



TRINIDAD AND TOBAGO ELECTRICITY COMMISSION
DISTRIBUTION DIVISION
CONTRACTOR QUALIFICATION COMMITTEE

WORK CLASS DEFINITIONS

Work Group 1000 – ELECTRICAL SERVICES

CLASS	NAME & DESCRIPTION
1030	CABLE INSTALLATION, JOINTING & TERMINATING Covers trench excavations, laying of ducts, pull boxes, man-holes, cable tray and conduit works for and including power cable installation, removal, laying of electrical cables to specification, and maintenance inclusive of jointing and terminating of paper insulated, cross link polyethylene, etc. single core or multi-core cables rated up to 66kV. Also includes cable testing and provision of test certificates.
1032	FIBRE OPTIC CABLE INSTALLATION & MAINTENANCE (n) Includes the installation, splicing, termination and removal of overhead and underground fibre optic and other communications cables.
1033	PILOT CABLE INSTALLATION, JOINTING, TERMINATION & REMOVAL Includes the installation, jointing, termination and removal of overhead and underground pilot cable, underground and overhead. Also includes overhead stringing and tensioning.
1050	INDUSTRIAL (600V) Includes the procurement and/or installation and maintenance of electrical distributing systems at power plants, substations, switch rooms, etc and includes equipment such as distribution cables, switchgear, transformers, protective equipment, battery chargers, fans, motors and starters, lighting etc. The supply may be single phase or three phase low/medium voltages (up to 600 volts).
1055	INDUSTRIAL (12kV) Includes the procurement and/or installation and maintenance of indoor or outdoor electrical distributing systems at power plants, substations, switch rooms, etc and includes equipment such as cables, switchgear, transformers, protective equipment, battery chargers, fans, motors and starters, lighting etc. The supply may be single phase or three phase low, medium or high voltages (up to 12,000 volts).
1057	ELECTRICAL INSTALLATION & MAINTENANCE (ABOVE 12kV) Includes the procurement and/or installation and maintenance of indoor or outdoor electrical equipment at power plants, substations, switch rooms, etc and includes equipment such as cables, switchgear, transformers, protective equipment etc.
1058	TRANSFORMER REPAIRS UP TO 220 kV (n) Includes but not limited to cleaning, sandblasting, oil leak repairs, painting, oil filter & vacuum, Dissolved Gas Analysis testing.

Work Group 1000 – ELECTRICAL SERVICES

CLASS	NAME & DESCRIPTION
1060	TRANSFORMER & MOTOR REPAIRS (UP TO 600V) Covers dismantling, inspecting components, checking fits, testing winding, carrying out service and repairs including balancing of rotor, assembly and test run of motors (up to 600 volts). Also covers removal of defective coils and windings, procurement and replacement to original specifications including connections and testing (up to 600 volts).
1070	OVERHEAD LINE CONSTRUCTION & MAINTENANCE (UP TO 12kV) Includes installation and maintenance of poles, cross arms, insulators, conductors and fittings, guys, air break switches, fuse cutouts, pole mounted transformers etc.
1071	DISCONNECTION / RE-CONNECTION FOR NON-PAYMENT OF ACCOUNT AT METER BASE ONLY Restricted to domestic customers with single phase three wire or single phase two wire low voltage supplies less than 650 Volts. It includes the verification of meter numbers, recording meter reading and seal numbers, the removal of meters under energized conditions using approved tools and PPE, installation of disconnect sleeves, measuring and recording voltages and confirming that they are within limits and the reinstalling of meter/s and associated fittings.
1072	DISCONNECTION/RE-CONNECTION FOR NON-PAYMENT OF ACCOUNT AT THE POLE Restricted to domestic customers with single phase three wire or single phase two wire low voltage installations less than 650 Volts whose premises/meter are inaccessible. It includes ascending pole using ladder or bucket truck and using a bolt cutter or pliers to cut & disconnect the phase conductors of the service connection wire at the pole end. Securing ends of triplex with insulating tape and using approved Voltmeter to measure voltages. Wire brush, connect and crimp triplex to LV conductors under energized conditions. Measuring and recording voltage and confirming they are within the correct limits in meter base. Installing meter, meter ring and meter seal. Documenting meter reading and seal numbers.
1073	TRANSMISSION OVERHEAD LINE CONSTRUCTION & MAINTENANCE (33 kV and ABOVE) This work class covers the construction of pole/tower foundations, erection of towers/mono-columns (lattice type support structure), installation of 17m, 21m and 27m poles, framing of all the different support structure to accommodate the various line hardware assemblies including tension and suspension sets. This class also covers the installation of line hardware assemblies (including dampers), air-craft marker balls, insulators, conductors (OPGW, AAAC, ACSR, ACSR/AW, ACSS and ACSS/AW), guys and switches whose nominal operating voltage are 33kV and above.

