



**Garden Reach Shipbuilders & Engineers Limited**

**DIESEL ENGINE PLANT**

(A Govt. of India Undertaking, Ministry of Defence), An ISO 9001-2015

Plant Plaza Road, Dhurwa, Ranchi - 834 004

CIN L35111WB1934GOI007891

Website: [www.grse.in](http://www.grse.in)

Phone: 0651 – 240 1434 / 240 1428, Fax: + (91) 0651-2446895

**Tender No-DEP/ST/ST/P-23/Exhaust WaterSeparator/ET-1713**

**NOTICE INVITING TENDER**

**Tender No.: DEP/ST/ST/P-23/Exhaust WaterSeparator/ET-1713.**

**Dated-14.08.2021**

***For Supply of Item: WATER SEPARATOR FOR EXHAUST & IRSS SYSTEM FOR 1MW DA OF P17A SHIPS.(MDL Yard Nos. 12651,12652, 12653, 12654 & GRSE Yard Nos. 3022, 3023, 3024)***

**Tender Submission start Date and Time: 14.08.2021 at 1200 Hrs.**

**Tender Submission End Date and Time: 28.08.2021 at 1200 Hrs.**

**Tender Opening Date and Time: 30.08.2021 at 1400 Hrs.**

**SINGLE E-TENDER ENQUIRY**

**1. INSTRUCTION TO BIDDERS:-**

(a) **Bids in single stage two bid system (Part-I: Techno-Commercial Bid and Part-II: Price Bid) are invited for Supply of WATER SEPARATOR FOR EXHAUST SYSTEM WITH IRSS DEVICE FOR 1 MW DIESEL ALTERNATOR FOR P17A (MDL Yard Nos. 12651,12652,12653,12654 & GRSE Yard Nos. 3022, 3023, 3024) at DEP RANCHI.**

(i) Part - I: Techno-Commercial bid (it must contain only technical & commercial points and should not contain any price. If any price is indicated in Part-I, the offer will be treated as CANCELLED). **ANNEXURE- A & B** and **ANNEXURE-D** (acceptance format matrix of SOTR) and **ANNEXURE-E** (acceptance format matrix for STACS).

(ii) Part - II: Price bid (containing only price): **ANNEXURE – C.**

(iii) Nature of Tender: **SINGLE (M/s DECIMIN CONTROL SYSTEMS PVT LTD., Pune- 411037)**

**2. The supply is to be carried out as per Statement of Technical Requirement (SOTR) in ANNEXURE-I.**

**3. Tender Fees: NA**

**4. EMD: NA**

**5. SECURITY DEPOSIT (INTEREST FREE):**

(a) Successful bidder will deposit an amount equivalent to 3% of the total contract value, as interest free Security Deposit in the form of Pay Order/duly crossed favouring GRSE Ltd. payable at Ranchi or Bank Guarantee (as per GRSE format **ANNEXURE-IV**) on any Scheduled Bank other than Co-operative Bank, within 15 days of placement of Purchase Order/LOI, whichever is earlier. Bank Guarantee as per GRSE format towards security deposit will have to be submitted fresh.

(b) SD submitted in the form of BG should be forwarded directly to AGM (I/C-DEP), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004, in Banker's sealed envelope

(c) Security Deposit to be kept valid till completion of installation and commissioning.



