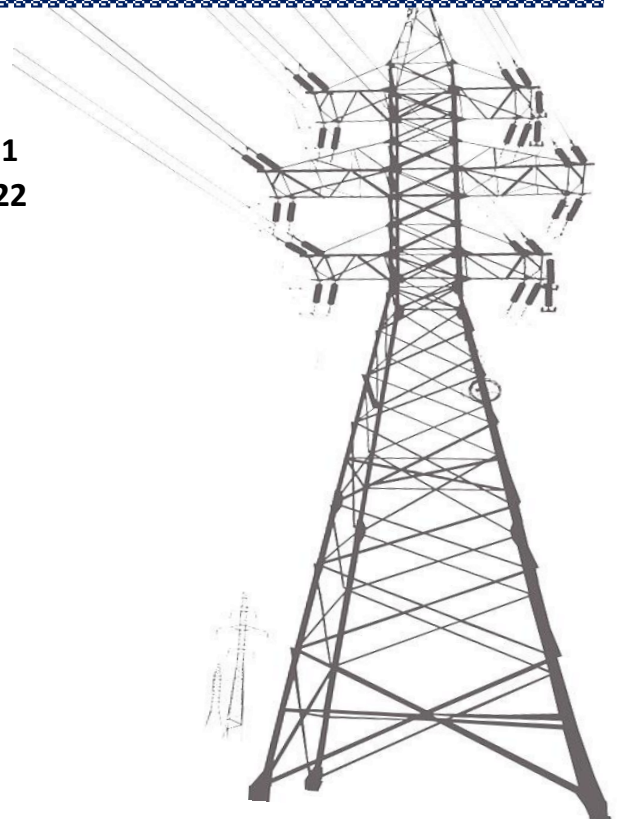


Proposal
Supply, Installation,
Testing & Commissioning
36.5 MW (5 x used Wartsila 18V32LNE)
HFO Power Plant

Proposal No.: PGP2206021
Date: 10th Jun 2022



Date : 10-06-2022
Our Ref. : PGP2206021

Re: Proposal for 36.5MW (5 x used Wartsila 18V32LNE) HFO Power Plant
- Supply, Installation, Testing & Commissioning

Thank you for your enquiry of 30MW HFO power plant to be erected in OM Al Qasr port in Southern Iraq. We are gladly to propose the below for your consideration.

1) PROPOSAL SERVICES SCOPE

- 1.1 Supply of 5 units used Wartsila 18V32LNE generating sets coupled with 11 KV / 50 Hz generator and related used auxiliary equipment / electrical switchboard and control panels
- 1.2 Installation & Erection of all 5 units Wartsila / generator and engine platform, exhaust gas stacks, air intake manifolds and air intake filtration, LT/HT cooling circuit and air cooled radiators, HFO / LO separators, Fuel oil booster units, air compressors / air receiver unit, exhaust gas boiler and condensers and related circulation pumps and etc.
- 1.3 Testing & Commissioning for the equipment only supplied by us.

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2) **SCOPE OF SUPPLY**

2.1 **Supply of 5 units used Wartsila 18V32LNE HFO Generating Sets and Related Auxiliary Equipment**

2.1.1 **5 units used WARTSILA 18V32LNE HFO Generating Sets**

[Condition : As is, where is]

Engine manufacturer	:	Wartsila, Finland
Engine Type	:	18V32LNE
Engine Output	:	7,500 kW
Year of make	:	1998
Alternator Type	:	ABB - HSG900XU8
Power Rating	:	7,300 kW
Voltage / Frequency	:	11KV / 50Hz
Speed	:	750 rpm
Year of make	:	1998

2.1.2 **1 Lot used / new Related Auxiliary Equipment for 5 units Wartsila 18V32LNE HFO Power Plant**

Auxiliary equipment consisting of:

2.1.2.1 **(used) Control Panels & Switchgear Panels**

- Electrical MV / LV Switchboard / NER switchboard
- Control Panel for Engine / Generator / Master control and DC supply

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2.1.2.2 **(used) Lube Oil System**

- Lube Oil Cooler
- Lube Oil Separator
- Lube Oil Pump

2.1.2.3 **(used) HFO Separator**

2.1.2.4 **(used) Air Intake Filter & Silencer**

2.1.2.5 **(used) Air Compressor and Starting System**

2.1.2.6 **(new) Air Cooled Radiator**

2.1.2.7 **(new) Heat Recovery Boiler**

2.2 Installation & Erection

To install & erect of 5 units used Wartsila 18V32LNE HFO generating sets and related auxiliary equipment as above stated in item 2.1.

2.2.1 Fabrication of all pipes, instruments between engines and related auxiliaries

2.2.2 Laying / termination of all power cables and control cables between the main engines / generators to auxiliary's panels and LV / MV / control switchboards

2.2.3 Flushing of all pipes before T&C

2.2.4 Testing of all auxiliaries, electrical switchboards function and termination before T&C

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2.3 Testing & Commissioning

- 2.3.1 To provide a team of engineers (engineers and supervisor in a total of 5 persons) to supervise the E&M installation of 5 units Wartsila 18V32LNE generating sets, auxiliary equipment and MV / LV / Control Electrical Switchboards.
- 2.3.2 To provide all records, manuals, after T&C.
- 2.3.3 To provide training for your operation team during installation/T&C.

Remarks:

A) Owner should provide below services and equipment at power plant site:-

- ◆ Temporary Office at site with general facilities
- ◆ Water supply / electricity supply at site
- ◆ HFO / Diesel oil / lube oil for flushing / T&C
- ◆ Visas for our team
- ◆ Assistance for applying for Certificate / Permit for environmental / electrical / local authorities and etc.

B) Excludes the scope of below:-

- ◆ All civil works, pilings, concrete foundation, road, pavement, fencing, drainages, septic tanks and etc.
- ◆ Steel structure power house with overhead crane, ventilation, and lighting
- ◆ Storage tanks for HFO, diesel and lube oil tanks for 14 days operation.
- ◆ Local transportation of all goods and cargoes at destination country
- ◆ All taxes (import permit, VAT, customs duty, withholding tax etc.) applied in destination country

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3) **Terms & Conditions**

3.1 **Price :**

Total price US\$/net, CIF Basra port, Iraq.

3.2 **Payment :**

3.2.1 30% of total contract sum to be paid by T/T within 7 days upon signing contract.

3.2.2 50% of total contract sum to be paid by T/T after inspection at site.

3.2.3 20% of total contract sum to be paid by T/T before dispatch of HFO generating sets.

3.3 **Completion time :**

Approximate 6 months after signing contract and first down payment received
(i.e. item 3.2.1)

3.4 **Validity :**

15 days from date of this proposal.

Should you require any further information on the captioned above, please do not hesitate to contact us at phone 852-2464 8600 or email: philip@royce.com.hk.