

HOOGHLY DOCK & PORT ENGINEERS LTD.

(A GOVT. OF INDIA UNDERTAKING)

UNIT : NAZIRGUNGE WORKS

P.O. - D.S. Lane, Howrah 711 109

WEST BENGAL - INDIA

PHONE : 91-(033)2688-8000

FAX NO.: (033) 2688-5852

E-MAIL : hdpelnw@satyam.net.in

hdpelnwmsd@gmail.com

Website : www.hooghlydock.gov.in

Regd. Office :-

Martin Burn Hose,

1, R.N. Mukherjee Road (2nd Floor),
Kolkata – 700 001.

Phone no. : 91(033)-2243-0419.

FAX No. : 91(033)-2243-0418.

E-Mail : hdpeltd@cal2.vsnl.net.in

To,

Speed Post.

**SUB : TENDER ENQUIRY FOR MANUFACTURE & SUPPLY OF MAIN SWITCH
BOARD FOR 6 NOS. WORK BOATS
YARD NO. P-123 – P-128**

Tender No.:- 10/09-10/0159/WB/E-108 DATED 19.12.2009

DUE DATE OF SUBMISSION :28.01.2010

**HEAD (MATERIALS)
NAZIRGUNGE WORKS**

Tender No.:- 10/09-10/0159/WB/E- 108 DATED 19.12.2009

1.0. Sealed offers (in two part bids) are invited from manufacturers for supply of Main Switch Board – 6 ship sets for Work Boats under construction at our yard for Inland Water Ways Authority of India as per technical specification and general terms & conditions appended herewith.

1.1. Pre-qualification criteria :

(a) Bidders must have executed similar orders for Shipyards during last two years ending 31.03.2009.

(b) Bidders must have experience, manufacturing facilities, competent personnel and facilities for after- sales service.

Note :-

Similar order means supply of Main Switch Boards for ships/vessels under inspection of Indian Register of Shipping/Classification Society.

1.2 Tenders are to be submitted in two parts as follows :-

Part – I (Techno-Commercial Bid) : (IN TRIPLICATE)

To contain copies of credentials in support of eligibility criteria as stipulated in clause nos. 1.1, technical particulars of the equipments offered, literatures, taxes, duties, delivery time, terms of payment, list of spares, tools, confirmation/documents as per technical specification, G.A.. drg., and acceptance of terms and conditions of Tender Enquiry. List of recommended spares and tools , List of non-compliance to HDPEL requirement.

Part – II : Only price (unit and total).

Both Part I & II separately sealed and marked shall have to be submitted under one sealed cover superscribing the tender enquiry number and due date of submission in the tender box at Nazirgunge Works positively within due date of submission.

1.3. Offers are to be kept valid for a minimum period of 90 (ninety) days from the date of opening.

1.4. HDPEL reserves the right to reject any or all the offers without assigning any reason to the tenderers and also extension of due date in the event of insufficient response.

1.5. Purchase preference in respect of equipment/product of CPSE/CPSU will be applicable for similar equipment on tender as per extant policy of Govt. of India.

2. GENERAL TERMS & CONDITIONS

- 2.1. Acceptance of Order :
In the event of placement of order, the successful bidder has to convey acceptance of the Purchase Order in writing within seven days from the date of receipt.
- 2.2. Delivery time:
To commence within 3 months from the date of receipt of order and to be completed within 3 months thereafter.
- 2.3. Excise Duty :
If applicable should be spelt out in the offer clearly.
- 2.4. Price : –
Price to be quoted by bidders shall be delivery upto HDPEL yards basis. Applicable tax, duties, insurance etc. are to be indicated in the techno-commercial bid.
- 2.5. Security deposit :
In the event of placement of order the successful bidder has to submit Security Deposit for 5 (five) percent of the order value in form of Bank Draft drawn in favour of Hooghly Dock & Port Engineers Ltd., payable at Kolkata by any Nationalized India Bank or in form of Bank Guarantee as per enclosed format. Security deposit to be submitted shall not fetch any interest and shall be returned on successful execution of order. Security deposit is to be submitted within 15 (fifteen) days from the date of receipt of Purchase Order.
- 2.6. Performance Guarantee :
Successful bidder has to submit Performance Bank Guarantee for 10% value of the order towards quality of material supplied and performance of the equipments valid for a period of 18 (eighteen) months from the date of commissioning or 24 months from the date of supply which ever is earlier. The Bank Guarantee to be submitted shall have validity for the guarantee period with additional claim period of one month. Format of Bank Guarantee is **enclosed**.

