

Project: Darlipalli Aux

Sub: Condensate Pump - Motor C&I Check list

- a) LT Motor is rated for 415V , 3 Ph , 50 Hz.
- b) Motor shall be High Efficiency Motor (IE2) as per IEC 60034-30
- c) Cable glands and lugs are included in motor vendor scope. Cable details for the same shall be furnished to the finalised Pump vendor. Refer Cl. No. 20.3 of Motor specification for tentative cable size. The terminal box of motor shall be suitable for selected cable size, easy termination and maintenance of cables.
- d) Motor shall be suitable for frequency of 50 Hz with variation of +5% and -5%
- e) Combined Voltage and Frequency variation shall be limited to 10 %
- f) Paint shade : RAL 5012 (Blue), epoxy finish
- g) Degree of protection : IP 55
- h) Noise level limitation : 85 dB(A)
- i) Motor Fault level shall be limited to 45 kA , RMS , one second .
- j) The ratio of **locked rotor kVA at rated voltage to rated kW** shall not exceed the following
(**without any further tolerance**)
Below 110 kW: 10.0
From 110 kW & up to 200 kW: 9.0
- k) Separate TB to be provided for space heaters also*
- l) Motor **kW rating and full load current** shall be furnished.*
- m) Selected motor kW rating shall be with 15% margin over the duty point input or 10% over the maximum demand of the driven equipment, whichever is higher.
- n) **MOTOR MAKES:** M/s KEC (upto 90 kW only) / CGL / Marathon / Jyoti / BBL (upto 160 kW only) / LHP (upto 120 kW only) / ABB Bangalore / Siemens
- o) Vendor shall submit "duly filled in" motor data sheets, in the attached format in an event of order (Format Attached)*
- p) Documents of finalised vendor are subject to BHEL/NTPC approval .*