Work Group 1000 – ELECTRICAL SERVICES

CLASS	NAME & DESCRIPTION
1074	<p>INSTALLATION OF NEW DOMESTIC CONNECTIONS (DIRECT CONNECTION OR VIA PRIVATE POLES OR PRIVATE POLES WITH METER BASE AND CONSUMER'S ENTRANCE CABLE)</p> <p>This work class is restricted to domestic customers with single phase three wire low voltage supplies less than 650 Volts. It includes Making checks on the customer's installation to confirm there are no bridges, or condition of the electrical installation which may deem it as unfit for connection despite the presentation of an inspection certificate. To ensure there are no external sources of supply continuity between phase or neutral terminals of meter base and to ensure customer's main switch is in the <u>OFF</u> position. This work class also include inspection of customer's Point of Entrance, private pole or super structure, ascending T&TEC Pole, customer's private pole using ladders or Bucket Truck. The Installation and anchoring of Triplex conductor at Point of Entrance, Private Pole or Super Structure. Ensuring that triplex conductor is installed in such a manner that all standard clearance requirements are met. Connection of triplex to customer's cable and to T&TEC's overhead lines under energized conditions. Confirming and recording voltage within proper limits and installing meter, ring and meter seal. Recording meter reading and seal numbers.</p>
1077	<p>INSTALLATION & MAINTENANCE OF COMMUNICATIONS EQUIPMENT</p> <p>Includes the installation and maintenance of telephone, fibre, radio and video surveillance equipment and associated accessories.</p>
1090	<p>AC/DC GENERATORS SERVICES <i>(n)</i></p> <p>Includes the supply or rental, installation and maintenance of standby generators and ancillary equipment.</p>

Work Group 2000 - CIVIL WORKS

CLASS	NAME & DESCRIPTION
2020	BUILDING CONSTRUCTION Covers the construction of industrial (substation, workshops etc.) and non-industrial buildings using timber, masonry, reinforced concrete, structural steelwork and the provisions of building accessories and appurtenances e.g. electrical systems, air-conditioning, plumbing, sewage disposal etc.
2023	BUILDING MAINTENANCE Includes all maintenance to buildings such as: a) Repairs, replacement and installation of new plumbing fixtures and service lines. b) Repairs, replacement, modifications and extensions to substructure/superstructure and finishes. c) Surface preparation and painting. d) Installation and repair of connections to gas cylinders.
2024	LIFT AND ELEVATOR SYSTEMS (n) Includes the installation, commissioning, inspection, testing, certification, maintenance and repairs of elevators and associated equipment.
2030	FABRICATION & WELDING - NON INDUSTRIAL Covers minor fabrication and welding.
2040	INDUSTRIAL PAINTING INCLUDING BLASTING Includes surface preparation and painting using hand tools and wet or dry abrasive cleaning equipment (e.g. sand blasting/water blasting).
2050	REINFORCED CONCRETE WORKS Covers foundations for equipment, tanks, abutments retaining walls and other structures. Work would include the following:- a) Excavation, earthworks and piling in soil or rock. b) Fabrication and installation of reinforcement as per design specifications. c) Mixing, pouring and finishing of concrete to obtain desired strength and other specified property criteria including the use of special admixtures and curing agents. d) Sampling and provision of strength test results. e) Grouting and levelling of equipment bases. Work involves utilization of skilled carpenters, steel benders, masons and other related specialized materials, labour and equipment as per design requirement.
2070	INSTALLATION & MAINTENANCE OF COMMUNICATIONS TOWERS (n) Includes the construction and assembly of towers, plinth / footings, members and anchorage for fall arrest systems. Also includes the inspection and repair of towers.

Work Group 2000 - CIVIL WORKS

CLASS	NAME & DESCRIPTION
2080	SCAFFOLDING SERVICES (n) Covers the supply, assembly and erection of scaffolding including provisioning of anchoring points, certification, disassembly and removal.
2090	ASPHALT WORKS (n) Covers the supply, laying, spreading and compaction of asphaltic concrete, base course and sub base layers respectively. This is inclusive of preparation of sub grade, bituminous prime coats, bituminous concrete pavement mix designs, and density and compaction testing.
2100	GEOTECHNICAL INVESTIGATIONS (n) Covers site appraisals, borehole drilling, field sampling and testing, soil classifications, preparation of reports on geotechnical engineering sub-soil parameters, and other foundation design requirements.
2110	TESTING SERVICES - MATERIALS (n) Includes the sampling and testing of concrete, asphaltic concrete, structural steel specimens and similar materials.
2120	TESTING SERVICES – ENVIRONMENTAL (n) Includes the sampling and testing of air, soil and water.

