      | <b><u>Insitu Plain Concrete mix 1:3:6 in:</u></b>                                                                 |     |      |  |  |
| N    | 50mm thick concrete blinding under strip foundations                                                              | 88  | SM   |  |  |
|      | <b><u>Carried Forward</u></b>                                                                                     |     |      |  |  |

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| Item | Description                                                                                                                                                                     | Qty | Unit |  |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <u>Brought Forward</u>                                                                                                                                                          |     |      |  |  |
|      | <u>In situ vibrated reinforced concrete mix 1:2:4 in</u>                                                                                                                        |     |      |  |  |
| A    | 200mm thick strip foundations                                                                                                                                                   | 18  | CM   |  |  |
| B    | Columns                                                                                                                                                                         | 1   | CM   |  |  |
| C    | 150mm thick floor beds                                                                                                                                                          | 157 | SM   |  |  |
|      | <u>High yield square twisted reinforcement including cutting to lengths, bending, twisting and fixing including all necessary tying wires and spacing blocks to B.S. 4461:-</u> |     |      |  |  |
| D    | 8mm bars                                                                                                                                                                        | 208 | KG   |  |  |
| E    | 10mm bars                                                                                                                                                                       | 358 | KG   |  |  |
|      | <u>Mesh fabric reinforcement to BS 4483: Square mesh reference A142: weighing 2.22kilogrammes per square metre</u>                                                              |     |      |  |  |
| F    | In beds 200mm laps                                                                                                                                                              | 157 | SM   |  |  |
|      | <u>Formwork to:</u>                                                                                                                                                             |     |      |  |  |
| G    | Edges of strip footing                                                                                                                                                          | 59  | SM   |  |  |
| H    | Vertical edges of beds over 75mm but not exceeding 150mm wide.                                                                                                                  | 42  | LM   |  |  |
|      | <u>Machine cut natural stones bedded in cement sand mortar (1:4) including hoop iron in every alternate course</u>                                                              |     |      |  |  |
| J    | 200mm walls                                                                                                                                                                     | 184 | SM   |  |  |
|      | <u>Bituminous felt damp proof courses bedded in cement sand mortar (1:4) :300mm laps:-</u>                                                                                      |     |      |  |  |
| K    | 200mm wide horizontal                                                                                                                                                           | 80  | LM   |  |  |
|      | <u>12mm cement sand (1:4) render: Steel trowelled on concrete or stonework to</u>                                                                                               |     |      |  |  |
| L    | Plinths                                                                                                                                                                         | 33  | SM   |  |  |
|      | <u>Prepare and apply two coats bituminous paint on render to:-</u>                                                                                                              |     |      |  |  |
| M    | Plinth                                                                                                                                                                          | 33  | SM   |  |  |
|      | <b>TOTAL FOR SUBSTRUCTURE WORKS CARRIED TO SUMMARY</b>                                                                                                                          |     |      |  |  |

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| Item | Description                                                                                                                                                                    | Qty | Unit |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
|      | <b>VIBRATED REINFORCED SUPERSTRUCTURE</b>                                                                                                                                      |     |      |
|      | <u>Insitu vibrated reinforced concrete mix 1:2:4 grade 20 as described in :-</u>                                                                                               |     |      |
| 1.0  | Ring Beams                                                                                                                                                                     | 9   | CM   |
| 1.0  | Columns                                                                                                                                                                        | 3   | CM   |
|      | <u>High yield square twisted reinforcement including cutting to lengths,bending,twisting and fixing ,including all necessary tying wires and spacing blocks to B.S. 4461:-</u> |     |      |
| 2.0  | 8mm bars                                                                                                                                                                       | 363 | KG   |
| 3.0  | 10mm bars                                                                                                                                                                      | 424 | KG   |
|      | <u>Formwork</u>                                                                                                                                                                |     |      |
|      | <u>Sawn softwood formwork to in-situ concrete as described:-</u>                                                                                                               |     |      |
| 4.0  | Vertical sides and soffites of beams                                                                                                                                           | 90  | SM   |
| 4.0  | Vertical sides of columns                                                                                                                                                      | 32  | SM   |
|      | TOTAL FOR VIBRATED REINFORCED CONCRETE<br>SUPERSTRUCTURE CARRIED TO SUMMARY                                                                                                    |     |      |

