



**TENDER NO. KGN-HYD (tana) -01-2017**

**DATE: 17/02/2017**

**KENYA ELECTRICITY GENERATING COMPANY**

**TENDER FOR SUPPLY OF HIGH VOLTAGE STATOR COILS FOR 3.3kV, 625 KVA GENERATOR**

**CLARIFICATION No .1**

In accordance with the Tender for Supply of High Voltage Stator Coils for 3.3kV, 625 KVA Generator, KenGen hereby issues Clarification No.1

**RESPONSE TO REQUEST FOR CLARIFICATION**

**Clarification**

Our manufacturer is requesting clarifications on the attached specs. Please fill the form below as necessary for a conclusive offer.

**Minimum Technical Details for Coil**

Manufacturer	
Frame Number	
Frequency	<i>50 Hz</i>
kW/HP/KVA	<i>625kVA</i>
Machine voltage	<i>3300V</i>
Machine amps	<i>109A</i>
RPM	<i>750 RPM</i>
Poles	
Number of slots	<i>108</i>
Number of coils	
PT 100/PTC	
Inner core diameter	<i>866 mm</i>
Outer core diameter	<i>1,150 mm</i>
Core length	<i>351 mm</i>
Total slot depth	<i>59.65 mm</i>
Depth under wedge	<i>55 mm</i>
Slot width	<i>12 mm</i>
Tooth width	

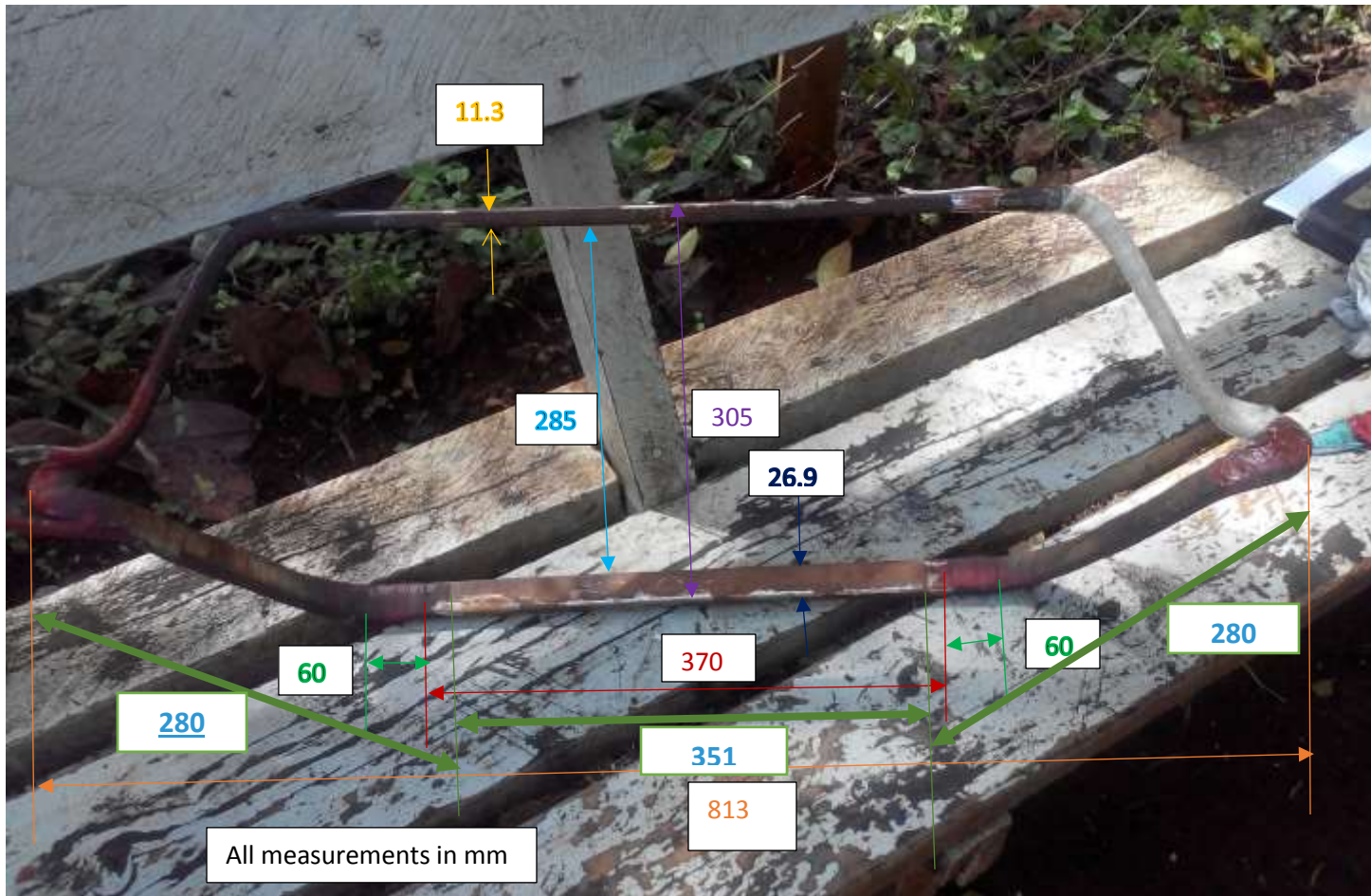
Is slot skewed (yes/no)	
Skewed to left in mm	
Skewed to right in mm	
Conn' end diameter	
Back end diameter	
Corona protection at end	
Corona protection at slot	
Coil pitch 1 to	12
Winding connection, Star or delta	
Coil slot length - top	
Coil slot length - bottom	
Endwindings Conn' end, coil projection	
Endwindings Back end, coil projection	
Over all coil length	
Turns/coil	9
Bare wire size width	
Bare wire size thickness	
Wires in parallel/turn	
Wires in one turn composition	
Insulation system: Resin rich, soft coil or VPI coul	

