



GENUINE POWER

POWER TO EXCEL

Genuine Power Pvt. Ltd.



Engineering excellence
powered by commitment



POWER TO EXCEL



About us

More than a decade of hands-on experience in the field of Power, Oil & Gas, we are Genuine Power Private Limited (GP) offering customized & specialized techno commercial consultancy services to the Power, Oil & Gas sectors. Genuine Power provides one stop solutions in these fields with its expertise & services for enhanced business growth, for clients & associates alike.

Energy expertise and a proactive attitude have enabled us to become an international player in the field.

Vision

To be a value creator to our partners, employees and stake holders in the company's area of operations, without compromise on human values, ethics, honesty and integrity.

Mission

To be a leader in the segments of Power, Oil & Gas, enabling solutions for an energy efficient & energy sufficient world.



Our policies

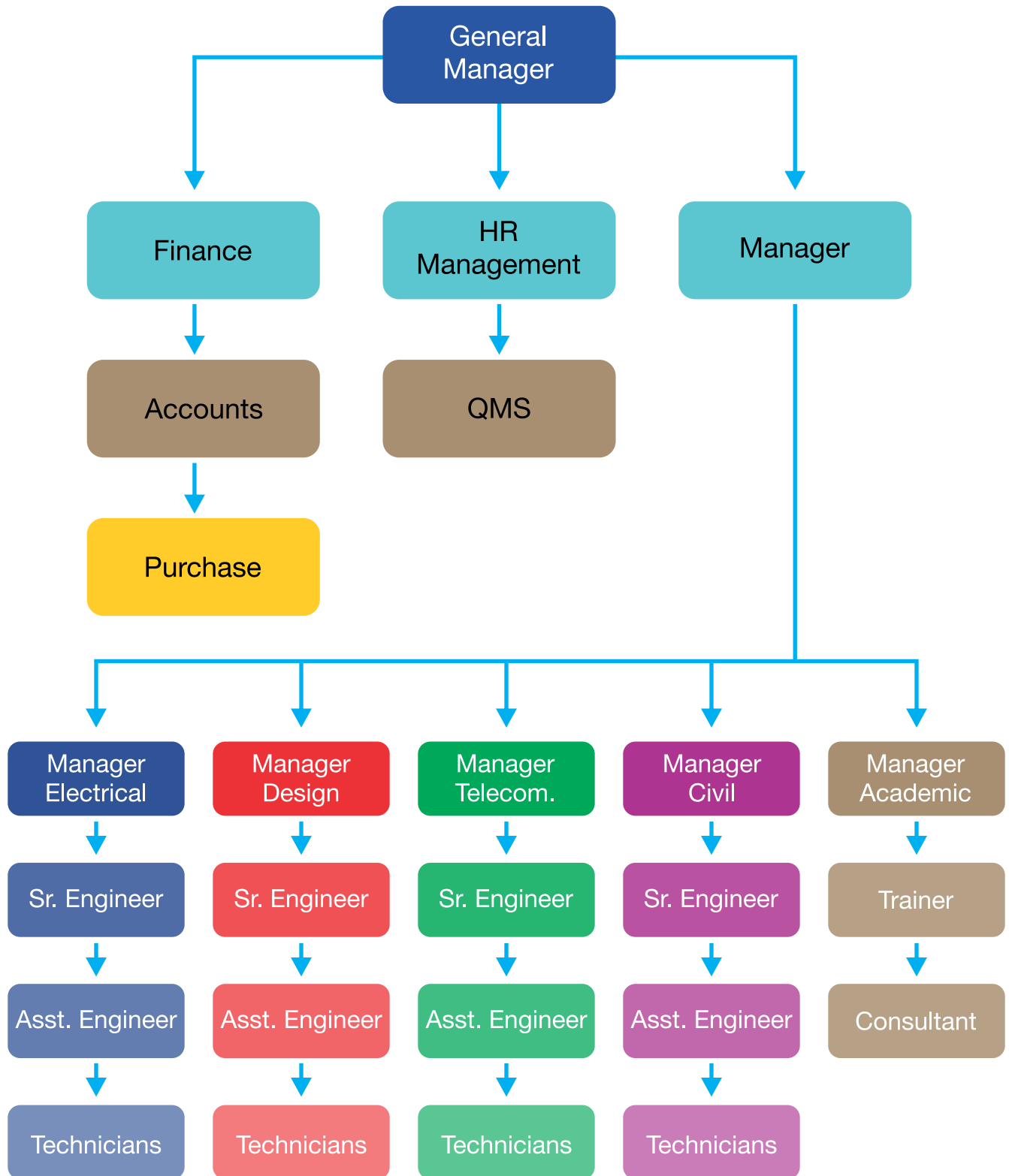
Quality policy:

