

Duly filled Technical Pre-Qualification Requirements to be submitted along with the offer by vendor

Ref No: TME/PQR/VBTM/Hybrid Bearings Rev.00

For uploading along with the enquiry

Dated: 07/03/2026

Technical Pre-Qualification Requirements (PQR) for “HYBRID BEARINGS”

Vendor should comply with the following clauses in order to qualify for supply of HYBRID BEARINGS (duly filled PQR shall be submitted along with the offer by vendor):

Cl. No.	Description	Vendor to comment	
		Complied / Not complied	Supporting relevant document to be submitted along with offer
1	Vendor shall supply hybrid bearings (with rollers/balls made from electrically insulated material) as per the description mentioned in enquiry without any deviation.	Yes/No	Compliance required.
1.a	Vendor to mention the country of origin (manufacturing plant) of enquired Hybrid Cylindrical Roller Bearing offered.	Yes/No	Name of country of origin to be mentioned
1.b	Vendor to mention the country of origin (manufacturing plant) of enquired Hybrid Ball Bearing offered.	Yes/No	Name of country of origin to be mentioned
2	Vendor to furnish drawings of the offered bearings. The technical data sheet of the same shall also be furnished as per requirements mentioned in Annexure-A.	Yes/No	Drawing & technical data sheet of offered bearing
3	Vendor should have experience of successfully supplying at least 40 nos. of hybrid cylindrical roller bearing type NU1014 (with rollers made from electrically insulated material), manufactured in the same manufacturing plant as that of offered bearings (mentioned at 1.a above) against subject enquiry, for traction application to some traction motor manufacturers or Indian Railways or other Railways, in preceding 5 years from enquiry opening date. Vendor to ensure that document submitted for b) and c) shall correlate with the submitted P.O. copy.	Yes/No	a. PO copies. b. Supply proof i.e. copy of invoice c. Name of country of origin of supplied bearings to be mentioned

Cl. No.	Description	Vendor to comment	
		Complied / Not complied	Complied / Not complied
4	Vendor should have experience of successfully supplying at least 40 nos. of hybrid ball bearing type 6214 (with balls made from electrically insulated material) manufactured in the same manufacturing plant as that of offered bearings (as mentioned at 1.b above) against subject enquiry, for traction application to some traction motor manufacturers or Indian Railways or other Railways, in preceding 5 years from enquiry opening date. Vendor to ensure that document submitted for b) and c) shall correlate with the submitted P.O. copy.	Yes/No	a. PO copies. b. Supply proof i.e. copy of invoice c. Name of country of origin of supplied bearings to be mentioned
5	Vendor to confirm that vendor or any bearing of its make is not banned by RDSO, Lucknow or any entity of Indian Railways/other Railways for supply of bearings in traction application.	Banned/ Not banned	Compliance required.
6	For verification of information furnished by vendor, additional documents proofs etc. may be required by BHEL. Vendor to confirm providing the same.	Yes/No	Compliance required.

Note:

1. Compliance of all the points in above T-PQR is mandatory. In absence of compliance of above, vendor's offer is liable to be rejected.
2. Information / compliance / documents submitted by vendor shall be authentic in all aspects. In case any deviation / false information / forged documents are observed, BHEL is free to initiate appropriate punitive proceeding against the supplier.

Important: This document is to be filled and submitted along with the offer. This document must be signed by authorized representative of the vendor and should contain the name of representative & seal of the company.

Date:

Seal and signature of authorized representative of vendor

Technical Specification for Rolling Contact Bearings**DRAWINGS AND TECHNICAL INFORMATION TO BE SUBMITTED WITH OFFER AGAINST TENDER**

Sl. No.	Details	Requirements	Details of offered bearings
1	Dimensional drawing of the bearing	Drawing of the bearing	
2	Type & Make of bearing	Details	
3	Significance of each suffix/prefix	Details	
4	Accuracy class: (Normal/P5/P6)	Details	
5	Suitability for application: (Traction/Industrial)	Traction	
6	Number of rollers & size	Details	
7	Radial internal clearance	NU1014 with FRC of 90 to 125 microns (C4). Ball Bearing 6214 with FRC of 59 to 71 microns (C4H).	
8	Axial clearance	Details	
9	Type of cage construction: (Standard/Drop roller)	Details	
10	Type of cage guiding: (Roller/Outer race)	Details	
11	Type of cage (Riveted/ Rivet-less)	Details	
12	Cage Material: (Brass/Steel)	Brass	
13	Material specification for rollers & races	Details	
14	Surface finish on rollers and races	Details	
15	Dynamic capacity of bearing	Details	
16	Static capacity of bearing	Details	
17	Bearing suitability for maximum operating speed of 5616 rpm, with Grease lubrication	Bearing must be suitable. Relevant documents for suitability to be shared.	