

Invitation of

Expression of Interest for
Technology Transfer of
Cast Resin Dry Type
Transformer Design and
Manufacturing

Transformer Engineering Department
BHEL Jhansi

About Bharat Heavy Electricals Limited

BHEL is a premier engineering and manufacturing organization, majority owned by Government of India, catering to core infrastructure sectors of India economy viz Power Generation and Transmission, Industry, Transportation, and Renewable Energy. The company has 14 manufacturing units, 4 Power sector regions, 8 service centers and 15 regional offices, besides host of project sites spread all over India and abroad. BHEL supplied equipments account for 65% of total thermal generation capacity in India and contribute 73% of the total Power generation in the country.

BHEL Jhansi is one of the manufacturing units of BHEL. BHEL Jhansi is having two Main Products i.e. Transformers and Locomotives. The Transformer division is in the market of all type of Transformers i.e. Power Transformer, Rectifier Transformer Cast Resin Dry type transformer, Instrument Transformer, EMU Transformer, Furnace Transformer, ESP Transformer, Earthing Transformer, and Single phase railway Transformer. BHEL Jhansi manufactures Power Transformer of upto 220kV and 250MVA and Cast Resin Dry Type transformers upto 33 KV Class and 10 MVA. The Locomotive division is in manufacturing of Electrical and Diesel Locomotives. BHEL Jhansi is presently developing AC EMU coaches for Indian Railways and has developed WAG7 electric loco, DE Shunters in the range of 350 hp to 1400 hp, various other utility vehicles including Rail cum Road Vehicle, Battery Powered Road Vehicle, dynamic track stabilizer, ballast cleaning machine, Hoist assembly for ship lift system etc. BHEL Jhansi is also expanding its manufacturing capacity in Power Transformer, Cast Resin Dry Type Transformers and Locomotive, and also entering in 400kV Power Transformer market. Presently BHEL Jhansi is having huge order of Transformers and WAG7 Locos.

Scope of Work

The turnover of Transformer division, making different type of transformers, for financial year 2010-11 is more than Rs. 7000 Million (about 150 Million US Dollars). BHEL Jhansi is making cast resin transformer using fiber glass reinforced liquid epoxy casting system and copper windings made up of profiled rectangular copper conductors. The transformers produced with this method are robust but expensive. Considering the increased competition and growth of alternative technology to produce more cost effective cast resin transformers, BHEL Jhansi is now looking for the technology to make Cast Resin Dry Type Transformers using Quartz Filled Epoxy Resin Casting System and windings made up of Aluminium / Copper foils.

BHEL wants to have technology for design and manufacturing of cast resin dry type transformers using quartz filled epoxy resin system and aluminum /copper foil windings. The range of transformers should cover from 50 KVA to above 10 MVA and voltage class upto 45 KV Class.

Firms engaged in manufacturing of these type of cast resin transformers with their own proven technology with their transformers manufactured and tested successfully for all type and special tests including environmental and climatic tests as per latest IEC-60076 Part 11 can apply.

Procedure for Registration

Details received will be scrutinized by BHEL and bidders found having proven technology for design and manufacturing of Cast Resin Dry Type Transformers will be registered for this work. Subsequently tender for finalization of the technology transfer contract will be issued to all registered contractor.

Proposal

Interested parties may submit their Expression of Interest by 1:30 PM on 15th September, 2010.

Expression of Interest should be accompanied by:

- Details on company background
- Experience list (with details) of execution of various rating of cast resin transformers manufactured (copy of type and special test certificates to be enclosed)
- List of technical competent person with specialization in related field
- Annual financial report of at least last two years, etc

The proposal incorporating above details may be sent at following address:

AGM (TRE&FES)
Transformer Engineering Department
Bharat Heavy Electricals Limited
Jhansi (Uttar Pradesh) – 284129

Phone No: +91-(0)510-2412709

Fax No: +91-(0)510-2412118

e-mail: arkuls@bheljhs.co.in

Any clarification on technical details may please be addressed to following:

Rajeev Agarwal, Sr DGM (TRE), Phone No: +91-(0)510-2412422; Cell: +91-9453001111, e-mail: ragrawal@bheljhs.co.in