



REPUBLIC OF KENYA

**MINISTRY OF TRANSPORT, INFRASTRUCTURE, PUBLIC WORKS,
HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT OF PUBLIC WORKS**

**BILL OF QUANTITIES
FOR**

**PROPOSED PURCHASE, SUPPLY AND INSTALLATION OF
3PS 300 LITRES MODERN ENERGY SAVING JIKOS AT
GONGONI SECONDARY SCHOOL.**

NG-CDF-KILIFI SOUTH

**REGIONAL QUANTITY SURVEYOR
COAST REGION
P.O. BOX 90350
MOMBASA**

**REGIONAL WORKS OFFICER
COAST REGION
P.O. BOX 90350
MOMBASA**

F/Y 2026/2027

<u>ITEM NO.</u>	<u>DESCPTION</u>	<u>QTY</u>	<u>UNIT</u>	<u>RATE</u>	<u>TOTAL (KSHS.)</u>
	<i>Purchase, Supply and Installation of 3ps 300 litres modern energy saving jikos as per the specifications as per the specification of the project manager</i>				
1.	<u>Scope</u> <i>This specification covers the supply, fabrication, and installation of an energy-efficient institutional boiler jiko fitted with a 300-litre stainless steel cooking vessel, suitable for high-capacity cooking in schools, hospitals, correctional facilities, and commercial kitchens.</i> <i>The unit shall be designed to ensure high thermal efficiency, structural durability, safe combustion, and effective smoke evacuation.</i>				
2.	<u>Materials</u> 2.1 Structural Body The external body of the boiler jiko shall be fabricated using high-quality steel materials suitable for institutional cooking environments. Top Plate: Mild steel plate not less than 1.5 mm thickness. Bottom Plate: Mild steel plate not less than 1.2 mm thickness. Side Panels: Stainless steel sheet not less than 0.7 mm thickness, corrosion-resistant and suitable for kitchen environments. All materials used shall be free from defects such as cracks, corrosion, warping, or surface damage.	3	NO.		
	<u>2.2 Cooking Vessel (Sufuria)</u> The unit shall be fitted with a 300-litre capacity stainless steel cooking vessel suitable for institutional cooking operations. The vessel shall be fabricated as follows: Base Plate: Stainless steel plate not less than 3 mm thickness. Side Walls: Stainless steel plate not less than 2 mm thickness. The cooking vessel shall be securely mounted within the stove body to ensure efficient heat transfer and safe operation during cooking.	3	NO.		

	<u>2.3 Combustion Chamber</u> The combustion chamber shall be constructed using heat-resistant materials designed to improve combustion efficiency and prolong the operational life of the unit. The chamber shall include: Approved refractory clay bricks capable of withstanding high combustion temperatures. Meko Light–approved sand or equivalent refractory insulating material used for insulation and heat retention. The lining shall protect the structural body and enhance fuel efficiency.	1	ITEM		
	<u>2.4 Fire Grate</u> The stove shall be fitted with a heavy-duty steel fire grate designed to support firewood or charcoal combustion. The grate shall: Be fabricated from heavy-gauge steel Allow adequate airflow for efficient combustion Be accessible for cleaning and maintenance.	1	ITEM		
	<u>2.5 Exhaust and Flue System</u> A smoke evacuation system shall be incorporated to ensure proper ventilation and efficient operation. Exhaust Pipes: Galvanized steel sheet Gauge 24 or thicker. Top Section / Chimney Cover: Galvanized steel sheet Gauge 24 or thicker. The flue system shall be properly installed to allow effective evacuation of combustion gases.	1	ITEM		
3.	<u>Fabrication and Workmanship</u> All welding shall be continuous and properly finished to ensure structural strength. Surfaces shall be smooth and free from sharp edges. The unit shall be fabricated to ensure durability and structural stability under continuous institutional cooking conditions. The stove shall withstand repeated heating cycles without structural deformation or failure.	1	ITEM		
4.	<u>Performance Requirements</u> The institutional boiler jiko shall: Support cooking using a 300-litre stainless steel vessel. Provide efficient heat transfer for large-scale cooking operations.	1	ITEM		

	Ensure stable support for cooking vessels during use. Maintain controlled combustion and efficient fuel utilization with minimal smoke leakage.				
	TOTAL FOR JIKOS				

Item No	Description	Qty	Unit	Rate	Total (Kshs)
	<u>PRIME COST & PROVISIONAL SUMS:-</u>				
A	Provide a provisional sum of Kenya Shillings Forty Thousand for Administration of the Project for Project Management Committee to be deducted partly or whole by the project manager				40,000
B	Provide a provisional sum of Kenya Shillings Sixty thousand for Administration of the Project Supervision and other Government officers to be deducted whole or partly by the project manager				60,000
	TOTAL OF PC & PROVISIONAL SUMS,				
	CARRIED TO MAIN SUMMARY				100,000

Item No	Description	Qty	Unit	Rate	Total (Kshs)
A	<u>MAIN SUMMARY: -</u>				
	JKOS FROM PAGE JKS/1				
	PC & PROVISIONAL SUMS FROM PAGE PS/ 1				100,000
	SUB-TOTAL				
	ALLOW 16% VAT				
	Add 0.03% Capacity Building Levy				
	TOTAL CARRIED TO FORM OF TENDER				

AMOUNT IN WORDS:

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CONTRACTOR'S NAME:

ADDRESS:

SIGNATURE: DATE:

NAME OF WITNESS:

ADDRESS:

SIGNATURE: DATE: