



KENYA ELECTRICITY GENERATING COMPANY LIMITED PLC

KGN-KIP-17-2023

RFx: 5000012270

**TENDER FOR REHABILITATION OF CHARGE AIR AND AIR INTAKE FILTERS AT KIPEVU III  
DIESEL PLANT**

**(CITIZEN CONTRACTORS)**

**Date: 29<sup>th</sup> March 2023**

**Clarification No.1**

In accordance with the Procurement of **Rehabilitation of Charge Air and Air Intake Filters at Kipevu III Diesel Plant**, KenGen hereby issues **Clarification No.1** as follows:

**BILL OF QUANTITIES FOR REHABILITATION OF CHARGE AIR AND AIR INTAKE FILTERS**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>Approximate QTY</u>	<u>RATE</u>	<u>AMOUNT</u>	<u>COMMENTS</u>
<u><b>BILL 1</b></u>	<u><b>PATHWAY AND STAIRCASE INSTALLATION</b></u>					
1.03	Furnish and install on GI Mild Steel welded grating on the, banding style with thick load bearing bars of 30*3 mm, pitch 30mm, traverse bars 70mm flat and square with ends bearing min 139.7mm on supporting bar. The gratings to be joined by heavy duty M8 stainless steel grate quick clips to each other. Bearing surface must be smooth, level, free of burrs, bridging, welds and other irregularities. Space grating sections a minimum 6.35mm from vertical steel sections, and 12.7mm from walls. Allow maximum clearance between sections	SM	22.677			Traverse bars thickness is 5mm

	at joints of 6.35mm at side channels, 9.525mm at ends. The cost to include providing and fixing of all necessary hardware.					
1.04	Furnish and install protective barriers on <b>item 4</b> , DN40 Thickness mm:2.7 welded steel consisting of handrail, at least one intermediate or knee rail and a toe plate. The distance between intermediate or knee rail shall be no more than 500 mm. The top of the handrail shall be a minimum distance of 1100 mm above the top of the floor. The protective barriers should be jointed on the support bars using clamps and stainless steel M16 bolts and nuts of grade 5 and above	M	43.4			Replace the sentence <b>item 4</b> with item 1.03  Toe plate thickness:5mm
<u>1.05</u>	Furnish and install staircase of grating 700*200*30mm tread type T4, Holed End Plates bolted fixing using stainless steel M16 bolts and nuts, # 6 rise at 240mm, # 5 run, total run 1045mm, stringer length 1795mm, stringer height 1460mm, angle 54.41. The cost to include providing and fixing of all necessary hardware.	ITEM	7			Furnish and install staircase of grating 700*240*30mm tread type T4, Holed End Plates bolted fixing using stainless steel M16 bolts and nuts, # 8 rise at 177.8mm, # 7 run, total run 2500mm, stringer length 3024mm, stringer height 1344mm, angle 29.64 degrees. The cost to include providing and fixing of all necessary hardware.

1.07	Prepare staircase and pathway surfaces, make good defects & apply Silk Vinyl Emulsion Paint as Crown or equivalent of approved color to walls internally as directed by the Engineer	SM	22.677			Prepare staircase protective barriers, rails and toe plate, pathway support beams and bars, make good defects, apply at least two coats of red oxide primer followed by gloss paint as Crown or equivalent of approved colour as directed by the Engineer
<b>BILL 2</b>	<b><u>AIR INLET FILTERS REHABILITATION</u></b>					
2.05	Carefully remove the air inlet ventilation wire gauze 3380*250mm from the air tropical louvre	ITEM	14			Carefully remove the air inlet ventilation wire gauze 3380*2050mm from the air tropical louvre
2.06	Furnish and weld 3380*2050mm galvanized steel wire gauze expanded metal 10*6.6 mm on the air tropical louvre. The cost to include providing and fixing of all necessary hardware.	SM	97.006			Furnish and weld 3380*2050mm galvanized steel wire gauze expanded metal 10*6.6 mm on the air tropical louvre. Renew M6 flange hex tapping screws with rubber washer at the air tropical louvre. The cost to include providing and fixing of all necessary hardware.
2.07	Prepare air tropical louvre 3380*2050mm surfaces, make good defects & apply high temperature aluminium paints over 600 degrees Celsius as Crown or equivalent. The cost to	SM	97.006			Prepare air tropical louvre 3380*2050mm surfaces, make good defects, apply at least two coats of