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|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <b><u>WALLING SUPERSTRUCTURE</u></b><br><br><b><u>Machine cut walling</u></b><br><br>200mm thick machine cut coral block walling bedded and jointed in cement and sand mortar mix 1:3 with 20mm wide hoop iron reinforcement at every alternate course | 291 | SM   |  |  |
|      | <b>TOTAL FOR WALLING CARRIED TO SUMMARY</b>                                                                                                                                                                                                            |     |      |  |  |

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| Item | Description                                                                                                                                              | Qty | Unit |  |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <b>ROOFING<br/>CARPENTRY</b><br><u>The following in sawn celcured cypress</u>                                                                            |     |      |  |  |
| A    | 100 x 50mm rafters                                                                                                                                       | 114 | LM   |  |  |
| B    | 100 x 50mm tie beams                                                                                                                                     | 97  | LM   |  |  |
| C    | 100 x 50mm ties and struts                                                                                                                               | 131 | LM   |  |  |
| D    | 75 x 50mm purlins                                                                                                                                        | 128 | LM   |  |  |
| E    | 100x 50mm wall plates bolted to ring beam at 1.5m centres                                                                                                | 96  | LM   |  |  |
| F    | 100 x 50mm King posts                                                                                                                                    | 76  | LM   |  |  |
|      | <b>Roof Covering</b><br><u>Galvanized corrugated sheet roofing; 28 gauges; pre-painted.</u>                                                              |     |      |  |  |
| G    | 28 gauge pre-painted IT4 box profiled sheets nailed to purlins                                                                                           | 180 | SM   |  |  |
|      | <b>Aluminium Flashing Plate</b>                                                                                                                          |     |      |  |  |
| H    | Aluminium Flashing Flat Plate for waterproofing well fixed to wall roof joints to arch`s details                                                         | 42  | LM   |  |  |
|      | <b>WROT CYPRESS</b>                                                                                                                                      |     |      |  |  |
| J    | 225x25mm fascia and bardge board                                                                                                                         | 32  | LM   |  |  |
|      | <u>Knot, prime,Stop and Prepare and apply three coats white brilliant gloss oil paint on:-</u>                                                           |     |      |  |  |
| K    | Timber surfacs over 200 mm but not exceeding 300mm girth                                                                                                 | 32  | LM   |  |  |
|      | <b>RAINWATER HARVEST</b>                                                                                                                                 |     |      |  |  |
| L    | Supplying & fixing of PVC square eave gutters of cross section 200mm x 200mm or as specified, including all necessary accessories, as per drawings       | 25  | LM   |  |  |
| M    | Supplying & fixing of 110 dia PVC rain water down pipes with metal straps to concrete block work as per detailed on Drawing at 1000mm centres vertically | 6   | NO   |  |  |
| N    | Extra over guiter for outlets                                                                                                                            | 2   | NO   |  |  |
|      | <b>UPVC CYLINDRICAL TANKS VERTICAL</b><br>(Diameter x Ht) as Roto or equally approved                                                                    |     |      |  |  |
| P    | 10,000Litrs 2400 x 2800mm                                                                                                                                | 1   | NO   |  |  |
|      | <b>Water pump cage</b>                                                                                                                                   |     |      |  |  |
| Q    | Lockable steel cage measuring 500mm x 500mm x 550mm including a padlock                                                                                  | 1   | NO   |  |  |
|      | <b>BRASS BIB TAPS AS "PEGLAR" OR ANY OTHER APPROVED</b>                                                                                                  |     |      |  |  |
| Q    | 19mm Diameter                                                                                                                                            | 1   | NO   |  |  |
|      | <b>TOTAL FOR ROOFING CARRIED TO SUMMARY</b>                                                                                                              |     |      |  |  |