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2.7. Liquidated Damage :

In the even of delay in executing the order beyond the stipulated delivery period, Liquidated damage @ 1 (one) percent per week's delay or part thereof subject to a maximum of 10% of the order value shall be imposed and stand recoverable from the successful bidder.

2.8. Risk Purchase:

In the event of failure in executing the order within the contractual delivery period, HDPEL reserves the right to cancel the order, forfeit the Security deposit and procure the materials from any other source at the risk & cost of the supplier.

2.9. Force Majeure :

It shall be limited to "Act of God" or Lockout at your Works. The same is not applicable to your sub-contractor. Such information are to be given to the buyer instantly on occurrence.

2.10. Arbitration & Jurisdiction:

In case of any dispute, the matter shall be settled by arbitration by the Chairman & Managing Director of Hooghly Dock & Port Engineers Ltd. who will be the sole arbitrator. The High Court at Kolkata shall have jurisdiction to deal with and decide any legal matter or dispute whatsoever arising out of this contract.

FOR HOOGHLY DOCK & PORT ENGINEERS LTD.,

HEAD (MATERIALS)
NAZIRGUNGE WORKS

Encl:

1. Technical Specification.
- 2.. Formats for Bank Guarantees.(2 nos.)

**TECHNICAL SPECIFICATION OF MAIN SWITCH BOARD FOR 6 NOS.
WORK BOATS FOR INLAND WATER WAYS AUTHORITY OF INDIA
(YARD NOS P -123 to P – 128)**

Quantity of MSB: 1 number per Vessel (total 6 nos.)

Inspection:

The equipment is to be inspected at the manufacturer's premises by Owner's, HDPEL representatives & IRS surveyor.

Service condition:

Main switch board is to be of Marine type and shall withstand without hampering its normal operation marine atmosphere, tropical condition and marine adversaries.

General Construction:

Main Switchboard is to be of dead front, drip proof, IP-22 protected, fully enclosed, free standing and deck mounting type and made of 14 SWG sheet steel on suitable MS angle iron structure. Limiting overall dimension of MSB may be considered as 2200mm(L)x1600mm (H) x 400mm (D). The switchboard is to be consisted of numbers of transportable main sections and operation-wise sub sections. 415V & 220V Systems are to be two farthest separate sub sections.

The switchboard shall be completely closed at the rear and is to be serviceable from the front.

It is to be provided with sufficient numbers of rigid hinged access panels at the front. Lift-off type front doors with stoppers are to be provided with proper gasketing arrangement.

Removable type bolted Gland plates fitted with sufficient numbers of Glands are to be provided with proper gasketing arrangements at the front bottom side.

Sufficient numbers of incandescent lights with ON/OFF switch are to be provided to illuminate inside of the switchboard.

Drip proof illuminated canopy is to be provided at the front for illumination of the service area.

Adequate numbers of heavy duty lifting lugs are to be fitted at the top.

Insulated hand rails to be provided throughout the length of front and rear side.

Sufficient numbers of anti-vibration mountings are to be supplied with the switchboard. All indications, metering, push buttons, switches etc are to be mounted at the front doors. For external cable connections ELMEX connectors are to be used up to 16 square mm sizes and copper bar with rolled brass bolts, nuts & washers for the rest.

Terminals are to be provided at the front bottom of the switchboard keeping sufficient space for easy connection and maintenance etc.

All meters are to have scale limits as per Class requirements and should be of white face with red marks at rated value. Calibration certificates of all meters are to be supplied along with switchboard.

