

## ENQUIRY

**HOOGHLY DOCK & PORT ENGINEERS LTD.**  
(A GOVT. OF INDIA UNDERTAKING)  
UNIT : NAZIRGUNGE WORKS  
P.O. - D.S. Lane, Howrah 711 109

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**Enquiry No. 10/E/ 0220/ 09-10/P-121**

**Dated : 15-03-2010**

To,

You are invited to quote for the following work to be executed at our Works at Nazirgunge, Howrah - 711 109.  
For Hooghly Dock & Port Engineers Ltd.

Head. [PPC]

Last date of submission : 25/03/2010

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### Scope of Work :-

Complete preparation of drawing including design calculation and obtaining approval of drawing from IWT Directorate, Govt. of West Bengal. Fabrication, installation, commissioning and testing of Mechanical ventilation system on board the vessel Self Loading Cargo Vessel, Yard No. P-121 on Turnkey Basis as per the approved drawings and following technical specification.

### Technical specification

The ventilation system should be of marine standard to suit humid atmosphere. Ventilation ducting to be fitted with fire flap in the main duct. Non-return flaps to be provided in branch duct of Galley and air shall be exhausted outside directly. Flaps should be easily operatable from outside of the machinery space. 'Open' and 'Shut' indicators are to be marked / fitted at all operating handles. Wire nettings to be installed at all intake and delivery trunking and mosquito nets are to be provided at all intake of accommodation ventilation. Exhaust fans should be provided for the toilets.

Two nos. axial flow fans of adequate capacity to be provided in engine room for ventilation, out of which, one fan shall be reversible type. Engine room ventilation system should cater for forced exhaust spaces when required. Natural ventilation through Cowl vent should be provided in the pump room.

Supply fans of sufficient capacities are to be provided for ventilation in Accommodation areas, pump room and emergency fire pump room. Exhaust fans to be provided for galley, Mess, toilets and stores. The supply / exhaust system should be capable of giving the required rate of air per hour to meet the rule requirement.

Emergency stop switch for engine room, accommodation and other fan are to be arranged as required by the statutory rules. Ventilation fan for accommodation are to be controlled from the wheelhouse. A vent hood with stainless steel grease filter and exhaust fan are to be fitted over the cooking range in the galley.

Watertight covers are to be provided on all ventilation inlets as required by Load Line Regulation. Fire dampers are to be fitted as per rules requirement.

Sl. No.	Accommodation	Vol. in Cu. Mtrs.	Air change per hour
1.	Mess room	40	15
2.	4-crew cabin (Port)	30	10
3.	Driver's cabin	25	10
4.	Driver's Toilet	05	20
5.	Crews' toilet	20	20
6.	Galley	22	30
7.	4-crew cabin (Stbd.)	30	10
8.	Master's cabin	25	10
9.	Master's toilet	05	20
10.	Pump room (below Engine Room)	140	20
11.	<b><u>Engine Room</u></b>	280	15
12.	Emerg. Fire pump room	40	20
13.	Stores (Ford stbd.)	40	10

Capacity of each electrical motors fans / blowers should be as detailed in your technical bid. The Single Line Diagram considering available ventilation power at DBs is already provided with our Tender Enquiry.

Note:

- Two nos. 235 BHP capacity each Diesel engines as prime mover for propulsion system, one no. 15 KVA DG set and two nos. 75 KVA each DG sets are installed in the engine room. However, the engine room is having wide open windows with louvers.
- Remote Stops : to be provided one at wheelhouse and one outside engine room.
- One of the Blower for engine room should be of reversible type.
- All electrical Blowers / fans should operate on 415V, 3 ph, 50 Hz AC supply.
- Galley canopy and Grease filter should be provided with Galley exhaust system.
- Grills, ducting, wire mesh, coaming pieces, torpedo hoods, air balancing dampers for branch line, ducting / trunking as required to be supplied by you.
- Approval of the drawing from IWT is to be obtained by you.  
Opening of Deck, BHD etc. and proper strengthening arrangement drawing to be made and the same to be approved by IRS before starting the job on-board.
  - Any changes recommended by Surveyor at the approval stage should be incorporated in the drawing and the subject material are to be supplied without any cost implication.
- Drawing are to be made ready and submitted for approval of HDPEL within one week of placement of P.O. On approval of drawing by HDPEL the same should be submitted by you to IWT for final approval.
- Approval of HDPE does not relieve you from meeting the requirement of Statutory Authority (IWT).
- HDPEL will return the drawing with approval to you within seven days of receipt.
- All material are to be supplied as per approved drawing within 6 weeks of placement of P.O.

