

**MOALD/SDA/ENG/DAC/01/2024-2025-CONSTRUCTION OF TARAKWA AGGREGATION
CENTRE IN KESSES CONSTITUENCY, UASIN GISHU COUNTY**

**CONSTRUCTION TARAKWA AGGREGATION CENTRE ADDITIONAL STORE IN KESSES CONSTITUENCY IN UASIN
GISHU COUNTY**

ITEM	DESCRIPTION			UNIT	QTY	RATE KSHS	AMOUNT (KSHS)
	BILL NO: 9-CONSTRUCTION TARAKWA AGGREGATION CENTRE ADDITIONAL STORE IN KESSES CONSTITUENCY IN UASIN GISHU 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		

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GISHU COUNTY**

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L	Chemical anti-termite treatment executed by Rentokil Laboratories Limited or equal and approved pest control firm under a ten year guarantee, applied to surface of excavation and floor			SM	240		
M	1000 gauge polythene damp proof membrane			SM	240		
	<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)				
	ELEMENT NO. 2: REINFORCED CONCRETE SUPERSTRUCTURE						
	Reinforced Concrete (1:2:4) as described to :-						

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GISHU COUNTY**

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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		
	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		

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GISHU COUNTY

ITEM	DESCRIPTION			UNIT	QTY	RATE KSHS	AMOUNT (KSHS)
	TOTAL FOR ELEMENT 05 (DOORS)						
	ELEMENT NO. 6:- Roof covering						
	Structural Steel work						
	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 x 2 mm thick Z purlins			LM	260		
G	60 x 60 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						

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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)						
	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 plumbeate 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)						
	ELEMENT 08:- Rainwater Disposal:-						
	28 Gauge SWG galvanized mild steel rainwater goods with lapped, riveted 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		

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ITEM	DESCRIPTION			UNIT	QTY	RATE KSHS	AMOUNT (KSHS)
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 :-						
A	50 mm thick paving to receive Terrazzo.			SM	225		
B	Terrazzo to Engineer's specification			SM	225		
	Walls						
C	15 mm thick cement and sand (1:4) plaster to walls internally.			SM	250		
	Painting						
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)					
	ELEMENT 10:- PRIME COST AND PROVISIONAL SUMS						
	Electrical Installation						
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
	Plumbing and Drainage Installation						
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

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ITEM	DESCRIPTION			UNIT	QTY	RATE KSHS	AMOUNT (KSHS)
	Allow for contractor's overheads and profits			%		300,000	
	TOTAL FOR ELEMENT 10 (ELECTRICAL AND PLUMBING)						
	ELEMENT NO.11						
	ROOF WATER HARVESTING						
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					
ITEM			DESCRIPTION	AMOUNT			
				KSHS			
			BILL NO.04				
			STORE				
			SUMMARY				
			ELEMENT 01				
			ELEMENT 02				
			ELEMENT 03				

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GISHU COUNTY

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	ELEMENT 04								
	ELEMENT 05								
	ELEMENT 06								
	ELEMENT 07								
	ELEMENT 08								
ELEMENT 09									
ELEMENT 10									
			TOTAL						

GRAND SUMMARY FOR CONSTRUCTION OF TAKWA AGGREGATION CENTRE IN KESSES CONSTITUENCY, UASIN GISHU COUNTY		
BILL No.	DESCRIPTION	CONTRACT AMOUNT (KES)
Bill No. 1	Preliminary and General Works	
Bill No. 2	Site Leveling, Compaction and Improvement of Access Road	
Bill No. 3	Construction of Standard Grain Store	
Bill No. 4	Construction of Grain Dryer Housing	
Bill No. 5	Supply of Agricultural Machinery and Equipment	
Bill No. 6	Construction of Office	

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Bill No. 7	Construction of Pit-Latrines	
Bill No. 8	External Works – Fencing and Gate Installation	
Bill No.9	Construction Tarakwa Aggregation Centre Additional Store In Kesses Constituency In Uasin Gishu County	
SUB-TOTAL 1		
ADD 10% CONTINGENCIES		
SUB-TOTAL 2		
ADD 16% VAT		
TOTAL		