



SPECIFICATIONS OF HYDROGEN DE-EMBRITTLMENT TESTING MACHINE.

1. Hydrogen De-embrittlement Testing Machine will consist of Machine base with top plate and guide rod top plate and adaptor (6 Nos) of only one type.
2. Guide rod, guide bushes, guide housings, screw nut and screw rod to withstand a load of 5 tonnes maximum.
3. Geared motor with VFD, push buttons and electrical box. Once the set load is reached, the motor will be automatically switched off and then monitoring of load will start for the set time.
4. A load cell of 5 ton capacity will be used.
5. A digital load indicator, micro-controller controlled based programmer with mains cum battery operated system. (UPS will be provided for power backup).
6. The programmer will have timer and alarm facility.
7. The programmer attached to the machine shall have the facility to adjust and set the date and time with alarm.
8. The machine will have the facility to hold the break load in case of failure of component. The loading motor will be immediately switched off in case the failure is during loading. During the test if the specimen breaks, the load will be freezed in the digital load indicator and the timer will be stopped and alarm indication will be given. The alarm will have facility for switching on and off as required.
9. When test is completed to the set time (Example : 200 hours), the machine will give a test completion alarm.
10. The machine will load the specimen smoothly and slowly while applying and releasing the load and will be free of vibration.
11. The machine will be installed and commissioned at your works.
12. Onsite practical training for usage of the machine will be conducted by us.
13. Load Cell will be accompanied with calibration certificate traceable to NABL.
14. Instrument operating manual with trouble shooting will be supplied.
15. Master load cell and indicator will be supplied along with the machine. This can be used for calibration verification at your end. The master load cell and indicator can be sent to our works for calibration on a yearly basis, when required.

M.V. Balaji
