



Riddhi Siddhi

Electrical Projects Pvt. Ltd.

GOVT LICENSED

Professional ELECTRICAL CONTRACTOR

High Quality
ELECTRICAL
Control Panel
Manufacturer

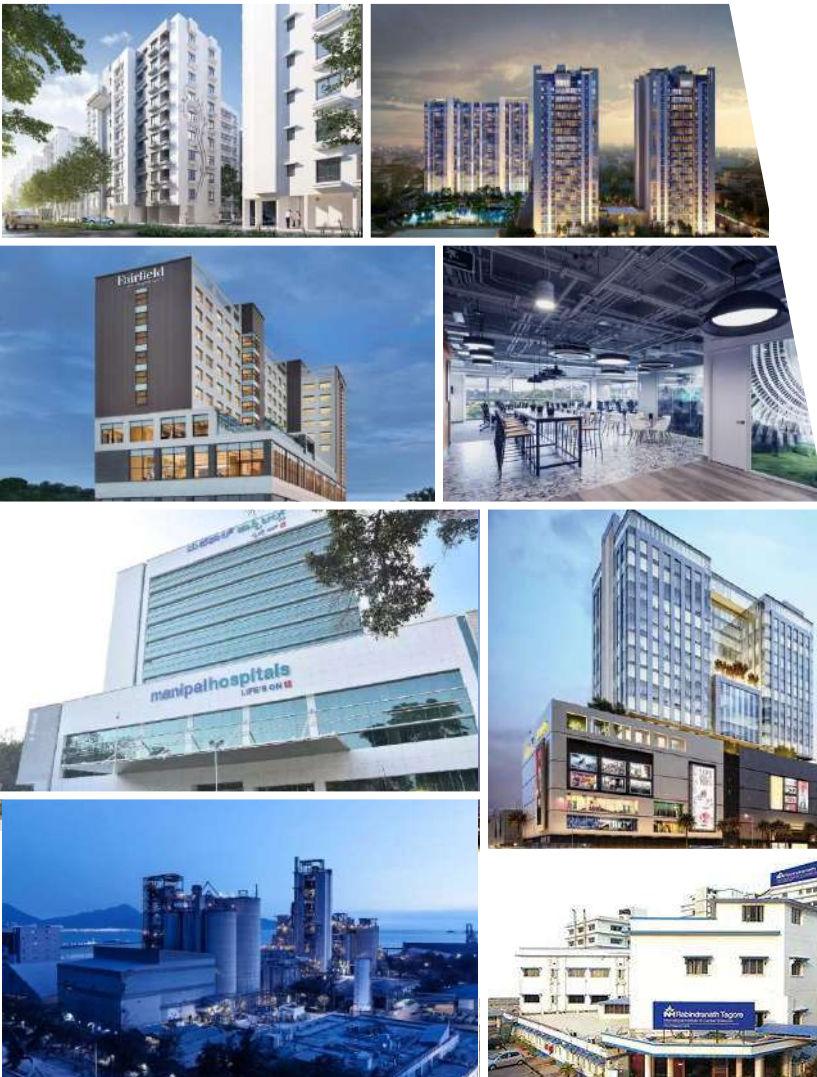


CPRI
APPROVED



Residential | Industrial | Commercial

Areas Of Expertise :



Govt. & PSU



Industries



Hospital



Bank



Residential



Mall



Multiplex



Retail



Resturant



Hotel



Office



IT Park



Education



Power



Infrastructure



OEMs

a unit of

Riddhi Siddhi
group | Learning & Serving

www.riddhisiddhigroup.org



Contacts.riddhisiddhi@gmail.com



R:O – Thakurpukur, Kadamtala, Jemslong srani, Kol -63



24x7 Help Line

Call - 6290279884

Riddhi Siddhi Electrical Projects Pvt. Ltd. - Turnkey Project Management Unit.

