

MOALD/SDA/ENG/DAC/02/2024-2025- CONSTRUCTION OF KIPKOIBET AGGREGATION CENTRE
IN KONOIN CONSTITUENCY, BOMET COUNTY

CONSTRUCTION KIPKOIBETAGGREGATION CENTRE ADDITIONAL STORE IN KONOIN CONSITUENCY IN BOMET
COUNTY

[Type here]

| ITEM | DESCRIPTION | UNIT | QTY | RATE KSHS | AMOUNT (KSHS) | |
|------|---|------|-----|--------------|------------------|--|
| | BILL NO. 08:CONSTRUCTION KIPKOIBETAGGREGATION CENTRE ADDITIONAL STORE IN KONOIN CONSITUENCY IN BOMET COUNTY | | | | | |
| | ELEMENT 1:- SUB STRUCTURE WORKS | | | | | |
| A | Clear site off bushes, scrubs undergrowth and the like including grubbing up their roots and burn the arising on site as directed. | SM | 400 | | | |
| B | 200mm thick mass excavation in top soil | CM | 30 | | | |
| C | Excavate trenches for strip foundation not exceeding 1.5 M deep from reduced level. | CM | 135 | | | |
| D | Ditto for column bases | CM | 13 | | | |
| E | Remove surplus excavated materials from site or spread on site as directed | CM | 40 | | | |
| F | Return, fill and ram selected excavated materials to sides of foundation wall | CM | 62 | | | |
| | <u>Foundation Walling:-</u> | | | | | |
| G | Provide and pace class 15/20 100mm thick blinding concrete in strip foundation. | CM | 3.6 | | | |
| H | Ditto for column bases | CM | 1.5 | | | |
| I | Provide and lay 200 mm rough dressed natural stone in foundation walling in cement : sand mortar (1:4) | SM | 90 | | | |
| | Filling | | | | | |
| J | Provide, place and compact approved hardcore filling in layers not exceeding 150 mm thick. | CM | 80 | | | |
| K | Provide, place and compact 50 mm thick murram or other equal and approved blinding material to surface of hardcore (m.s.) | SM | 240 | | | |
| L | Chemical anti-termite treatment executed by Rentokil Laboratories Limited or equal and approved pest control firm under a ten year gurantee, applied to surface of excavation and floor | SM | 240 | | | |
| M | 1000 gauge polythene damp proof membrane | SM | 240 | | | |

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|------|--|------|--------|--------------|------------------|--|
| | <u>Plinth</u> | | | | | |
| N | 12 mm thick cement and sand (1: 4) plaster to plinth | SM | 45 | | | |
| O | Three coats black bituminous paint to plastered surface | SM | 45 | | | |
| | Provide, place and vibrate reinforced concrete class 25/20 as described in :- | | | | | |
| P | Column bases | CM | 9 | | | |
| Q | Columns | CM | 6.5 | | | |
| R | Strip foundation | CM | 6 | | | |
| S | 200 mm thick concrete floor slab | CM | 50 | | | |
| | Provide, place and dismantle Sawn formwork as described to :- | | | | | |
| T | Sides of foundation columns | SM | 30 | | | |
| U | Sides of strip foundation | SM | 0 | | | |
| V | Edges of floor slab 75 mm - 150 mm girth | LM | 55 | | | |
| | Provide high Tensile Reinforcement Bars to B. S. 8110 including cutting, bending and all necessary spacer blocks as described in :- | | | | | |
| W | 16 mm diameter bars in Columns | KG | 682.00 | | | |
| X | 12mm diameter in ring beams. | KG | 320.00 | | | |
| Y | 12 mm diameter in column bases | KG | 300 | | | |
| Z | 8 mm diameter as tie ups. | KG | 520.00 | | | |
| AA | B. R. C. A 142 mesh reinforcement | SM | 240 | | | |
| BB | 1000g DPM | SM | 240 | | | |
| | TOTAL FOR ELEMENT 01 (SUBSTRUCTURE) | | | | | |
| | <i>ELEMENT NO. 2: REINFORCED CONCRETE SUPERSTRUCTURE</i> | | | | | |
| | <u>Reinforced Concrete (1:2:4) as described to :-</u> | | | | | |
| A. | Columns | CM | 7 | | | |
| B | Beams | CM | 9 | | | |
| | <u>Provide, erect and dismantle Sawn Formwork as described to :-</u> | | | | | |
| C | Sides of columns | SM | 135 | | | |
| D | Sides of beams | SM | 135 | | | |