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- (d) Non-submission of Security Deposit within the stipulated time would entitle GRSE to claim interest at SBI Prime Lending rate prevailing at the time of such imposition on the amount of Security Deposit to be submitted from the due date of submission till the date of actual submission of the same. GRSE may recover such interest from the bills of the Contractor/Successful Bidder for which no separate notice shall be issued.
  - (e) GRSE reserves the right to invoke the above BG at any time during its validity period in the event of any breach of terms stipulated in the order.
  - (f) Vendors are required to follow the guidelines for submission of BG at Annexure-III.
  - (g) The vendors registered with NSIC under single point registration for manufacture/supply of concerned equipment/item, will additionally be exempted from submitting the security deposit, as may be notified from time to time by Directorate of MSME. NSIC document, Entrepreneurs Memorandum (EM Part-II) for manufacture/supply of concerned equipment/item, must be submitted along with the offer for such purpose to claim the benefit.
6. **Queries if any may be clarified from DEP, Ranchi prior to submission of offer. Email- [tigga.sudarshan@grse.co.in](mailto:tigga.sudarshan@grse.co.in)**
7. In case tenderer has any query regarding e-tender procedure / DSC, they may contact GRSE E-Procurement Cell helpdesk (email: [mtl.eproc@grse.co.in](mailto:mtl.eproc@grse.co.in); Ph.: +91 33-24893902 / +91-33-2469-8100-15, Ext: 221 / 315). Bids are to be submitted through e-tender only. Vendors are also requested to check with GRSE E-Procurement Portal (<https://eprocuregrse.co.in>).
8. **E-Mail Address for communication:** Vendor should have a computer with suitable internet connection & e-mail address to enable better communication with various offices of GRSE.
9. Last date of submission of Bid / Date of opening of bid is indicated in Tender Document.
10. Date of opening of offer (Price Bid) will be notified in due course after conclusion of TNC/CNC meetings and acceptance of Techno-Commercial offer.
11. GRSE reserves the right to accept / reject any bid in full or in part, at any stage, without assigning any reason thereof.
12. **e-Bid instruction:**
- (a) To participate in the e-Bid submission for GRSE, it is mandatory for the bidders to get their firms registered with E-Procurement portal <https://eprocuregrse.co.in>.
  - (b) It is mandatory for all bidders to have class – III Digital Signature Certificate (DSC) in the name of the person who will digitally sign the bid from any of licensed Certifying Agency (CA). Bidders can see the list of licensed CAs from the link <http://www.cca.gov.in>.
  - (c) Bidders can view / download Part-1 (Techno-Commercial) bid documents along with all attachments. They need to fill up the downloaded documents as per instruction and upload the same during bid submission. Non-acceptance of any techno-commercial criteria is discouraged. However, if there is any, it is to be commented accordingly and also stated in the separate deviation format.
  - (d) Bidders need to fill up Part II (Price) bid online in Excel Template price bid format by inserting unit price only. No other attachment to the price bid will be reckoned.
  - (e) In case the bidder does not quote his rate for any item(s), it will be presumed that the bidder has included the cost of that/those item(s) in the rates of other items and the rate for such



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item(s) shall be considered as **Zero** and the tender will be evaluated by the Employer accordingly and the work executed by the successful bidder accordingly.

- (f) Bids can be submitted only during validity of registration of bidder with GRSE E-Procurement portal.
- (g) The amendments / clarifications to the bid document, if any, will be posted on E-Procurement portal / GRSE web site only.
- (h) It will be the bidder's responsibility to check the status of their Bid on-line regularly after the opening of bid till award of work.

**NOTE:** Bidders are requested to submit their offer much in advance of due date to avoid last minute traffic / mistakes. GRSE shall not be responsible for any delay thereby, no requests for extension shall be entertained from last-day bidders.

**LIST OF ENCLOSURES:-**

- ANNEXURE I : STATEMENT OF TECHNICAL REQUIREMENT (SOTR)
- ANNEXURE II : STANDARD TERMS & CONDITIONS (STAC)
- ANNEXURE III : GUIDELINES FOR BANK GUARANTEE
- ANNEXURE IV : FORMAT FOR SD BG
- ANNEXURE V : FORMAT FOR PERFORMANCE BG
- ANNEXURE VI : INTEGRITY PACT
- ANNEXURE VII : ECS FORMAT

**FOLLOWING ANNEXURES (EXCEL SHEETS) ARE IN E-BID:**

- ANNEXURE- A : TECHNICAL BID
- ANNEXURE- B : COMMERCIAL BID
- ANNEXURE- C : PRICE BID
- ANNEXURE- D : ACCEPTANCE MATRIX for SOTR (ANNEXURE-I )
- ANNEXURE- E : ACCEPTANCE MATRIX FOR STAC (ANNEXURE-II)

**NOTE:** It is mandatory to submit duly filled Annexures A, B, C, D & E (Excel sheets) in E-bid for consideration of the bid. If not complied, the bid may be rejected outright.



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**ANNEXURE – I**

**STATEMENT OF TECHNICAL REQUIREMENT (SOTR)**

- A. Item details with delivery schedule: **TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM** for 1MW DA and vendor has to deliver the items as per delivery schedule mentioned below:

