

## **Client Support Services Division:**

Due to the ever increasing request from our valued customers we have worked over the time in developing a service program for providing technology based solutions to a variety of applications which commonly comes across the day to day working. These client support based services are not only cost effective but are also executed at a fast pace of time, thanks to a team of highly skilled and technically sound personnel to take care of the client's specific Onsite and Offsite specific requirements. The now highly experienced team can provide solutions on a variety of clients need. Some of the features of CSS are listed below:

### **ELECTRICAL SERVICES:**

#### **(a) DETAIL ENGINEERING & DESIGN:**

**RYB Group is providing innovative, inventive and cost effective Engineering, Detail Engineering & Drafting Services. Our company provides flexible, on demand Engineering, detail engineering and CAD drafting services to support Electrical Engineering. Our Engineering, Detail engineering and drafting services have given our customers a competitive edge with their product design & manufacturing effort. We are involved in the detailed engineering of the following:**

- Switchyards up to and including 132kV Class.. Sizing and selection of substation equipments, Transformers, Breakers, CT/PTs, LAs, Bus bar schemes, calculation of Touch and step potentials, Earth mesh calculations, etc.**
- Selection and sizing of control and Power cables, and their routing, equipment layout and final BOM.**

#### **(b) INSTALLATION, TESTING & COMMISSIONING:**

**We specialize in erection, testing and commissioning of the following:**

- Switchyards up to and including 132kV class.**
- MCC/PCC panels and its associated machineries and equipments.**
- PLC/DCS systems and its associated Control room/MCC/field equipments/instruments.**
- Transformers and its associated control cubicles.**
- Diesel Generators and its associated control/synchronizing panels.**
- AC/DC Drives, soft starter systems.**

**Energy management and networking of field meters/units.**

**INDUSTRIAL AUTOMATION SERVICES:**

**DETAIL ENGINEERING & DESIGN:**

**Our Group provides the facility for Turn key projects in the field of Factory automation and field instrumentation. We also undertake Plant renovation and process modification and extension projects. Major activities involve conceiving the project feasibility, preparation of concept, design and engineering of process requirements and its applicability followed by Drafting and documentation services. The major detail engineering involves the following:**

**Preparation of P&I Diagrams**

**Shop drawings for field implementation**

**Hook up drawings and field follow ups.**

**Preparation of equipment specifications and documents.**

**Preparation of ITBs and budgetary proposals.**

**Preparation of work schedules and charts for erection & installation of instruments and equipments.**

**Preparation of technical details for vendor enquiries. Comparison of vendor offers and recommending the suitable vendors based on their technical and commercial statement sheets. Selection and calculation of the PLC system and preparing the complete list of materials for the plant automation system. Preparation of BOM for vendor enquiries. Selection of field instruments.**

**Our core areas of working are Power, steel, coal, food & beverages, packaging, paper, Beneficiation plants, water treatment, solar etc.**

**We are also the major system house for Global brands like Allen Bradley, L&T, Emerson etc. and are a major suppliers of PLC and DCS systems, AC/DC Drives, Soft starters, Networking hardware, Range of field instruments and sensors, batching systems. SCADA systems**