A. Electrical Turnkey Project Management Solutions

A leading Electrical Contracting Firm of Eastern India, serving Residential, Commercial & Industrial sectors implementing all varieties & dimensions in electrical projects. Experience of two decades has laid a solid techno-commercial foundation for handling any form of Electrical Projects. Excellence in Contract Execution has won RIDDHI SIDDHI ELECTRICAL trust & recognition from clients in all sectors.

Offering :

Electrical Design, Drawing, Engineering and Consultancy (Supply Installation Testing & Commissioning)

Solution –

- 1. Turnkey Based Electrical Execution Jobs.**
- 2. Substation**
- 3. Compact Substations**
- 4. Power and Distribution Transformer**
- 5. Supply & Installation of-**
 - a. Ht Panel
 - b. HT Cable
 - c. Termination
 - d. DG Set
- 6. LT installation Work –**
 - a. LT Distribution Panel & DB
 - b. Earthing System
 - c. Lighting & Illumination
 - d. Cable Laying & Termination
 - e. Wiring System
 - f. Lighting Arrester
- 7. LV Installation System-**
 - a. IBMS – Covering BMS, & FA System
 - b. Access Control System CCTV, PA System, Voice & Data
 - c. Communication and Networking System
- 8. Traders Of all Electrical items & Electronic Goods.**
- 9. Solar Power System Solution**



B.Maintenance and Quality Assurance

AMC & QA unit of RIDDHI SIDDHI ELECTRICAL PROJECTS PVT. LTD. provides Quality Assurance and Maintenance of Electrical Systems. The Annual Maintenance Contract covers Regular Maintenance and Preventive Electrical Maintenance as well as monitoring the lighting and power distribution. This follows an extremely seamless bonding with the clients and has been able to establish a very high work standard in coordination with our Project unit to implement the required efficiencies.

Offering :

Preventive and Routine Maintenance of Electrical System –

- Transformers
- Earth/Load Break Switches
- Panels
- Earthing System
- Battery chargers/inverters
- LDBs & PDBs
- Lighting Arrestors
- ACBs
- HT Switchgears



C.Solar Power System Solutions

RIDDHI SIDDHI ELECTRICAL provides Turnkey Solutions for Solar Power Systems on EPC Contract Basis. The site inspection for Solar panel layout arrangement is conducted for sizing and efficiency to offer customized solutions. Post commissioning of the project, Riddhi Siddhi Group undertakes Operation and Maintenance contracts to support our esteemed customer.

Offerings-

1. Site Inspection
2. Design Basis
3. Layout Preparation
 - a. Solar Panels
 - b. Support Structures
 - c. Panel Integration
 - d. DC Power Sourcing
 - e. Protections
 - f. Input to Inverters
 - g. Output from Inverters
 - h. Grid Connectivity/Battery Storage/ Solar Water Heater & Solar Pump
1. Net Metering



D.Energy Audit

Riddhi Siddhi Electrical Audit team operates in the areas of Energy Consumption, Energy Conservation and Impact on Pollution from Conventional Energy. The division aptly serves Clients initially with a thorough Energy Audit and makes necessary recommendations as to where and how the Energy Consumption can be reduced by offering service to the Customers in implementing the recommendations.

Offerings -

- 1.Study and analysis of Contract Demand, Power Factor, performance of Transformers and Motors above 10hp Pumps/Blowers with their respective flow.
2. Study and Analysis of Power Plant System, Boilers, Waste Heat Generation, Steam System, etc. along with their operation.
- 3.Air Conditioning System-targeted at improving the energy efficiency of systems.
- 4.Study of Lighting Systems, inspecting Illumination Levels & measures
- 5.Study and analysis of Free Air Delivery (FAD) capacity of Air Compressor, leakage in Compressed Air Network, Set Pressure Optimization etc.
- 6.Study of DG Set to get Specific Power Generation & Compare with Electrical Standards.
- 7.Electricity Bill audit and Strategy Consultancy

