



# Techsupport

Electrical Services



**Company Profile :**  
**Quality Policy:**  
**Objectives:**  
**Our Certifications:**

## Company Profile :

**TECHSUPPORT** is into electrical service & support, currently executing System Improvement works of power utilities and O&M activities as well as project engineering work of small, medium & large industrial project in turn-key basis. We are in field of Maintenance of Sub-station for the past 5 years. We have established ourselves as a reliable and service oriented organization providing trouble free services & maintenance to all of our customers. Presently we have awarded, The Operation & Maintenance works of CESU 33/11 KV Sub-stations under Electrical Circles of Cuttack, Bhubaneswar-1, Bhubaneswar-2, Paradeep & Dhenkanala and AMC of 220/33kv sub-station of UAIL (An Aditya Birla Enterprise) at Tikiri, Koraput, Odisha.

We have carried out projects on turnkey jobs inclusive of all type of Electrical project management in Construction, Operations & Maintenance/ Erection, Testing & Commissioning of electrical equipments for various industries like CEMENTS, PAPER, SUGAR, AGRO ENGINEERING, MINING, INFRASTRUCTURE, preferably in POWER sector.

We are having the requisite Electrical Licenses and other Government Registrations required taking up the works of similar nature.

## Our AIM:

M/s Techsupport having our intrest on repceir & maintenance of electrical Sub-Stations like 33/11KV Sub-Station under different discoms of odisha also 220/132/33 KV grid Sub-stations under OPTCL. Though the firm has gatheved a good number of O&M engineers and skilled technicians with all field testing facilities M/s Techsupport may take is challenge towards day to day O&M activities of discoms / OPTCL.

## Quality Policy:

We aim to archive total customer satisfaction through manufacture and supply of quality products on agreed specifications, through continual improvement of all our processes and quality management systems.

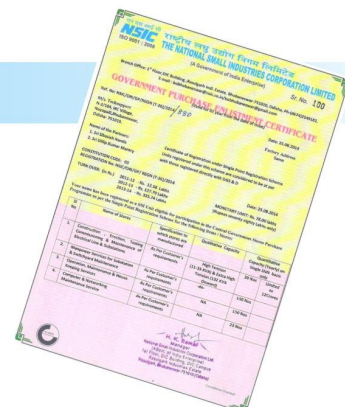
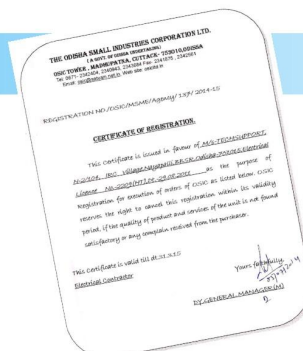
We always strive to meet all our set objectives to fulfill the customer expectations, requirements and also our organization's progress continually through periodical reviews of all our quality, commercial production and resources related targets.

## Objectives:

- Increased emphasis on reliability of design
- Achieving zero defect rate
- Employee motivation through continuous training
- Periodic review and rewards

## Our Certifications:

- Registration with MSME
- Member of NSIC
- Member of OSIC
- HT & EHT License from ELBO





Products:

Our testing & Measuring Equipment:

## Products:

Techsupport is able to provide its clients with a complete range of LT electrical panels with international standards. We are subsidiary agent to offer a wide range of materials, finishes and configuration to fit our client specific requirements.

### 1. POWER CONTROL CENTRE PANELS (PCC)

- Current rating up to 6300A
- Single/ Multi tier ACB system
- Single / Double front
- Double / Two tier bus bar system
- For multi incomers interlocking done with PLC



### 2. MOTER CONTROL CENTRE PANELS (MCC)

- Draw out / non draw out type construction
- Single / Double front
- DOL / S&D feeders wired suitable for PLC/ Remote Operation

### 3. INDOOR / OUTDOOR BUS DUCT

### 4. PLC PANELS

### 5. REMOTE I/O PANELS

### 6. FRP LOCAL CONTROL PANELS (IP 65)



## Our testing & Measuring Equipment:

1. Power analyzer (No load test & load test)
2. Turns ratio test kit
3. D.C resistance test kit
4. Insulation Megger
5. Tan-delta / capacitance test kit
6. 400 mA DIMERSTART (3-Phase)
7. Auxiliary transformer
8. Oil BDV test kit
9. Acidity & IFT Test kit
10. Phase sequester
11. Breaker analyzer
12. Contact resistance test kit
13. Secondary injection kit 1A /5A
14. Primary injection kit 4000Amp
15. Earth megger
16. Leakage tester
17. Clamp-on meter
18. Tongue tester
19. Galvanometer
20. Oil filtration plant (6KL)
21. Phase sequence meter
22. CT/PT Calibrator





### Testing facility for all electrical Equipment:

1. Current Transformer:
2. CVT :
3. Isolator:
4. Lighting Arrester:
5. Circuit Breaker:
6. Transformer:
7. Relay:

## **Testing facility for all electrical Equipment :**

### **Current Transformer :**

1. Winding Resistance Test
2. Insulation Resistance test
3. Knee point Test
4. Ratio Test
5. Series test upto relay
6. Thermovision Scanning
7. Checking of Burden on the secondary winding
8. Tan delta Test

