

REPAIR ORDER SUMMARY & CHANGES LOG

SHIPNAME: **CHINA EAST** / VESSEL: **CHINA EAST** / PORT: **CHINA EAST**

Year/No: 2023-78

Indicator: ELEC

RECEIPTS

SERIAL NO.	MATERIAL CODE	MATERIAL DESCRIPTION	Quantity Req.	UOM
18	7803120801	6A BMS W/O TRANS RECTR CUM BATT. CHGR	1	EA
20	7803190601	HARD COPY OF 6A BMS TRANS RECTR BATT CHGR	6	EA

INSPECTION AUTHORITY/SCOPE OF INSPECTION

- 1. TRANSRECTR CUM BATTERY CHARGES will be accepted based on manufacturer's test & guarantee certificate.
- 2. For scope of inspection survey certificate should be required.
- 3. Receipt Inspection - GSE

N.B: Quantity indicated is for one ship but total requirement is for EIGHT ships.


REPAIR SUBMISSION DUE DATE: 01.08.2023

**GARDEN REACH SHIPBUILDERS AND
ENGINEERS LIMITED**

G.R.S.E. YARD NO.2072-79


SPECIFICATION NO.-RN/2072-79/LW/071

**STATEMENT OF REQUIREMENT
FOR
TRANS RECTIFIER CUM BATTERY CHARGER FOR
DEAD SHIP CONDITION**

 G.R.S.E. LTD. YARD NOS. 2072-79	STATEMENT OF REQUIREMENT FOR TRANS RECTIFIER CUM BATTERY CHARGER FOR DEAD SHIP CONDITION	REQUISITION NO. RN/2072-79/LW/071
		SHEET 2 OF 5
DATE:		PREPARED BY:

HISTORY OF REVISIONS

REV. NO.	DESCRIPTION	MADE BY	DATE

 G.R.S.E. LTD. YARD NOS. 2072-79	STATEMENT OF REQUIREMENT FOR TRANS RECTIFIER CUM BATTERY CHARGER FOR DEAD SHIP CONDITION	REQUISITION NO. RN/2072-79/LW/071
		SHEET 3 OF 5
DATE:		PREPARED BY:

EQUIPMENT

60 amps Bulk Head Mounted Trans-Rectifier Cum Battery Charger 240V, 1 PH., 50 HZ AC/24V D.C. (only for starting of 24V DC Starter Motor of DG set.) – **1 No. / ship (Mat. Code No. 782311220001)**

1. GENERAL

- 1.1 This specification covers the manufacture and supply of the above equipment in accordance with the following points :
- 1.2 This equipment shall be of marine type and suitable for satisfactory operation in an ambient temperature of 50°C and relative humidity of 100% at 35°C and capable of with standing the rolling and pitching of the vessel at sea.
- 1.3 All components and materials are to conform the requirements of the Rules and Regulations of the IRS Classification Societies.
- 1.4 The overall dimensions and weight of the equipment should be kept minimum consistent with the mechanical and electrical requirements.

2. CONSTRUCTION

The Battery Chargers shall be of dead front type, 14 SWG sheet conforming to IS-226 steel drip proof construction, suitable anti-vibration mounting for bulkhead mounting. Suitable brass cable entry glands are to be provided at the bottom on a detachable gland plate to take incoming and outgoing cables. The overall diameters of cables will be intimated in due course.


The Battery Chargers are to be painted with anti-corrosive/rust preventing primer and finished with non-glossy light battle ship grey paint.

The chargers shall be hinged type provided with adequate number of latches operated by Keys. The front door shall be fitted with suitable stopper.

LOUVERS shall be provided in suitable position for ventilation.

3. ELECTRICAL REQUIREMENTS

Transformer Rectifier -Cum Battery charger is to be suitable for following Service :-

 G.R.S.E. LTD. YARD NOS. 2072-79	STATEMENT OF REQUIREMENT FOR TRANS RECTIFIER CUM BATTERY CHARGER FOR DEAD SHIP CONDITION	REQUISITION NO. RN/2072-79/LW/071
		SHEET 4OF 5
DATE:		PREPARED BY:

- 3.1 Battery charger to comprise of a Transformer Rectifier of 240V AC/ 24 DC capable of charging lead acid Battery of 200 AH. Capacity 24V DC (2x12V)
- 3.2 Battery Charger is to be provided with charging/ Discharging indicating lamps, DC output Ammeters, Voltmeters and control fuses etc.

