

List of Equivalent Qualifications

SNo	Branch of Engineering	Equivalent Branch of Engineering
1.	Mechanical Engineering	Candidates possessing the following qualifications may also apply for Mechanical Engineering posts: 1. Power Plant Engineering 2. Thermal Engineering
2.	Electrical Engineering	Candidates possessing the following qualifications may also apply for Electrical Engineering posts: 1. Electrical & Electronics Engineering 2. Electrical Instrumentation & Control Engineering 3. Power Systems & High Voltage Engineering 4. Power Plant Engineering
3.	Control & Instrumentation Engineering Electronics Engineering	Candidates possessing the following qualifications may also apply for Control & Instrumentation, Electronics Engineering posts: 1. Electronics Engineering 2. Electronics & Instrumentation Engineering 3. Electronics & Communication Engineering 4. Instrumentation Engineering

Details of Functional Experience required

SNo	Position (Post Code & Discipline)	Functional Experience required should be in any of the following areas
1.	PE 01 – Mechanical Engineering	<ul style="list-style-type: none"> • Basic and detailed System Engineering of Overall Power Plant involving equipment like Turbines, Generators, Utility Boilers, HRSGs etc • Engineering of the Sub-systems involved, like Fuel System, Air Systems, Water System, Fire Protection System, HVAC System, Power plant Piping, Energy Management, Emission Monitoring, Effluent Treatment etc. • Design of Power Plant and equipment Layouts • Detailed Design including Drawings, Design calculations and preparation of Specifications & BoMs for various Sub-systems or equipments mentioned above • Field support in Erection and Commissioning of the sub-systems or equipment mentioned above • Technical Support in Procurement of the sub-systems or equipment mentioned above.
2.	PE 01 – Electrical Engineering	<ul style="list-style-type: none"> • Basic and detailed System Engineering of Overall Power Plant involving equipment like Turbines, Generators, Utility Boilers, HRSGs etc • System Engineering of the Sub-systems involved like Electrical Distribution System, Power Evacuation Systems including Transformers / Switchgear, DC Systems, Integrated and dedicated Electrical Controls, Protection and Monitoring systems, Power plant Cabling and Earthing, Energy Management and SCADA etc. • Overall Power Plant Layout Design • Detailed Design including Drawings, Design calculations and preparation of Specifications & BoMs for various Sub-systems or equipments mentioned above • Field support in Erection and Commissioning of the sub-systems or equipment mentioned above • Technical Support in Procurement of the sub-systems or equipment mentioned above.

3.	PE 01 – Control & Instrumentation Engg PE 01 – Electronics Engineering	<ul style="list-style-type: none"> • Engineering of the Sub-systems involved, like PLC, DCS, Integrated and dedicated Process Controls, Power plant Field Instruments, Control Valves, Flow device sizing, Control and measurement schemes, drive lists and signal lists etc. • Detailed Design including Drawings, Design calculations and preparation of Specifications & BoMs for various Sub-systems or equipments mentioned above • Field support in Erection and Commissioning of the sub-systems or equipment mentioned above • Technical Support in Procurement of the sub-systems or equipment mentioned above.
4.	PE 02 – Mechanical Engineering PE 02 – Electrical Engineering PE 02 – Control & Instrumentation Engg	<p>Quality Control and Quality Assurance procedures in procurement and installation of equipment involved in Power Plants, Oil & Gas Refineries and Petrochemical complexes.</p> <p>This should include experience of developing Quality Control and Assurance plans and thorough Knowledge of Test & Inspection methods related to equipment mentioned above.</p>
5.	PE 03 - Mechanical Engineering	<ul style="list-style-type: none"> • Project Management and Customer co-ordination for Power Plant EPC Projects from Order receipt to Contract closure including Commercial activities like Commercial Billing, Annual Budgeting etc. • Planning and co-ordination of tasks involved in EPC Contract execution including L-3 networks, Budget controls, project reviews, MIRs, etc.

Applicants should be aware of latest standards, statutory regulations and codes of practice applicable for activities in their respective areas of work, so that their outputs are complying with the state of art professional requirements. Applicants should have hands on experience on software packages for sizing, calculations, MIR reporting etc., as relevant to individual job profile and activities.

Candidates with Functional experience as detailed above, in any one of the following type of organisations viz., Engineering Consultants or EPC companies or Main Power generating equipment manufacturers, having ISO 9001 certification can apply.

- Reputed Engineering Consultants engaged in Consultancy of Turnkey Power projects / Cogeneration Projects / Oil & Gas Refineries / Petrochemical complexes. The Organization should have been the Engineering Consultant for Design and Engineering of minimum 2 currently operational
 - a) Thermal / Cogeneration Power Stations of at least 20MW each during the last 5 years **OR**
 - b) Oil & Gas Refineries / Petrochemical Complexes of Project value of Minimum Rs 300 crore each during the last 5 years
- Reputed EPC companies engaged in Engineering, Procurement and Construction of Turnkey Power projects / Cogeneration Projects / Oil & Gas Refineries / Petrochemical complexes. The Organization should have been main EPC contractor for minimum 2 currently operational
 - a) Thermal / Cogeneration Power Stations of at least 20MW each during the last 5 years **OR**
 - b) Oil & Gas Refineries / Petrochemical Complexes of Project value of Minimum Rs 300 crore each during the last 5 years
- Reputed organization engaged in Engineering and Manufacturing of main Power generating Equipment of a Thermal Power plant. The Organization should have supplied such equipment to a minimum 2 currently operational Thermal Power stations of at least 20MW during the last 5 years.