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| **PART 1: POSITION DETAILS** | | | |
| **Position Title** | Junior Executive (Technical) | **Position Code** | JE-(T)-01 |
| **Business Division** | SO/MO/PSP | **Pay Scale** | G-6 |
| **Location:** | Islamabad | **Date of Preparation:** | May 2025 |
| **PART 2: JOB SUMMARY** | | | |
| The incumbent will be assigned to any of the three core functions of the ISMO namely System Operations, Market Operations and System Planning. Under the System Operations function, this position will mainly be involved in Power Control Room Operations, Grid Code administration, transmission network operations, short- and medium-term system operations planning and forecasting, power system studies etc. Under the Market Operations, this position will be involved in operation of Market Management System, Market Commercial Code administration, market design and evolution, new product development, simulation of market models, data analysis and visualization, market compliance and surveillance, market services, training and capacity building initiatives, stakeholder coordination, research and development activities pertaining to competitive electricity market etc. Under the Power System Planning function, this position will be involved in preparing generation expansion plans, transmission expansion plans, demand forecasting, load flow and production cost modeling, load profile analysis etc. | | | |
| **PART 3: KEY TASKS & RESPONSIBILITIES** | | | |
| The incumbent will be placed in any of the three core business streams of ISMO and will involve in a variety of the respective tasks as follows: | | | |
| **A. System Operations**   1. Forecasting and planning of system operations on short- and medium-term basis 2. Safe and reliable operation of the transmission network 3. Reliable and economic dispatch of power plants keeping in view the parameters defined in the regulatory codes and relevant agreements 4. Manage system disturbances, arrange normal and emergent shutdowns on network components, keep system parameters within permissible limits 5. Preparation of operational reports and logging of network events and related information 6. Power system studies and reporting using appropriate system tools 7. Reviewing and investigating system performance following major incidents and faults. 8. Manage operational interfaces with multiple parties including Generators, NGC, DISCOs and large customers. 9. Implement Contingency & Emergency Plans, escalate significant incidents throughout the business as required. 10. Complete all associated statutory reports and paperwork for Network incidents.   **B. Market Operations**   1. Participate in developing and shaping the competitive power market through analysis, research, and development. 2. Contribute in the design, development and launching of new products in the electricity market of Pakistan. 3. Involve in the administration of the Market Commercial Code. 4. Work with consultants and experts on the design and evolution of the market model. 5. Involve in the execution and administration of the Market Management System. 6. Design and develop impactful dashboards for the analysis and visualization of market data. 7. Contribute to the development of market models and run simulations on the various scenarios for generating market projections. 8. Develop presentations and reports to effectively communicate market insights, progress, and statistics to stakeholders. 9. Collaborate with other ISMO departments teams in different activities related to market operations. 10. Involve in activities related to market surveillance, compliance and enforcement. 11. Provide support in the design, development and delivery of the training and capacity building programs. 12. Involve in the development and onward compliance of the ISMO Business Plan. 13. Provide requisite services to the market participants and stakeholders. 14. Assist the teams in the identification and mapping of the processes, manuals, guidelines. 15. Coordination with relevant stakeholders in implementation & monitoring of the CTBCM activities. 16. Day-to-day coordination with the CTBCM implementing power sector entities regarding design, development, operations and surveillance of competitive electricity market of Pakistan.   **C. Power System Planning**   1. Assist in developing and maintaining generation expansion plans and capacity adequacy studies 2. Support demand forecasting activities using statistical methods including regression analysis 3. Analyze daily, seasonal, and annual load profiles to inform planning assumptions 4. Conduct Loss of Load Probability (LOLP) and Loss of Load Expectation (LOLE) studies to assess system reliability 5. Work with senior planners to ensure compliance with Loss of Load Criterion (LOLC) and other reliability standards 6. Participate in load flow and production cost modeling 7. Collect, clean, and manage data from various technical, operational, and market sources 8. Create visualizations, summaries, and presentations to support internal decision-making and external reporting**.** | | | |