4. **WIRING**

Internal wiring shall be carried out with flexible copper conductor cable of LFH (Low Fire Hazard) type with minimum cross section of 1.5mm². An engraved circuit diagram shall be fixed inside the front cover.

5. **TALLY PLATES**

- 5.1 Tally Plates in English made of anodized aluminium shall be provided for all the devices on the chargers to identify clearly their functions.
- 5.2 A combined tally plate giving incoming and outgoing feeder details with capacity etc. shall be fixed inside the box.

6. **DOCUMENTATION**

- 6.1 6 (six) sets of Hard copies of drawings (**Mat.Code 782311990001**) listed below, to be provided per ship set.
 - a) General Arrgt. drawing with dimensions and fixing arrgt.
 - b) Circuit diagram alongwith details of PCB's & Components.
 - c) Terminal diagram showing the connections details.
- 6.2 6 (six) copies each of the above drawings should be submitted within 3 weeks of the placement of orders/ LOI for approval.

7. **INSPECTION**

- 7.1 Trans/Rectifier Cum-Battery Chargers will be accepted based on manufacturer's Test & Guarantee certificate.
- 7.2 Four copies of inspection/survey Certificates should be supplied.
- 7.3 Receipt Inspection – GRSE

 G.R.S.E. LTD. YARD NOS. 2072-79	STATEMENT OF REQUIREMENT FOR TRANS RECTIFIER CUM BATTERY CHARGER FOR DEAD SHIP CONDITION	REQUISITION NO. RN/2072-79/LW/071
		SHEET 5 OF 5
DATE:		PREPARED BY:

8. **GUARANTEE :**

The supplier will guarantee the equipment against all defects arising due to inferior/faulty material or bad workmanship for a period as stipulated in commercial part from the date of commissioning of the vessel.

During the guarantee/warranty period if any equipment or component thereof supplied by SUPPLIER suffers due to defective material and/or due to improper design and/or due to defective drawing or due to faulty workmanship, SUPPLIER shall assume full responsibility of rectification/replacement of such defective equipment or components thereof including all direct expenses, relating to removal and repositioning of the replacement / repaired equipment or components thereof and subsequent test and trial, incurred thereto.

9. **PRODUCT SUPPORT**

The manufacturers shall repair/maintain the equipment for a minimum period of 20 years from the date of delivery of respective vessels.

-----X-----



Garden Reach Shipbuilders & Engineers Limited

REGD. OFFICE: - 43/46, Garden Reach Road

KOLKATA - 700 024

(Govt. of India Undertaking – Under Ministry of Defense)

Ph: 2469-8127(D) / 2469 8100 to 8113 Fax :: +91 33 2489 3591/2469 8150

E-Mail No: matlgrse@cal3.vsnl.net.in

SPECIAL TERMS & CONDITIONS OF THE E-TENDER NO. NCM/2072-79/L-37/ET-45

1. Offers shall remain valid and open for acceptance for 120 days from the due date of opening.

2. **Specification:**

The scope of supply will be as per SOR No.RN/2072-79/LW/071.The present requirement is for GRSE Yard No.2072 – 79, i.e., for 8 ships.

3. **Terms of Price:**

a. Quoted Price shall be firm and fixed till full execution of order and shall be on **F.O.R. GRSE Stores at Kolkata basis**. Price quoted should be in INR and inclusive of all charges for proper packing. **Freight charges will be borne by the supplier.**

b. **Transportation & Way Bill:** Materials are to be dispatched by road. Ink-signed invoice and copy of consignment note are to be submitted through courier immediately within 3 days after dispatch for arranging “Way-Bill” without delay. Invoice must incorporate value of goods, amount of sales tax separately as well as both CST and State Sales Tax Registration Nos. consignment note must incorporate relevant Invoice no./date.

4. **Taxes:** West Bengal VAT/CST payable extra by GRSE should be clearly indicated in the offer.

5. **EXCISE DUTY:** The equipment and all items to be supplied are meant for constructions of Indian Coast Guard Ships are exempted from payment of Excise Duty. Excise duty Exemption Certificate from the competent authority of Indian Coast Guard will be provided by GRSE.