| <b>[I] For Yard No.12651</b>  |   |            |            |   |
|-------------------------------|---|------------|------------|---|
| <b>Item</b>                   | <b>Material Description</b>   | <b>UoM</b> | <b>Qty</b> | <b>Required Delivery date at DEP, Ranchi / Shipyard</b> |
| 1                             | <b>Titanium Water separator with Drain system:</b> Design, Develop, Manufacture & supply of Water Separator along with draining facility through DA Ship side exhaust overboard (Material Titanium Gr.2) and Integration of Water separator with existing DA Ship side Exhaust & IRSS system, along with On Board Spares (OBS), special tools and test equipment as per attached Scope of Work. | EA         | 4          | 01.05.2022  |
| 2                             | Installation  | AU         | 1          | 01.08.2022  |
| <b>[II] For Yard No.12652</b> |   |            |            |   |
| <b>Item</b>                   | <b>Material Description</b>   | <b>UoM</b> | <b>Qty</b> | <b>Required Delivery date at DEP, Ranchi / Shipyard</b> |
| 1                             | <b>Titanium Water separator with Drain system:</b> Design, Develop, Manufacture & supply of Water Separator along with draining facility through DA Ship side exhaust overboard (Material Titanium Gr.2) and Integration of Water separator with existing DA Ship side Exhaust & IRSS system, along with On Board Spares (OBS), special tools and test equipment as per attached Scope of Work. | EA         | 4          | 01.05.2022  |
| 2                             | Installation  | AU         | 1          | 01.10.2022  |



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| <b>[III] For Yard No.12653</b> |   |            |            |   |
|--------------------------------|---|------------|------------|---|
| <b>Item</b>                    | <b>Material Description</b>   | <b>UoM</b> | <b>Qty</b> | <b>Required Delivery date at DEP, Ranchi / Shipyard</b> |
| 1                              | <b>Titanium Water separator with Drain system:</b> Design, Develop, Manufacture & supply of Water Separator along with draining facility through DA Ship side exhaust overboard (Material Titanium Gr.2) and Integration of Water separator with existing DA Ship side Exhaust & IRSS system, along with On Board Spares (OBS), special tools and test equipment as per attached Scope of Work. | EA         | 4          | 01.07.2022  |
| 2                              | Installation  | AU         | 1          | 01.12.2022  |
| <b>[IV] For Yard No.12654</b>  |   |            |            |   |
| <b>It</b>                      | <b>Material Description</b>   | <b>UoM</b> | <b>Qty</b> | <b>Required Delivery date at DEP, Ranchi / Shipyard</b> |
| 1                              | <b>Titanium Water separator with Drain system:</b> Design, Develop, Manufacture & supply of Water Separator along with draining facility through DA Ship side exhaust overboard (Material Titanium Gr.2) and Integration of Water separator with existing DA Ship side Exhaust & IRSS system, along with On Board Spares (OBS), special tools and test equipment as per attached Scope of Work. | EA         | 4          | 01.09.2022  |
| 2                              | Installation  | AU         | 1          | 01.05.2023  |



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| <b>[V] For Yard No. 3022</b>  |   |            |            |   |
|-------------------------------|---|------------|------------|---|
| <b>Item</b>                   | <b>Material Description</b>   | <b>UoM</b> | <b>Qty</b> | <b>Required Delivery date at DEP, Ranchi / Shipyard</b> |
| 1                             | <b>Titanium Water separator with Drain system:</b> Design, Develop, Manufacture & supply of Water Separator along with draining facility through DA Ship side exhaust overboard (Material Titanium Gr.2) and Integration of Water separator with existing DA Ship side Exhaust & IRSS system, along with On Board Spares (OBS), special tools and test equipment as per attached Scope of Work. | EA         | 4          | 01.06.2022  |
| 2                             | Installation  | AU         | 1          | 01.09.2022  |
| <b>[VI] For Yard No. 3023</b> |   |            |            |   |
| <b>It</b>                     | <b>Material Description</b>   | <b>UoM</b> | <b>Qty</b> | <b>Required Delivery date at DEP, Ranchi / Shipyard</b> |
| 1                             | <b>Titanium Water separator with Drain system:</b> Design, Develop, Manufacture & supply of Water Separator along with draining facility through DA Ship side exhaust overboard (Material Titanium Gr.2) and Integration of Water separator with existing DA Ship side Exhaust & IRSS system, along with On Board Spares (OBS), special tools and test equipment as per attached Scope of Work. | EA         | 4          | 01.09.2022  |
| 2                             | Installation  | AU         | 1          | 01.11.2022  |



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| [VII] For Yard No.3024 |   |     |     |  |
|------------------------|---|-----|-----|--|
| Item                   | Material Description  | UoM | Qty | Required Delivery date at DEP, Ranchi / Shipyard |
| 10                     | <b>Titanium Water separator with Drain system:</b> Design, Develop, Manufacture & supply of Water Separator along with draining facility through DA Ship side exhaust overboard (Material Titanium Gr.2) and Integration of Water separator with existing DA Ship side Exhaust & IRSS system, along with On Board Spares (OBS), special tools and test equipment as per attached Scope of Work. | EA  | 4   | 01.12.2022                                       |
| 20                     | Installation  | AU  | 1   | 01.06.2023                                       |

**B. Following needs to be comply for manufacturing:**

**1. VALIDITY PERIOD OF OFFER:**

(i) **Main Equipment & Services:** Bid / Offer shall have the validity period of **180 days** from the tender closing date.