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| Item                               | Description                                                                                                                                                                                                                                                           | Qty | Unit |  |  |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
| A                                  | <u>Doors</u><br><u>Steel Roller Shutter Doors</u><br>Supply, Fabricate and fixing mechanically operated mild steel roller shutter doors size 2400mm x 2700mm over all size comprising louvered effect surface, 40 mm minimum visible thickness including all fittings | 10  | No   |  |  |
| TOTAL FOR DOORS CARRIED TO SUMMARY |                                                                                                                                                                                                                                                                       |     |      |  |  |

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|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <b><u>FINISHES</u></b>                                                                                                                                                                                                                          |     |      |  |  |
|      | <b><u>Floor finishes</u></b>                                                                                                                                                                                                                    |     |      |  |  |
| A    | 40mm thick cement and sand screed bed mix 1:3 finished smooth with steel trowel including 100mm high skirting.                                                                                                                                  | 157 | SM   |  |  |
| B    | 8mm thick non-slip ceramic "SAJ" tiles size 300mm x 300mm laid with 2mm spacers using tile adhesive Type 101 as manufactured by Athi River Mining Ltd,including pointing in matching anti-fungal coloured cement including 100mm high skirting. | 157 | SM   |  |  |
|      | <b><u>Interior surfaces</u></b>                                                                                                                                                                                                                 |     |      |  |  |
|      | <b><u>Wall and Concrete surfaces</u></b>                                                                                                                                                                                                        |     |      |  |  |
| C    | 15mm thick cement and sand plaster(1:4) plaster to internal wall and concrete surfaces finished smooth with steel trowel                                                                                                                        | 770 | SM   |  |  |
|      | <b><u>Mazeras Tile Cladding</u></b>                                                                                                                                                                                                             |     |      |  |  |
| D    | 30mm thick Mazeras Tile cladding to arch`s details                                                                                                                                                                                              | 21  | SM   |  |  |
|      | <b><u>PAINTING AND DECORATION</u></b>                                                                                                                                                                                                           |     |      |  |  |
| E    | Prepare and apply one coat of penetrating primer and two finishing coats of Weatherguard paint on plastered wall surfaces                                                                                                                       | 770 | SM   |  |  |
|      | <b><u>CEILING FINISHES</u></b>                                                                                                                                                                                                                  |     |      |  |  |
| F    | 12mm thick Plywood ceiling fixed to 50 x 50mm sawn cypress brandering(ms) at 600m centers both directions fixed with clout headed nails.                                                                                                        | 148 | SM   |  |  |
|      | <b><u>Cornices</u></b>                                                                                                                                                                                                                          |     |      |  |  |
| G    | Prime grade wrot cypress timber selected and kept clean 75 x 25mm cornice with two labours, together with center pulps                                                                                                                          | 464 | LM   |  |  |
|      | <b><u>Beadings</u></b>                                                                                                                                                                                                                          |     |      |  |  |
| H    | Prime grade wrot cypress timber selected and kept clean 50 x 25mm beadings with two labours to conceal joints between ceiling boards                                                                                                            | 220 | LM   |  |  |
|      | <b><u>Branderings</u></b>                                                                                                                                                                                                                       |     |      |  |  |
|      | <b><u>Sawn cypress</u></b>                                                                                                                                                                                                                      |     |      |  |  |
| J    | 50 x 50mm sawn cypress brandering nailed to tie beams                                                                                                                                                                                           | 569 | LM   |  |  |
|      | <b>Carried Forward</b>                                                                                                                                                                                                                          |     |      |  |  |