Work Group 3000 – MECHANICAL SERVICES

CLASS	NAME & DESCRIPTION
3010	AIR-CONDITIONING & REFRIGERATION SERVICES (D&C) Includes supply, installation and maintenance of window & central type air-conditioners, split units, refrigerators, water coolers, ice makers, console freezers etc.
3011	AUTOMOTIVE CLEANING (n) Includes cleaning of interior and exterior of vehicle, engine and under body wash, polishing and detailing.
3012	AUTOMOTIVE BODY REPAIRS Covers the repairs, straightening and painting of all types of vehicles in a workshop environment off company's premises; knowledge of repair materials and paints required.
3013	AUTOMOTIVE ELECTRICAL REPAIRS Covers the installation, repairs and service to light, wiring, instrumentation, starters, alternators and other electrical accessories on vehicles.
3014	AUTOMOTIVE ENGINE & MECHANICAL REPAIRS Covers the maintenance and complete overhaul of engines by skilled craftsmen; modification and repairs to gearbox, differential, suspension, alternator, starter, transmission, converter, hydraulic and auxiliary drive systems. The use of special tools and manuals is required.
3015	AUTOMOTIVE MUFFLER REPAIRS Covers the repairs/replacement of exhaust systems for all makes of vehicles e.g. domestic, commercial and industrial.
3016	AUTOMOTIVE RADIATOR REPAIRS Covers the repairs and replacement of all types and sizes of radiators for domestic and commercial industrial vehicles.
3017	AUTOMOTIVE TYRE & TUBE REPAIRS Covers the repairs to tyres and tubes for all makes of vehicles e.g. domestic, commercial and industrial.
3018	AUTOMOTIVE UPHOLSTERY Covers the repairs/replacement of upholstery for all types of domestic, commercial and industrial vehicles.

Work Group 3000 – MECHANICAL SERVICES

CLASS	NAME & DESCRIPTION
3070	GENERAL MACHINE SHOP SERVICES Includes the repairs, modification, fabrication and welding of items requiring machine shop skills and use of standard machine tools and associated measuring instruments involved in processes such as: (a) Turning (including threading of tubular and tools to API specifications). (b) Bench fitting, cutting keys and keyways, drilling, tapping, slotting etc. (c) Horizontal/vertical boring, shaping, slotting, grinding, milling, etc. Personnel shall comprise of skilled experienced craftsmen who must possess a working knowledge of principles, which obtain in Machine Shop practices.
3075	GENERAL WELDING SHOP SERVICES Covers the repair, fabrication, welding, testing of a range of equipment, poles, structures and components associated generally with electric utilities utilizing standard equipment and techniques relevant to the crafts. Requires adequate facilities and skilled craftsmen capable of interpreting drawings, carrying out fabrication operations, welding of carbon, alloy steels, and other metals and generally to perform work in accordance with various codes, standards and specifications.
3076	WELDING & HYDRAULICS Covers the routine preventative maintenance and servicing in accordance with the Manufacturer's Specifications on any Aerial-lift hydraulic truck, crane and digger derrick truck. It includes all repairs and service of any other truck-mounted hydraulic equipment including but not limited to PTO's, Hydraulic Pumps, Hydraulic Hoses, Valve Blocks, Winches, Spools etc. It includes the service on all makes and models of Aerial Lifts and the provision of secure facilities for Shop Services. This Work Class includes the provision of a 24 hour Emergency Road Service throughout Trinidad & Tobago. It includes same or next day availability on parts in stock and competitive pricing on all parts. It covers for the Routine Maintenance and Preventative Maintenance Inspections. This work class also covers the repair of Hydraulic Hose and Cylinders, Electrical Troubleshooting and Repair. It includes the transfers and remounts of old units on new trucks and Welding/Fabrication.
3077	CERTIFICATION OF HYDRAULIC EQUIPMENT Includes a listing of Competent Persons to examine hoists and lifts as recognized and acknowledged by the Occupational Safety and Health Authority (OSH) of Trinidad and Tobago.
3080	INDUSTRIAL DIESEL & GAS ENGINES Covers the maintenance, complete overhaul, installation and alignment of diesel and gas engines. This includes the overhaul of engines, modifications and repairs including gear box, differential, suspension, alternator, starter, hydraulic system, transmission, converter, auxiliary drive systems, production hoist, fuel systems and fuel pumps.