**2. DELIVERY PERIOD/COMPLETION SCHEDULE:**

(i) Delivery Schedule is as under:

| Yard No. | Shipyard | Description    | Main Equipment delivery date |
|----------|----------|----------------|------------------------------|
| 12651    | MDL      | Main Equipment | 01.05.2022                   |
|          |          | Services       | 01.08.2022                   |
| 12652    | MDL      | Main Equipment | 01.05.2022                   |
|          |          | Services       | 01.10.2022                   |
| 12653    | MDL      | Main Equipment | 01.07.2022                   |
|          |          | Services       | 01.12.2022                   |
| 12654    | MDL      | Main Equipment | 01.09.2022                   |
|          |          | Services       | 01.05.2023                   |
| 3022     | GRSE     | Main Equipment | 01.06.2022                   |
|          |          | Services       | 01.09.2022                   |
| 3023     | GRSE     | Main Equipment | 01.09.2022                   |
|          |          | Services       | 01.11.2022                   |
| 3024     | GRSE     | Main Equipment | 01.12.2022                   |
|          |          | Services       | 01.06.2023                   |

**Note-** Delivery schedule mentioned as above and in tender is tentative however exact timelines will be finalized during TNC.



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- (ii) Binding Data is to be supplied by the OEM within 01 month of placement of order. QAP (**Quality Assurance Plan**) needs to be submitted by the firm to DEP, GRSE Ranchi within 1 week on approval of binding data as per naval standard (QAD standard) for approval by DQA (WP) or QAE agency.

**3. WARRANTY/GUARANTEE:**

- (i) The system supplied shall be warranted to be free from design manufacturing or performance deficiencies for a period of 48 months from the date of delivery to yard or 24 months from the date of commissioning of system whichever is later.
- (ii) The Supplier cannot absolve their responsibility for warranty of material even though it is inspected by & approved by the inspection authorities.
- (iii) If the defects are not remedied within a reasonable/stipulated time, DEP Ranchi may proceed to rectify the defects at the supplier's risk & cost, but without prejudice to DEP's rights under the contract.
- (iv) During the period of warranty / guarantee if any defect noticed in the equipment / item supplied, the supplier/ contractor will have to rectify such defects immediately at no extra cost to DEP Ranchi.

**4. INSPECTION:** It shall be as per the SOTR and TENDER. Other general conditions related to inspection of material are as under:

- (i) The decision of the Inspecting Authority or their representatives, as the case may be, on any question of the intent, meaning and the scope of Specifications / Standards shall be final, conclusive and binding on the Bidder/ Supplier / Contractor.
- (ii) Inspection Charges: Prices quoted should be inclusive of Class Inspection Charges (IRS/ABS/LRS etc.) for Drawing Approval / QAP approval / Type Test / FAT / In-process Inspection / On board Inspection wherever applicable as per Class Rule / SOTR requirement and will be arranged and paid by the Supplier directly to the Classification Agency.
- (iii) Inspection Authority: DQA(WP) / QAE Agency or any NAVAL agency or other agency Nominated by DQA(WP) and inspection will be carried out at supplier's premises.
- (iv) The Bidder / Supplier / Contractor shall accord all facilities to Purchaser's Inspectors / Nominated Agency to carry out Inspection / Testing during course of manufacture / final testing.
- (v) Bidder shall directly offer for inspection agency through a call letter under intimation to us and ensure readiness of the items offered for inspection on the scheduled date & time.
- (vi) Receipt Inspection: MDL /GRSE with Warship Overseeing Team (WOT) shall carry out necessary inspection of the items on receipt in the MDL/GRSE on the basis of appropriate MDL/GRSE Inspection system requirements & the Inspection documents submitted by suppliers. Any objection raised by MDL/GRSE inspection team against quality of material or workmanship shall be satisfactorily corrected by the supplier at his expenses including replacement as may be required within shortest possible time within 30 days. Items damaged during transit shall also be rectified or replaced by the supplier within shortest



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possible time.

