
WEEKLY REPORT No. 005
August 24th to 28th, 2020

PROJECTS:

PO No. TPS 20-006 TERMOPUERTOSOLO 2 - BUENAVENTURA, TRANSMISSION LINE 115kV AND POWER ELECTRICAL SUBSTATION SE TABOR

PO No. TS1 20-009 TERMOSOLO 1 - PALMIRA, TRANSMISSION LINE 230kV AND POWER ELECTRICAL SUBSTATION SE SAN MARCOS

1. PURPOSE

The purpose of this document is to report to Client Upper Management the current weekly progress related with the projects:

- TERMOSOLO 2 BUENAVENTURA, TRANSMISSION LINE 115kV AND POWER ELECTRICAL SUBSTATION SE TABOR.
- TERMOSOLO 1 PALMIRA, TRANSMISSION LINE 230kV AND POWER ELECTRICAL SUBSTATION SE SAN MARCOS.

2. ABBREVIATIONS

- TERMOPUERTO SOLO 2 – TS2
- POWER ELECTRICAL SUBSTATION TS2 – SE2
- POWER ELECTRICAL SUBSTATION TABOR 115kV, CELSIA EPSA TO RECEIVE TL2 – SE TABOR
- TERMO SOLO 1 – TS1
- POWER ELECTRICAL SUBSTATION TS1 – SE1
- POWER ELECTRICAL SUBSTATION SAN MARCOS 230kV, ISA TO RECEIVE TL1 – SE SAN MARCOS
- TRANSMISSION LINE 1 FROM TS1 TO SE SAN MARCOS – TL1
- TRANSMISSION LINE 2 FROM TS2 TO SE TABOR – TL2
- MOTA-ENGIL – ME
- SCOPE OF WORKS – SoW
- RFP PACKAGE No. CC03-AA-SOH-RFP-107-8003. POWER ELECTRICAL FOR 115 kV TRANSMISSION LINES AND ELECTRICAL SUBSTATIONS ENGINEERING, PROCUREMENT, CONSTRUCTION, INSTALLATION, COMMISSIONING, AND START-UP (EPCIC/S) SERVICES – RFP EPC 115kV
- RFP PACKAGE POWER ELECTRICAL FOR 230 kV TRANSMISSION LINES AND ELECTRICAL SUBSTATIONS ENGINEERING, PROCUREMENT, CONSTRUCTION, INSTALLATION, COMMISSIONING, AND START-UP (EPCIC/S) SERVICES – RFP EPC 230kV

3. POINTS OF ATTENTION

3.1 TS2 – LT2 – SE2 – SE TABOR – BUENAVENTURA

- RFP EPC 115kV was submitted to ME on August 20th. The scope of works clarification meeting was performed on August 21st.
- ME will be focused in the proposal for the power electrical capacity of 85MW.
- ME will confirm if they can provide an alternative bid for 106MW without delaying the time schedule for both (the bid and the project execution).

3.2 TS1 – LT1 – SE1 – SE SAN MARCOS – YUMBO

- TL1 has two alternatives (poles and towers) for construction supports. The alternatives will be discussed with SeaOne in order to decide what is going to be included in the RFP EPC 230kV. The number of supports is the same whether the transmission line is built in poles or towers. (25 units).
- Technical information regarding storage and truck loading facilities, have not been received from ME. The information is required for the environmental studies document.
- ME is pending to submit the proposal for the storage and truck loading facilities.

4. CURRENT STATUS

4.1 WARTSILA EPC POWER PLANT

4.1.1 TS-2.

The following points were clarified with Wartsila on August 17th:

- Wartsila will prepare a document with requirements for the power platform and substructure requirements for the reception of the area.
- It was confirmed by Wartsila that in the 115kV power electrical substation yard side the portico, the bar, the insulators and the fittings are included to connect to the terminal pole 1 of the 115kV Transmission Line from TermoPuertoSolo to El Tabor.
- Wartsila confirmed water quality requirements but it is missing water flow and pressure at the interconnection point of the treated water.
- Wartsila considered LV supply during construction. Some pre-commissioning activities can be done with either black start unit or construction power connection to LV switchgear. For Power Plant commissioning and testing back feed from grid is required.
- SUMED recommends to confirm to Wartsila that laydown area should be included in their proposal.

