



List of Goods and Services

Lot No.1

- **Project Name:** Construction of total 10.45km of 69 kV Line across the Demerara and Berbice Rivers, respectively.
- **Project Locations:**
 1. Submarine section of 69 kV Transmission Line (LS6): Vreed-en-Hoop on the West Bank of Demerara River to Kingston, Georgetown.
 2. Section of 69kV Transmission Line (L21): Rossignol on the West Bank of the Berbice River to Canefield on the East Bank of Canje River.
- **Project Descriptions - in order as appear in the above:**
 1. LS6: Current 2.4 km of submarine cable to be replaced and installed via method of Horizontal Directional Drilling.
 2. Section of L21: A new section of 69 kV transmission line is to be constructed, which will comprise a combination of submarine and overhead lines. The proposed route for this new section of transmission line will be 6.95 km.
- **Brief Scope of Work: Complete all necessary Engineering surveys and designs.**
 1. **LS6:**
 1. Establish cable path using HDD, at appropriate depth into the Demerara River's bed, between Vreed-en-Hoop and Kingston Substations.
 2. Supply and install approximately 3km of 500 mm² XLPE submarine type power cable, with 48 core Fiber Optic Cable.
 3. Replace existing AAAC Canton overhead conductor with ACCC Rovinj.
 2. **Section of L21:**
 1. Establish cable path across the Berbice and Canje Rivers using HDD, at appropriate depth Riverbeds.
 2. Supply and install approximately 2 km of 240 mm² XLPE submarine type power cable, with 48 core Fiber Optic Cable, across the Berbice River.
 3. Supply and install approximately 0.5 km of 240 mm² XLPE submarine type power cable, with 48 core Fiber Optic Cable, across the Canje River.
 4. Supply and install a total of 4.78 km of overhead transmission line using AAAC Canton conductor.

Lot No. 2

Project Name: Construction of total 193km/28x 13.8 kV feeders and supply of distribution reinforcement equipment.

Lot No. 2(a)

- **Project Location:** West Coast and West Bank of Demerara
- **Project Description:** A total of 10 primary distribution feeders are required to be designed and constructed in accordance with GPL design standards and using appropriate line hardware materials.
- **Brief Scope of Work:**
 1. Construction of Express Feeder - Vreed-En-Hoop (Vreed-en-Hoop to Hague) - totalling approximately 10 km.
 2. Construction of eight (8) feeders totalling approximately 40 km for the Wales Residential/Commercial Substation.
 3. Extension of F3 Feeder - Edinburg (Tuschen to Parika) – totalling approximately 9 km.

Lot No. 2(b)

- **Project Location:** East Bank of Demerara
- **Project Description:** A total of 11 primary distribution feeders are required to be designed and constructed in accordance with GPL design standards and using appropriate line hardware materials.
- **Brief Scope of Work:**
 1. Construction of new feeder from Garden of Eden Substation to Soesdyke Junction - totalling approximately 11 km.
 2. Construction of eight (8) feeders totalling approximately 40 km from the Goedverwagting Substation.
 3. Construction of Golden Grove Feeders (Golden Grove to Herstelling) totalling approximately 10 km.
 4. Extension of New Georgetown Feeders (Rome to Providence) totalling approximately 3 km.

Lot No. 2(c)

- **Project Location:** East Coast of Berbice
- **Project Description:** A total of 3 primary distribution feeders are required to be designed and constructed in accordance with GPL design standards and using appropriate line hardware materials.
- **Brief Scope of Work:**

1. Upgrade of Canefield F3 (Canefield Auchlyne) - totalling of approximately 28 km.
2. Construction of Canefield Feeders (Canefield to Seawell) - totalling approximately 16 km.
3. Construction of Feeder at No.53 (#53 to Joppa) - totalling approximately 8 km.

Lot No. 2(d)

- **Project Location:** Georgetown and East Coast Demerara
- **Project Description:** A total of 4 primary distribution feeders are required to be designed and constructed in accordance with GPL design standards and using appropriate line hardware materials.
- **Brief Scope of Work:**
 1. Construction of Express Feeders - Sophia (Sophia to Industry) - totalling 5 km
 2. Construction of Express Feeders - Good Hope (Good Hope to Industry) - totalling approximately 7 km
 3. Construction of Express Feeders - Kingston (Kingston to Thomas Lands) - totalling approximately 3 km
 4. Construction of Columbia Feeders (Columbia to Victoria) - totalling approximately 6 km.