All bus bars are to be made from annealed tinned copper bar in accordance with Classification Rules and are to be adequately supported to resist fault stress. The Bus Bar & Enclosure should have adequate arrangement for external Load Test by providing 1 no. ½" SS bolt with nut & washer in each phase and removable type inspection cover

HRPVC insulated copper conductor flexible cables of 1.1KV grade with proper identification ferrule marks at both ends of sufficient capacity are to be used for internal wiring (Control cables minimum 1.5 square mm & Power cables minimum 2.5 square mm).

All internal & external equipment / meters / indications / components / sections and others are to be properly identified with nameplates. All nameplates are to be of white sandwiched type having engraved black lettering on white surface (reverse is not acceptable). Sufficient numbers of "DANGER" plate are to be provided in Red lettering on white surface.

Two numbers of earthing bolts with nuts and Symbols are to be provided on two sides.

Painting:

Light BS Grey Shade 697 of IS 5 outside and White Shed inside with all necessary pre treatments etc.

Electrical Design:

The equipment is to be designed and manufactured as per latest IRS requirements and as per Approved Single Line Diagrams.

A numbers of incoming and outgoing feeders with sufficient protective, control indicating and metering circuitry, copper bus bars of sufficient capacity and external cable connection terminals etc. to be arranged.

For Initial Design Purpose the Following Incomers / Feeders / Sections etc. are to be Considered, Whereas FINAL DESIGN is to be done according to Approved SLD.

- a) 1 No. 3 Phase 415V, 50 Hz, 50 KVA Main Alternator-1 Section having all necessary metering, protection and control circuits with A, V, F etc. meters 2 nos. selector switch, 3 nos. indicating lamps, control transformer, HRC control Fuses and 100/70A MCCB with U/V coil Built in adjustable type O/L & S/C protection etc. 1 Generator space heater control circuit is to be provided comprising of MCB, interlock with generator power, step down (1PH-415V/230V) transformer, protection fuse and indication.
- b) 1 No. 3 Phase 415V, 50 Hz, 25 KVA Main Alternator-2 Section having all necessary metering, protection and control circuits with A, V,F etc. meters 2 nos. selector switch, 3 nos./ indicating lamps, control transformer, HRC control Fuses and 50/35A MCCB with U/V coil Built in adjustable type O/L & S/C protection etc. 1 Generator space heater control circuit is to be provided comprising of MCB, interlock with generator power, step down (1 PH-415V/230V) transformer, protection fuse and indication.
- c) 1 No. 60 A Shore Connection Section having 100A C.O.S. & 3 nos. 80A HRC Fuse Base with Link for changing over the Bus-Section-1 power supply from Main Alternator-1 or Shore supply.
- d) 3 Nos. Earth Fault and Bus Alive Sections having Indications and Earth Fault Test switch and protection fuses.
- e) 1 No. Bus Coupler Section having 50A C.O.S. for connecting Bus-Section-2 with Bus-Section-1 or Main Alternator-2.
- f) 1 No. 63A, 3 Pole, 4Way Rotary Switch to select the power supply of one of the followings – Windlass, Deck Crane, Welding Machine & F.O. Transfer/Supply Pump.
- g) 415V AC Out Going Feeders are as Follows –
 - 1) TP 60A MCB 2 Nos.
 - 2) TP 25A MCB 1 No.
 - 3) TP 14A MCB 1 No.
 - 4) TP 16A MCB 1 No.
 - 5) TP 8A MCB 3 Nos.
 - 6) TP 6A MCB 8 Nos.
- h) 220V AC Section consists of V, A, Indicating Lamps and HRC protection fuses.
The outgoing Feeders are as Follows:-
 - 1) TP 25A MCB 2 Nos.
 - 2) TP 10A MCB 1 No.
 - 3) TP 6A MCB 2 Nos.
 - 4) 4A HRC Fuse 2 Nos.
 - 5) DP 6A MCB 4 Nos.
 - 6) DP 10A MCB 3 Nos.

