



- ➔ **Testing & Commissioning Of HV Switchyard**
- ➔ **Operation & Maintenance Of Electrical System and HV Switchyard**
- ➔ **Material Supply**

# ABOUT US

Established In The Year 2016, We M/s Jaynarayan Energy Solution Pvt Ltd. are a Leading Service Provider Of Erection, Testing, Commissioning & Wiring Etc. In Gujarat India, We Have Constructed a Wide and Well Service Infrastructural Unit That Plays an Important Role In The Growth of Our Company. Our company comprising professionally qualified and experience team of Engineers.

## Main Activities:

- On-site Testing and Commissioning of the Switchgear & complete substation and associated equipment.
- Complete Turnkey Contracting including Engineering, Procurement, Construction, Installation and Commissioning with special support of Operation and Maintenance for all kind of electrical and substation projects.
- site Modification Works for the complete substation with high level of expertise in Switchgears and Protection modification including site visit and modification analysis, modification design, installation and testing.
- Supply of All type of Electrical goods like HT/LT Cables, Panel accessories, HT/LT Breaker Spares, Relay, Contactor, Transformer accessories

## Fields of Operation:

- Testing & Commissioning of Switchgears
- Solar Power Projects & Wind Power Projects.
- Electrical Transmission Substation and Distribution Substation.
- Oil and Gas, Chemical, Petrochemical, Manufacturing, Offshore, Power, Construction, Automotive & Food industry.

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## Electrical Switchgear Testing-

### Relay Testing



**Electromagnetic Relay  
(Auxiliary Relay)**



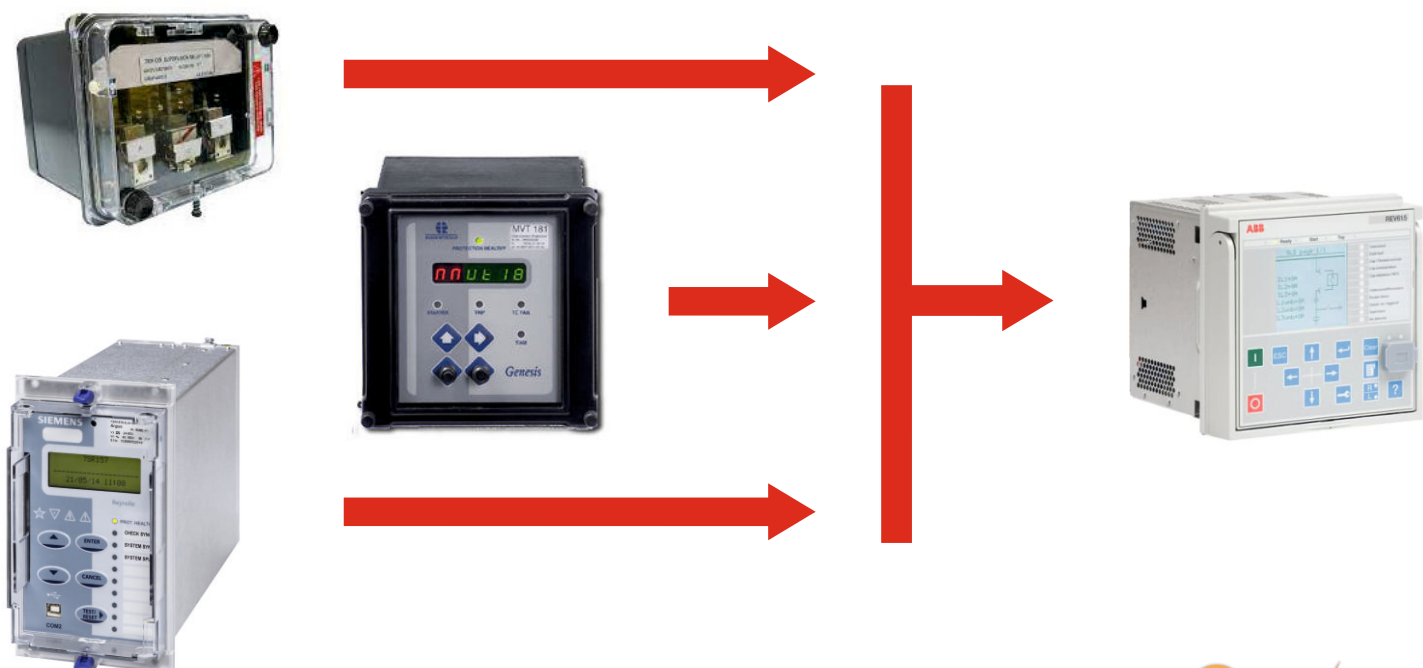
**Electromechanical Relay**



**Static Relay  
(Numerical Relay)**

### Retro Fitting

Successful replacement of old Protective relays (Electromechanical, Numerical) with new microprocessor based relays (ABB make REF series) In various petrochemical plants.



