



LME:012: C

**BHARAT HEAVY ELECTRICALS
LIMITED, Jhansi**

SPECIFICATION

BHEL/ EOI/FES

ISSUE DT:

REV.NO.- 00

REV. DT:

SHEET 1 OF 6

**SUBJECT: SPECIFICATION FOR SELECTION OF VENDOR
REQUIRED FOR COMMISSIONING AND ATTENDING
SITE PROBLEM UNDER WARRANTY/OUT OF
WARRANTY FOR DESL**

Enclosures:

Rev	Date	Prepared	Rev	Date	Prepared	Rev	Date	Prepared
		Approved			Approved			Approved



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1.0 General:

Presently, BHEL Jhansi is in locomotive division is doing design manufacturing testing and supply of Diesel Electric Shunting Locos & Electric locos. In the field Diesel Electric locomotive BHEL Jhansi is manufacturing the diesel locos ranging from 350HP to 1400 hp with following variants

350 hp loco with Caterpillar engine

350 hp loco with Cummins India Engine

700 hp single power pack loco with Cummins India Engine

700 hp Twin power pack loco with Cummins India Engine

1400 hp locomotive with Cummins India Engine

The above locomotives are supplied to non Railway Customers like Power plants, Cement Industries, Steel Industries, Port trusts and coal Fields etc.

This specification broadly covers technical and qualifying requirement of vendor and broad details and responsibilities of vendor in establishing commissioning and attending complaints of DESL under warranty or out of warranty

Through this expression of interest the interested parties are requested to show their interest

2. Scope of work at customer works.

2.1 New Locomotives

When new loco is received at customer end, presently the commissioning is done by BHEL technical staff and the guaranteed performance parameters are shown to the customer. The total activity involves pre commissioning check. starting of diesel engine and locomotive, load haulage as agreed etc. any problem on any subsystem of locomotive is also attended

Broadly the pre commissioning check involves following activities

A)Electric connection check points

Control Desk 1&2(TB end/Device Connections end)

Control cabinet(TB end/Device Connections end)

Pneumatic Console (TB end/Device Connections end)

Generator /Alternator.

DC Junction Box

Starter motor..

Traction Motor Junction Box 1&2.

Instrument Panel 1&2



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B) Battery Condition check

Electrolyte Gravity
Battery Voltage
Battery connected in Electrical circuit

C) Traction motors check

Carbon Brushes are in position
Cardium Compound in gear case
Oil in Axel Boxes

D) Engine Check

Locking of coupling/Foundation Bolts.
Fuel line connection.
Coolant level , Fuel level , Engine oil level.

E) Compressor /Exhauster

Oil check
Belt Tension /Coupling Bolt locking

F) Traction motor Blower

Belt Tension / Coupling Bolt locking
Foundation Bolts.

G) Brake System Check

Brake shoe. Brake Key-For wear, fitment etc.
Brake Cylinder for hose connection and air leakage etc.
Hand Brake operations check.
Main Reservoir and Brake Cylinder attachment and holding

After commissioning the locomotive is handed over to the customer and commissioning certificate is obtained.

2.2 Scope of work for old locos

The diesel locomotives which are already in service for long time requires to be reconditioned at customer works. The broad scope of work shall be as under

Re-wiring of locos as per customer's order.
Re-piping of locos as per customer's order.
To attend electrical/pneumatic/mechanical complaints of locos after warranty period
To provide support to BHEL Bhopal staff at site to attend the loco for control and traction equipment
To carry out any modification as per customer's requirement.
The detail scope of work with technical details shall be provided on receipt customer order at final tender stage.



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3. Qualifying Criteria:

Vendor shall have experience in commissioning and maintenance of DESL type of locos for the said product range mentioned at para 1 of spec. vendor shall submit experience certificate of firms where he has done these type of work.

Documents and other requirements

- a. Documentary proof that the vendor is a registered private or public legal entity. Copies of PAN Card, Service Tax Registration, labour licence, PF and ESI code and last three years income tax return (year 2010-11, 11-12, 12-13), balance sheet and profit and loss account, attested by Chartered Accountant must be submitted.
- b. Self certificate that the Bidder is not prohibited under any Applicable Law from submitting the bid or executing the Agreement and performing its obligations there under and also has never been found guilty by a court of law in India for any crimes of fraud, dishonesty or moral turpitude, has never been black listed by any BHEL unit or any other organization. Further the bidder must undertake to abide by all statutory and regulatory requirements while carrying out work at BHEL Jhansi.
- c. The vendor must comply all the labour laws imposed by central Government/ state government local administration body and to comply all the safety and statutory norms

4. SELECTION PROCEDURE FOR VENDOR

The vendors satisfying our qualification criteria will be invited for technical meeting at BHEL Jhansi. The vendors will be expected to give a brief presentation followed by a discussion with BHEL officials and subsequently tenders / price bids will be invited from shortlisted vendors.

5. INSTRUCTIONS TO BIDDERS

1. This **Expression of Interest** (EOI) conditions & specification as a whole, furnishing all the details and other documents as required, shall be duly signed and sent as in a sealed cover boldly super scribing the name of work as given in the EOI notice.
2. The EOI shall be addressed to following :
Sh A P PATERIA
Sr Manager LFE
BHEL Jhansi – 284129
PH NO 0510 2412646, 9453001072
Email: pateria@bheljhs.co.in



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Sealed EOI to be submitted (i) personally, (ii) by Courier, or (iii) by post shall be sent as "REGISTERED POST ACKNOWLEDGEMENT DUE". EOI shall be sent/posted with due allowance for any transit/postal delay. The tenders received after due date and time of opening are liable to be rejected. Telegraphic offers and offers received by telex/fax may not be considered unless confirmed in writing by a detailed offer. The decision of acceptance of such offers solely rests with BHEL.

The vendor shall closely peruse all the clauses, specifications indicated. If the vendor has any doubt about the meaning of any portion of the Specifications or find discrepancies / omissions in the specification documents issued are incomplete or shall require clarification on any of the technical aspect scope of work etc., he shall at once contact the authority inviting the tender for clarification before the submission of the EOI.

3. Before submitting their EOI the vendors are advised to inspect the site of work and the environments and be acquainted with the actual working and other prevalent conditions, facilities available, position of material and labor. No claim will be entertained later on ground of lack of knowledge after submission of the tender.
4. Bidder must fill the schedules and furnish all the required information as per the instructions given in various sections of the this document and specification. Each and every page of the Tender Specification must be SIGNED, STAMPED AND SUBMITTED ALONG WITH THE OFFER by the bidder in token of complete acceptance thereof. The information furnished shall be complete by itself.
5. The bidder shall quote their offer in English Language using international numerals. For the purpose of the tender, the metric system of units shall be used.

6 OTHER TERMS AND CONDITIONS

1. The short listed vendors shall submit their techno-commercial quotations with all the terms and conditions against final tender for the scope of new locomotive. Approximately 12-15 locomotives are to be commissioned per annum including all rating of DESL.
2. For revamping of old locomotive tender shall be floated after receipt of customer order along with detail scope of work with site detail and vendor shall have to submit techno-commercial offer with full detail.



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