

Introduction of Thorium Reactor Nuclear Power Stations in Nigeria.

People – [SALPED]

1. Project Management Office (PMO)

- **Project Managers:** 3-5
- **Assistant Project Managers:** 5-10
- **Project Coordinators:** 5-8
- **Administrative Support:** 3-5
- **Key Responsibilities:** Overall project planning, coordination, scheduling, budget management, and communication with stakeholders.

2. Engineering and Design Department

- **Lead Engineers (Nuclear, Mechanical, Civil, Electrical):** 10-15
- **Design Engineers:** 20-30
- **CAD Technicians:** 10-15
- **Structural Engineers:** 5-10
- **Systems Engineers:** 5-10
- **Danish Experts/Consultants:** 5-10 (specializing in thorium reactor technology)
- **Key Responsibilities:** Design of the reactor, support structures, cooling systems, and electrical systems, as well as integration of safety features.

3. Safety and Regulatory Compliance Department

- **Safety Officers:** 5-10
- **Nuclear Regulatory Specialists:** 5-8
- **Environmental Compliance Officers:** 5-8
- **Radiation Protection Specialists:** 3-5
- **Key Responsibilities:** Ensuring compliance with nuclear safety regulations, conducting safety assessments, and managing environmental impact studies.

4. Construction Management Department

- **Construction Managers:** 5-8
- **Site Supervisors:** 10-15
- **Quality Assurance/Quality Control (QA/QC) Inspectors:** 10-15
- **Logistics Coordinators:** 5-8
- **Key Responsibilities:** Overseeing the construction process, managing contractors, ensuring quality standards, and coordinating on-site logistics.

5. Procurement and Supply Chain Management

- **Procurement Managers:** 3-5
- **Supply Chain Analysts:** 5-8

- **Contract Administrators:** 3-5
- **Inventory Managers:** 3-5
- **Key Responsibilities:** Sourcing materials, managing contracts with suppliers, overseeing the supply chain, and ensuring timely delivery of equipment.

6. Operations and Maintenance (O&M) Department

- **Operations Managers:** 3-5
- **Control Room Operators:** 20-30
- **Maintenance Technicians (Mechanical, Electrical):** 30-40
- **Nuclear Reactor Operators:** 10-15
- **Key Responsibilities:** Managing the daily operations of the reactor, maintaining equipment, and ensuring continuous and safe power generation.

7. Finance and Accounting Department

- **Financial Managers:** 3-5
- **Accountants:** 5-10
- **Budget Analysts:** 3-5
- **Auditors:** 3-5
- **Key Responsibilities:** Managing project finances, budgeting, financial reporting, and ensuring compliance with financial regulations.

8. Human Resources (HR) Department

- **HR Managers:** 2-3
- **Recruitment Specialists:** 3-5
- **Training and Development Officers:** 5-8
- **Payroll Administrators:** 2-3
- **Key Responsibilities:** Recruitment, employee relations, training, payroll management, and workforce planning.

9. Legal and Compliance Department

- **Legal Advisors:** 3-5
- **Contract Lawyers:** 3-5
- **Compliance Officers:** 3-5
- **Key Responsibilities:** Handling legal matters, drafting and reviewing contracts, ensuring compliance with laws and regulations.

10. Environmental and Community Relations

- **Environmental Scientists:** 5-8
- **Community Liaison Officers:** 5-8
- **Public Relations Specialists:** 3-5
- **Key Responsibilities:** Monitoring environmental impact, engaging with local communities, and managing public relations.

11. Information Technology (IT) Department

- **IT Managers:** 2-3
- **Network Administrators:** 3-5
- **Cybersecurity Specialists:** 3-5
- **Support Technicians:** 5-8
- **Key Responsibilities:** Managing IT infrastructure, ensuring cybersecurity, and providing technical support.

12. Health and Safety Department

- **Health and Safety Managers:** 3-5
- **Safety Inspectors:** 5-8
- **Occupational Health Specialists:** 3-5
- **Emergency Response Coordinators:** 3-5
- **Key Responsibilities:** Ensuring workplace safety, conducting safety drills, and managing emergency response plans.

13. Training and Development Department

- **Training Managers:** 2-3
- **Technical Trainers:** 5-8
- **Safety Trainers:** 3-5
- **Key Responsibilities:** Providing training for reactor operators, maintenance staff, and safety personnel, ensuring all staff are qualified and certified.

Contracted Companies

1. Reactor Design and Engineering Firms

- **Specialization:** Thorium reactor design, nuclear engineering, structural engineering.
- **Likely Companies:** Companies with expertise in nuclear technology and reactor design, potentially from Denmark or international firms.

2. Construction Companies

- **Specialization:** Large-scale infrastructure and civil engineering, particularly in nuclear facilities.
- **Likely Companies:** Multinational construction firms with experience in nuclear power plants, as well as local construction companies for site-specific work.

3. Supply Chain and Logistics Providers

- **Specialization:** Transportation of heavy and specialized equipment, supply chain management.
- **Likely Companies:** Logistics companies with expertise in transporting large and sensitive materials, both internationally and domestically.

4. Safety and Environmental Consulting Firms

- **Specialization:** Environmental impact assessments, safety audits, radiation protection.
- **Likely Companies:** Consulting firms specializing in nuclear safety, environmental protection, and regulatory compliance.

5. Legal and Regulatory Advisors

- **Specialization:** Nuclear regulatory compliance, contract law, international law.
- **Likely Companies:** Law firms with expertise in energy projects, particularly those familiar with nuclear regulations and international partnerships.

6. Technology and IT Services Providers

- **Specialization:** IT infrastructure, cybersecurity, control system integration.
- **Likely Companies:** IT service providers with experience in nuclear facility operations, cybersecurity, and industrial control systems.

7. Maintenance and Operations Contractors

- **Specialization:** Maintenance of nuclear reactors, mechanical and electrical systems.
- **Likely Companies:** Specialized contractors for ongoing operations and maintenance, potentially with a long-term service agreement.

8. Training and Certification Providers

- **Specialization:** Nuclear safety training, technical training for reactor operators.
- **Likely Companies:** Training institutions and certification bodies with expertise in nuclear energy.

