



Date: 3-Aug-13

PRE-TECHNICAL QUALIFICATION CRITERIA

ITEM: Tacho Generator Type AG1404AZ

CRITERIA:

1. Supplier to confirm the manufacturing of Tacho Generator as per drawing no. 14370019002 Rev.01.
2. The firm must have adequate manufacturing facilities at their works/in-house for manufacturing this item, exactly as per the attached Annexure-I .
3. Supplier to furnish names of customers with details of supply (quantity) of "Tacho Generator" similar to BHEL drawing in the last 3 years.
4. Production capacity of the firm for this item per month/annum to be submitted.
5. Firm must have quality system, which ensure quality of item at various stages.

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Brief Write Up for Tacho Generator Type AG1404AZIntroduction

The Tacho Generator shall be mounted on is gear driven by diesel engine, supplies electrical signals proportional to the engine speed. These signals shall be used for maintaining engine speeds at required values, for notch separation and to control horse power limits.

Construction

The Tacho Generator shall be a 3-phase, 6 pole permanent A.C. machine. The rotor shall consist of claw poles, with a ring magnet sandwiched in between and the assembly shall be mounted on a spider having a taper bore. The rotor assembly shall be mounted on a tapered shaft extension from the engine. The stator shall be consist of conventional laminated construction with the 3-phase winding.

Technical Details

No. of Poles	6
Frequency at 2384 RPM	119.2 cycles/sec
Gear Ratio	1:2.384
Weight	20Kg
Stator winding Resistance between two line terminal at 25°C	12.5 to 16.5