

Role of Self-Assessment

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NPCIL,INDIA

NPCIL

- Architect
- Developer
- Managing Construction
- Operating Reactors
- Managing Rad waste and spent fuel

Training and Development

(Educational Infrastructure)

- Fundamental Knowledge
- On job training
- Simulator training
- Regulatory Licensing
- Actual experience in pilot /operating plant
- Advance training and setting up of nuclear training centres
- Fundamental institutes and nuclear institutes/universities

Energy Security

(National Position)

- Firm commitment of government for nuclear power
- National act
- Governmental funding and countersigning liability during initial phase
- Established independent regulatory body
- Grid stability

Regulatory Clearances

(Utility and Regulators)

- RC from supplier country
- RC from host country
- Environmental clearances
- Site selection
- Technical evaluation of site
- Nuclear safety aspects with regard to engineered features
- Inter governmental agreement
- Life extension programme

Self-Assessment of Technical Capability

(Utility and Vendor)

- Industrial maturity of the nation
- Supply of major components as advance procurement
- Assessment of supply chain
- Human resource development
- Understanding the technology
- Vendor development

Project Execution

(Utility)

- Preparation of human resource based integrated network with financial flow
- Pre-engineering
- Finalization of bid documents
- Detailed engineering
- Signing of agreement
- Project monitoring techniques
- Selecting the commissioning team
- Developing commissioning documents
- Supply monitoring
- Obtaining regulatory approvals in stages

Radiation Protection

(Utility and Regulator)

- Setting up the RP department
- Environmental survey laboratory
- Finalizing RP areas and their monitoring equipment
- Developing EPP and response
- Agreements with provincial government
- Security system, physical protection

Conclusion

- Strong infrastructural requirement
- In depth understanding of regulator aspects
- Cultural development for handling high technology which also involves radiation
- Trained human resource a key factor
- Document covers most of these topics