	include providing and fixing of all necessary hardware.					red oxide primer, apply high temperature aluminium paints over 600 degrees Celsius as Crown or equivalent. The cost to include providing and fixing of all necessary hardware.
2.08	Prepare air inlet ventilation housing inlet and outlet surfaces, make good defects & apply Silk Vinyl Emulsion Paint as Crown or equivalent of approved color to walls internally as directed by the Engineer.	SM	1279.44			Prepare air inlet ventilation housing inlet and outlet surfaces, make good defects, apply at least two coats of red oxide primer. Apply gloss paint as Crown or equivalent of approved colour to walls as directed by the Engineer.
<b>BILL 3</b>	<b><u>CHARGE AIR INLET FILTERS REHABILITATION</u></b>					
3.01	Carefully remove the filter cells attached to the frame made from metal sheet profiles for cleaning using suitable detergents	ITEM	14			APPROXIMATED QUANTITY:7
3.02	Safely secure chain blocks on the air inlet ventilation housing lifting eyebolts	ITEM	14			APPROXIMATED QUANTITY:7
3.03	Carefully unscrew the existing M6 flange hex tapping screws with rubber washer from the air tropical louvre 3490*2220mm	ITEM	14			APPROXIMATED QUANTITY:7

<u>3.04</u>	Carefully secure and lower the air tropical louvre 3490*2220mm	NO	14			APPROXIMATED QUANTITY:7
<u>3.05</u>	Carefully remove the air inlet ventilation wire gauze 3490*2200mm from the air tropical louvre	ITEM	14			APPROXIMATED QUANTITY:7
<u>3.06</u>	Furnish and weld 3490*2200mm galvanized steel wire gauze expanded metal 10*6.6 mm on the air tropical louvre. The cost to include providing and fixing of all necessary hardware.	SM	107.492			Furnish and weld 3490*2200mm galvanized steel wire gauze expanded metal 10*6.6 mm on the air tropical louvre. Renew M6 flange hex tapping screws with rubber washer at the air tropical louvre. The cost to include providing and fixing of all necessary hardware.  APPROXIMATED QUANTITY: 53.75
<u>3.07</u>	Prepare air tropical louvre 3490*2220mm surfaces, make good defects & apply high temperature aluminium paints over 600 degrees Celsius as Crown or equivalent. The cost to include providing and fixing of all necessary hardware.	SM	107.492			Prepare air tropical louvre 3490*2220mm surfaces, make good defects, apply at least two coats of red oxide primer. Apply high temperature aluminium paints over 600 degrees Celsius as Crown or equivalent. The cost to include providing and fixing of all necessary hardware.

						APPROXIMATED QUANTITY: 53.75
<u>3.08</u>	Prepare air inlet ventilation housing inlet and outlet surfaces, make good defects & apply Silk Vinyl Emulsion Paint as Crown or equivalent of approved colour to walls internally as directed by the Engineer.	SM	1373.89			Prepare air inlet ventilation housing inlet and outlet surfaces, make good defects, apply at least two coats of red oxide primer. Apply gloss paint as Crown or equivalent of approved colour to walls as directed by the Engineer.

**SUPPLIER ACKNOWLEDGEMENT OF CLARIFICATION NO.1**

We, the undersigned hereby certify that the **Clarification No.1** is an integral part of the document and the alterations set out in clarification has been incorporated in the Tender document.

Signed.....

Tenderer.....

Date.....