

SPECIFICATION FOR MECHANICAL UNIT INJECTOR TESTING & CALIBRATING MACHINE FOR HHP DIESEL LOCOMOTIVE

A. Major parameter

1. **Test stand/bench-** for Testing & calibration of mechanical unit injector fitted on HHP locomotive & FIP of 17, 18mm FIP on Alco locomotive. Test stand should have twin cam box driven by common shaft which accommodate 01 no. of MUI & 01 no. of Alco FIP.
2. **Voltage stabilizer:** - servo controlled branded type
3. **Motor power:-**15Kw to 20 kw with high torque.(200Nm up to 800 rpm)
4. **Speed range-**Adjustable, 0-1500 rpm.
5. **Direction of rotation:-** Bi directional
6. **Speed variation:** - variable frequency.
7. **Tank capacity-** 50 to 100 liters.
8. **Motor-** 0.5 to 1.0 kw, 1500rpm
9. **Heating-** 2.5 kw to 3.5 kw
10. **Temperature control range** - 20⁰ to 60⁰
11. **Temperature accuracy-** $\pm 1^0$
12. **Manometer** – 0 bar to 5 bar for inlet inlet & 0 to 60 bar for high pressure gauge.
13. **Display details** -5.5" – 10" color LCD, display accuracy of machine should be around 0.1cc for calibration of MUI
14. **Fuel quantity measurement-** measuring glass tube (500 & 600 ml).
15. The machine should be capable of performing test of the nozzle characteristics, chattering test, leak off test, spray pattern, & opening pressure test.

B. Spares - Nil

C. Concomitant accessories (Standard accessories)

1. Alco master pump pump –low idle -01 no.
2. Alco master pump pump- full load -01 no.
3. Test injector-01 no.
4. High pressure pipe.-01 no.
5. Laser printer to take print out of result obtained.
6. Machine should be supplied with 02 nos. service/ maintenance manuals copies

D. Warranty – Required for 24 months from the date of commissioning.

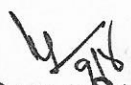
E. Special Requirement – Supplier should ensure effective after sale services and supply of spare during and after warranty period for 10 years minimum & should provide on the spot training by firm to shed staff.



ADME (D)/NKJ

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जई कटनी जं (अं००) पंजोरेला
Asst. Div. Mech. Engr. (Diesel)
New Katerni Jn. (M.P.) W.C.R.



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