- To increase Customer satisfaction
- On-Time Delivery
- Continuous process improvement
- Strict adherence to Health and safety norms
- Training and development of employees
- Our aim is to ensure our customer satisfaction by meeting their needs, fast response to their queries and on-time delivery
- We are committed to comply with all statutory and regulatory requirements related to our services
- We shall bring continual improvement in identified spheres of our business on regular basis

Safety policy:

- We are committed to maintaining the highest standard is safety during the execution of works and will strive for a minimum negative impact on the safety of the employees and that of the environment
- To provide and maintain equipment machinery and system of working which is safe and without risk and health

Organisation Chart





Protection Activities

Configuration, Testing & commissioning of protective relay electro mechanical, Static & numerical relay

- Feeder protection
- Differential protection
- REF protection
- Generator protection
- Transformer protection
- Motor protection
- Bus bar protection
- Bay control unit & etc

Experience in various makes of electro mechanical, static & Numerical relays

ABB Relays:

SPAG, SPAM, SPAD, SPAF, SPAU, REX, RET, REM, REB, REG, REL, RED, REF etc.

- REL670 - Line protection
- RED670 - Line differential
- REB500 - Bus bar protection
- RET, RADSB, SPAD - Transformer Diff. Protection
- REC 316*4 - Multi function relay
- SPAJ, REJ - O/C & E/F protection
- SPAU - Automatic voltage regulator relay
- RASC - Synchronizing relay
- RAICA - Breaker failure protection
- RADHD - REF protection
- SPAE - REF protection

SIEMENS Relays:

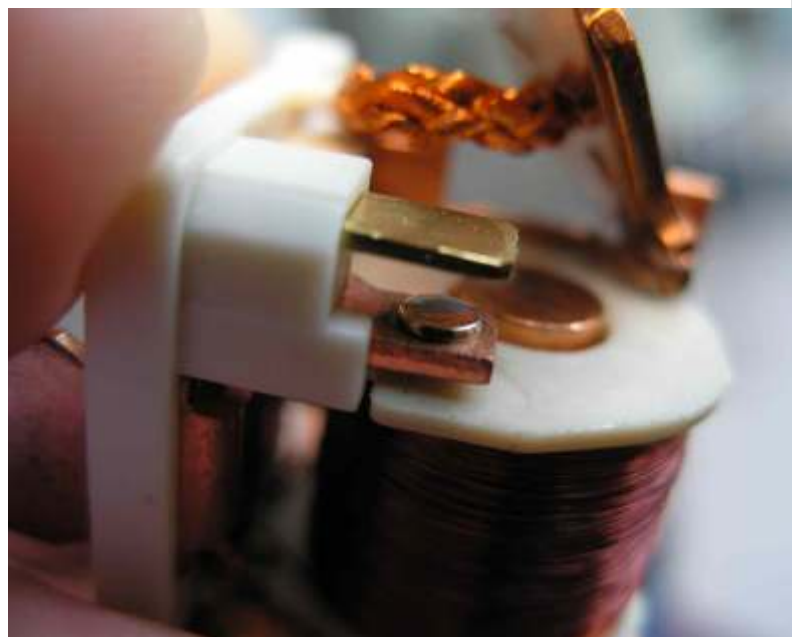
7SJ600, 7SJ602 , 7UM, 7UT, 7SD, 7SA, 7SS, 7VH etc

- 7SJ6005, 7SJ6225 - O/C & E/F Protection
- 7UT612 - Transformer differential protection
- 7SD612, 7SD610 - Line differential protection
- 7SJ62, 63, 64 - Multi function relay
- 7SA522 - Distance protection
- 7SK80 - Motor protection

AREVA Relays:

CDG, CAG, VAG, DTH, MICOM P121, P127, P220, P341, P343, P440, P442, P632, P920 etc.