- i) 415V 3 Ph Starter Section consists of incoming MCB, control ckt., Start/Stop Push buttons, ON/OFF Indication Lamps etc.
- | | | |
|----|--|-------|
| 1) | 3.73 KW F/R DOL Starter with 16A incoming MCB & Remote Start/Stop & Remote Stop arrangements. | 1 No. |
| 2) | 2.20 KW DOL Starter with 8A incoming MCB & Remote Start/Stop arrangement. | 1 No. |
| 3) | 5.50 KW S/D Starter with 16A incoming MCB & Remote Start/Stop arrangement. | 1 No. |
| 4) | 3.73 KW F/R S/D Starter with 16A incoming MCB & Remote Start/Stop & Remote Stop & F/R arrangements. | 1 No. |
| 5) | 0.56 KW DOL Starter with 6A incoming MCB, A/M switch, Remote auto ON/OFF & Remote Start/Stop arrangements. | 1 No. |
| 6) | 0.56 KW DOL Starter with 6A incoming MCB & Remote Start/Stop arrangement. | 1 No. |

Make of the components:

All the components are to be used of IRS approved Type and Make, having Rating as per Approved Single Line Diagrams.

For reference the following makes can be considered.

MCB	MDS / Siemens / L&T / Merlin Gerin / Telemecanique
MCCB	Siemens / L&T / Merlin Gerin / AEG NGEF / Andrew Yule / Telemecanique
HRC fuse	Siemens / GE / EE / L&T
Push Button	Siemens / L&T / BCH / Control & Switchgear
Switches	Siemens / Kaycee / L&T / Control & Switchgear
Contactors	Siemens / L&T / Control & Switchgear / Andrew Yule
Meters	Automatic Electric
Current Transformer	AE / Kappa / Reputed
Control Transformer	Reputed
Lugs and pins	Dowells'
Indicating Lamps	Siemens / L&T / Telemecanique / BCH
Relays	Andrew Yule / Fabricons / IRS appved. Make except Minilec

Drawings & Certificates:

Drawings shall be initially approved by HDPEL & finally by IRS. Price to be quoted inclusive of IRS charges.

1. Manufacturer's Test & Guarantee certificates in duplicate are to be supplied along with each main switch board.
2. IRS certificates in duplicate are to be supplied along with each main switch board.
3. 4 sets of complete ckt drgs. & 6 sets Foundation details & GA are to be provided for yard approval and preliminary foundation work within two weeks of receipt of order.
4. Necessary sets of drgs. are to be submitted for IRS approval. IRS approval to be obtained by the manufacturer at their cost.
5. 12 sets of IRS approved drawings (i.e. 2 sets/MSB) are to be forwarded to us for our record.
6. 18 sets of "AS MADE" drawings (i.e. 3 sets/MSB) are to be supplied with the equipment.

PERFORMANCE GUARANTEE

This agreement made this _____ day _____ 200____
between _____

(Name of the Bank & Address)

_____ (hereinafter called the 'Bank' which expression shall unless repugnant to the context or contrary to the meaning thereof include its successors and assignees) of the one part and Hooghly Dock & Port Engineers Ltd., a Government of India undertaking having its registered office at 1, R. N. Mukherjee Road, Kolkata – 700 001 (hereinafter called 'the Company' which expression shall, unless repugnant to the context or contrary to the meaning thereof include its successors and assignees) of the other part.

Whereas M/S _____

(Name & Address of the Company)

_____ (hereinafter called the Contractor's which expression shall unless repugnant to the subject or context include its successors and assignees, legal representatives and administrators) received from the company an order no. _____ dated _____ (hereinafter called the said Agreement) to manufacture / supply / erect / commission / repair / renovate _____

(Order Particulars)

_____ in accordance with the said Agreement. AND WHEREAS the contractor has undertaken to manufacture / supply / erect / commission / repair / renovate _____ and is required under the said Agreement to furnish one Bank Guarantee for Rs. _____ (Rupees _____) being _____ % of the price of the contract value to the Contractor towards due performance and workmanship of the goods for a period of _____ months from the date of dispatch / commission.

