

## **Technical Tender Book**

### **For Air Drilling Services Compressor**

- Energy efficient, tow - stage rotary screw air compressor driven by CAT Diesel engine. Qty-(2)
- Skid mounted suitable for installation on the location.
- Ambient temperature (-10 to +45) degree centigrade and an altitude of site not less than 1000m above sea level.

#### **Specifications**

- Type: Tow stage oil flooded screw.
- Rated delivery: 1000 - 1300 C.F.M.
- Rated pressure: 450 - 500 PSI.
- Engine Cooling: Air / water with heavy-duty radiator and fan, and oil cooler.
- Compressor Cooling: Air cooled.
- Driven: Diesel A.T Caterpillar electric starter 24 volts.
- Arrangement: Skid mounted.
- Fuel tank: enough 12 hours / load at least.
- Size of discharge line: 2" inch.
- Check Valves: the unit should be provided with two air check valves installed on final discharge line.

#### **Safety**

- Compressor:
  - ✓ High discharge temperature.
  - ✓ High inter stage temperature.
  - ✓ High inter stage pressure.
  - ✓ Low oil Pressure.
- Engine:
  - ✓ Low oil pressure
  - ✓ High coolant temperature.
  - ✓ High speed.

## Control Panel

Analog gauges with adjustable shut down for:

- Compressor:
  - ✓ High discharge temperature.
  - ✓ High receiver temperature.
  - ✓ Low oil pressure.
  - ✓ Fault display.
- Engine:
  - ✓ High coolant temperature.
  - ✓ Low oil
  - ✓ High speed
  - ✓ Fault display.

### Provide the following:

- 1- Technical sheets and original catalogs show the specifications.
- 2- Models, Manufacturers, Country of origin should be mentioned in the technical offer.
- 3- Maintenance, Spare parts, catalogs should be enclosed with shipment two copied.
- 4- The supplier should be responsible for supervision of assembling and its operation and training for one week at least on first location (Engine + Compressor)
- 5- All Materials should be new not renew.
- 6- Provide a customs declaration upon delivery
- 7- Submit a certificate of origin at the shipment

### Spare parts as enclosed lists

- 1- Engine.

Item	Description	Unit	Quantity
1.	Water pump	pcs	2
2.	Motor electric starter	pcs	2
3.	Alternator 24 V.	pcs	2
4.	Set fan belts	pcs	4
5.	Fuel filter	pcs	20
6.	Oil filter	pcs	20
7.	Air filter	pcs	20
8.	Water filter	pcs	20
9.	Tools needed for adjustment	set	2
10.	Gasket head	set	3

11.	Fuel injector Assy.	set	2
12.	Nozzle	set	4
13.	Fuel pump	pcs	2
14.	Radiator Assy.	pcs	2
15.	Oil cooler	pcs	2
16.	After cooler	pcs	2
17.	Turbo charger	pcs	2
18.	Piston ring	set	5
19.	Sealing ring kit	set	5
20.	Cylinder liner kit	set	2
21.	Gasket kit	set	2
22.	Starter switch	pcs	10

2- Compressor:

Supply spare parts for one year operation for compressor.