- DTH,KBCH - Transformer diff. protection
- MiCOM P343 - Generator Protection
- MiCOM 127 & KCEG112,142, 152, & E/F Protection 242 - Directional O/C
- MiCOM 121, 122, 111, & KCGG122, 142 - O/C & E/F Protection
- KVFG122,142 & MiCOM P922, 941 - Voltage and frequency relay
- KAVS & SKD, SKE - Check synchronising relay
- KAVR100,130 - AUTO recloser and check synchronizing
- KVTR100 & VARM - Auto recloser
- KVGC202 - Voltage regulating relay
- Motpro - Motor protection
- GTTM - Over flux relay
- VTU - OVER voltage relay
- CDG, CAG & MCTI - Current operated relays
- MVAJ, MVAX, MVTT, MVTU - Voltage operated relays



GE Multilin Relays:

SR489, SR249, T60, G60, F60, D60, T90, G90, D90

- SR745 - Transformer diff. protection relay
- SR469 - Motor protection relay
- SR750 - Feeder Protection Relay

Other Relays:

- VAMP : Vamp40, Vamp50, Vamp210, Vamp265, Vamp270
- Easun Reyrolle : TJM10, TEB2, RHO3, ARGUS1, MIT, MIB, DUOBIAS.
- SEL : SEL387, 351, 487, 551, 751
- TOSHIBA : GRT100 -Transformer protection
GRD140 -Dir. Over current relay
GRD110 -Over current relay



Annual maintenance Activities

- Relay testing and Energy meter calibration
- Maintenance testing of transformers & oil filtration
- Maintenance testing of Generators
- Maintenance testing and overhauling of switch yard equipments
- Servicing of isolators
- Servicing of old Electromechanical relays

Revamping & Retro fitting of activities

- Metering system up gradation with latest high accuracy communicable meters.
- Relay retrofitting with latest state of art Numerical relay.
- Control scheme modification with latest PLC & DCS.
- Medium voltage MOCB with VCB.

Operation & Maintenance

GP doing operation & maintenance of electrical system such as switchyard, switchgears, power plants, process plants like cement plant, chemical plant, steel plant, coal handling plant & etc.

We provide quality services in operation & Maintenance for deputing our engineers and instruments for 7x24 hours, 3 shift to maintain un-interrupted protection of the plant. And also provides in case of emergency maintenance and troubleshooting activities required during protection. Our company provides periodical maintenance schedule preparation and execution.

Other services

Our highly energy conscious team works closely with all our clients in the following areas, resulting in better energy management & cost-effective solutions.