### **CVT :**

1. Winding Resistance Test
2. Insulation Resistance test
3. Ratio Test
4. Thermovision Scanning
5. Tan delta Test

### **Isolator :**

1. Insulation Resistance Test
2. CRM Test
3. Contactor pickup Drop Test

### **Lighting Arrester :**

1. Insulation Resistance Test
2. Counter Test
3. Tan delta test
4. Checking of Leakage Current

### **Circuit Breaker :**

1. Insulation Resistance Test
2. Closing & Opening Timing Test
3. CRM Test
4. Due point test
5. D-CRM, Control Travel, contact Speed, contact Wipe, Arcing Contact Length
6. Control Circuit Insulation Resistance Test
7. Checking of pole Discrepancy relay
8. Functional Checks, Duty cycle operation including Rapid Re-closing
9. Tan delta measurement of grading capacitor
10. SF6 Gas leakage Test
11. Contact resistance test of all Contactor

### **Transformer :**

1. Insulation Resistance Test
2. Magnetising balance Test
3. Magnetising current Test
4. Tan delta Test of winding & bushing
5. SFRA Test
6. Polarization Index Value
7. Ratio test
8. WRM Test at all Taps
9. OLTC OIL test
10. Checking of Auto starting of cooler Pumps & Fans
11. Checking of all Remote Indicators
12. Electrical checking / Testing of Pressure release valve, Buchholz Relay, OLTC Relay
13. Recovery Voltage Measurement
14. Checking & calibration of OTI, WTI
15. Testing of Bushing CTs
16. OIL Test of Transformer

### **Relay:**

1. Protection Numerical Relay Test
2. Auxulary relay Test
3. O/C, E/F & Differentials relay Test
4. U/V, O/V, U/F, AVR relay Test



Projects:

## Projects:

- Complete Design, drawing, Construction, Erection, Testing & commissioning of switch yards from 33KV to 220 KV System.
- Operation & Maintenance works of Central Electricity Supply Utility 33/11 KV Sub-stations in CESU jurisdiction.
- Testing, Operation & Maintenance of 220KV line & 220/33KV Switchyard of Utkal Alumina International Limited. at Tikiri, Rayagada, Odisha.
- Operation & Maintenance of 33KV Double circuit Tower line and 33/11KV substation of Utkal Alumina International Limited at Baphlimali Mines.
- Up-gradation of Power transformers with its associated work in different 33/11KV substation of Discoms i.e. WESCO, SOUTHCO in different scheme.





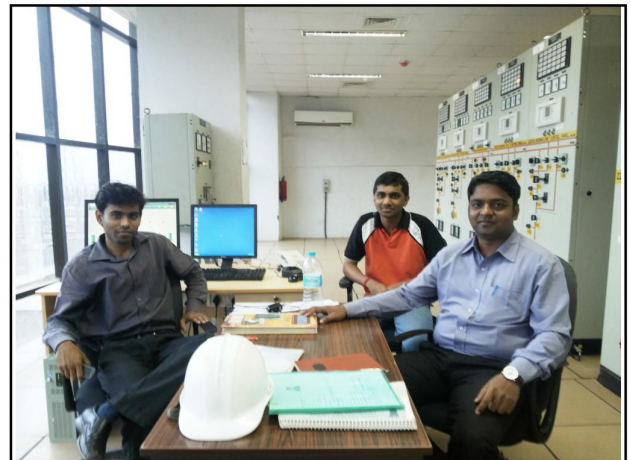
Our Strength  
Professionals in Service  
Our Major Customers

## Our Strength

- Adequate man power for Operation, testing & maintenance a switchyard / substation.
- Reduction of Interruption of Power supply
- Minimum time for restoration of power supply
- Better maintenance of Electrical equipment in Power sectors by which life span of equipment is more.
- Proper maintenance schedule for equipments
- Adequate safety guidance to work on site
- Training programme to improve the skill of manpower

## Professionals in Service

- Sr. Engineer / Project Managers .....
- Engineers .....
- Supervisors .....
- Technicians of all grades .....
- Helpers .....
- HR & Admns .....
- Finance & Accounts .....
- Clerk / DEOs .....
- Office Assistants .....



## Our Major Customers

1. M/s Central Electrical Supply Utility, Bhubaneswar, Odisha
2. M/s Western Electricity Supply Company, Burla, Odisha
3. M/s Southern Electricity Supply Company, Berhampur, Odisha
4. M/s Utkal Alumina International Ltd., Doraguda, Rayagada, Odisha
5. District Collector Balangir, Odisha



# Techsupport

**N-2/104, IRC Village, Nayapali, Bhubaneswar-15**

**Tel. : 0674 2550444, Fax : 0674 2557333**

**E-mail. : [techsupport.odisa@hotmail.com](mailto:techsupport.odisa@hotmail.com)**