

QUALIFICATION REQUIREMENTS

1. Bidder shall have in-house capability of design, manufacturing and testing for the 2.8 MWe 6.6 KV or higher rating motor adequate to execute the present work.
2. **Bidder shall** have in-house design capability of induction IEC 60034 (All Parts): Rotating Electrical Machines IS 14578: Three-phase induction motors for use in nuclear power plants – Specification.
3. **Bidder shall have in house test facility for various test like** Temperature rise test, Load test and derivation of performance, Operation of motor at reduced voltages, second numerical test, Terminal voltage decay test, Speed decay test, Momentary over load test, 100 hrs endurance test, Phase sequence and direction of rotation test, Functional tests on accessories of motor, Vibration and noise level measurements, Over speed test etc.
4. **Bidder or his consultant shall have** in house test facility for various Equipment qualification tests like Radiation (50 Mega rad), Thermal chambers, Test of degree of protection IP55, Electrical tests on coil and terminal box etc.
5. **Bidder or his consultant** shall have the capability of design as per as per ASME Section-III NB/NC and shall have capability to design flywheel as per USNRC regulatory guide 1.14 Rev 1.
6. Bidder shall have a quality assurance setup in his organization for electrical as well as mechanical components and shall have level-II qualified personnel for NDE Practices, namely, RT/ UT and LPE as their employee.

Note:-

- Bidder shall submit the documents like list of equipments/machines/fabrication facilities, design report for motor, list of qualified personnel and their valid qualification certificates, Design reports duly approved by purchaser, Past completed purchase orders, details etc. for the establishment of bidder's capability in execution of the present work.

- NPCIL shall evaluate the capabilities of the bidder based on the submitted documents and physical verification of the facilities/capabilities at the bidder's premises by NPCIL.

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21/01/2025

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