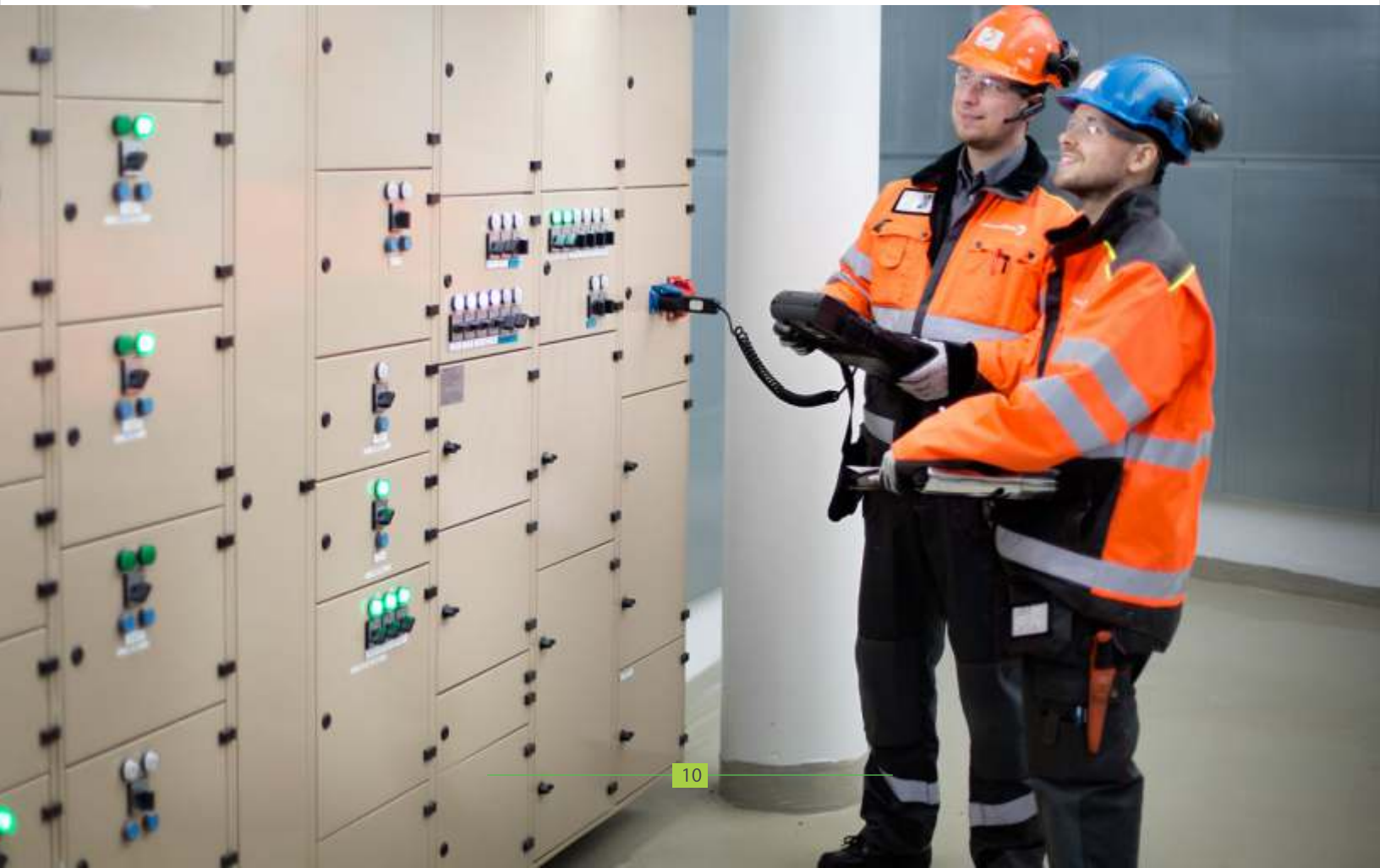
Controls & Automation

- Steam turbine control system retrofits & upgrades
- Gas turbine control systems retrofits & upgrades
- Turbine fuel system & instrumentation upgrades
- NOx reduction using water injection
- Compressor anti-surge controls
- Integrated turbine & compressor controls
- Integrated turbine & generator controls
- Valve & actuator upgrades
- Repair & calibration of governors
- Repair & calibration of liquid and gas fuel valves
- Upgrade of mechanical to digital governors
- Upgrade of obsolete analog or digital controls to state-of-the-art digital controls
- In-house customized training on standard controllers
- Regular and customized training on programmable controllers
- Site services for installation & commissioning of new controllers
- Site services for commissioning and trouble shooting of controllers during plant turnarounds
- Short and long term maintenance and service contracts
- Shelters and HVAC's for safe & hazardous areas
- Process and analytical system and accessories
- Fire and gas detection system
- Level instruments
- Process control instruments
- Flow-metering skids