6. **Guarantee:** - The materials shall be guaranteed/warranted for satisfactory performance for a period of 12 months from the date of commissioning of the vessel or 36 months from the date of receipt at GRSE, whichever is earlier, against improper design, defective materials and faulty workmanship. The successful bidder has to submit a certificate to this effect at the time of delivery and claiming payment. If during the guarantee/warranty period any equipment or component thereof supplied by the vendor/sub-contractor suffers due to defective material, improper design and/or faulty workmanship, the vendor/sub-contractor shall be responsible to arrange for rectification of such defective equipment and/or components thereof. And all expenses involved towards rectification/repair/replacement either at the vendor's

premises or otherwise shall be to the OEM's account. There shall be no financial impact on GRSE.

7. **L.D. Clause:-** In the event of delay in supply beyond the contractual delivery period, Liquidated Damages will be imposed @ ½% per week or part thereof on the undelivered material/work subject to a maximum of 5% of the order value of the delayed part.
8. **Risk Purchase/ Cancellation of Order:** - In case of unsatisfactory progress of supply at any point of time after placement of order GRSE reserve the right to cancel the order without assigning any reason and to procure the ordered material from any alternative source at your complete risk and cost.

GRSE also reserves the right to cancel the order forthwith without any financial implications on either side if upon lapse of 50% of the scheduled delivery time the progress of manufacture is not up to the satisfaction of GRSE/Owner and the failure on the part of the sub-contractor/supplier/vendor to conform to the delivery schedule is inevitable.

9. **Payment Terms:-**

- a) 90% will be through ECS/EFT, against ink signed invoice duly accompanied with inspection certificate and guarantee certificate together with receipted CHALLAN duly stamped by GRSE.
- b) Balance 10% payment will be made on submission of bill through ECS supported with clear receipt inspection certificate and guarantee certificate together with Performance Bank Guarantee as per GRSE format, which shall remain valid till the expiry of the guarantee period.

Note:

- i. All bills/invoice for payments are to be submitted with all relevant documents to Manager (SLP) under intimation to us at NCM
- ii. For balance payment copy of clear ICGRN [Inspection cum Goods Receipt Note of GRSE] shall accompany your invoice and be sent to Manager (F-SLP) for release of payment.

Note:

- a. Payments will be made through ECS
- b. Bills must be submitted as per the relevant points of the enclosed check list. A transaction fee of Rs.500/- in case of first return where the bills are submitted with faulty/incomplete enclosures and a transaction fee of Rs.1000/- shall be charged for each subsequent return due to inappropriate documents.

10. **Force Majeure Clause:** *Standard Force Majeure Clause as per format approved by the Ministry of Law will be applicable. The failure of the sub-contractors of the suppliers shall not be accepted as a Force Majeure Condition. Vendor is to submit relevant proof / document well in time to buyer to inform F.M. condition. Power failure will not be treated as a force majeure condition.*

11. **Delivery:** Items are required to be delivered as per following schedule:-

Schedule of Delivery

Sl.No	Yard No.	Delivery Required
01	2072	} September' 2010
02	2073	
03	2074	} March'2011
04	2075	
05	2076	
06	2077	} September'2011
07	2078	
08	2079	

12. Quality Assurance and Inspection:

(A) Trans Rectifier cum Battery Charger will be accepted based on manufacturer's test and guarantee certificate.

(B) Receipt inspection will be done by GRSE (RIC)

13. Acceptance Format. This will be downloaded from the RFQ and after due completion the same will be attached to the e-quotation by the vendor to facilitate the buyer to know at a glance the acceptance or deviation by the vendor regarding the commercial terms & conditions of the RFQ (e-tender).

14. Special Notes : (i) As a general rule, price negotiation with L-1 vendor(s) will not be entered into as far as possible, unless warranted by unreasonable price quoted in the opinion of GRSE.

(ii) Please forward your confirmation on all commercial points for acceptance of your offer in tender sheet.

(iii) In case your offer is not submitted in two separate given data sheet , the same is liable to be rejected.

15. Other terms & Conditions, unless otherwise specified, will be as per the General Terms & Conditions of Supply (STACS) attached.

******End of Document******