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| Item | Description                                                                                                                                 | Qty | Unit |
|------|---------------------------------------------------------------------------------------------------------------------------------------------|-----|------|
|      | <b>Brought Forward</b>                                                                                                                      |     |      |
|      | <b><u>Painting and decoration</u></b><br><b><u>Prepare and apply one undercoat and two finishing coats plastic emulsion paint on :-</u></b> |     |      |
| A    | Chipboard surfaces                                                                                                                          | 148 | SM   |
| B    | Extra for forming trap door with cypress framingsize<br>600x600mm                                                                           |     |      |
|      | <b><u>Knot.Prime.Stop. prepare and apply three coats first quality emulsion paint to:-</u></b>                                              |     |      |
| C    | Timber surfaces not exceeding 100mm girth                                                                                                   | 87  | LM   |
|      | <b>Paving Slab</b>                                                                                                                          |     |      |
| D    | 100mm thick murrum fill well watered and compacted to 95% MDD                                                                               | 44  | SM   |
| E    | 60mm thick precast concrete slabs laid and jointed in cement sand mortar mix 1:3                                                            | 44  | SM   |
|      | TOTAL FOR FINISHES CARRIED TO SUMMARY                                                                                                       |     |      |

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| Item | Description                                                                                                                                           | Qty | Unit |  |  |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <b><u>CONSTRUCTION OF TANK BASE</u></b><br><b><u>The following in 1No.Tank platform(Base),3500mm diameter x 400mm high</u></b>                        |     |      |  |  |
| A    | Excavate oversite average 150mm deep,wheel and depost on site as directed.                                                                            | 10  | SM   |  |  |
| B    | Excavate for foundation trench not exceeeding 1.5m from the ground level                                                                              | 10  | CM   |  |  |
| C    | Return,fill and ram well selected excavated materials.                                                                                                | 4   | CM   |  |  |
| D    | Load and cart away surplus excavated materials                                                                                                        | 5   | CM   |  |  |
| E    | 300mm thick hardcore layer compacted in 2 layers and blinded with murram (m.s)                                                                        | 3   | CM   |  |  |
| F    | 50mm thick murram blinding.                                                                                                                           | 10  | SM   |  |  |
| G    | 50mm thick weak concrete blinding under strip foundations                                                                                             | 7   | SM   |  |  |
|      | <b><u>Vibrated reinforced concrete (1:2:4) -20mm aggregate</u></b>                                                                                    |     |      |  |  |
| H    | 200mm thick foundation concrete                                                                                                                       | 1   | CM   |  |  |
| J    | 150mm thick floor surface bed                                                                                                                         | 10  | SM   |  |  |
|      | <b><u>Steel Reinforcement</u></b><br><b><u>Steel bars cut and bent as required including short joining lengths,binding wire and spacer blocks</u></b> |     |      |  |  |
| K    | Y8 longitudinal bars in strip footings                                                                                                                | 13  | KG   |  |  |
| L    | Y10 cross (main) bars in strip foundation footing                                                                                                     | 22  | KG   |  |  |
|      | <b><u>Sawn softwood formwork to:-</u></b>                                                                                                             |     |      |  |  |
| M    | Sides of floor bed 150mm to 225mm high                                                                                                                | 11  | LM   |  |  |
|      | <b><u>Solid coral block walling in cement sand mortar (1:4)</u></b>                                                                                   |     |      |  |  |
| N    | 200mm thick machine cut coral block walling                                                                                                           | 4   | SM   |  |  |
| P    | 12mm cement sand (1:4) render trowelled smooth                                                                                                        | 4   | SM   |  |  |
|      | <b><u>Platform finishes</u></b>                                                                                                                       |     |      |  |  |
| Q    | 25mm thick cement sand plaster to sides and top of platform                                                                                           | 12  | SM   |  |  |
|      | <b><u>TOTAL FOR ELEMENT NO.11: CONSTRUCTION OF TANK BASE CARRIED TO SUMMARY</u></b>                                                                   |     |      |  |  |