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|------|---|------|-----|--------------|------------------|--|
| | TOTAL FOR ELEMENT 02 (R.C) | | | | | |
| | | | | | | |
| | ELEMENT NO. 3:- Super structure walling | | | | | |
| | Machine-cut stone walling; bedded and jointed in cement and sand (1:3) mortar; reinforced in every third course with 500g hoop iron, as directed by program Engineer | | | | | |
| A | 200 mm thick externally | SM | 190 | | | |
| B | Extra over ditto for neat horizontal and vertical keying externally. | SM | 190 | | | |
| C | Approved 200 mm wide damp proof course laid to breaking joints with 150 mm laps in cement: sand (1:3) mortar. | LM | 45 | | | |
| | TOTAL FOR ELEMENT 03 (WALLING) | | | | | |
| | | | | | | |
| | ELEMENT NO. 4:- Vent blocks Walling | | | | | |
| A | 300x200x200mm precast concrete ventilation blocks | SM | 50 | | | |
| B | Provide and fix anti rodents, birds and insects mesh wire as directed by program Engineer | SM | 100 | | | |
| | TOTAL FOR ELEMENT 04 (VENT BLOCKS WALLING) | | | | | |
| | ELEMENT NO. 5:- Doors | | | | | |
| | Steel Door:- | | | | | |
| A | Purpose made sliding steel door overall size 4000 x 4050 mm complete with sliding frame and related accessories and one coat red oxide primer all to Architect's details. | NO | 2 | | | |
| | TOTAL FOR ELEMENT 05 (DOORS) | | | | | |
| | | | | | | |
| | ELEMENT NO. 6:- Roof covering | | | | | |
| | Structural Steel work | | | | | |

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| ITEM | DESCRIPTION | UNIT | QTY | RATE KSHS | AMOUNT (KSHS) | |
|------|--|------|-----|--------------|------------------|--|
| | The following in framed structural steelwork : complete with and including all welded and bolted connections : delivery to site and erection with and including one shop coat of zinc plumbate primer | | | | | |
| | No. structural steel roof trusses spanning 6,000 mm C/C : hoisting and fixing approximately 6000mm above ground level: | | | | | |
| A. | 100 x 50 x 4 mm thick RHS rafters | LM | 110 | | | |
| B | 50 x 50 x 3 mm SHS struts and ties | LM | 40 | | | |
| C | 100X50X3mm thick end plate welded to RHS joist and rafter. | SM | 6 | | | |
| D | 250 x 200 x 8 mm thick base plate welded to truss : drilled with 4 No. holes for 20 mm diameter bolts | SM | 1.5 | | | |
| E | 75x75x6mm thick angle cleat welded onto plates | LM | 8 | | | |
| | Support rails , purlins , bracings etc | | | | | |
| F | 127 x 50 x2 mm thick Z purlins | LM | 260 | | | |
| G | 60 x60 x 6 mm Angle Bracings | LM | 130 | | | |
| H | 12mm Dia. Anti-sag Rods | Kg | 40 | | | |
| I | 20 mm diameter x 600 mm long bolts with head , nut and washers : fixed to concrete or masonry walls | NO | 24 | | | |
| | Roof covering | | | | | |
| | Al-Zn Coated Steel Box Profile roofing sheets; 28 gauge; pre-painted | | | | | |
| J | Roof covering; 150mm laps on one end and one and a half corrugation side lap; and fixed to steel trusses (m/s) to receive roofing sheets (m/s) | SM | 265 | | | |
| K | 22G 570mm Ridge Caps | LM | 17 | | | |
| | TOTAL FOR ELEMENT 06 (ROOF COVERING) | | | | | |
| | | | | | | |

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|------|---|------|-----|--------------|------------------|--|
| | ELEMENT 07: -LOADING/OFFLOADING CANOPY | | | | | |
| | The following in framed structural steelwork : complete with and including all welded, bolts and rivets : delivery to site and erection with and including one shop coat of zinc plumbate primer | | | | | |
| A. | 50x50x3mm SHS Rafters, strut & ties | LM | 150 | | | |
| B | 50X25X2mm RHS purling | LM | 60 | | | |
| | Al-Zn Coated Steel Box Profile roofing sheets; 28 gauge; pre-painted | | | | | |
| C | Roof covering; 150mm laps on one end and one and a half corrugation side lap; and fixed to steel trusses (m/s) to receive roofing sheets (m/s) | SM | 45 | | | |
| | TOTAL FOR ELEMENT 07 (CANOPY) | | | | | |
| | | | | | | |
| | <u>ELEMENT 08:- Rainwater Disposal:-</u> | | | | | |
| | 28 Gauge SWG galvanized mild steel rainwater goods with lapped, rivetted and soldered joints or seams including all labours | | | | | |
| A. | 2mm thick metallic rain gutter as specified in technical drawings (650mm girth) including fabrication with necessary fittings and installation. | LM | 32 | | | |
| | | | | | | |
| B | 100 mm diameter rainwater downpipe imbedded to walls or boxed in walls and all necessary clamping. | LM | 30 | | | |
| C | Ditto for shoe | NO | 8 | | | |
| | TOTAL FOR ELEMENT 08:- (Water disposal) | | | | | |
| | | | | | | |
| | ELEMENT 09:- FINISHING | | | | | |
| | Floors:- Cement : sand (1:4) in :- | | | | | |

