



E N Q U I R Y



IRQS
AN ISO 9001 UNIT

HOOGHLY DOCK & PORT ENGINEERS LTD.

(A Government of India Undertaking)

SHIP BUILDERS – SHIP REPAIRERS – ENGINEERS

:

:Enq. no. 10/0080/08-09/

P-123 to 128/E-074

Registered Office : 1 R.N. Mukerjee Road, Kolkata – 700 001 : Date: 02.08.08

Nazirgunge Works : P.O. Danesh Sk.Lane, Howrah – 711 109 :

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:Due Date: 19.08.08

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To

M/s

Sub: Supply of Pumps for 6 nos. Work Boat of IWAI

Sealed tenders are invited from manufacturers/their authorized dealers for supply of following Pumps for 6 nos. Work Boat of IWAI.

Description	Capacity	Qty.
A) Bilge/Ballast/Deck Wash/Fire Fighting Pump	25M ³ /hr @ 20 MWC	6 nos.
B) Sanitary Water Pump	0.8 M ³ /hr @ 15 MWC	6 nos.
C) Sewage Discharge Pump	07 M ³ /hr @ 30MWC	6 nos.
D) Fuel Oil Transfer Pump	20 M ³ /hr @ 30 MWC	6 nos.

- 1] Sealed offers are to be submitted in Two Parts.
 - a) **Part – I** (Techno Commercial Bid) – To contain, all technical particulars, leaflets, Drawing, Specifications, Delivery Time & other Commercial terms.
 - b) **Part – II** (Price Bid) – To contain Price only.

Both Part I & II duly sealed & marked be submitted in main cover super scribed Tender no.
- 2] Technical specifications of the Pumps with Engine/Motors are indicated at attached sheet marked as 'A'.
- 3] Pumps and Engine/Motors shall comply to rules & regulations of Indian Register of Shipping for construction and Classifications of Indian Waterways vessels.
- 4] **INSPECTION:** By Indian Register of Shipping.
- 5] **DELIVERY:**
Delivery to be made in 3 phases, i.e., two ships set in each phase.
Delivery of 1st phase consignment within 6 weeks from the date of issue of P.O.
- 6] **SECURITY DEPOSIT:**
The successful tenderer shall have to be deposited 5% of the total value of the purchase order & Security Deposit in the form of Cash/Demand Draft or Bank Guarantee.

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- 7] L.D.CLAUSE :
In case of delay in delivery of the materials beyond contractual stipulation, Liquidated damage @ 1% per weeks delay or part thereof subject to a maximum of 10% of the value of the lot shall be imposed and recovered from you.
- 8] RISK PURCHASE:
In the event of failure in supplying the materials as per contractual terms, HDPEL reserves the right to cancel the order and procure the materials from any other source at your risk of cost.
- 9] PERFORMANCE GUARANTEE:
Successful bidder / bidders are to submit Bank Guarantee for 10% value of the Purchase Order towards Performance of the equipment, Valid up to 18 months from the date of supply or 12 months from the date of commissioning.
- 10] VALIDITY OF OFFER:
90 days from the date of opening.
- 11] PART ORDER:
Order for Part Quantity should be accepted by the bidders.

for Hooghly Dock & Port Engineers Ltd.

Head (Materials) – NW

TECHNICAL SPECIFICATIONS OF PUMPS FOR SIX NOS.
WORK BOAT FOR IWAI

A. Bilge/Deck Wash/Fire Fighting Pump.

No. off : 1 No. per vessel.
Capacity : 25 M³/Hr @ 20 MWC.
Pump Type : Centrifugal, self priming; prime mover shall be marine grade, High speed, 4 strokes, fuel efficient Diesel Driven & shall Develop required power to achieve above pump capacity.
Engine shall be air-cooled & hand started.

B. Sanitary water pump :

No. off : 1 No. per vessel.
Capacity : 0.8 M³/Hr @ 15 MWC
Liquid handled : Sea water.

The pump shall be operated by Marine grade electric motor. Pump set to consist of one number horizontal, self priming. Centrifugal pump complete with prime mover and flexible coupling mounted on a common base frame and coupling guard provided.

El. Motor : Marine duty, squirrel cage, drip proof, induction type suitable for 415V, 3 ph, 50 Hz. AC supply with following details :-

Duty : Continuous.
Insulation : Class “B”
Enclosure : TKFC.
Protection : IP – 44.
Amb. Temp. : 45⁰C
Relative Humidity: 100% at 45⁰C

One set suction and discharge pressure gauge with gunmetal gauge cock for each pump set (A & B above).

One set of spare as per classification requirement for each pump set (A & B).

Pump matl. Specification (A & B):-

Casing : Pump body shall be of cast iron / Bronze
Impeller : Bronze to LG2 : BS 1400
Shaft : Stainless Steel.
Gland Packing : Sea Water resistance.

C. F.O. Transfer Pump:

No. off : 1 per vessel.
Capacity : 20 M³/Hr
Discharge Head : 30 MWC.
Pump speed : 1440 rpm.
Liquid handled : L.D.O.

Contd. P/2.

D. Sewage Discharge Pump :

No. off : 1 no. per vessel.
Capacity : 7 M³/Hr
Disch. Head : 30 MWC.
Pump r.p.m. : 1440

Specification : (for C & D)

Sewage Discharge pump is to be mono pump type with dry running protection, pump to operate in submerged condition while motor will be fitted on tank top. RTC Type, Rotary Gear Pumps for item No. C, directly coupled on a common M.S. Fabricated base to A.C., 3 Ph. 50 Hz, 415V, 4 pole marine duty electric motor of suitable H.P.

Accessories :- (for C & D)

The following accessories will be supplied along with each pump set.

- a) 1 no. 100 mm. Dial pressure gauge (0-10 Kg/cm²) with brass shut off cock.
- b) 1 no. 100 mm. Dial compound gauge (- to 760 mm to Hg) for vacume and 0-10 Kg/cm² for pressure with brass cock.
- c) 1 no. Coupling guard (M.S.).
- d) 1 Set Foundation bolts with nut & washer.

Material of construction of pump :- (for C & D)

- a) Main body & cover : close grained C.I.
- b) Shaft : S.S. AISI 304
- c) Gears : Carbon Steel.
- d) Bearing : Brush Bearing.
- e) Base plate : M.S. (Fabricated)
- f) Coupling guard ; M.S.

Note :-

The offer should be supported with catalogue/tech. Literature other than family curves, performance curves for head, power and efficiency for offered pump set must be submitted with the offer.

The offered electric motor shall be covered. The power requirement of the pump for entire portion of the performance curves.

Overall dimensions of the complete set to be indicated. List of spares with price should be furnished with the offer. To confirm that three sets of relevant binding drawings will be supplied within two weeks of placement of L.O.I / P.O.

Make of motor is to be indicated. However, the same is to be selected from the following make only i.e. Crompton greaves/IEC/GEC/Jyoti/Bijlee.

Head (Material)/NW