

C-48-PI-1902**Item Description:** Water Circulation Pump CT Bank 12/13**Quantity:** 01 No.**1- Specifications:**

Type Single Stage - Double Suction – Horizontal – Centrifugal

Suction to discharge flange distance	1100 mm
Code / Standard	API 610, ANSI
Capacity	5810 US GPM / 1319.451 m3/h
Min. Allowable Flowrate	1545 US GPM
Mass Flow rate	825.12 lb m/s
Head	139 FT./ 42.3672 m
Rotational Speed	1750 rpm
Driver Power	350 HP (Steam turbine)
Discharge Pressure	75 psig
Suction Pressure.A	14.7 psig
Service Fluid	:Treated Cooling Water (pH range 6 – 10) Sulfuric acid is being used to control pH & Sodium Hypochlorite is using as oxidizing biocide.
Pumping Temperature	86-105 °F
Fluid Density	61.914 lb/ft3
Fluid Viscosity	0.0010 in/s
Specific Gravity	0.998
NPSHa	25 ft
Max. Head	190 ft
Efficiency %	75% Min
Casing Split	Axial Split Volute Casing
Casing Mount	Foot
Packing	Gland Type
Hydrotest Pressure	165 psig
Pressure Gauge Connection:	G ½ (Drilled and plugged) on suction / discharge
Drain / Vent Point:	G ½ with four-way connector and vent plugged.
Suction Nozzle:	ISO 7005/2 DN 300, PN 16, Drilling + Seal Face per 21/A
Discharge Nozzle:	ISO 7005/2 DN 250, PN 16, Drilling + Seal Face per 21/A
Direction of Pump from drive:	Clockwise
Material:	Volute casing: Gray Cast Iron
Shaft:	Chrome Steel 1.4021+QT800
Impeller:	GX2CRNIMOCUN25-6-3-3 1.4517
Bearing Housing (350.1):	Grey Cast Iron JL 1040
Noise Level	90 db Max.

Site Conditions

Temperature:	31 – 128 °F
Location:	Outdoor

2- Special terms and conditions:

2.1 Mandatory Requirements:

Bidder Compliance Checklist:

Bid documents shall not be considered without submission of duly filled, signed and stamped bidder compliance checklist.

2.2 After Sales Services

Vendor shall be the authorized local representative of OEM and shall submit documentary proof from OEM at the time of bid submission.

Availability of after sales services to be ensured for at least next 5 years.

2.3 Documents / Literature:

Vendor shall provide 02 sets of hard and a set of soft copy of operation / maintenance manuals, procedures and list of spare parts along with part no. and all related technical literature at the time of delivery.

FAT / performance test certificate shall be provided at the time of delivery.

2.4 Warranty:

Two-year warranty of any defect from the date of delivery.

Vendor shall be liable to provide technical support and services for rectification of any malfunctioning free of cost during warranty period.

Remarks: Refer ANNEXURE-A, mandatory bidder Compliance checklist, which is required to be duly filled, signed and stamped by bidder.