Electrical services

We provide full range of specialized services for almost every make and model of electrical generator / motor. Our highly skilled and experienced team offers variable solutions that are in conformance with required standards / procedures including:

- Electrical scheme functional check
- CT & PT testing
- Circuit breaker analyzing (timing, contact resistance)
- Protective relay testing & calibration
- Insulation test and high voltage test
- Sensitivity and stability check
- Rental services - protective relay testing equipment & transformer testing equipment
- Auto synchronizing and auto load sharing of DG sets
- Review and solution for electrical protection schemes
- Trouble shooting and solution of existing electrical network issues



Transformer service

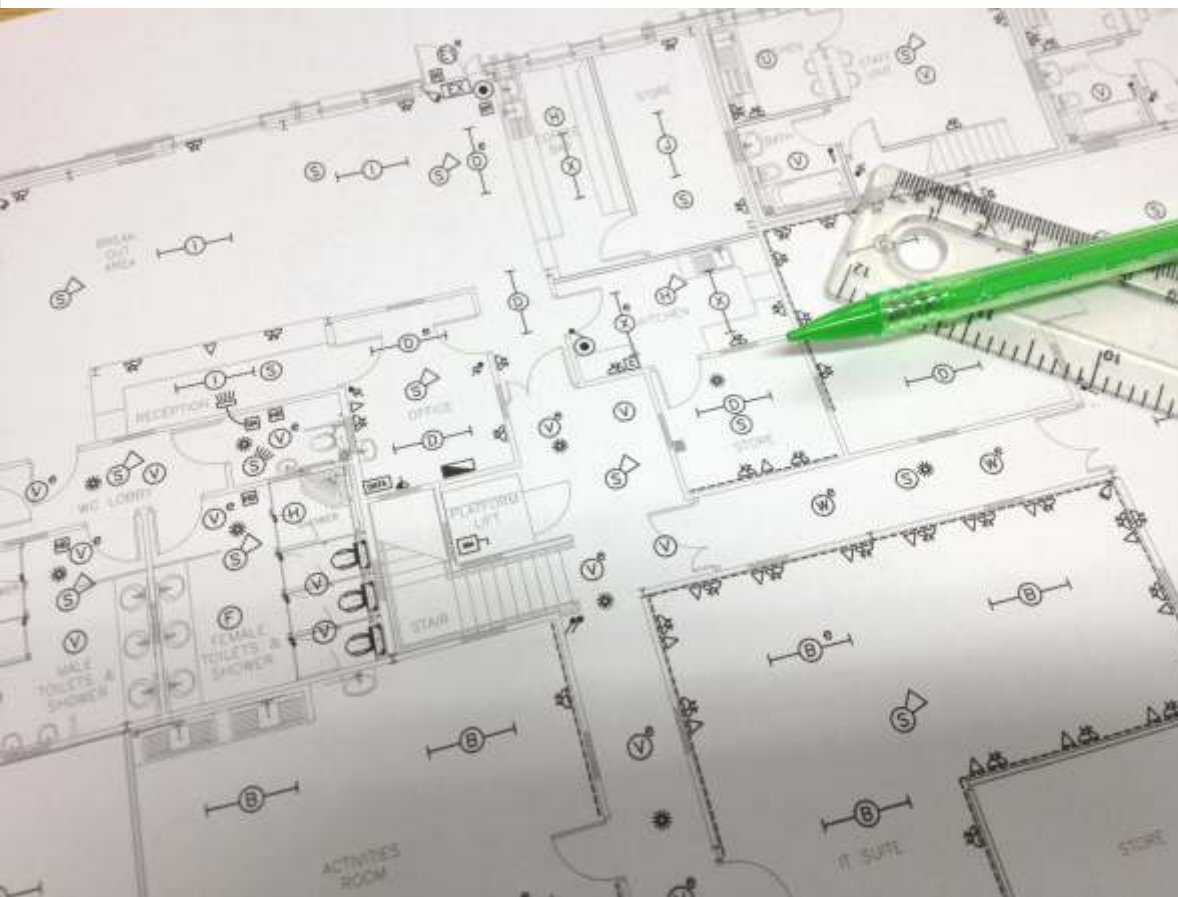
We provide expert onsite and in-shop services for transformers and switchgears.