- (vii) Rejection of the material: Any portion of the equipment found defective/rejected, the supplier shall collect the same at his cost from the MDL/GRSE Yard, all incidental charges being born by supplier, (inclusive of custom duty, if payable), within 30 days from the date of intimation to the supplier of such rejection. The MDL/GRSE reserves the rights to dispose-off the rejected item at the end of a total period of 90 days in any manner, to the best advantage to the MDL/GRSE & recover storage charges & any consequential damages, from sale proceeds of such disposal.
- (viii) Inspection testing shall be carried out Individual for each Ship Side Exhaust & IRSS system.
- (ix) **FATs-(Factory Acceptance Trials) / ATP (Acceptance Test Procedure):**
  - (a) In order to verify its correct design, manufacturing and operation, the Ship Side Exhaust & IRSS system shall be subjected to Factory Acceptance Trials. Factory Acceptance Trials should include the Production Test in accordance with Def Stan 313. A detailed FATs program and post-test inspections to demonstrate performance characteristics and guaranteed parameters of the equipment shall be prepared and submitted by the supplier for approval.
  - (b) All the parameters/performance required to be checked during HATs/SATs must be included in the FATs & duly noted.

**5. Delivery Terms:** Items to be delivered to MDL, Mumbai and GRSE, Kolkata on F.O.R. basis.



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#### **C. Description and scope of work:**

##### **PREAMBLE**

1. The changes to the specification of the DA IRSS were warranted to meet the evolving requirements brought in by the end customer (Indian Navy) to meet the end use requirements. The subject of this specification is to specify the GROWTH in 'Scope of Work' (SoW). It also covers the details pertaining to evaluations and testing of the equipment.

##### **FUNCTIONAL DESCRIPTION OF IRSS AND WATER SEPARATOR**

2. The exhaust gas water separator comprises a droplet separator to separate out water droplets from the stream of mixture of exhaust gas and water droplets. The stream of mixture of exhaust gas and water droplets from the IRSS enters into the droplet separator through the inlet flange. The gas then enters into the droplet/ water separator, the gases then enter into the diverging cone. The gases without any water droplets are finally exhausted to the atmosphere through the outlet of the droplet separator. The water droplets collected at the bottom of the main body shell are carried out of the droplet separator using the plurality of drain pipes. The water coming from all the plurality of drain pipes is collected in the drain header which further carries water to overflow discharge line. The design of the water separator shall be such that the exhaust gas entering the inlet flange of the droplet separator follows the path which has least resistance to its flow i.e. the gas follows the path that will have least pressure drop and exits through the outlet of the droplet separator.

##### **SCOPE OF WORK DUE TO THE DEVELOPMENTAL NATURE OF EQUIPMENT**

3. The growth in 'Scope of Work' from the original tendered Specifications are as follows:-

- (a) Design and manufacture of IRSS Device Prototype.
  - i) Development of a dynamic CAD model.
  - ii) Undertaking simulation of various operational scenarios & refinement and trouble shooting.
  - iii) Manufacturing of to-scale prototype along with necessary support auxiliaries to develop and reproduce the actual exhaust temperature and water injection throughput and temperature monitoring instrumentation.
- (b) Demonstration of the Prototype at Factory premises of Manufacturer with following:-
  - i) Evaluate the water and gas flow at ship side.
  - ii) Design of water separator
- (c) Incorporation of design changes for performance optimization based on factory trials.
  - (i) Water outflow at shipside exhaust should be at specified temperature and have a throw off less than 0.5 metre. The quantity of water throw at exit of IRSS, is to be minimised through design and development of a efficient water separator with a drain, which may be subsequently connected to the DA shipside exhaust overboard. The guiding staff requirement for indigenous development of a water separator is placed in **Annexure-A**
  - (ii) Demonstrate achievement of design exhaust gas flow and temperature performance with 'Water Separator' incorporated at ship side.



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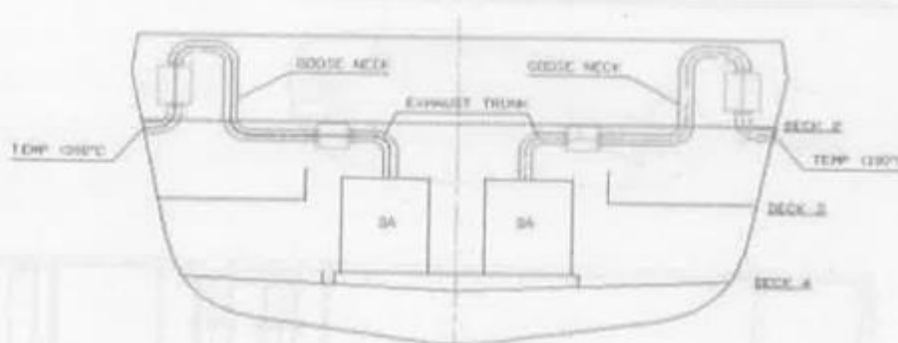
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- (d) Based on the above, conduct of two to three field trials prior freezing of the specifications.
- (e) Manufacture, supply and installation of 'Water Separator' along with IRSS device.
- (f) Provision of additional On Board Spares (OBS), special tools and test equipment is to be provided.

