



## COMPANY PROFILE

TECHNO ENGINEERS & SERVICES

## About Us:

M/S TECHNO ENGINEERS & SERVICES, established in 2010, is a multi-disciplined contracting engineering as well as a consulting engineering firm specializing in

- 1) Electrical Systems (HT and LT)
- 2) Fire Fighting Systems (Detection and Protection)
- 3) Solar Photo-voltaic Systems (Rooftop/Central Solar Plant and Solar Water Pump)
- 4) Security Systems (CCTV, Biometric and Access Control).

We are based in Kolkata and offer our engineering services to government departments, private companies, and development agencies locally, regionally and nationally. Our team comprises experienced engineers from various electro-mechanical sectors and skilled technicians. It is our continuous endeavor to offer customized and innovative solutions to our clients.



We are empowered with expert and experienced engineers and licensed technicians of all departments like electrical, firefighting, solar, and CCTV. We have successfully catered to customer needs since 2010 and continually endeavour to enhance our services through our rich experience.

Customer satisfaction is our ultimate objective, and we aim to achieve this through our performance in the field. We serve to satisfy.



## Key Personnel:

### ➤ Er. BIDHAN CHANDRA RAY



(Retired Executive Engineer, KMDA) is a B.E. Electrical Engineer from Jadavpur University. He has 45 years of experience in engineering field. He is specialized in designing and execution of various Electrical and Mechanical projects that includes Electrical Substation, LT distribution system, Fire Fighting System, etc.

### ➤ Er. ARNAB RAY



(Former Assistant Engineer, Star Cement, Meghalaya) is a B.E. in Applied Electronics and Instrumentation from Heritage Institute of Technology, Kolkata and also a Certified Solar Consultant. He has 8 years of experience in Design, Drawing, Estimation, Installation, Testing and Commissioning of various electro-mechanical projects that includes Electrical Substation, LT distribution system, Solar PV System, Fire Fighting System, PLC Automation and Instrumentation System, CCTV system etc.

## Our Mission:

Our Mission is to provide quality and value-added services to our customers at fair and market competitive prices and to maintain the highest levels of professionalism, integrity, honesty and fairness in our relationships with our customers, professional associates, general order suppliers and subcontractors.

## Our Services:

### Contracting Engineering Services:



We provide the following contracting engineering services using the latest technology and what the customer needs:

➤ **Electrical System:** Our Company provides engineering, procurement and construction (EPC) services in both LT and HT (upto 11 KV) systems in urban and rural electrification and electrical substations. The electrical system includes:



1. HT Breaker Panel, Transformer. - (HT Side of Substation)

2. LT Main Incomer Panel, LT Distribution Panel, Diesel Generator Set, DG Control Panel, Automatic Battery Charging Panel, Auto Mains Failure (AMF) Panel, Auto Power Factor Correction (APFC) Panel, Motor Control Centre (MCC) Panel. - (LT side of Substation)

3. Programmable logic controller (PLC) Automation Panel and Supervisory Control and Data Acquisition (SCADA) operated control system.

4. Residential, Commercial and Industrial Electrical Wiring, Lighting Control (both manual and fully automated).

5. High Mast, Street Lighting, Park Decorative Lighting Installation.

6. Earthing (both Pipe and Plate Earthing) and Lightning Arrestor Installation.

7. Centrifugal Pump, Vertical Turbine (VT) Pump, Submersible Pump Installation.



- **Fire Fighting Systems:** Our Company provides engineering, procurement and construction (EPC) services in Fire Fighting Systems or Fire Detection and Protection Systems as per NFPA / NBC codes and standards. These includes



1. Single-zone to multi-zone, conventional and addressable systems.
2. Installation of various fire pumps like jockey pump, main electrical pump and diesel engine pump.
3. Water Sprinkler System, Spray system, Foam System, FM 200 System (waterless fire protection system) etc.

- **Solar Photo-voltaic Systems:** Our Company provides engineering, procurement and construction (EPC) services in Solar Photo-voltaic Systems as per MNRE Specifications and Standards that includes:

1. Grid Interactive Central/Rooftop Solar Plant with net-metering system consisting of Solar PV Modules, On-Grid String/Central Invertors, Mounting Structure and Balance of System (DCDB, ACDB, cables, Solar Generation Meter, Net-metering system, SPD etc.)



