"BEIT HANOUN EMERGENCY WATER SUPPLY PROJECT"

"Lot # 5: Electricity Connection for Storage Tanks St.25 & Khadeja Storage tank"

BILL OF QUANTITY
## BILL NO. (1)
### ELECTRICITY WORKS

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Qty.</th>
<th>Price (US$)</th>
<th>Total (US$)</th>
</tr>
</thead>
</table>

### General Notes:
- All works and installations listed here below should be carried out, tested and commissioned by specialized responsible contractor, all in accordance with specifications and the instruction of the Supervisor Engineer and comply with GEDCO approval.
- The contractor should provide for all discrepancies and arrange for all electrical materials, fittings and accessories that may require completing the installations properly, and any necessary works to install the equipments properly as specified, and directed by the Supervisor Engineer.

Supply, install, connect and commision 22 KV high voltage network, from the main source at the main street (Al-Abraj St.) to the storage tank site ST-25 and for Khadija storage tank as shown on the drawings, the item includes all necessary works and installations as following:

1 **H.V steel poles:**
   - H.V lattice steel pole (70/80), 12m long.
   - Steel base for H.V poles including the (1.7*1.7*2)m3 concrete foundations B250.
   - All needed tension, suspension, protection, and anti-Climbing hot galvanized steel arms.
   - Steel bolts.
   - All required MV insulators with 22kv pins and tension units.
   - Complete tension units & low tension shackle insulator units.
   - Clamps and Compression lugs.

2 Ditto, but H.V lattice steel pole (80/90), 12m long.
   - Note: Dimension of concrete foundation is (1.95*1.95*2)m3.

3 Ditto, but H.V Channel steel pole U14, 12m long.
   - Note: Dimension of concrete foundation is (1.4*1.4*2)m3

4 **Overhead Transformer:**
   - Overhead Transformer 400KVA low losses pole mounted distribution transformer including all needed arms as (K61,K1743,K183,4K188,K…), clamps and M.V glass fuse 25A.
   - Steel bolts.
   - Fuse holder.
   - 36KV isolating switch with built in ARC interrupter (Complete) including master key lock, and its arm.
   - Single core L.V cables 1*120 CU XLPE/PVC 0.6/1KV.
   - L.V distribution piller including manual L.V disconnector with fuse base 630A and L.V HRC fuses 250A.
   - Clamps and Compression lugs.
   - Cu Cables for Connection between Tr & LVP, Tr & MV wires
   - M.V insulators (800mm C.D.) and all needed pin for insulators.
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| 5    | Ditto as item 4, but on existing pole and in addition to the following:  
- Dismantling the existing MV Disconnector & transformer with all accessories from the existing L.S.P Pole and reinstalling them on the South side of the same pole, with all needed new arms as (K1558,K167,K160/3,K183,4K188,K…), All needed Cu clamps and Cu wires for earthing.  
- All needed arms for new transformer as (K1743,K1562,…).  
- The new transformer will be on the North side of the pole. | Unit | 1 | | |
| 6    | Wires:  
- ACSR 50/8 mm² | M | 900 | |
| 7    | Earthing System:  
- 3 Earth rods 15mm²  
- Earth rod joints and clamps 70mm²  
- Wires PN CU 70 mm² PVC Yellow/Green.  
- All precaution to have the resistance < 5Ω | Unit | 3 | | |

**TOTAL BILL (1)**

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**GENERAL SUMMARY**

<table>
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<th>DESCRIPTION</th>
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<th>TOTAL AMOUNT (US$)</th>
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<tr>
<td><strong>ELECTRICITY WORKS</strong></td>
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<td></td>
</tr>
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<td><strong>TOTAL</strong></td>
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Price in words:  
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Contractor’s Name: …………………………………………………………………………………………………………………………………………………………………………………………………………

Contractor Signature & Stamp: …………………………………………………………………………………………………………………………………………………………………………………………………………

Date: …………………………………………………………………………………………………………………………………………………………………………………………………………