

Project: New Neyveli 2 x 500 MW

Sub: SW Booster Pump - Motor C&I Check list

- a) LT Motor is rated for 415V, 3 Ph , 50 Hz.
- b) Motor shall be High Efficiency Motor (**IE3**) 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 Voltage variation of +10% and -10% & for frequency of 50 Hz with variation of +3% and -5% respectively.
- e) Combined Voltage and Frequency variation shall be limited to 10 % (absolute sum)
- f) Paint shade : Paint shade : 631 as per IS-5
- g) Degree of protection: IP 55
- h) Noise level limitation: 85 dB (A) at 1.5m from motor
- i) Motor Fault level: For 415 V, 50 kA for one second.
- j) *Motor **kW rating and full load current** shall be furnished.*
- k Maximum continuous motor ratings shall be at least 15% above the maximum load demand of the driven equipment under entire operating range including voltage and frequency variations.
- l) **MOTOR MAKES: ABB/Bharat Bijlee Limited/ BHEL/ Crompton Greaves Limited/ Jyothi/Kirloskar Electric Company Ltd/ Marathon Electric Motors/ Siemens**
- m) *Vendor shall submit "duly filled in" motor data sheets, in the attached format in an event of order (Format Attached)*
- n) *Documents of finalised vendor are subject to BHEL/Customer approval .*