



Electrifying Qatar Since 1974



TRANSMISSION DIVISION

THE FOLLOWING ARE THE MAJOR ACTIVITIES CARRIED OUT BY THE TRANSMISSION DIVISION :-

EHV CABLE INSTALLATION INCLUDING CIVIL WORKS.

REPLACING/REROUTING THE CABLE (EXPOSING CABLE BY WATER JET/SAND BLASTING MACHINE).

CARRYING OUT DAMAGE REPAIR OF EHV CABLE.

THE VARIOUS ACTIVITIES CARRIED OUT ARE AS FOLLOWS AS PER THE SITE CONDITION/CLIENT'S REQUIREMENT.

- Route verification, Soil investigation, Excavation of trial pits
- Site survey, Setting out and preparation of AS-BUILT record drawings.
- Excavation of trenches, Thermal Backfilling and reinstatement.
- Construction of Joint Bays , Link Box Pits, Fibre Optic Pits , PD Pits
- Road crossings by Horizontal Directional Drilling (HDD) / Open Cut methods
- Construction of Reinforced Concrete Cable Troughs
- Installation of EHV cables, FO Cables / DTS Cables
- Installation of Straight Joints / Sealing Ends using specialist supervision
- Testing & Commissioning of EHV , FO / DTS Cables



DISTRIBUTION DIVISION

THE FOLLOWING ARE THE MAJOR ACTIVITIES CARRIED OUT BY THE DISTRIBUTION DIVISION:-

- Trench Excavation.
- IHV/LV Cable jointing & Termination Works.
- Construction of Road Crossing by Horizontal Directional Drilling/Open Cut Method.
- HV + PILOT/LV Cable Installation.
- Replacing/Re-Routing / Damage Repairs of Cables.
- Replacement/Installation of Substation Equipments. (Transformers, HV Panels, RMU, Feeder Pillars/MV Panels)
- Installation of Generators & Associated Panels
- Construction of Distribution Substations.
- Substation Earthing Works.
- Fixing of Cable Trays, Ladders & Support Structures.
- Installation of Fire Retardant Paint on Cables.



SERVICES DIVISION

SURVEY & DRAWING DEPARTMENT

- Topographical survey (includes utilities, corridors, properties, boundaries and road details)
- Underground utilities detection using Ground Penetration RADAR System (GPRS)
- GPS- survey works (To establish control points connecting with QND with accurate co-ordinates) etc.,
- Preparation of detailed AUTOCAD AFC Drawings , Preparation of As-Built & Profile drawings



CABLE LAYING DEPARTMENT



- Laying of LV/HV Cables upto 800mm² size in open trenches, on cable trays/ladders and through Pipe ducts, on Pipe Racks , etc.
- Providing Third Party Certified Cable pulling Winches of 5 Ton and 10 Ton with experienced Operators
- Laying of EHV Cables upto 400KV, 1CX2500mm² size using Mechanical Winches by Nose pulling method, Bond pulling methods in open trenches, Concrete troughs and Substation basements

CABLE JOINTING DEPARTMENT

- Cable Jointing and Termination of LV/HV/EHV Cables (both heat-shrinkable and plug-in types) of different types like PVC, XLPE, PILC etc.
- Cable Jointers are certified by KAHRAMAA, RAYCHEM, PFISTERER and ELASTIMOLD



FIBRE OPTIC DEPARTMENT

- Fibre Optic Cables blowing through various sizes of HDPE pipes & installation
- Installation of Telecom Racks and equipments Infrastructure Cable Rack (ODF), CISCO ONS panels, FOX and SDH panels
- Jointing, Splicing/Termination of Fiber Optic Cables
- Drum Test , Attenuation Test, OTDR End-to-End Tests, Power meter tests etc.,



TESTING & COMMISSIONING DEPARTMENT

Comprehensive Testing & Commissioning Service for Electrical Equipments: -

- Power Cables – LV/HV/EHV
- Current Transformers
- Diesel Generators
- Voltage Transformers
- UPS / Battery Banks
- Power / Distribution Transformers including Oil Filtration works
- LV / HV Switchgears / MCC Panels / Generator ATS Panels etc.,
- LV/HV Circuit Breakers, Busbars
- All types of Protection Relays



BORE HOLE & EARTHING DEPARTMENT

- Providing services of making bore holes of different diameter sizes (from 85mm to 300mm) using our Truck Mounted / Towing type Drill Rigs & installation of Earthing system for all types of electrical installations.
- Also carry out the drilling of bore holes for Soak Away pits / Drain pits for Roads and Electrical poles etc.



CIVIL REINSTATEMENT DEPARTMENT

- Blinding Concrete / Screeding Concrete / Block & Partition works for Cable Joint Bays and other Concrete Pits
- Joint Bays/ Concrete Manholes inside & outside Plastering , epoxy painting works, Installation of Cover Slabs
- Asphalting works
- Concrete Surface works
- Concrete Paving slabs
- Kerbstone/ Interlock works

HORIZONTAL DIRECTIONAL DRILLING DEPARTMENT

We have the capacity to drill holes of diameter up to 1000mm and length up to 200M under all soil conditions. The following HDD equipment along with the required accessories are available with us: -

DITCH WITCH JT 2720AT (FOR PILOT HOLE)

DITCH WITCH JT 4020AT
(FOR PILOT HOLE & REAMING)

DITCH WITCH JT 4020 MACH1 (FOR
REAMING)

DITCH WITCH JT 100 AT
(FOR PILOT HOLE & REAMING)



We have the experience of working for EHV cable installation projects involving the Road Crossing of EHV cables & Projects for Road crossing of different utility Pipes by HDD method. Also, we have successfully carried out drilling under the QP Pipe lines, Tunnels, Water Channel and Major Roads etc., as per client requirement.



SAFETY & VIGILANCE DEPARTMENT

- Conduct site inspection and monitoring of safety compliance & safety programs
- Preparation of Job Hazard Analysis / Risk Assessments
- Providing Safety Officers



KEMCO Electrical & Mechanical Est.

ISO 9001-2008, OHSAS 18001-2007 and ISO 14001-2004 Certified

Ph: (974) 44337600/44321910 Fax: (974) 44432506

kemelectrical@kemco-qatar.com

www.kemco-qatar.com