- Installation, commissioning , trial & survey are to be completed on Turn Key basis, within 11 weeks of issue of LOI / placement of P.O. subject to obtaining site clearance.
- After commissioning of system operation / function trial is to be demonstrated for HDPEL, & IWT surveyors.
- Working drawings are to be supplied in triplicate along with one set of IWT approved drawing (original copy).
- As fitted drawing are to be supplied in quadruplicate immediately after installation / erection on board along with one set reproducible sheets.
- All electrical system related to the above are within your scope including installation excluding cabling. However for cabling necessary information are to be furnished by you.

HDPEL's Scope of supply :- Clear work site, water & electricity, staging materials.

Contractor's scope of supply & work :-

Design / drawing, approved drawing in original from IWT, all material required for the job, welding machines, gas cutting machines, electrode (approved type), gas, welding cables, all consumables, tools, tackles & lifting equipments / accessories, required workforce and qualified supervisors to undertake and complete the job successfully.

Job Certification :

By Head (SBR) or his authorisead representative and Head (QC) or his authorized representative on the basis of acceptance by IWT's surveyor.

Bill certification : By Head (SBR).

Completion time :-

The entire job as specified above should be completed within 11 weeks from the date of this Purchase Order.

Inspection: - By Head.(QC), & Hd (SBR) of HDPEL & IWT Surveyor.

**NOTE** :-

1. This tender may be downloaded from our website "[www.hooghlydock.gov.in](http://www.hooghlydock.gov.in)".
2. Offer should strictly conform to specification, indicated above.
3. Quotation to be submitted in SEALED COVER with Enq. No. & Last Date of submission clearly marked on the cover. **Offer to be submitted in 2-part bid, part-I to consist the 'Techno-commercial bid' and part - II the 'Price Bid'.**
4. Any quotation delivered to us after the last date of submission may not be considered.
5. Quotation may be rejected if there is any OVER WRITING in the Offer.
6. Price preference to Govt. undertakings, S.S.I. Units may be considered as per standard Regulations.
7. Management Reserves the right to reject any or all Quotations without assigning any reason thereof.

## MAJOR TERMS AND CONDITIONS

1. DELIVERY / EXECUTION is to be made/carried out at our Works at the shortest possible time.
2. Security Deposit :- Contractor has to submit a Bank Guarantee [in the enclosed format of HDPEL] from a nationalized bank; for an amount equivalent to 5% of the total P.O value towards Security Deposit within 7 days from the date of receipt of the order. This amount will be released to the contractor on successful completion of the job subject to submission of the Performance guarantee @ 10% of the P.O value.
3. PERFORMANCE GUARANTEE: Contractor will have to provide a performance guarantee to the extent of 10% of the value of the order in the form of a bank guarantee [in the enclosed format of HDPEL] from a nationalized bank; prior to submission of your final bills. We would retain the same as Performance Guarantee. On your written request this Performance Bank Guarantee would be returned to you after expiry of Performance Guarantee period, which is **6 months** from the date of completion of the job.
4. LIQUIDATED DAMAGE: Liquidated damage @1% per week or part thereof, subject to a maximum of 10% of the value of the order would be charged in case of your failure to execute the job within the delivery period, to be mutually agreed upon.
5. RISK PURCHASE CLAUSE: In case of non-delivery/non-execution of the order by you, we would be free to execute the job from other sources, at your risk & cost which will be recovered from your pending and/or future bills with a penalty of 10% of such cost.
6. In case of any dispute the decision of our Chairman and Managing Director would be final and binding on both the parties.  
In case of Legal Dispute, the same would be subject to the jurisdiction of Calcutta High Court.  
**NOTE**: Specific clauses for payment etc. would depend on the nature of job.
7. All statutory deductions e.g., ESI, PF, Income Tax, Work Contract tax etc., will be made as per rules.
8. VAT will be applicable only on supply portion of the job at the prevailing rates.

# SINGLE LINE DIAGRAM OF MAIN ELECTRICAL INSTALLATION

**VENTILATION D.D.**  
3PH, 415V 50HZ AC

**CABLE SIZE EQUIPMENT**  
(YARD SUPPLY)

415V 3PH 50HZ COPPER BUSBARS