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| Item | Description                                                                                                                                                                                                                                                                                  | Qty | Unit |  |  |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <b>ELECTRICAL INSTALLATION</b>                                                                                                                                                                                                                                                               |     |      |  |  |
|      | <b>Supply,install,test and commission the following:-</b>                                                                                                                                                                                                                                    |     |      |  |  |
| 1.0  | <b><u>Lighting points.</u></b><br>Lighting points wired with 3 x 1.5mm <sup>2</sup> single core PVC copper cables drawn in concealed 20mm diameter HG PVC conduit clipped to roof members with all the necessary accessories excluding the switches and luminaires for;<br>One way switching | 20  | No.  |  |  |
| 1.2  | <b><u>SWITCHING</u></b><br>10Amps,moulded plate flush mounted switches with screw covers,as CLIPSAL,BG or approved equivalent being:-<br>c) 3 gang 2 way                                                                                                                                     | 10  | NO   |  |  |
| 1.3  | <b><u>Lighting fittings.</u></b><br><br>Lighting fittings complete with <b>ES</b> lamps of appropriate wattage and colour rendering and fixing materials as follows:<br>a) 1200, 1 x 36 Watts batten fluorescent fitting as FITZGERALD, THORN or approved equivalent ( <b>TYPE B1</b> )      | 20  | NO   |  |  |
|      | Philips Solar Security Light Outdoor, Solar-Powered Waterproof Wall-Mounted Flood Light ,IP65 Waterproof,or approved equivalent                                                                                                                                                              | 8   | NO   |  |  |
| 1.5  | <b><u>ELECTRICAL SWEEP FAN</u></b><br>Ceilling fan point wired with 3 x 1.5mm <sup>2</sup> SC - CU cables drawn in pvc conduits and to include all accessories but excluding the fan                                                                                                         | 10  | No   |  |  |
| a    |                                                                                                                                                                                                                                                                                              |     |      |  |  |
| b    | 240V-AC ceilling fan complete with 5 speed regulator as ORIENT - DE LUXE or an approved equivalent.                                                                                                                                                                                          | 10  | No   |  |  |
|      | <b><u>POWER POINTS</u></b><br>13Amps Power points wired ring comprising of 3 x 2.5mm sq. single core PVC copper cables drawn in concealed 25mm HG PVC conduits.                                                                                                                              | 20  | NO   |  |  |
| 4.0  |                                                                                                                                                                                                                                                                                              |     |      |  |  |
| 5.0  | 13Amps moulded plate switched socket outlet with neon indicator as BG,CLIPSAL or approved equivalent being:-<br>a) Twin                                                                                                                                                                      | 20  | NO   |  |  |
| 1.7  | Double pole switch for isolation                                                                                                                                                                                                                                                             | 10  | NO   |  |  |
|      | <b>Carried Forward</b>                                                                                                                                                                                                                                                                       |     |      |  |  |

