



LME: 012: C

LOCOMOTIVE ENGINEERING DEPTT.

PURCHASE SPECIFICATION

LME/PUR/329

ISSUE DT: 26.07.2016

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SPECIFICATION

FOR

**RECTIFICATION & MAINTENANCE OF OF 2 NOS. DYNAMIC TRACK
STABILIZER (DTS) MACHINES DURING WARRANTY PERIOD**

Enclosures:

1. **Technical Specification of DTS (Annex-I)**
2. **O & M manual (Annex-II)**
3. **Schematic diagram (Annex –III)**

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		Approved			Approved			Approved
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		Approved			Approved			Approved

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Distribution: LMM. (001) LMP (002) Loco QC (003) Tech. (004) CQX (005) LME (DV) Master folder (006) (Original copy)



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I. GENERAL:

BHEL had undertaken development of electrical Dynamic Track Stabilizer (DTS) machines in collaboration with M/s MTH Praha of Czech Republic. As per contract with Indian Railways, 2 No DTS machines were manufactured & supplied in line with Indian Railways (IR) specifications. All the major components had been supplied by MTH. The assembly of DTS was done at BHEL Jhansi under the guidance of MTH personnel.

Since DTS was designed by MTH, BHEL doesn't have any design details of Hydraulic /Electrical Controls /Systems/Components etc. However, O & M manual, Electrical schematic diagram etc. of DTS machine provided by MTH, are available.

Both the machines have been running in NCR division with Engine Run times of around 3000 hours each with certain running faults, some of which have been rectified by BHEL from time to time.

The vendor to study the mechanism & working of machine & thereafter, will take rectification of existing / future problems and maintain both these machines until the expiration of extended warranty period (presently up to 31.01.2017). Consequently, vendor is required to furnish a certificate issued from Indian Railways accepting the successful completion of extended warranty period of both the machines, i.e. DTS-122 and DTS-123.

II. Presently existing problems in DTS machines (DTS-122 and DTS-123):

DTS-122:

1) AC Unit Not Working:

DTS is equipped with Air conditioning arrangement in the Working Cabin. Presently, the AC unit of DTS-122 is non-functional. Vendor to rectify the problems Air conditioning system and make it operational.

2) Auto Mode Not Working: Vendor to make the auto mode operational.

3) Variation in Working Drive Speed:

Occasionally, the working speed has sudden variations.

4) Vibration motor have a non-zero jog speed:

5) Poor Braking System:

Vendor to check the Braking system and rectify it, if required.

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DTS-123:

1) AC Unit not working:

DTS is equipped with Air conditioning arrangement in the Working Cabin. Presently, the AC unit of DTS-123 is non-functional. Vendor to rectify the problems Air conditioning system and make it operational.

2) Auto Mode Not Working: Vendor to make the auto mode operational.

3) Poor Braking System:

Vendor to check the Braking system and rectify it, if required.

III. Scope of work (2 nos DTS machines):

- 1) Vendor to resolve all above existing issues of both machines by deputing manpower along with required tools / spares etc. at Indian Railways site as per IR requirement.
- 2) Vendor to maintain both machines in time bound manner acceptable to Railways, during warranty period by attending reported faults / supply of spares (if required) for all items / equipment fitted in DTS machines, with no additional cost to BHEL.
- 3) In case of new problems observed in DTS during warranty period, Vendor to undertake the rectification work at site as per Railways requirement in time bound manner, with no additional cost to BHEL.
- 4) Vendor shall assist in field trials of DTS machines, after rectification of problems at sites, as per IR requirement.
- 5) Vendor shall undertake the responsibility that rectified DTS will meet all working requirements as stipulated in IR specification and ensure minimum down time as acceptable to Railways, until the expiration of extended warranty period of both the machines.
- 6) In case of consequential damage of any item / equipment arising due to improper maintenance / faulty maintenance / use of wrong spares etc., Vendor shall attend all such consequential damages promptly on their cost and make the machine operational as soon as possible.
- 7) If warranty of DTS machines is further extended by Indian Railways, Vendor's maintenance obligation towards these machines will automatically get extended by same period.
- 8) Vendor shall submit monthly performance report of both machines duly signed by IR officials to BHEL Jhansi.
- 9) On completion of warranty period, Vendor to submit a certificate issued from Indian Railway Board accepting that the warranty of both the machines, i.e. DTS-122 and DTS-123 has successfully been completed.

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IV. Document Submission with the offer:

Vendor to submit the following documents with the tender bid: Techno-commercial offer (Technical bid and Price bid in separate envelops).

1. Stage wise detail activity schedule with time frame for rectification of existing problems.

Note-The contract value shall be on firm price basis. Taxes and duties shall be extra, prevailing at the time of billing.

V. Document Submission after completion of contract:

1. Revised scheme / write up (applicable if scheme modified by vendor)
2. Revised Parts Catalog (applicable if alternate part used in machine)
3. Revised O & M manual (applicable if scheme modified by vendor)
4. Revised training manual (applicable if scheme modified by vendor)

VI. Qualifying Criteria:

1. Vendors must have minimum 3 year of experience in manufacturing, commissioning or maintenance of complete track maintenance machines of Indian Railways (IR) or any other Railways abroad.

AND

2. Vendor must have minimum 3 year of experience in maintenance of computer based automation systems /sub-systems of track maintenance machines of Indian Railways (IR) or any other Railways abroad.

AND

3. Vendor to submit Performance Bank Guarantee (PBG) from a Nationalized Bank, equivalent to 20% (twenty percent) of the basic contract value, within 30 days from the date of contract. In case of non-compliance by vendor regarding the work performance in according to the contract or failing in Completion Criteria, BHEL reserves the right to encash the performance bank Guarantee and close the contract with vendor.

Note: Foreign vendor if operating through Indian agent should have only one Indian agent duly authorized by principal.

VII. Completion Criteria:

Vendor to submit a certificate issued from Indian Railway Board accepting that warranty of both the machines, i.e. DTS-122 and DTS-123 has been successfully completed. Payment shall be made only after submission of warranty completion certificate issued by Indian Railways.

Kindly visit BHEL website www.bhel.com OR follow the link http://www.bhel.com/tender/tender_home.php. For any queries / clarifications, contact Mr. Umesh Kumar, DGM (Loco Design), BHEL, Jhansi (U.P.) Mob: 9453001094, Phone 0510-2412263, 2412506, Fax- 0510-2412114, E-mail- umeshkumar@bheljhs.co.in / rizwan@bheljhs.co.in

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