

- b) Hardware up-gradation will be on chargeable basis for which separate contract shall be entered into by IR. However the hardware (i.e. card etc) failing frequently should be replaced/upgraded free of cost. The decision of nominated officer of IR with regard to replacement/upgradation of hardware on chargeable/free of cost basis shall be final and binding on firm.
- c) Software up-gradation and related adequate training for the Shed staff will be done free of cost.
- d) Cables and Electrical items in the C.P. other than Microprocessor system are not included in the Comprehensive maintenance contract. However special cables (like shielded cables) of microprocessor & Transducers are included in contract. The major components list of various make Microprocessor Control System working on I. Rlys is placed at **Annexure B3**.
- e) Preventive maintenance schedule has to be prepared by successful tenderer and shall be got approved by Nominated Officer of Zonal Railways.
- f) Procedure for handing over and taking over of Locomotives before and after maintenance, specially with regard to documentation procedure to be followed, should also be got approved by successful tenderer from the nominated officer of IR.

3.4.1 The contractor shall ensure that downtime on account of all maintenance (Preventive and breakdown) of Microprocessors does not exceed an amount equivalent to 5% of total loco hours for the locomotives covered in the contract. Downtime account shall be carried out every month and the contractor has to ensure not less than 95% availability on Microprocessor account, calculated Zonal Railways wise.

In addition, at no time, more than 5% locomotives will be under breakdown repair on Microprocessor account i.e. the number of locos under breakdown at 0.0 hrs daily shall not exceed 5% of the locomotive under contract, on each zonal Railway.

3.5 The locomotives not covered under manufacturers' warranty for Microprocessor Control system shall only be included under the annual maintenance contract.

4.0 PLACE OF WORK

The maintenance/breakdown will be normally carried out at designated sheds only. However, in case of emergency failure at any location, not included in the contract, and if it is not possible to bring the loco to the designated shed, the contractor's service engineer shall reach within reasonable time from the Railways request logged on contractors toll free service number / written communication like Fax, etc.

Since every such failure will involve some transit time etc. before the locomotive can be handed over to contractor for repairs, and since actual transit time is not in the control of the contractor, it is agreed that for purposes of downtime calculation, the actual time taken from failure of loco to the time loco is handed over for maintenance at the designated shed or a maximum of 36 hrs whichever is less will be in addition to the time for actual maintenance/Serviceing.

5.0 AUTHORITY FOR OPERATION OF CONTRACT

The Price agreement, for trouble free operation of Microprocessor control system of ALCO locomotive shall be operated by the Zonal Railway. Based upon this agreement, contract shall be entered into by Zonal Railways.

The User Railway shall nominate an officer designated as nominated officer for the purpose of such contract this tender, who shall be the nodal officer for liason with the contractor and the respective Zonal Railways.

6.0 RESPONSIBILITIES OF PARTIES

Following are the responsibilities of Railways and the Contractor.

FORMEDHA SERVO DRIVES PVT. LTD.

Manager (Marketing)

विधीक्षित

सहायक वित्त सहायक
डी.एम. डबल्यू.पटियाला

मुख्य सामग्री प्रबन्धक
Chief Materials Manager

डीजल रेलइंजन सार्वजनिकीकरण विभाग
Diesel Loco Mater