GENERAL DATA SHEET

1. Project : OPGCL AUXILIARY BOILER

2. Customer : OPGCL

3. No.of Pumps : 2 Nos. (1 working + 1 standby)

Each pump shall be of 100% capacity

4. Type : Single Suction, Multi stage, Horizontal,

Centrifugal, motor driven, Ring section type

5. Location : Out door

6. Duty : Continuous, 100% duty

7. Fluid handled : Feed Water

8. a) Design flow capacity of one Pump : 70 T/Hr. b) Normal flow capacity of one pump : 60 T/Hr.

b) Min. flow capacity of one pump : To be furnished by bidder

9. a) Pump suction pressure : 0.9* Kg/cm² (g) b) Pump discharge pressure : 35 Kg/cm² (g)

10. Specific gravity of feed water : 0.95238

11. Temperature : 105° C

12. NPSH available : 7 M* of water column

13.0 <u>Material of construction</u>

13.1 Casing : ASTM A216WCB

13.2 Impeller : ASTM A743 CA6NM

13.3 Shaft : AISI 410

13.4 Wearing ring : ASTM A743 CA6NM

13.5 Base plate : MS fabricated

14.0 Nozzle orientation : Top suction/top discharge

^{*} Suction strainer drop is not considered while arriving at Feed Pump Suction pressure and NPSH available.

PUMP DATA SHEET (To be filled and submitted by bidder)

| 1.0 | Model and type | : |
|------|---|---|
| 2.0 | Quantity | : |
| 3.0 | Capacity | : |
| 4.0 | Total head | : |
| 5.0 | Suction pressure | : |
| 6.0 | Pump shut off head at cold Pump shut off head at hot | : |
| 7.0 | NPSH (pump) required | : |
| 8.0 | Fluid handled and Concentration | : |
| 9.0 | Operating temperature | : |
| 10.0 | Specific gravity of the fluid | : |
| 11.0 | Nominal speed | : |
| 12.0 | Nominal power | : |
| 13.0 | Pump input power with Liquid at rated rpm | : |
| 14.0 | Pump efficiency | : |
| 15.0 | Motor rating | : |
| | PUMP MINIMUM FLOW | : |
| 16.0 | Pump construction | |
| | a. Casing | : |
| | b. No. of stages | : |
| | c. Packing | : |
| | d. Type of coupling | : |
| | e. Suction flange size and rating | : |
| | f. Discharge flange size and rating | : |
| | g. Flange standard | : |

| | h. Cooling water requirement | : |
|------|---|---|
| | i. Pump bearing type number | : |
| | j. Impeller diameter | : |
| 17.0 | Material of construction | |
| | a. Casing | : |
| | b. Impeller | : |
| | c. Stuffing box cover | : |
| | d. Shaft sleeve | : |
| | e. Shaft | : |
| | f. Wearing rings | : |
| | g. Base plate | : |
| 18.0 | Hydro test pressure of pump and testing standard | : |
| 19.0 | Weight schedule | |
| | a. Base pump | : |
| | b. Motor | : |
| | c. Base plate | : |
| | d. Pump motor assembly mounted on base plate along with coupling, strainer etc. | : |

| 20.0 | Companion flange suction/disch | <u>narge</u> |
|------|--|--------------|
| | a. Size | : |
| | b. Type | : |
| | c. Rating | : |
| | d. Standard | : |
| | e. Flange material | : |
| | f. Bolt material | : |
| | g. Nut/gasket material | : |
| 21.0 | Cooling water requirements | : |
| 22.0 | Sealing data | : |
| 23.0 | Coupling data | : |
| 24.0 | Instrumentation data | : |
| 25.0 | Strainer data | : |
| 26.0 | Lube oil system data | : |
| 27.0 | Warm up arrangement : requirement | |
| 28.0 | Allowable forces and moments at pump nozzles | : |
| 29.0 | Civil work data | : |
| Note | : Necessary drawings, catalogue | es, lea |