- On-site services
- Installation, assembly, testing & commissioning of old and new transformers (up to 250 MVA)
- Relocation, foundation modification, control wiring modification, replacement of electrical & mechanical accessories
- Diagnostic and condition monitoring of transformers
- Condition assessment of HV substation & transformers
- Electrical and mechanical measurements
- Chemical analysis of transformer oil
- Analysis & reports
- Oil filtration (off-line) and reclamation / regeneration (on-line) of transformers & shunt reactors
- Silicone coating of insulators
- Calibration of WTI, OTI, MOG
- Cleaning, visual inspection, tightness check for cables and bus bars

Mechanical services

- General fabrication and erection
- Equipment erection and dismantling
- Structural fabrication and erection
- HVAC
- Commissioning





Engineering Design Activities

Power system analysis study by using ETAP (Electrical Transient analyzer program) software

- Load flow analysis
- Short circuit analysis
- Relay co-ordination study
- Transient stability analysis
- Load sharing feasibility study
- Earth Calculation
- Equipment sizing calculation includes: CT, PT, Transformer, Generator, Motor, Cable, Battery & UPS
- Schematic drawing preparation using Auto CAD/EPLAN* software for various schemes of control & relay panel
- Interconnection Cable schedule preparation for HV & EHV switchyards
- MV switchgear panel design support
- Site study and As-built drawing preparation of old systems
- SCADA interconnection cable schedule preparation



Telecommunication

Tower design:

- Electrical & telecom tower loading & vetting analysis.
- tower mapping & inspection, in building coverage & project management
- Preconstruction tower mappings for structural analysis.
- Third party inspection & certification-tower installation

Telecom design:

- Professionals in survey & design for the provisioning of GPON / copper network to new and brown field areas and buildings.
- Professionals in high level of project engineering design related FTT network , OSP manhole and conduit system designs.
- Outsource telecordia, GIS & telecom design professionals.
- GIS based planning, Design for telecom & Electrical network
- Electrical transmission & distribution planning using ArcGIS
- Geo based survey solutions
- CAD Engineering services-Telecom designs, As build drawings
- Schematic drawing preparation using Auto cad/ EPLAN* software for various schemes of control & relay panel
- Layer 2 and layer 3 configuration and design
- Complete integration of indoor and outdoor plant
- Design of RF & fibre optic in building coverage solution

Telecom Services:

- Trading electrical & electrical & telecom products.
- In building solution services
- Outside plant fibre optic and copper cable projects civil related job
- Splicing, jointing, termination and testing of all type of fibre optical cable for telecom and electrical sector.
- Preventive and operation maintenance of fibre optic and copper cable network



PLC & SCADA

Our main activities are as follows:

- PLC supply
- Logic Building
- Configuration
- Installation at site
- Field wiring interconnection
- Commissioning
- SCADA field support
- Also our PLC & SCADA services are include the brand includes OMRON, SIEMENS, ABB & AREVA

Our consultancy & services network

We have the expertise to connect different stacks in a close the city or the entire country at a single location or a control room by mapping it down through different technologies like GSM, satellite, etc. This serves head offices of different electricity plants /refineries / cements plants / regulatory bodies etc.

On-site training / workshop program

Our on-site training programs are developed to address key implementation issues. We also offer customized training solutions

GP offers training classes that provides technical information and hands-on experience for personnel working on control systems. The training modules are designed to meet the requirements of personnel working on mechanical or electrical control systems.

Topics include:

- Proper control operation and maintenance
- Control adjustment and calibration procedures
- Test procedure for checking the 'controls operation
- Procedure for troubleshooting systems to pinpoints problems
- Problem solving techniques through class discussions

Onsite classes:

- Custom- tailored classes at your site on the complete range of controls to suit specific applications

Indian Office:



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