

28-04-2018

Annexure to Indent:R5781170Technical Specification for Electrical Actuators – dadri project:

Non-intrusive Hardwired Electric actuators with integral starters along with associated accessories etc. shall be supplied on as required basis compatible for all Valves / Dampers to meet the functional and the other specification requirements. The actuators shall be totally enclosed weatherproof with IP-68 degree of protection. All actuator settings including torque, limit shall be possible without opening the actuator cover and LCD indication for actuator alarms, status, valve position indication and diagnostic information shall be available integral to actuator body.

The motor shall be squirrel cage induction motor, class F insulated suitable for Direct On Line (DOL) starting. Single Phasing Protection, Over heating protection through Thermostat (as applicable) and wrong phase sequence protection shall be provided over and above other protection features standard to design.

The Position/ Limit measurement shall be done using absolute encoders which will give information of position/ limit in both the directions. Electronic measurement of torque shall be provided. Open/Close command, open/ close status and disturbance monitoring signal (common contact for Overload, Thermostat, control supply failure, L/R selector switch at local & other protections operated) shall be provided hardwired.

All actuators shall be certified for SIL 2 or better.

Further, 5 Nos. configuration/ diagnostic tool (if applicable) for non-intrusive actuators shall be provided for complete package.

For erection and commissioning of above specified actuators, qualified and experienced engineers of actuator manufacturer shall be deputed at site.

Training should be provided for BHEL/NTPC personnel (min. 2 days) for troubleshooting and maintenance of non-intrusive actuators and proper interfacing with DDCMIS.