Our Few Esteemed Projects -

Segment –Industrial

Tega Industries Limited.	Bibirhat
Tega Industries Limited.	Bibirhat
Sastasundar Healthbuddy Limited.	Saltlake
All Cargo Limited.	Taratata
ITC Limited	Dhulagar
Ambuja Cement Limited	Dhulagar
Ipsen Technologies Private Limited	Vasa
IFB Agro Industries Limited	Rajarhat
Mitra S.K Private Limited	Mahestala
Mitra S.K Private Limited	Belegkata
Reshmi Cement Limited	Nepalgunge
Khadim India Limited	Kasba Industrial Estatic
Linc & Plastic Limited	Factory at Kolkata
Raja Biscuit Industries Private Limited	Kolkata
B S Progressive Private Limited	D.H Road Kolkata
Oscar Equipments Limited	Kolkata
Uttam Plastic Industries Limited	Joka
Impex India Limited	Kolkata
Swarna Bishnu Ice Factory Private Limited	Kakdip
Paras Plastic Industries Limited	Amartalla Street
Sanhit Polymer Private Limited	Bolpur
ASG Biochem Private Limited	Ganganagar, kolkata
Nahar Industrial Enterprises Limited	Hoogly
Hi Care Remedy Private Limited	Behala Industrial Estatic
Marathon Electric Motors India Limited – WEG Group	Taratata



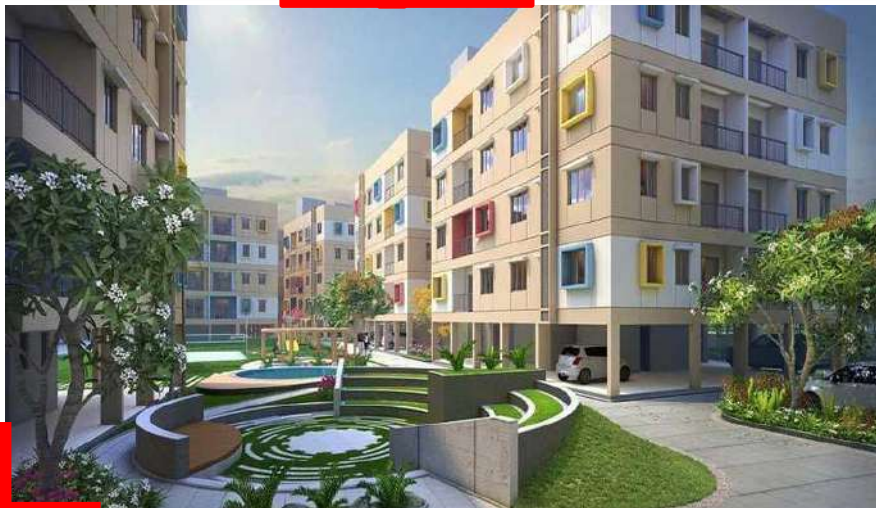
Segment - Residential

Gemes City - Gems Group	Thakurpukur BibirHat Road, Kolkata
DTC Southern Heights – DTC Group	Joka , Kolkata
Swayam City	Vasa, Kolkata
Rajat Southern Vista – Rajat Group	E. M Bypass , Kolkata
Madgul Antara	Joka, Kolkata
Grand One	Hoogly
Kolkata Heights	Srirampur
Swan Greens	Thakurpukur
Mani Casa	Saltlake
GokulDham	Kanpur , Uttar Pradesh
Skyline	Kolkata
Gitanjali	New Town
Mulberry Heights	Lucknow, Uttar Pradesh



Segment - Residential

Srijan Sopno Puron	Amtala
Bengal Greenfield	Mahestala
Metro Heights	Thakurpukur
Southend Heights	Joka
Zircon	Rasapunja
Bengal oasis	Thakurpukur
Grand City	Uttarpara
New Kolkata	Srirampur