2. Standalone Solar Plant consisting of Solar PV Modules, MPPT Charge Controllers, Battery, Standalone Invertors, Mounting Structure and Balance of System.



3. Solar Water Pump consisting of Solar PV Modules, AC/DC Solar centrifugal or submersible pumps, Mounting Structure and Balance of System with DC-DC Controller.

4. Solar Street Lights.



➤ **Security Systems:** We provides installation of Security Systems at offices, business premises and private houses. It includes

1. Closed Circuit Television (CCTV) System connected to 24-hr recorders, both conventional wired CCTV system and Network (IP) based CCTV System including Dome Fixed/Varifocal Camera, Bullet Fixed/Varifocal Camera, PTZ Pan Tilt & Zoom Camera, DVR, NVR, POE Switch, Gigabit Switch and other accessories.



2. Biometric Access Control System includes Physiological Biometrics like face, fingerprint and IRIS recognition.

### ✚ **Consulting Engineering Services:**



We utilize state of the art computerization to accomplish our design projects and project management. The use of CAD systems provides us with enhanced production quality, lower operating costs and closer engineer participation thereby ensuring a higher quality product for the owner. To reinforce our emphasis on quality in all electro-mechanical designs, the company uses an internal quality assurance and interfaces with designers from

complimentary disciplines to review standards and specifications for specific project needs. The engineering branches that we focus are:

1. Electrical Engineering: We provide complete spectrum in energy efficient electrical design services to ensure maximum life expectancy and as per IEC. Our electrical design includes both HT and LT systems.

2. Fire Fighting System Design & Drawing: Planning & Drawing of Fire Fighting and Fire alarm projects for Conventional, Addressable systems, selection of various fire pumps, sprinkler systems etc. We provide reliable fire protection and detection system design and drawing that are both efficient and cost effective and as laid down in provisional NOC from Local Fire Service Department.



3. Solar Photo-voltaic System: Design and planning of cost-effective solar plants in rooftop and ground mounted projects as well as solar pumps.

The consultancy services that we offer are as follows:

1. Engineering Planning, Design and Drawing.
2. Engineering Drafting and Detailing.
3. Preparation of BOQ, Estimate and Cost Analysis.
4. Preparation of Detailed Project Report (DPR)
5. Building Management and Automation System
6. Energy Management System and Energy Audit

We utilize state of the art computerization to accomplish our design projects and project management.

The Software that we use in our Projects are:

1. Autodesk AutoCAD Classic (2021)
2. Autodesk AutoCAD Electrical (2018)
3. Autodesk AutoCAD MEP (2018)
4. PVSYS 6.8.6
5. PVCAD (2017)
6. SketchUp Pro
7. Microsoft Office 2019



PVCAD

SketchUp Pro



### **24X7 Maintenance and AMC Services:**

We as a company are able to provide fully tailored maintenance program to suit our customer's requirements. We provide Day to day 24X7 maintenance and AMC services by experienced and expert engineers and technicians. Whatever the need we will be able to develop a Planned Preventative Maintenance program to maximize our client's productivity and electrical safety, and minimize any possible downtime.

## Our Valuable Clients:

### A) Govt. Organizations:

- 1) NPCC Ltd. (National Projects Construction Corporation Ltd.)
- 2) PWD (Public Works Department)
- 3) WBHB (West Bengal Housing Board)
- 4) CSTC (Calcutta State Transport Corporation)
- 5) KMDA (Kolkata Metropolitan Development Authority)
- 6) KMC (Kolkata Municipal Corporation)

### B) Private Organizations:

- 1) St. Xavier's University, Rajarhat, Kolkata
- 2) St. Xavier's College, Park Street, Kolkata
- 3) Our Lady Queen of the Missions School, Kolkata
- 4) Enkay Electricals Pvt. Ltd.
- 5) Agniv Development Pvt. Ltd.
- 6) Basumati Incorporation
- 7) New Alignment
- 8) PowerPlus Technology Pvt. Ltd.



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