



**Technical Pre- Qualification Requirement (PQR) of
Tacho Generator type AG1404AZ**

The Pre-Qualification requirement for **“Tacho Generator type AG1404AZ”** as per drg. No. **“14370019002 Rev.01”** are as under:

Sl. No.	Description	Vendor to comment	
		Complied / Not complied	Supporting relevant document to be submitted
1.	“Tacho Generator type AG1404AZ” drg. “14370019002 Rev.01” should be exactly as per tender.	Yes/No	Deviation if any to be clearly mentioned.
2.	Availability of manufacturing/testing facilities required to manufacture & test tacho generator as per details given in Annexure-1 (enclosed)	Yes/No	- List of testing facilities required. - Outsourced facility (if any) should be also submitted.
3.	Manufacturing & supply experience in preceding 3 years (from tender opening date) of same / similar* item.	Yes/No	Un-priced PO copies
4.	Production capacity of the firm for this item per month / year	Yes/No	Production capacity
5.	Vendor to submit QAP that shall be followed during manufacturing of the Tacho Generator.	Yes/No	QA Plan

Note:

1. (*) Tacho generator for railway application shall be considered as similar item.
2. Compliance of above technical PQR is mandatory. In absence of compliance of above, vendor's offer is liable to be rejected.



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Annexure-1

TACHO GENERATOR TYPE AG 1404AZ/M

INTRODUCTION:

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

CONSTRUCTION:

The Tacho Generator is a 3 phase, 6 pole, permanent magnet AC machine. The rotor consists of claw poles, with a ring magnet sandwiched in between and the assembly is mounted on a spider having a taper bore. The rotor assembly is mounted on a tapered shaft extension from the engine. The stator is of conventional laminated construction with the 3 phase winding, and is bolted to the engine timing gear housing.

TECHNICAL DATA:

No. of Poles	40
Frequency at 2384 RPM	119.2 cycles/sec
Gear Ratio	1:2.384
Weight with gear box & nylon gear	19.6 Kg
Stator winding resistance between Two lien terminals at 25 Deg. C	12.5 to 16.5 Ohms