Lot No. 2(e)

- **Project Location:** GPL Stores in Sophia, Georgetown.
- **Project Description:** Supply of 15kV Class Pole-mounted Automatic Power Factor Correction Capacitor Banks, Auto-Reclosers, Fault Current indicators and Sectionalizers.
- **Brief Scope of Work:**
 - A. Supply of Automatic Power Factor Correction Capacitor banks of varying sizes as listed below:
 1. 100 kVAr - a total of 5 banks
 2. 150 kVAr - a total of 13 banks
 3. 300 kVAr - a total of 14 banks
 4. 450 kVAr - a total of 13 banks
 5. 600 kVAr - a total of 5 banks
 6. 1050 kVAr - a total of 5 banks
 - B. Supply of 120 pole mounted Auto-Reclosers.
 - C. Supply of 400 pole mounted Sectionalizers.

D. Supply of 300 (each set to have 3 units) Fault Current Indicators.

E. Supply of 10 pole mounted Automatic Voltage Regulators.

Lot No. 2(f)

- **Project Location:** Reg. Nos. 2,3,4,5,6 & 7.
- **Project Description:** Extension of existing primary and secondary distribution feeders to supply electricity to unserved areas.
- **Brief Scope of Work:**
 1. Complete survey of identified unserved areas.
 2. Prepare design for feeder extensions.
 3. Supply and install all line hardware materials to complete works per project description.
 4. Designs and technical specifications are to be in accordance with GPL standards.

Lot No.3

- **Project Name:** Supply of 2x 35 MVA, 69/13.8 kV Mobile Substations.
- **Project Locations:** GPL Stores in Sophia, Georgetown.
Project Descriptions: Supply of complete 2x 35 MVA, 69/13.8 kV Mobile Substations, mounted on appropriately specified trailers and fully equipped with all relevant accessories and ancillary equipment.

Lot No.4

- **Project Name:** Supply of Specialized Hotline maintenance T&D tools and Requisite Training and Certification.
- **Project Locations:** GPL Stores in Sophia, Georgetown.
- **Project Descriptions:** Supply of Specialized hotline maintenance T&D tool kits and relevant Trailer and Hiab trucks specifically designed for hotline maintenance works.
- **Brief Scope of Work:**
 1. Supply Specialized hotline maintenance T&D tools and Trailer (to carry tools and safety gears).
 2. Provide requisite hotline maintenance training and certification.
 3. Supply 4x Hiab Trucks, applicable to conducting hotline maintenance works.

Lot No.5

- **Project Name:** Construction of total 42 km/5x 69 kV Lines, four (4) 69/13.8 kV Substations and 17 feeders~6km per feeder.

- **Project Locations:**

Substation Locations:

1. Kuru Kuru, Linden-Soesdyke Highway.
2. Williamsburg, East Corentyne Berbice.
3. Parika, Hydronie, East Bank Essequibo.

Transmission Line Rights-of-Way:

1. Between Garden of Eden, East Bank Demerara and Kuru Kuru, Linden-Soesdyke Highway.
2. Williamsburg, East Corentyne Berbice.
4. Between Edinburgh, West Coast Demerara and Parika, Hydronie, East Bank Essequibo.

- **Project Descriptions:**

1. Perform all relevant engineering surveys, designs, facility, and system studies.
2. Complete all relevant civil, mechanical, and electrical scope of works.
3. Construction of 69/13.8 kV substations and 69 kV overhead transmission lines in accordance with GPL's technical specifications.
4. 69kV side to be breaker-and-a-half configuration.
5. 13.8 kV side to have two (2) separate busses, linked via a bus-tie, which shall be supervised by Main-Transfer-Main scheme.
6. Each 13.8 kV bus to be equipped with separate zig-zag grounding transformer and feeder cubicles.
7. Each cubicle to be equipped with relevant feeder measuring and protection relay devices.
8. Substations are to be equipped with all relevant ancillary equipment and to be integrated with the Guyana National Control Centre.
9. Transmission lines are to be erected using, galvanised self-supporting monopole structures.
10. Transmissions lines are to be equipped with OPGW of 48 cores.

