

NTPC LIMITED
DARLIPALLI AUXILIARY BOILER
TECHNICAL SPECIFICATION FOR BOILER FEED WATER PUMP

SPECIFICATION NO.	REV NO.	SHEET NO.
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ANNEXURE-A
GENERAL DATA SHEET

1. Project : DARLIPALLI AUXILIARY BOILER
2. Customer : NTPC LTD.
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 Material of construction
- 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.

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ANNEXURE - B
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 :

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- 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.

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20.0 Companion flange suction/discharge

- 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, catalogues, leaflets shall be submitted along with the filled up Annexure-B.