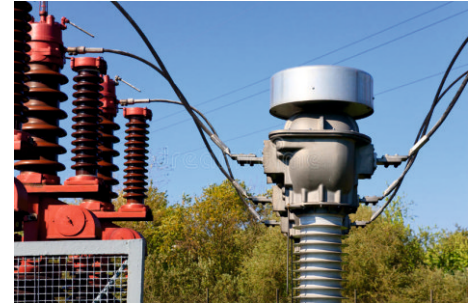
## Transformer Testing

- Tan Delta
- Magnetizing Current
- Magnetic Balance
- Vector Group
- IR/PI
- Ratio
- Winding Resistance
- CRM
- REF Scheme
- SFRA
- Differential Scheme



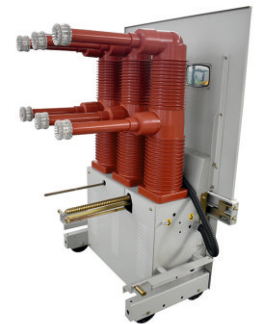
## CT/PT Testing

- Tan Delta
- Partial Discharge Test
- Ratio/Polarity
- Knee Point
- IR/PI
- Burden Test
- %Error Curve



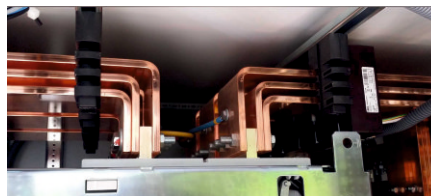
## Circuit Breaker Testing

- Manual 'ON' and 'OFF' operation
- Contact Resistance
- Insulation Resistance
- Opening Time
- Closing Time
- Close to Open Time (HT Breaker)
- Vacuum Bottle Level (HV Test)
- DCRM



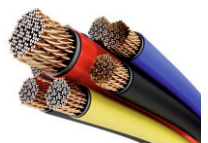
## Busbar Testing

- Insulation Resistance Test
- Bus Bar Resistance (With Joint)
- Bus Bar High Voltage



## Cable Testing

- Cable HI Pot (HV Test)



## Servicing of HT/LT Panel

- HT Breaker Servicing
- LT Breaker Servicing
- Bus Bar Tightness
- Transformer Maintenance
- HT/LT Panel Wiring



## SOLAR & WIND POWER PLANT (RENEWABLE ENERGY)

- Site access.
- Piling & Foundation.
- Cable Laying, Termination & Glanding.
- Module & Mounting Frame installation.
- Junction Box Mounting & Commissioning.
- Inverter Room Construction.
- Installation of Inverter, LT Panel, HT Panel, ACDB, DCDB, Trafo, Battery Charger, Lightning Arrester, Lightning System, Transformer & Switchgears.
- Substation construction.
- Electrical site works.
- Grid interconnection works.
- Testing and Commissioning.
- Operation & Maintenance of Solar Plant.
- Customized AMC plans based on the customer's needs.

## MAINTENANCE AND REPAIR

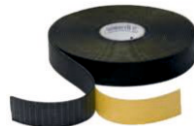
- Emergency response repairs.
- Electrical power generation, protection and distribution maintenance.
- Maintenance & Servicing of Breakers & Motors.
- Upgrading and modification of old substations.
- Repair of Transformer oil leakages.

## AMC SERVICE : Breakdown Maintenance Services

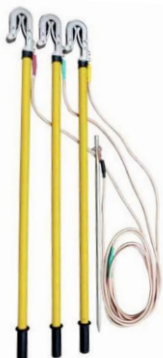
- Preventive Maintenance Services.
- Maintenance Services of Motors, Compressors, Indoor & Outdoor.
- Sub station on, Solar plants, Lightning System, HT Panel, LT Panel, Circuit Breakers, Transformers & all Switchgears.
- Solar Panel Cleaning services.
- Other Customized Maintenance Services.
- DC Cable fault finding and rectification.
- Oil Testing & Filtration.
- Manpower Supply.
- Cable supply, Installation, Termination and Testing.
- Electrical power systems, protection panels and distribution switchgears.
- Control system installations.
- Power Transformer installation and testing including oil filtration and treatment.
- Consultancy Services related to Relay Coordination.

# Material Supply

## Switchyard & Solar Panel Material Supply



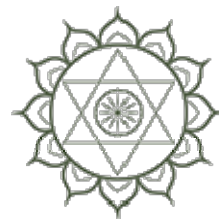
## Safety Materials



# OUR CLIENTS



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## OUR PHILOSOPHY..

We offer service at reasonable rates and deliver these within the promised time-frame. apart from this we also render Relay Testing and protection scheme check service, transformer all Test & Service, Circuit Breakers Testing service etc.

## Company Strength

Core team members have a Awareness & dual responsibility responsible for the project achieving its goals and responsible to ensure that the project complies with function's standards and best practices.

High skilled & professional team members with more labours.

- Fully Automatic tools, Machinery and all testing kits.
- We have expertise in LT, HT & EHV Substation testing.
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Under the leadership of Mr. Jigar R. Patel we have gained a huge client across the nation.

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### Head Office :

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**"Single stop for your all LV, HV Switchyard service requirement"**