Segment - Residential

SM Venture Private limited	Thakurpukur, Kolakata
Om Towers Private limied	Rasapunja , Kolkata
Shiv Niketan Ltd.	Choroktala, Kolkata
Bhutoria construction Private limited	Joka , Kolkata
Charles commercial Private Limited	Thakurpukur Bibirhat Road , Kolkata
Asian Construction Co. Private Limited	Joka , Kolkata
New Age Nirman LLP	Vasa , Kolkata
Treadstone Ltd	Lucknow , Uttar Pradesh
Srijan Realty Private limited	Kolkata
Shathabdhi Townships Private Limited	Hydrabad



Segment – Commercial

Narayana Health – R.N Tagore Hospital	Hospital	Mukundapur, Kolkata
Narayana Superspeciality Hospital	Hospital	Howrah
Narayana Mutispeciality Hospital	Hospital	Chunavati
Anandalok Hospital	Hospital	Kolkata
Opal Club	Mall	Kolkata
Swan Green	Club	Rasapunja
Fairfield by Marriott	Hotel	Saltlake
Institute Of Science & Technology	College	Chondrokona, Mednipur
Hind Motor Education Center	School	Hoogly
Dr. Virendra Swarup Education Centre	School	Kanpur, Uttar Pradesh
Gems Akademia international school	School	Thakurpukur
DPS knowledge city	School	Rajarhat
Eskay Movies	Office	Kolkata
Jadu Kadai	Resturent	Kolkata
Rajdhani Hotel	Resturent	Siliguri
Bright FU HUB Private Limited - Cognico	Office	Hydrabad



Riddhi Siddhi Electrical Projects Pvt. Ltd. – Manufacturing Unit

Manufacturers Of HT, LT Panels & Compact Substations



Riddhi Siddhi Electrical company manufacture various types of LT & HT Panels, Auto Changeover, Inverters, DG Set and Servo Voltage Stabilizers. The products are tested and certified under CPRI and NTH. It is an ISO 9001-2015 company under NSIC & SSI (EM-II). RSEPL products are marketed through its Sales and Associate Network All over India. It has successfully executed many critical & prestigious orders received from various esteemed organizations. MEP believes in providing quality products, delivered on time, with precise design and engineering, stringent quality check matched with prompt and dedicated after sales service.

A. PRODUCTION PROCESS



1. Fabrication Process-

- Precision tools and machineries are used to cut the sheet metals.
- Sheets are used of reputed brands like Tata, JSW and Century.
- Precision tools are used for cutting and bending and CNC is used for bolted panels
- Design team is engaged to meet customer's need following IS rules
- Value engineering incorporated in accordance to customer demands.

2. Passivation and Powder Coating Process-



a. 9 Tank Process-

The panels which pass fabrication are subjected to the following combination of steps of cleaning namely- a) Degreasing b) Water Rinse I c) De-Rusting d) Water Rinse II e) Surface Activation f) Phosphating g) Water Rinse III h) Passivation Regular maintenance of each tank is done to match stringent parameters of chemical strength and regular testing of the chemicals is done through titration process.



b. Oven Drying

a) Done after the above 9 tank process b) Carried out at around 120-130Deg C, for- Drying Sheet Metal Parts by hot air.

c. Powder Coating

a) Dry finishing process which ensures a high-quality, durable finish
b) Carried out within 24 hrs of Oven Drying. c) Sheet Metal parts are coated with Powder of shade desired by client through Spraying in Spray Booths d) Epoxy-Powder Coated/Sprayed Sheet Metal parts are baked in Electrically Fired Oven at 150-180 deg C.



3. Assembly & Wiring

a) Various components are fitted, fixed and wiring is done for the panels as per approved design b) Specified switchgears are used for achieving the desired working logic of the panels according to the approved design of the client c) All panels are manufactured as per IS standard of different aspects d) Value addition and suggestion to the clients are provided by our design engineering team e) Done according to the circuit diagram developed by our design team and approved by the client f) Switchgears are checked as per Quality Assurance Plan for proper functioning of the panels