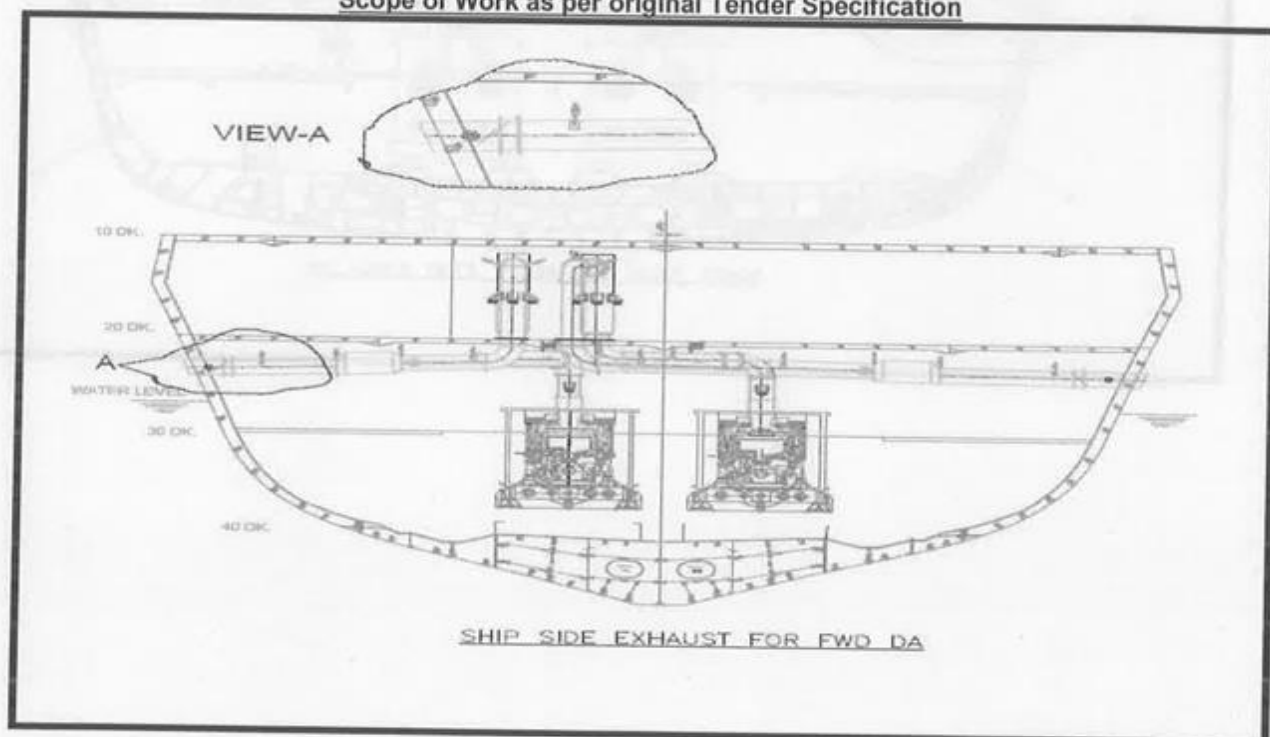
4. The design should ensure high reliability and economy of weight/space and meet the technical requirements of P17A frigate project of Indian Navy (IN).

The below figures are the pictorial representations of scope of work as per original MDL tender 1700000045 dated 16 Dec 2016 and the increased scope due to the developmental nature of equipment as per evolved requirements (post PO Placement) by the end customer (Indian Navy) is indicated in View B of Fig shown Revised schema for growth of work

