

Mandatory Pre-Qualification Requirements for Permanent Magnets (code W96414600016)

The Permanent Magnets are used for high speed rotating application in magnetic poles of Exciters for Power plant. Vendors not meeting **Pre-Qualification Requirements (Points 1,2 & 3)** shall be disqualified.

1. Vendor should confirm their process capability for manufacturer of Permanent magnets of **sintered AINiCo 30/10 grade of DIN 17410**. To support this, vendor to provide-

- i. Details of manufacturing facility for sintering process
- ii. Details of facility for machining / grinding
- iii. Details of facility for magnetizing / de-magnetizing
- iv. Details of inspection / testing facilities available in-house with vendor

2. Vendor must confirm their manufacturing capability as below-

- i. The vendor should have manufactured and supplied the **AINiCo** grade Permanent magnets (manufactured with **Sintered** process) of size minimum 60mm x 50mm x 25mm (LxBxH) OR weighing minimum 0.5 Kg/piece. List of Purchase orders (conforming to above requirement) with Date, Customer name, Dimensions, Quantity, Weight per piece, Total weight and Material grade of past supplies during last seven years from date of enquiry to be submitted. The total quantity of each Purchase order should be approx. 100 Kg or more.
- ii. Vendor should attach un-priced copies of at least two (02) purchase orders listed against point 2(i) above (of Sintered AINiCo grade magnets), along with detailed test certificates for tests conducted on Magnets (in-process, final stage inspection and type tests if any).
- iii. Vendor to confirm that they will meet all the requirements of BHEL specification TG60016 and drawing 31460101000.

3. **TESTING FACILITIES:**

The vendor should have facilities for carrying out the tests like chemical, mechanical, magnetic etc. The testing facilities should be duly calibrated against national or international measurement standards. If the vendor plans to outsource any activity, particulars of the same along with details of the sub-vendor/laboratory are to be furnished to BHEL.

4. Vendor should confirm that, in case of placement of order by BHEL, the magnets shall be supplied in De-magnetized condition and shall be suitably packed to prevent any transit damage. Following documents shall be provided with the dispatch documents
 - i. Test certificates
 - ii. Guarantee certificates
 - iii. Dimension reports

Notes:

1. BHEL reserves the right to verify the information submitted by the vendor. In case the information is found to be false or incorrect, the offer shall be rejected.
2. All the documents and correspondences should be in English/Hindi language.
3. If any document provided by vendor is in any language other than English/Hindi, it must be supported with its English translation.