## **KenGen Response**

### **SAGANA MACHINE 3 COILS SPECIFICATIONS**

1. Inner core diameter = 866mm
2. External core diameter = 1150mm
3. Core thickness = 142mm
4. Core length = 351mm
5. Slot width = 12mm
6. Slot depth up to core teeth =59.65mm
7. Slot depth up to wedge = 55mm
8. Number of slots = 108
9. Number of turns = 9
10. Number of conductors = 1
11. Conductor size = 6.95mm\*2.0mm
12. Number of parallel paths = 2
13. Type of lay = double lay
14. Coil pitch (span) = 12 (1 to 12)
15. Number of wedge = 2 per slot
16. Wedge size 13.65mm wide\*5.62mm thick\*189mm long
17. Minimum Technical Details for Coil

Manufacturer	Bruce Peebles Co. Ltd
Serial Number	80746 (Type 1105 SP)
Frequency	50 Hz
kW/HP/KVA	625kVA
Machine voltage	3300V
Machine amps	109A
RPM	750 RPM
Poles	8
Number of slots	108
Number of coils	108
PT 100/PTC	None
Inner core diameter	866 mm
Outer core diameter	1,150 mm
Core length	351 mm
Total slot depth	59.65 mm
Depth under wedge	55 mm
Slot width	12 mm
Tooth width	13.3mm
Is slot skewed (yes/no)	No
Skewed to left in mm	N/A
Skewed to right in mm	N/A
Conn' end diameter	
Back end diameter	
Corona protection at end	None
Corona protection at slot	None
Coil pitch 1 to	12
Winding connection, Star or delta	Star
Coil slot length - top	See attached measurements
Coil slot length - bottom	See attached measurements
Endwindings Conn' end, coil projection	225 mm
Endwindings Back end, coil projection	230 mm
Over all coil length	813 mm
Turns/coil	9
Bare wire size width	7 mm
Bare wire size thickness	2 mm
Wires in parallel/turn	1
Wires in one turn composition	1
Insulation system: Resin rich, soft coil or VPi coul	Resin rich Mica



**ACKNOWLEDGEMENT OF CLARIFICATION NO. 1**

We, the undersigned hereby certify that the addendum is an integral part of the document and the alterations set out in the Addendum have been incorporated in the tender proposal.

Signed.....

Tenderer.....