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|------|---|------|-----|--------------|------------------|--|
| A | 50 mm thick paving to receive Terrazzo. | SM | 225 | | | |
| B | Terrazzo to Engineer's specification | SM | 225 | | | |
| | <u>Walls</u> | | | | | |
| C | 15 mm thick cement and sand (1:4) plaster to walls internally. | SM | 250 | | | |
| | <u>Painting</u> | | | | | |
| D | Prepare and apply three coats of first grade plastic emulsion paint to internal wall and beam surfaces as directed by program Engineer | SM | 250 | | | |
| | TOTAL FOR ELEMENT 09 (Finishes) | | | | | |
| | | | | | | |
| | <u>ELEMENT 10:- PRIME COST AND PROVISIONAL SUMS</u> | | | | | |
| | <u>Electrical Installation</u> | | | | | |
| A | Provide a Prime Cost Sum of Kenya Shillings two hundred thousand (Kshs. 200,000.00) only for Electrical Installation and connection to the warehouse/store and the office (single phase) as directed by program Engineer | SUM | 1 | 200,000 | 200,000 | |
| | <u>Plumbing and Drainage Installation</u> | | | | | |
| B | Provide a Prime Cost Sum of Kenya Shillings one hundred thousand (Kshs. 100,000.00) only for Plumbing and Drainage Installation as directed by program Engineer | SUM | 1 | 100,000 | 100,000 | |
| | Allow for contractor's overheads and profits | % | | 300,000 | | |
| | TOTAL FOR ELEMENT 10 (ELECTRICAL AND PLUMBING) | | | | | |
| | ELEMENT NO.11 | | | | | |
| | <u>ROOF WATER HARVESTING</u> | | | | | |
| | | | | | | |

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| ITEM | DESCRIPTION | UNIT | QTY | RATE KSHS | AMOUNT (KSHS) | |
|------------------|--|------|-----|--------------|------------------|--|
| A. | Supply and installed one (1) 10,000 litres plastic water container as manufactured by KENTANK (K) LTD or equally approved by the P.M on masonry constructed stand 500 mm above the ground level as directed by the P.M | NO. | 1 | | | |
| B | Construct a 3000mmx6000mm x3200mm shed with 75mm x3mm steel columns roofed with timber trusses and covered with 28 Gauge Roof Covering Corrugated 'Resincot' Iron Sheeting and Accessories | NO. | 1 | | | |
| TOTAL ELEMENT 11 | | | | | | |

| | | AMOUNT | |
|------|-------------|--------|--|
| ITEM | DESCRIPTION | KSHS | |
| | BILL NO.04 | | |
| | STORE | | |
| | | | |
| | SUMMARY | | |
| | | | |
| | ELEMENT 01 | | |
| | | | |
| | ELEMENT 02 | | |
| | | | |
| | ELEMENT 03 | | |
| | | | |
| | ELEMENT 04 | | |
| | | | |
| | ELEMENT 05 | | |
| | | | |
| | ELEMENT 06 | | |
| | | | |

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|------|-------------|------|-----|--------------|------------------|--|
| | ELEMENT 07 | | | | | |
| | | | | | | |
| | ELEMENT 08 | | | | | |
| | | | | | | |
| | ELEMENT 09 | | | | | |
| | | | | | | |
| | ELEMENT 10 | | | | | |
| | TOTAL | | | | | |

| GRAND SUMMARY FOR CONSTRUCTION OF KIPKOIBET AGGREGATION CENTRE IN KONOIN CONSTITUENCY, BOMET COUNTY | | |
|--|--|----------------------------------|
| BILL No. | DESCRIPTION | CONTRA CT AMOUN T (KES) |
| Bill No. 1 | Preliminary and General Works | |
| Bill No. 2 | Construction of Standard Grain Store | |
| Bill No. 3 | Construction of Grain Dryer Housing | |
| Bill No. 4 | Supply of Agricultural Machinery and Equipment | |
| Bill No. 5 | Construction of Office | |
| Bill No. 6 | Construction of Pit-Latrines | |
| Bill No. 7 | External Works – Fencing and Gate Installation | |

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| | | |
|-----------------------|--|--|
| Bill No. 8 | Construction Kipkoibet Aggregation Centre Additional Store in Konoin Constituency in Bomet County | |
| SUB-TOTAL 1 | | |
| ADD 10% CONTINGENCIES | | |
| SUB-TOTAL 2 | | |
| ADD 16% VAT | | |
| TOTAL | | |