**Sketch layout as per TSP**



**Scope of Work as per original Tender Specification**





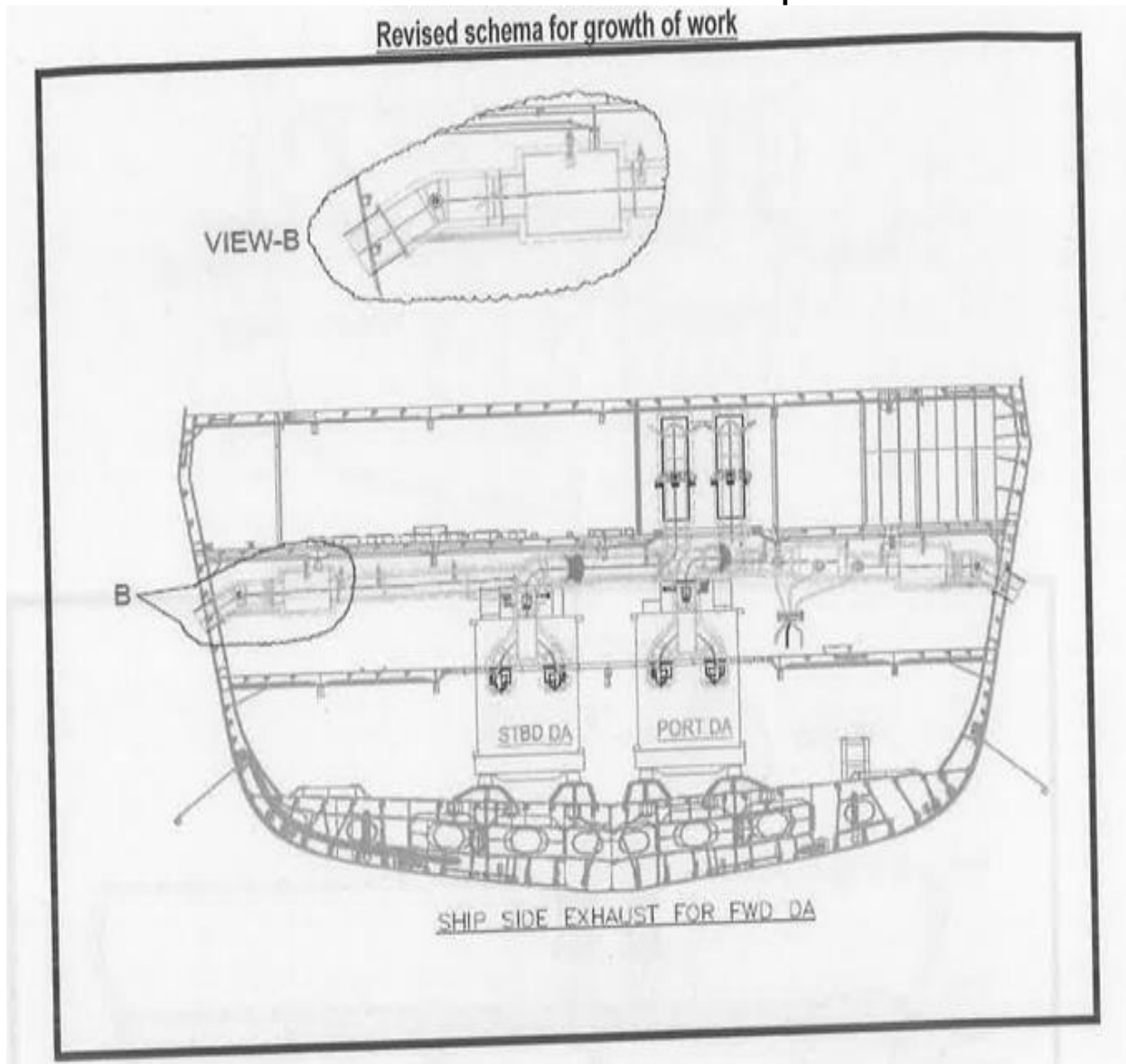
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Phone: 0651 – 240 1434 / 240 1428, Fax: + (91) 0651-2446895

**Tender No-DEP/ST/ST/P-23/Exhaust WaterSeparator/ET-1713**



**D. ADDITIONAL SCOPE FOR WATER SEPARATOR.**



**Garden Reach Shipbuilders & Engineers Limited**

**DIESEL ENGINE PLANT**

(A Govt. of India Undertaking, Ministry of Defence), An ISO 9001-2015

**Plant Plaza Road, Dhurwa, Ranchi - 834 004**

**CIN L35111WB1934GOI007891**

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**Tender No-DEP/ST/ST/P-23/Exhaust Water Separator/ET-1713**

