

Scope of Services

Consultancy, Planning and Design of

- High tension distribution system
- Low tension distribution system
- Street, Road and Highway lighting
- Support Engineering Design for PHE (Public Health Engineering)
- Water pumping and Treatment Stations
- Sewage pumping and Treatment Stations
- Storm water drain
- Rate analysis, assessment of quantity, bill of quantities and cost estimation
- Preparation of tender documents
- Project implementation and supervision
- Energy audit and energy management

I. SECON has experienced senior engineers to provide viable and effective solutions for

- Refurbishing existing Micro and Mini Hydel stations.
- Refurbishing existing High tension and Low tension distribution network.
- Refurbishing existing street lighting
- New high tension distribution network, low tension distribution network.
- Energy auditing and energy management.

II. Validation of available data and survey form the foundation for Planning, Engineering and Design - SECON has reasonable experience in

- Pre-feasibility, feasibility and detailed project report for refurbishing existing electricity Distribution system.
- Electrical load projection for short term project and long term project
- Investigation of sources "Generating Station/sub-station /receiving station", EHT/HT lines and route
- Existing population
- Population growth rate.
- Land use pattern
- Priority of development
- Validation of data collected
- Feasibility and detailed project report
- Highway/ Road / street lighting based on the traffic movement and the luminance required
- Renovation and modernization of existing system
- Markedly new product for foreseeing areas

III. SECON can provide Support engineering for Public Health Engineering

- Validation of the requirement
- Surveying the existing system
- Studying the feasibility of cable /line route
- Design Electrical system and project report against requirement for Water pumping and Treatment Stations, Sewage pumping and Treatment Stations, Storm water drain.

IV. Rate analysis, detailed quantity assessment, bill of quantities and cost estimates

- Preparation of rate analysis for major items as per specifications.
- The rate analysis will also take into account the other materials for the project
- The rates of materials, equipments & labour will be based on the prevailing market rates/Government rates.
- Preparation of Bill of quantities of all items classifying the same under various heads.
- Cost estimation for the project based on the above.

V. Preparation of Tender Documents.

- Finalization of the technical specification for the various components of the project.
- Preparation of detailed specification.
- Preparation of tender documents.

VI. Project implementation and supervision is possible

- Supervision and quality control of the work daily.
- Checking and certification of quantities used as per the specifications laid down in the tender document
- Certification of bills.
- Assisting client in clearing arbitration if any.
- Identification of approved variation from the tender drawing.
- VII. Energy auditing and Energy management system
- Validation of the data given of the plant/industry
- Studying the process chain
- Physical verification of each equipment
- Assessment of efficiency of each equipments functioning
- Identification of out-dated process system and equipments.
- Suggestion to improve the system computing the energy saving.