Case Study: Conductor Replacement on a 132kV Tower Overview of Centaur Work

PROJECT OVERVIEW

- Client: DEWA
- **Project Initiation:** Received the RFP from the client (on the list of approved EPC contractors)
- Tender Submission: Multiple site visits and pre-tender clarification meetings. Post tender submission, additional clarification meetings held (extremely competitive)
- **Tender Award:** Due to direct work experience, execution capability & efficiency, track record and relationship with the client, Centaur won the Tender
- Execution Timeframe: []

KEY FINANCIAL METRICS

- Profit: Approx. 60% profit
- Payment terms: 30 days

PROJECT PLANNING DETAILS

- Project overview:
 - Supply of new ACSR Scoter conductor
- Replacement of the damaged conductor span in the 132kV OHL NAJM-CBCH circuit between Towers #22 and #35
- Comply with all DEWA, RTA & DM⁽¹⁾ safety/HSE requirements and other prevailing rules & regulations
- Installation of scaffolding at road crossing and associated traffic diversions; associated design & engineering activities
- Project specialty:
- Working at high elevations only skilled & competent work force with prior experience was deployed
- Coordinate with DEWA to cut the power supply while executing the project
- Coordinate with RTA & Dubai police to arrange traffic diversions; DEWA support available if required
- Project hurdles:
 - Project executed near a live circuit the conductor for the NAJM-CBCH circuit (132kV) was replaced while a nearby circuit (DSTA-INDS) was live
 - Working over major road crossings the existing 132kV OHL crosses two main roads (Umm Suqeim and Marabea)
 - o Scaffolding difficult to erect a scaffold at the center median because of the important junctures and the insufficient space
 - o Improvised long span scaffold structures (height: 20m & road crossing: 80m) were erected on both roads
 - > This type of scaffold structures was used for the first time
 - RTA permission for Net Passing⁽²⁾ of the scaffolding structures difficult to obtain RTA approval to completely close the road for 10 minutes for rope passing for the net installation
 - > Close coordination with RTA & Dubai Police allowed for project completion







Notes: 1. DM – Dubai Municipality 2. Net Passing – what exactly is this?