Work Group 3000 – MECHANICAL SERVICES

CLASS	NAME & DESCRIPTION
3090	ROTATING EQUIPMENT Includes the reconditioning or re-manufacturing of rotating equipment components for pumps, turbines and compressors using machine shop skills, processes and equipment. Personnel must be skilled craftsmen with the ability to interpret drawings and with a full knowledge of fits, tolerances and surface finish. Specialized knowledge, ability, use of tools, measuring instruments, materials and components relating to rotating equipment is required.

Work Group 4000 – INSPECTION SERVICES

CLASS	NAME & DESCRIPTION
4010	INFRA-RED SCANNING SERVICES Covers the Infrared scanning of high voltage overhead lines, terminals, insulators and substation process equipment to determine surface temperature.
4020	METER READING SERVICES Covers locating and reading of meters at customer premises and elsewhere and making entries into data entry devices or paper forms.
4030	ULTRA-SONIC INSPECTION Covers the ultra-sonic inspection of insulators, conductors and other plant items to detect electrical arcing and leaks.
4040	PLANT INSPECTION <i>(n)</i> Includes inspection of poles, towers, overhead line and underground infrastructure and other plant for attachments and condition.

Work Group 5000 – TRANSPORT & LIFTING SERVICES

CLASS	NAME & DESCRIPTION
5010	GENERAL LIFTING & MOVING SERVICES Covers the provision of cranes and lifts with drivers and associated labourers for safely lifting and transporting company equipment and materials up to 100 tons.
5020	GENERAL TRUCKING SERVICE Covers the provision of trucks with or without drivers and associated labourers and equipment for safely lifting and transporting company equipment and materials up to 15 tons.
5030	PERSONNEL CARRIERS & TAXIS Covers the transporting of personnel by cars and buses in and around Trinidad and Tobago as and when required.

Work Group 6000 – CLEANING & CLEARING SERVICES

CLASS	NAME & DESCRIPTION
6010	GARBAGE COLLECTION & DISPOSAL Covers the collection and disposal of all discarded material and garden refuse by the use of garbage disposal trucks / units. Unskilled manual work.
6020	GRASS & WEED CONTROL Covers cutting and clearing of weed, grass, bush, hedges, migrant tree etc. using manual or mechanical means. Work covers locations in or around substations, buildings, structures, roadways, kiosks, etc. and excludes clearing of overhead electrical lines. This also covers chemical and biological treatment for control of weeds.
6030	JANITORIAL SERVICES Includes the cleaning of offices, clubs, medical facilities, canteens, bungalows and guesthouses. Work involves sweeping, dusting, mopping, vacuuming, cob-webbing, scrubbing, polishing, washing and collecting office refuse for disposal.
6040	OVERHEAD LINE CLEARING SERVICES Covers cutting trees and underbrush to maintain a specified corridor and footpath along overhead lines up to 132kV. It includes transporting cuttings away from site.
6050	PEST CONTROL Covers the treatment of all buildings, installations and their immediate surrounds, including the furnishings therein to eliminate all insects and other pests. This involves the use of environmentally acceptable chemicals, which may be sprayed, injected, fumigated or baited.
6060	SANITARY CLEANING Covers the work of cleaning choked sewer systems, underground waste lines and roadside drains.
6070	HAZARDOUS WASTE HANDLING AND DISPOSAL (n) Covers hazardous chemicals including, but not limited to oil, silica gel, fluorescent tubes, lead acid batteries and e-waste.

Work Group 7000 – MISCELLANEOUS SERVICES

CLASS	NAME & DESCRIPTION
7010	OFFICE EQUIPMENT SERVICES Covers the supply, installation, repair and maintenance of office equipment e.g. word processors, printing and copying machines, calculators, typewriters, copiers, duplicators, fax machines, etc.
7020	SAFETY, FIRE & SECURITY PROTECTION Covers the procurement, installation and maintenance of safety, fire and security systems including supply of replacement parts.
7030	DECORATING SERVICES Includes decorating and design services for corporate events both internal and external.
7031	AUDIO VISUAL SERVICES Includes audio and visual services for corporate events.
7032	PHOTOGRAPHY Provision of photography services for internal and external corporate events.
7033	GENERAL EVENTS SUPPLIES Includes the rental, installation, dismantling and supply of infrastructure and related accessories for corporate events including, but not limited to: (a) Tents (b) Chairs (c) Tables (d) Platforms (e) Stage (f) Porter Potty (g) Porter Coolers (h) Linens (i) Ice (<i>n</i>) (j) Potted Plants (<i>n</i>)
7034	LARGE SCALE PRINTING Includes the printing of banners and signage.