4.1.2 TS-1.

On August 14th, the following points were submitted to Wartsila for clarification:

- Water quality requirements in the intake of the water treatment plant, included in the SoW.
- Confirm the SoW in substructures.

No answer has been received during this week.

4.2 O&M POWER PLANT CONTRACT

- It is pending to request more information about O&M strategy with SeaOne.

4.3 CQS - EASEMENT NEGOTIATION

4.3.1 TS-2.

- TL2. Poles 1 to 7. No comments under control.
- TL2. Pole 6 to 7 permit over the El Piñal Bridge and Calle 6 to be obtained with INVIAS.
- TL2. Pole 7 underground to SE Tabor. Easement permit for underground route to be obtained with INVIAS.
- TL2 inside El Tabor Power Electrical Substation permit and easement is included in the interconnection agreement.

4.3.2 TS-1.

- For the TL1 preliminary route, it was reduced from +-20 to +-16 properties with 11 properties owners.
- List of reference price will be completed by the end of August, 2020.
- Appraisal of the easement and towers/poles sites will be performed during September, 2020 by a certified appraiser from a Lonja.
- Negotiations will start once the appraisal of the easements have been finish for each property. This activity will start on October 1st, 2020.
- The negotiation SoW has not been assigned in a purchase order to CQS.

4.4 PERMITTING

- Permit action tracking document developed by team and weekly populated in order to identify all permits for the project.
- Permits weekly meeting is scheduled every Tuesday afternoon.

4.5 GERS - TRANSMISSION LINE (TL) AND POWER ELECTRICAL SUBSTATIONS (SE)

4.5.1 SE2 + LT2 + SE TABOR.

- Pole 7 - SE Tabor. Pole 7 to SE Tabor, underground crossing and outcrop in SE Tabor bay engineering designs pending to be received.
- Engineering information for the others sections of TL2 is adequate for the environmental studies and the RFP EPC 115kV.

4.5.2 SE1 + LT1 + SE SAN MARCOS 230kV.

- SE1 bay line 230kV. Wartsila package does not include the connection from the bay bar at the portico to the first support of the transmission line.
- TL1 engineering progress. Lidar survey land field works are ongoing and will be completed on August 24th. The time for the data processing will take 2 weeks.
- SE San Marcos. Engineering progress 0%.

- Soil studies per TL1 support will be performed in two stages, the Stage 1 with at least 10 supports and Stage 2 with the remaining ones. This activity is required to start as soon as possible.

4.6 ISA INTERCOLOMBIA INTERCONNECTION AGREEMENT

- SUMED is pending to review and submit comments to Sea One about the TermoSolo 1 Interconnection agreement.

4.7 RFP EPC 115kV (SE2 + LT2 + SE TABOR)

- In the RFP EPC 115kV process with ME, it is required the support of Sea One and current consultants to answer the questions and perform clarifications.
- The strategy is to answer questions and make clarifications ASAP.
- ME proposal is expected to be received around Sep 11th.

4.8 RFP EPC 230kV (SE1 + LT1 + SE SAN MARCOS)

- SUMED will work in the RFP document.
- GERS needs definition if the TL1 will be constructed in poles or in towers. This will be discussed with Sea One considering advantages and disadvantages of each option.
- GERS is working in some preliminary technical information to be included in this RFP, as follows:
 - LT1.
 - Technical specifications for design, construction, electromechanical assembly and tests.
 - Loads three for towers and poles.
 - Technical specification for insulators, fittings, phase conductor cable and guard cable.
 - Towers and poles shapes.
 - Foundations preliminary designs.
 - SE SAN MARCOS
 - Technical specifications for design, construction, electromechanical assembly and tests.
 - Major equipment technical specifications.

4.9 MOTA-ENGIL (ME) TS1 SUPPORT INFRASTRUCTURE

- TS1 storage and truck loading facilities technical answers were received on August 21st. This information to be reviewed.

4.10 AQUA Y TERRA / AYT – ENVIRONMENTAL LICENSING

4.10.1 TS-2

- AYT submitted on July, the project description and construction methods document to be included in the environmental studies. It is pending to give AYT comments of this document. This point will be closed next week.

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- For the environmental license of the last 300m of TL2, technical documents are in progress and are were not completed during this week.
 - The EIA for the not licensed section of TL2 will be submitted to the environmental authority on September 24th approximately.

4.10.2 TS-1

- TS1 storage and truck loading facilities technical answers were forwarded to AyT on August 21st.