B. PLANT EQUIPMENTS

1. Vertical Drilling Machine
2. Shearing Machine
3. Bending Machine
4. Cutting Machine
5. Bus Bar Bending Machine
6. Bus Bar Hydraulic Drilling Machine
7. 4" Grinding Machine
8. 5" Grinding Machine
9. Compressor Machine
10. Crimping Machine
11. Hand Drilling Machine
12. Jig Saw Machine
13. Blower
14. Hot Blower
15. Chain Pully (Remote)
16. Chain Pully (Manual)
17. Weighing Machine



C. TESTING and QAP-

The testing is done by Quality Engineers to check the panels as per all specifications, safety norms and quality aspects. The company possesses fully equipped facilities for testing of in-house voltage transformer, current transformer, various switches, contactors, overload relay etc., measuring instruments like Voltmeter and ammeters, electronic components like transistors, diodes, ICs, resistance and other semi-conductor devices.

Testing Equipment

Testing Parameter	Instrument Name
• High Pressure Testing-	High Voltage Test Kit
• Meggar Testing Insulation Resistance	Megger
• Load Testing	Load Bench
• C. T. Testing Tester	Ct Testing Kit and Polarity
• Operation Testing	Applying Rated Supply Voltage as Per Requirement of The Panel
• Relay Testing Test	Secondary Injection Relay Kit



1. LT ELECTRICAL PANELS

Following are few types of LT Panels manufactured by us-

1. Power Cum Motor Control Centre (PMCC)
2. Power Control Centre (PCC)
3. Motor Control Panel (MCC)
4. Intelligent Motor Control Center Fire.
5. Fighting Panel
6. APFC Panel (Power Factor Correction Panel)
7. Soft Starter Panel Drive Control Panel
8. Power Distribution Board (PM)
9. AMF Control Panel
10. DG Synchronizing Panel
11. Main Lighting Distribution Board (MLDB)
12. Lighting Distribution Board (LDB)
13. Sub Lighting Distribution Board (SLOB)
14. Emergency PDB
15. Emergency MLDB
16. Emergency LDB
17. Control Desk with Mimic Diagram
18. Main Switch Board
19. Metering Panel with
20. ACCT & MS Panel
21. LT Bus Duct
22. Local Push Button Control Station
23. Junction Box
24. Control & Relay Panel
25. Feeders Pillars
26. Instrument Panel
27. Switch Socket Outlet
28. Fuse Distribution Board

PRODUCT RANGE



2. HT ELECTRICAL PANELS

Riddhi Siddhi Electrical is the Core Component Partner of Schneider Electric for HT range. The international standards of full range is available at Riddhi Siddhi Electrical works. Riddhi Siddhi Electrical is manufacturing cubicles and is integrating the MV COMPONENTS into MV Switchboard. The final Medium Voltage Switchboard is designed, manufactured and tested by Riddhi Siddhi Electrical with the help of Schneider Electric MV COMPONENTS.

Medium Voltage Components: -

- HVX,
- Easypact EXE
- Evolis range of vacuum circuit breakers
- LF and SF range of SF6 circuit breakers
- CBX/CVX range of Vacuum Contactors
- Rollarc range of SF6 Contactor
- 12, 24 & 36 KV Load break switches
- PIX basic kit/Power Module and relays like Sepam, MICOM, Vamp etc.



3. SERVO VOLTAGE STABILIZERS

The Servo Voltage Stabilizer functions to stabilize voltage and counter voltage functions.

Design

Single Phase Input and Single Phase Output

- i) Balanced Load
- ii) Unbalanced Load

Protections

- Overload Trip
- ii) Over Voltage Trip
- iii) Phase Reversal Trip
- iv) Single Phase Preventer
- v) Audio - Visual Alarm vi) Surge & Spike Suppressor



Office & Factory

Registered Office – 13, Barisha Purba Para High School Road , Kolkata- 700063

Corporate Office – GB 35, Gems City, Thakurpukur Bibirhat Road , Kolkata – 700104

Factory – Bakhrahat Road , Samali More, Kolkata – 700104

Telephone - +91 6290279884 / 7003525276

e-mail - Contacts.riddhisiddhi@gmail.com

Website- www.riddhisiddhigroup.org