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|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|--|--|
| 2.5  | <b><u>Brought Forward</u></b><br>Electrical Earthing comprising 6.0mm <sup>2</sup> Single core copper cables drawn in H/G Conduits 1500mm by 15mm diameter copper electrode complete with clamp and pre - cast concrete inspection pit with cover                                                                                                                                                                                                                                                                                                                                                          | 1        | ITEM     |  |  |
| 1.09 | <b>SUB-MAIN CIRCUITS</b><br>Circuit comprising 3 x 10mm <sup>2</sup> SC PVCI copper cables drawn in concealed 25mm diameter HG PVC conduits from meter box to each stall's consumer unit                                                                                                                                                                                                                                                                                                                                                                                                                   | 250      | LM       |  |  |
| 1.10 | <b>CONSUMER CONTROL UNITS</b><br>4Ways , 100Amps Flush mounted consumer control unit complete with 80Amps Integral SPN isolator with hinged cover as MEM,CRABTREE or approved equivalent.                                                                                                                                                                                                                                                                                                                                                                                                                  | 10       | NO       |  |  |
| 2.0  | <b><u>Mcbs for item 1.16 above being:-</u></b><br>a)10 Amps,SP<br>d)30Amps,SP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20<br>20 | NO<br>NO |  |  |
|      | Fabricate meter box made from gauge 14 galvanized steel sheets of size 200mmX700mmX800mm complete with bonding screws/bolt and viewing glass to accommodate 10 energy meters and other necessary accessories in regards to KPLC standards.                                                                                                                                                                                                                                                                                                                                                                 | 1        | No       |  |  |
| 11.0 | <b>POWER CONECTION</b><br>Allow for Kshs two hundred and fifty thousand fo 1. no.service line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1        | sum      |  |  |
| 13.0 | Allow a sum of kshs, 30,000 for sub-contractors charges for liaison with Kenya Power & Lighting Company comprising the following:-<br>i) Presenting power application details and getting reference number.<br>ii) Making regular follow-ups with Kenya Power & Lighting Company<br>iii) Facilitating inspection, approvals and certification by Kenya Power & Lighting Company<br>iv) Providing attendance and materials required for power connection.<br>v) Filling out and submitting Commencement and Completion certificates<br>vi) Performing all other services required for power supply to site. | 1        | item     |  |  |
|      | <b>TOTAL FOR ELECTRICAL INSTALLATION CARRIED TO GRAND SUMMARY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |          |  |  |

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF 10no. MARKET STALLS RENOVATION OF FLOODLIGHT IN KWALE COUNTY (ALL PROVISIONAL)**

[illegible]

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF 10no. MARKET STALLS RENOVATION OF  
FLOODLIGHT IN KWALE COUNTY (ALL PROVISIONAL)**

| Item | Description                                                                                                                                                                                                                                                                     | Qty | Unit |  |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|      | <b><u>RENOVATION OF FLOODLIGHT</u></b><br><b><u>GENERAL PRELIMINARIES</u></b>                                                                                                                                                                                                   |     |      |  |  |
| 1.0  | <b><u>Site</u></b><br><br>The proposed Works will be located at shimba hills in Kwale county                                                                                                                                                                                    |     |      |  |  |
| 2.0  | <b><u>Scope of the works.</u></b><br><br><b>The works involve renovation of 1 No. 20M Highmast floodlight</b><br>The major work to be carried out in this contract include the following:<br>1.Crane services<br>2.Replacement of 6no. Floodlights<br>3.Replace full automation |     |      |  |  |

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF 10no. MARKET STALLS RENOVATION OF  
FLOODLIGHT IN KWALE COUNTY (ALL PROVISIONAL)**

| Item | Description                                                                                                                                                                           | Qty | Unit |  |  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
| 1    | Luminaire carriage assembly for mounting the 6 No floodlights                                                                                                                         | 1   | No.  |  |  |
| 2    | 200W ,LED Floodlights fitting complete with control gear and tubular lamp                                                                                                             | 6   | No.  |  |  |
| 3    | Motorised Mechanical winch for lowering and raising the luminaire carriage assembly as described in the specification.                                                                | 1   | No.  |  |  |
| 4    | Lockable control pillar to house KPLC energy meter and associated switchgears.                                                                                                        | 1   | No.  |  |  |
| 5    | Beacon light to the requirements of civil aviation authority.                                                                                                                         | 1   | No.  |  |  |
| 6    | 50A Double pole contactor.                                                                                                                                                            | 1   | No.  |  |  |
| 7    | 20A MCB                                                                                                                                                                               | 3   | No.  |  |  |
| 8.0  | 40A current operated earth leakage circuit breaker with rated leakage of 250mA.                                                                                                       | 1   | No.  |  |  |
| 9.0  | 63A Voltage regulator switch                                                                                                                                                          | 1   | No   |  |  |
| 10.0 | 4mm Steel wire rope for lowering and lifting the luminaire carriage                                                                                                                   | 80  | Lm   |  |  |
| 11   | 6mm Steel main wire rope for lowering and lifting the luminaire carriage                                                                                                              | 25  | Lm   |  |  |
| 12   | 4.0 mm <sup>2</sup> , 4-core PVC sheathed and insulated SWA copper cable to connect power from the control pillar to the highmast complete with 2 No. Cable glands.                   | 10  | LM   |  |  |
| 13   | Earthing comprising of 6.0mm <sup>2</sup> earth lead and 1800mm long by 15mm diameter copper earth electrode with driving tip and clamp in a 300mmx300mm concrete manhole with cover. | 1   | Item |  |  |
| 14   | Trenching,laying,tilling and backfilling                                                                                                                                              | 9   | LM   |  |  |
| 15   | Allow for lightning protection installation complete with air termination and any other necessary accessories                                                                         | 1   | Item |  |  |
| 16   | 4.0mm <sup>2</sup> , 4-core flexible CU cable(black) from the terminal block to the luminaires.                                                                                       | 25  | LM   |  |  |
| 17   | 2.5mm <sup>2</sup> , 3-core flexible CU cable(black) for final connection to the luminaires concealed in a flexible conduits.                                                         | 15  | LM   |  |  |
|      | <b>Carried Forward</b>                                                                                                                                                                |     |      |  |  |

