



**PRE-QUALIFICATION REQUIREMENT (PQC)**  
for Single Phase Line Inductor for Hotel Load Converter  
**GROUP: TRACTION ENGINEERING**

Ref.: HLC/PQC/LI

Rev. No.: 01

Page 1 of 2

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**1. Scope**

- a) The Pre-Qualification Requirement (PQR) document specifies the requirements to be met by the vendors (hereafter called Bidder) who wish to participate in the tender for supply of for Single Phase Line Inductor for Hotel Load Converter.
- b) This PQR should be read in conjunction with the Technical Specification No. PS/445/2555, Rev. No. 01.

**2. Credentials**

- a) The Bidder should be Manufacturer or authorized dealer / supplier of Magnetics (Inductors/Transformers) used in Rolling Stock applications. Documentary proof like relevant POs / invoice copies, valid authorization certificate etc. shall be provided along with the offer.
- b) For the bidders from outside India, documentary proof of usage of the product in Rolling Stock applications shall be submitted. Acceptance of such documentation shall be at BHEL's discretion.
- c) The Rolling Stock Applications under consideration include Locomotive, EMU, MEMU, Metro Trains, High Speed Trains, Train sets, Coaches, Inspection Cars and Special Track Machines.
- d) The Bidder should not be under the category of "hold" or "blacklisted" by Govt. of India / any Govt. of India PSU / any of the BHEL units / statutory bodies of any state Govt. as on date of bid submission. A declaration to this effect shall be submitted along with the offer.

**3. General Requirements**

- a) It is preferred that the bidder is manufacturer of this item. If the bidder is importing the item, then minimum value addition in India shall be 20%. Bidder to confirm this in the offer. Value addition less than 20% is not acceptable. A declaration to this effect shall be submitted along with the offer.
- b) Technical bid of bidders, which qualify technically but are not approved for the subject item by the Customer Approving Authority (CAA), shall be referred by BHEL to the CAA for approval with intimation to the bidder.  
The Customer Approving Authority (CAA) shall be IR/ RDSO/ CLW/ BLW/ PLW/ ICF/ RCF/ MCF or any other agency as designated by the Customer.
- c) Consequent to the approval of CAA, the bidder shall be added to the vendor list of the subject item for future tenders. Concurrently BHEL shall consider placing developmental order on the bidder after accessing the capability of the bidder to manufacture / develop the subject item. However, BHEL shall treat the offer as "Not meeting" Pre-Qualification Criteria for the subject tender.
- d) The bidder should possess a valid type test report, as per the standards mentioned in the specification on date of bid submission in case of catalog items. In case of custom made items, bidder can submit type test report of an item of similar or higher rating with a declaration for conducting the type tests in case of award of order or developmental order.

Rev. 00

Approved by:

Agosh Chandran R S

Prepared by:

Girish Chand

Department:

Traction Engg.

Date:

02.05.2024



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The bidder can also submit the test reports conducted in their own facility with the document of their lab accreditation. However, BHEL reserve the right to insist on conducting the Type test again in a laboratory of its choice.

- e) For the bid of vendors already qualified and appearing in BHEL's source list, the requirement of type test report and proof of supply shall not be applicable.

**4. Quality System**

- a) The manufacturer should have valid ISO 9001:2015 (latest) certification covering the manufacturing and testing of the subject item.
- b) The manufacturer should possess a clearly laid down Quality Assurance Plan (QAP) for the product covering the following aspects:
- i) Organization Chart, clearly indication the quality control set up.
  - ii) Qualification of key personnel and officials deployed in the quality control cell.
  - iii) Process Flow Chart indicating process of manufacture for an individual product or for a family of products, if the process is same.
  - iv) Quality Assurance System – Inspection and Testing plan to cover
    - ❖ Incoming material
    - ❖ Process control
    - ❖ Product control
    - ❖ System control
    - ❖ Testing facility
  - v) Stage inspection details shall include the inspection procedure, inspection parameters, method of testing/ test procedure, sample sizes for destructive & non-destructive testing etc.
  - vi) Calibration scheme and status of calibration of test equipment
- c) The process, testing and measuring equipment shall be duly calibrated by approved agency and the validity of calibration should be current.

**5. Documentation to be submitted along with offer**

- a) Documentary proof for experience as per clause 2 (a).
- b) Clause by Clause compliance to the technical specification.
- c) Declaration regarding status as per clause 2 (d).
- d) Declaration on MII (Make in India) as per clause 3 (a).
- e) Declaration for conducting Type Test as per clause 3 (d).

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		Agosh Chandran R S		
		Prepared by:	Department:	Date:
		Girish Chand	Traction Engg.	02.05.2024