And whereas the Bank at the request of the Contractor has agreed to furnish in favour of the Company the said bank guarantee in the manner hereinafter appearing.

2. We, _____ Bank _____ branch do hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of any breach by the said Contractors of any of the terms or conditions contained in the said Agreement or by reason of the Contractor's failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____

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3. We, _____ Bank, further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or till the Company certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing and received by us on or before the _____ we shall be discharged from all liabilities under this guarantee thereafter.

4. We, _____ Bank further agree with the Company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) and or forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the Company or any indulgence by the Company to the said Contractor(s) or by any such matter of thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

5. We, _____ Bank, lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Company in writing.

6. Notwithstanding anything contained herein before our liability under this guarantee will be restricted to Rs. _____ (Rupees _____). Unless a claim in writing is made on us on or before _____ day of _____ 200 ____ we will be discharged from all our liabilities hereunder.

Dated the _____ day of _____ 200____ for
_____ Bank Ltd.

Note: This bank guarantee should be submitted in the banker's sealed envelope and the claim period should be for 30 days from date of expiry of this B.G.A confirmatory letter from the issuing bank is also to be submitted in this context.

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**FORMAT FOR
BANK GUARANTEE BOND (IN LIEU OF EMD/ S.D)**

In consideration of Hooghly Dock & Port Engineers Ltd. (A Govt. of India Undertaking), a Company incorporated under the Company's Act 1956 and having its Registered Office at 1, R.N. Mukherjee Road, 2nd Floor, Kolkata-700001 amongst other places, a Unit at Nazirgunge, P.O. Danesh Shaik Lane, Howrah-711109, West Bengal (hereinunder called the "HDPE") having agreed to exempt M/s. (hereinafter called the "Tenderer"/"Seller") of Earnest Money Deposit / Security Deposit in cash for the due fulfillment by the said Tenderer/Seller of the terms and conditions contained in the said Tender/Purchase Order, (Ref.....) on production of a Bank Guarantee for Rs.....(Rupees only) we (Bank) (Hereinafter referred to as the "Bank") at the request of M/s., against any loss or damage caused to or suffered or would be caused to or suffered by the HDPE by reason of any breach by the sand Tenderer/Seller of any of the terms or conditions contained in the said Tender/Purchase Order.

We, (Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the HDPE stating that the amount claimed is due by way of loss of damaged caused to or would be caused to or suffered by the HDPE by reason of breach by the said Tenderer/Seller of any of the terms of conditions contained in the said Tender/Purchase order or reason of the Tenderer's/Seller's failure to perform the said Tender/Purchase order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.....

We, (Bank) undertake to pay to the HDPE any money so demanded not withstanding any dispute or disputes raised by the said Tenderer/Seller in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the said Tenderer/Seller shall have no claim against us for making such payment.

We,..... (Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Tender/ Purchase Order and that it shall continue to be enforceable till all the dues of the HDPE under or by virtue of the said Tender/Purchase order have been fully paid and its claim satisfied or discharged or till the HDPE Certified that the terms and conditions of the said Tender/Purchase Order have been fully and properly carried out by the said Tenderer/Seller and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before We shall be discharged from all liability under this guarantee thereafter.

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We, (Bank) further agree with the HDPE that the HDPE shall have the fullest liberty without our consent and without affecting in any manner. Our obligations hereunder from time to time or to postpone for any time or from time to time any of the powers exercisable by the HDPE against the said Tender/Seller and to forbear on enforce any of the terms and conditions relating to the said Tender/Purchase order and we shall not be relieved from

our liability by reason of any such variation or extension being granted to the said Tender/Seller or for any forbearance, act or omission of the part of the HDPE or any indulgence by the HDPE to the said Tenderer/Seller or by any such matter or think whatsoever which under the law relating to sureties would, but for this provision, have effect or so relieving us.

This guarantee will not be discharged due to the change in the constitution of the Bank of the said Tenderer/Seller.

We, (Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the HDPE in writing.

for Hooghly Dock & Port Engineers Ltd.