Work Group 7000 – MISCELLANEOUS SERVICES

CLASS	NAME & DESCRIPTION
7035	OFFSET / DIGITAL PRINTING Includes the printing of:- <ul style="list-style-type: none">(a) Brochures(b) Calendars(c) Programmes(d) Invitations(e) Booklets and other printed materials
7037	ENTERTAINMENT - CHILDREN To provide entertainment services for children events at company's sports and family day Functions.
7038	AWARDS AND TROPHIES Includes the supply of standard or customised awards, trophies, medals and similar items for corporate and sporting events.
7039	PUBLIC ADDRESS SYSTEMS - MOBILE Covers public announcements via mobile public address systems.
7040	COURIER AND FREIGHT SERVICES <i>(n)</i> Covers Courier and Freight services for the import and export of packages and goods.

Work Group 8000 – CONSULTANCY & PROFESSIONAL SERVICES

CLASS	NAME & DESCRIPTION
8010	CONSULTANCY The provision of expert advice to the Commission including, but not limited to- <ol style="list-style-type: none">a. Engineering Servicesb. Recruitmentc. Financial Servicesd. Legal
8020	DESIGN OF SYSTEMS Including but not limited to Civil, Electrical and Network (ICT) Systems.
8030	TRAINING Provision of professional training and development programmes and courses aligned to the organisational activity and aimed at bettering the job performance of individuals and groups in organisational settings.

Work Group 9000 – PUBLIC LIGHTING (n)

CLASS	NAME & DESCRIPTION
9010	OVERHEAD STREETLIGHT INSTALLATION & MAINTENANCE Includes installation and maintenance of luminaries, brackets, poles, cross arms, insulators, conductors and fittings, guys, fuse cut-outs, pole mounted transformers.
9020	UNDERGROUND STREETLIGHT INSTALLATION & MAINTENANCE Covers trench excavations, laying of ducts, pull boxes, plinths, man-hole, cable tray, conduit works, flange based columns, poles, pad mounted transformer, conductors and fittings, including jointing, terminating, installation, removal and maintenance, inclusive of luminaries, URD Triplex and power cable.
9030	RECREATION GROUND / HOUSING DEVELOPMENTS Covers trench excavations, laying of ducts, pull boxes, plinths, man-hole, cable tray, conduit works, installation of floodlights and associated wiring, electrical panels, meter base, metering cabinets, private pole and ancillary equipment, flange based columns, poles, pad mounted transformer, conductors and fittings, including jointing, terminating, installation, removal and maintenance, inclusive of luminaries, URD Triplex and power cable. Also covers the construction of switch-house and kiosk, reinforced concrete, structural steelwork, general fabrication and welding with the provision of building accessories and appurtenances including electrical systems.

Work Group 10000 – SURVEYING (n)

CLASS	NAME & DESCRIPTION
10010	CADASTRAL SURVEYING Determining the form, contour, position, area, shape, height, depth or nature of any part of the earth or of any natural or artificial features, and the position, length and direction of bounding lines on, below or above any part of the earth for the purposes of making legal plans defining boundaries and registering land or documents with appropriate authorities.
10020	ENGINEERING SURVEYING The process by which proposed works are established and controlled on the ground in such a way that the design is executed accurately in the context of the particular works themselves and also in the context of other adjacent works and infrastructure.
10030	HYDROGRAPHIC SURVEYING Measuring or depicting those parameters that are necessary to describe the precise nature and configuration of the sea-bed and any natural or artificial features located on it and their geographical relationship to the landmass: and determining and measuring the characteristics and dynamics of the sea.
10040	TOPOGRAPHIC SURVEYING Determining the form, contour, position, area, shape, height, depth or nature of any part of the earth including natural and artificial features measured so that it may be stored and recreated at any scale on a material drawing or in a digital file.

Work Group 11000 – LAND MANAGEMENT (n)

CLASS	NAME & DESCRIPTION
11010	GEOGRAPHIC INFORMATION SYSTEMS (GIS) / GEOSPATIAL SERVICES Services related to the capture, storage, manipulation, analysis, management and presentation of geographic/geospatial data.
11020	QUANTITY SURVEYING Determining, evaluating and managing costs relating to building, construction and civil engineering projects.
11030	VALUATION SURVEYING Determining the value of land and buildings and all types of property.