

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

*For uploading along with the enquiry*

Ref No: TME/PQR/IM3004AZ/Assembled Gear Drive Rev.02

Dated: 22/04/2025

**Technical Pre-Qualification Requirements (PQR) for “ASSEMBLED GEAR DRIVE”**

**Vendor should comply with the following clauses in order to qualify for supply of ASSEMBLED GEAR DRIVE (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 confirm supply of items as per the specification no. TM23620 (latest version) as mentioned in the enquiry.	Yes/No	Vendor to submit compliance of each clause of specification TM23620; duly signed and sealed. In case of any deviation w.r.t any clause of specification, supplier should specify the same in their offer.
2	<p>Vendor should be an original equipment manufacturer (OEM)** of Gear Drive assembly or its sister concern***/Indian subsidiary****.</p> <p>**→ Original equipment manufacturer (OEM) of gear drive assembly referred in the document shall be considered as a firm with design, manufacturing/assembly &amp; type testing capability and supply experience, for similar type of gear drive assembly as shown in Annexure 3 of specification TM23620.</p> <p>***→ OEM's sister concern referred in the document shall be considered as the firms that have a common parent company/common ultimate holding company of both the firms (OEM and vendor who has quoted against subject enquiry).</p> <p>****→ OEM's Indian subsidiary referred in the document are the firm that are registered in India and owned by/has share-holding of foreign parent company (OEM).</p>	OEM/ OEM's sister concern/ OEM's Indian subsidiary	In case of OEM's sister concern/ OEM's Indian subsidiary, vendor to furnish necessary documents* indicating the relationship with OEM, duly signed from OEM.

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3	<p>Vendor should have own facility for type testing of gear drive assembly and prior experience of carrying out the same, for similar configuration, as shown in Annexure 3 (wherein gear drive assembly along with fully suspended traction motor are in between the two wheels of an axle and input shaft (of gear drive assembly) centre line/ coupling axis is parallel to axle centre line) for testing at axle RPM corresponds to maximum operational speed of 180 Kmph of trainset.</p> <p><b>Note:</b> a) In case vendor is an OEM's sister concern/ OEM's Indian subsidiary of Gear drive assembly, the documents for compliance of this clause shall be either of OEM of Gear drive assembly or of its own.</p>	Yes/No	<p>a) Details &amp; photograph of facility [Photographs must indicate configuration of gear drive assembly w.r.t coupling (traction motor)]</p> <p>b) Type test report/ any document showing capability for carrying out type test at axle RPM corresponds to maximum operational speed of 180 Kmph of trainset in previous projects.</p> <p>All documents shall be duly signed by authorized representative of OEM of Gear drive assembly.</p>
4	<p>Vendor to furnish the tentative OGA drawing of offered gear drive assembly from OEM.</p> <p>OGA drawing of the offered gear drive assembly must include sufficient representation of gearbox views, all the necessary interface and mounting dimensions, coupling movement and relevant technical data, considered for offered gear drive assembly, meeting the requirement of Annexure 1 to 5 of specification TM23620.</p>	Yes/No	OGA drawing from OEM

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5	<p><b>Gear drive assembly supply experience:</b> Vendor should have experience of design, manufacturing of minimum 240 sets of gear drive assembly having operational speed of 130 kmph or above, to be used with fully suspended traction motors and supplied during last 10 years from enquiry opening date, to Rolling stock manufacturers or Traction motor manufacturers or Indian Railways or other Railways.</p> <p>Gear drive assembly supplied shall be for similar configuration as shown in Annexure 3 of specification TM23620; wherein gear drive assembly along with fully suspended traction motor are in between the two wheels of an axle and input shaft (of gear drive assembly) centre line/ coupling axis is parallel to axle centre line.</p> <p><b>Note:</b> a) In case vendor is an OEM's sister concern/ OEM's Indian subsidiary of Gear drive assembly, the documents for compliance of this clause shall be either of OEM of Gear drive assembly or of its own.</p>	Yes/No	<p>a. Document in support of maximum operational speed of gear drive assy.</p> <p>b. Document in support of application for which gear drive assembly had been supplied.</p> <p>c. PO/ Invoice/ Contractual document/any other documentary proof in support of supply of 240 sets of gear drive assembly (if required, financial details may be hidden) for similar application.</p> <p>d. OGA/photographs of supplied gear drive assembly indicating configuration of gear drive assembly.</p> <p>All documents shall be duly signed by authorized representative of OEM of Gear drive assembly or OEM's sister concern / OEM's Indian subsidiary along with its name &amp; designation.</p>
6	<p><b>Flexible coupling supply experience:</b> Vendor/vendor's source of flexible coupling should have experience of design, manufacturing of minimum 240 no. of flexible coupling (both motor &amp; gearbox half), for gear drive assembly having operational speed of 130 kmph or above, to be used with fully suspended traction motors and supplied during last 10 years from enquiry opening date, to Indian Railways or other Railways or Gear drive assembly manufacturers or Traction motor manufacturers or Rolling stock manufacturers.</p> <p><b>Note:</b> a) In case vendor is an OEM's sister concern/ OEM's Indian subsidiary of Gear drive assembly, the documents for compliance of this clause shall be either of OEM of Gear drive assembly or Coupling source of OEM of Gear drive assembly or of its own.</p>	Yes/No	<p>a. Document in support of maximum operational speed of gear drive assy. for which coupling is supplied.</p> <p>b. PO/ Invoice/ Contractual document/any other documentary proof in support of supply of 240 nos. of flexible coupling (if required, financial details may be hidden).</p>

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7	Supplier shall confirm supply of coupling of same make for which experience details are submitted as clause 6 above.	Yes/No	Not Required
8	For verification of information furnished by vendor, additional documents proofs etc. may be required by BHEL. Vendor to confirm providing the same.	Yes/No	Not Required

**Note:**

1. \* →The documents provided should be valid at the time of enquiry opening date.
2. 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.
3. 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, name and sign of  
authorized representative**