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF 10no. MARKET STALLS RENOVATION OF FLOODLIGHT IN KWALE COUNTY (ALL PROVISIONAL)**

| Item                                                            | Description                                                                                                                                          | Qty | Unit |  |  |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--|--|
|                                                                 | <b>Brought Forward</b>                                                                                                                               |     |      |  |  |
| 3.16                                                            | Allow for painting of the mast with reflective red/white paint to meet the requirements of the kenya civil aviation and Energy RegulatoryCommission. | 1   | Item |  |  |
|                                                                 | Digital timer lighting control system clearly marked 'streetlighting' with an overriding switch to the approval of the project Electrical Engineer.  | 1   | Item |  |  |
| 3.12                                                            | 5-pin 32A industrial socket complete with its top plug as of CLIPSAL or approved equivalent                                                          | 1   | No.  |  |  |
| 3.13                                                            | Termination box complete with 6No. termination terminals                                                                                             | 1   | ITEM |  |  |
| <b>TOTAL FOR FLOODLIGHT RENOVATION CARRIED TO GRAND SUMMARY</b> |                                                                                                                                                      |     |      |  |  |

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF 10no. MARKET STALLS RENOVATION OF  
FLOODLIGHT IN KWALE COUNTY (ALL PROVISIONAL)**

| Item | Description                                   | Qty | Unit |  |  |
|------|-----------------------------------------------|-----|------|--|--|
|      | <b><u>MAIN SUMMARY</u></b>                    |     |      |  |  |
| A    | PRELIMINARIES                                 |     |      |  |  |
| B    | 10 NO. MARKET STALLS                          |     |      |  |  |
| C    | RENOVATION OF FLOODLIGHT                      |     |      |  |  |
|      | <b><u>TOTAL 1</u></b>                         |     |      |  |  |
|      | <b>ADD.</b>                                   |     |      |  |  |
|      | 0.03% Capacity Building Levy                  |     |      |  |  |
|      | <b>TOTAL 2</b>                                |     |      |  |  |
|      | <b>ADD.</b>                                   |     |      |  |  |
|      | 16% V.A.T                                     |     |      |  |  |
|      | <b><u>TOTAL CARRIED TO FORM OF TENDER</u></b> |     |      |  |  |
|      | <b>SIGNATURE AND STAMP OF TENDERER</b>        |     |      |  |  |
|      | <b>DATE</b>                                   |     |      |  |  |
|      | <b>NAME AND ADDRESS</b>                       |     |      |  |  |
|      | <b>TENDERER'S WITNESS SIGNATURE</b>           |     |      |  |  |
|      | <b>DATE</b>                                   |     |      |  |  |
|      | <b>NAME AND ADDRESS</b>                       |     |      |  |  |