- **Brief Scope of Work:**

1. Kuru Kururu Substation

- Construction of a New 69/13.8 kV substations with all necessary accessories and ancillary equipment at both voltage levels.
- Construction of 15.7 km of 69 kV double circuit transmission overhead line to allow for interconnection with Garden of Eden Substation.
- Construction of three (3) 13.8 kV primary distribution feeders totaling approximately 21 km.

2. Williamsburgh Substation

- Construction of a New 69/13.8 kV substation with all necessary accessories and ancillary equipment at both voltage levels.
- Split section of existing 69 kV transmission line that connects Canfield substation with No.53 substation at Williamsburg.
- Construction of approximately 2x0.5 km of 69 kV transmission lines to allow for interconnection of substation.
- Construction of four (4) 13.8 kV primary distribution feeders totaling approximately 28 km.

3. Hydronie Substation

- Construction of a New 69/13.8 kV substation with all necessary accessories and ancillary equipment at both voltage levels.
- Construction of approximately 16 km of 69 kV transmission line from Edinburgh to Hydronie.
- Construction of four (4) 13.8 kV primary distribution feeders totaling approximately 20km.

4. Princess Street/Homestretch Avenue Substation

- Construction of a New 69/13.8 kV GIS substation with all necessary accessories and ancillary equipment at both voltage levels.
- Construction of approximately 9.17 km of 69 kV transmission lines to allow for interconnection from both the Kingston and New Georgetown Substations.
- Construction of six (6) 13.8 kV primary distribution feeders totaling approximately 24 km.

Lot No.6

- **Project Name:** Supply and Installation of 30MW/15MWh Battery Energy Storage Systems.
- **Project Locations:** Sophia, Georgetown.
- **Project Descriptions:** 30MW/15MWh BESS is to be integrated with the grid at 69kV at Sophia and the Guyana National Control Centre. The BESS is to provide the grid with ancillary supporting services for frequency and voltage regulation, assist in mitigating N-G-1 contingent events, and demand side management relative to the dispatched generators.
- **Brief Scope of Work:**
 1. Perform all relevant engineering surveys, designs, facility, and system studies.
 2. Complete all relevant civil, mechanical, and electrical scope of works.
 3. Install the 30MW/15MWh BESS.
 4. Integrate the monitoring and supervision systems of the BESS with Guyana National Control Centre.
 5. Install a 15 MW/MWh BESS at New Sophia. This will require the existing substation to be expanded to interconnect this BESS.

Lot No.7

- **Project Name:** Supply and Installation of Advanced Metering Infrastructure (AMI), 20,000 AMI Meters and Training.
- **Project Locations:** Demerara Berbice Interconnected System.
- **Project Descriptions:** Supply and installation of relevant Advanced Metering Infrastructure equipment and systems, and AMI compatible energy meters. The Advanced Metering Infrastructure and AMI compatible energy meters are to be made ready for seamless integration with the Distribution Management System of the Guyana National Control Centre.
- **Brief Scope of Work:**
 1. Supply and installation of relevant Advanced Metering Infrastructure equipment and systems.
 2. Supply of 20,000 AMI compatible energy meters.

3. Provide relevant training to staff within the Metering Department, GPL.
4. Provide all relevant troubleshooting and diagnostic kits.

Lot No.8

- **Project Name:** Upgrade and Expansion of two (2) 69/13.8 kV Substations.
- **Project Locations:** New Georgetown and Garden of Eden.
- **Project Descriptions:**

New Georgetown

To dismantle and remove identified substation equipment and to replace with equipment of higher capacity – outdoor and indoor. Relevant civil and electrical works are required to be completed.

Garden of Eden Substation

To dismantle and remove identified substation equipment and to replace with modern substation equipment – outdoor and indoor. Relevant civil and electrical works are required to be completed.

- **Brief Scope of Work:**

1. New Georgetown Substation

- Replacement of existing transformers with 2 new 25 MVA, 69/13.8kV ONAN transformers.
- Replacement of 13.8 kV switchgear with cubicles of higher capacity, and relevant measuring and relay protective devices.
- Replacement of switchgear incomer cables with cables of higher ampacity.

2. Garden of Eden Substation

- Replacement of 13.8 kV switchgear with cubicles of higher capacity and relevant measuring and relay protective devices.
- Replacement of switchgear incomer cables with cables of higher ampacity.
- Replacement of 69kV outdoor, AIS switchgear.
- Replacement of substation supervision, measuring and protection equipment.
- Integrate complete substation with Guyana National Control Centre.

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