**Annexure-A**

**ADDITIONAL SCOPE FOR WATER SEPARATOR.**

1. **Objective.** The Water Separator relates to the engine exhaust gases cooling system for suppressing infra-red radiation generated from high temperature exhaust gases.
2. The use of a water separator reduces quantity of water at exit of IRSS significantly. The main objective of the Water Separator is to separate out all the water droplets from the stream of mixture of gas and water droplets from the exhaust gas. At the same time, this water separator also needs to be light weight, resistant to corrosive marine environment and offers minimum resistance to the flow of exhaust gas. In addition, minimum pressure drop across the device is to be ensured in line with the engine exhaust performance parameters. The Water Separator should also be compact enough to fit into the limited space due to limitation in rerouting of the exhaust ducts.
3. Through design and development of a high-tech, super-efficient, light weight Water Separator, **projectile of cooling water coming out of the IRSS device needs to be eliminated.** The cooling water at outlet of Water Separator needs to be collected in a drain, which may be subsequently connected to the ship's overboard discharge.
4. **Essential Features.** The following requirements are to be fulfilled: -
  - (a) Should perform clog free operation.
  - (b) High corrosion resistance.
  - (c) Negligible/Low maintenance.
  - (d) Long Life (> 05 Years) without any degradation in performance.
  - (e) High efficiency of droplet separation.
  - (f) The material for Body Shell & flanges shall be Titanium Gr 2 to meet the high temperatures of DA Exhaust. (Approximate/expected exhaust temperature at water separator inlet will range from 310 deg C to 585 deg C from 25% load to 110% load respectively).
  - (g) Spiral/Cyclonic swirls & perforated Ti tubes are to be used inside the Water Separator.
5. Approximate dimensions of Body Shell of water separator along with flanges shall be as shown:-



## **Garden Reach Shipbuilders & Engineers Limited**

### **DIESEL ENGINE PLANT**

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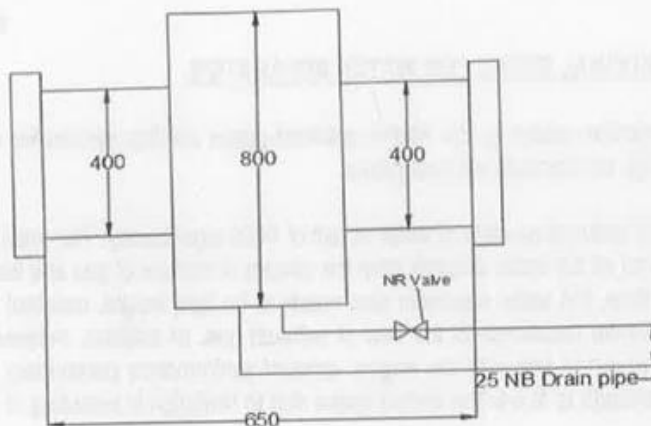
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### **Tender No-DEP/ST/ST/P-23/Exhaust Water Separator/ET-1713**



Flange- OD - 540 mm  
PCD – 495 mm  
ID – 409 mm  
Hole Dia & Qty – Ø 22\*16  
Flange thickness– 08 mm  
Mat – Titanium gr 2

6. A water 'Drain pipe' is to be incorporated for discharging overboard collected water from the water separator (Material Ti Gr 2) along with a non-return valve.

7. The Water Separator is able to separate the water from the mixture of exhaust and water (at inlet of water separator) provided through nozzles located in the silencer. The approx. calculation of flow rate of water through the separator is calculated below.

| Sr. No | Engine Load % | Mass flow rate(kg/min at 20 deg C) | Water injected (lpm) | Water outlet (lpm) | Water from Separator (lpm) |
|--------|---------------|------------------------------------|----------------------|--------------------|----------------------------|
| 1      | 20            | 44.5                               | 60                   | 52                 | 8                          |
| 2      | 50            | 62.08                              | 60                   | 58                 | 2                          |
| 3      | 75            | 84.41                              | 60                   | 47                 | 13                         |
| 4      | 100           | 105.36                             | 60                   | 41                 | 19                         |
| 5      | 110           | 126                                | 60                   | 32                 | 28                         |

#### **Note:-**

Modelling, simulation & validation followed by manufacturing of 01 prototype to scale is to be tested (factor in up to 03 rounds of design iterative spiral) before factory/batch processing & submission of revised binding data.

8. **Description.** Droplet separator includes an inlet, a diverging cone, a main body shell, a converging cone, a plurality of perforated tubes and an outlet. The inlet is connected to the second exhaust duct outlet with the help of an inlet flange through nuts and bolts. The inlet receives stream of mixture of exhaust gas and water droplets from the second exhaust duct outlet. The diverging cone is welded to the inlet flange on a truncated side and welded to the main body shell on a base side. The main body shell is then welded to the converging cone on the truncated side of the converging cone. The base side of the converging cone is welded to an outlet flange. The outlet flange can be connected to further ducts through nut and bolts. The plurality of specially designed perforated tubes is configured inside the main body shell. The main body shell includes a plurality of drain pipes welded to a bottom surface thereof. The plurality of drain pipes are further connected to a drain header.



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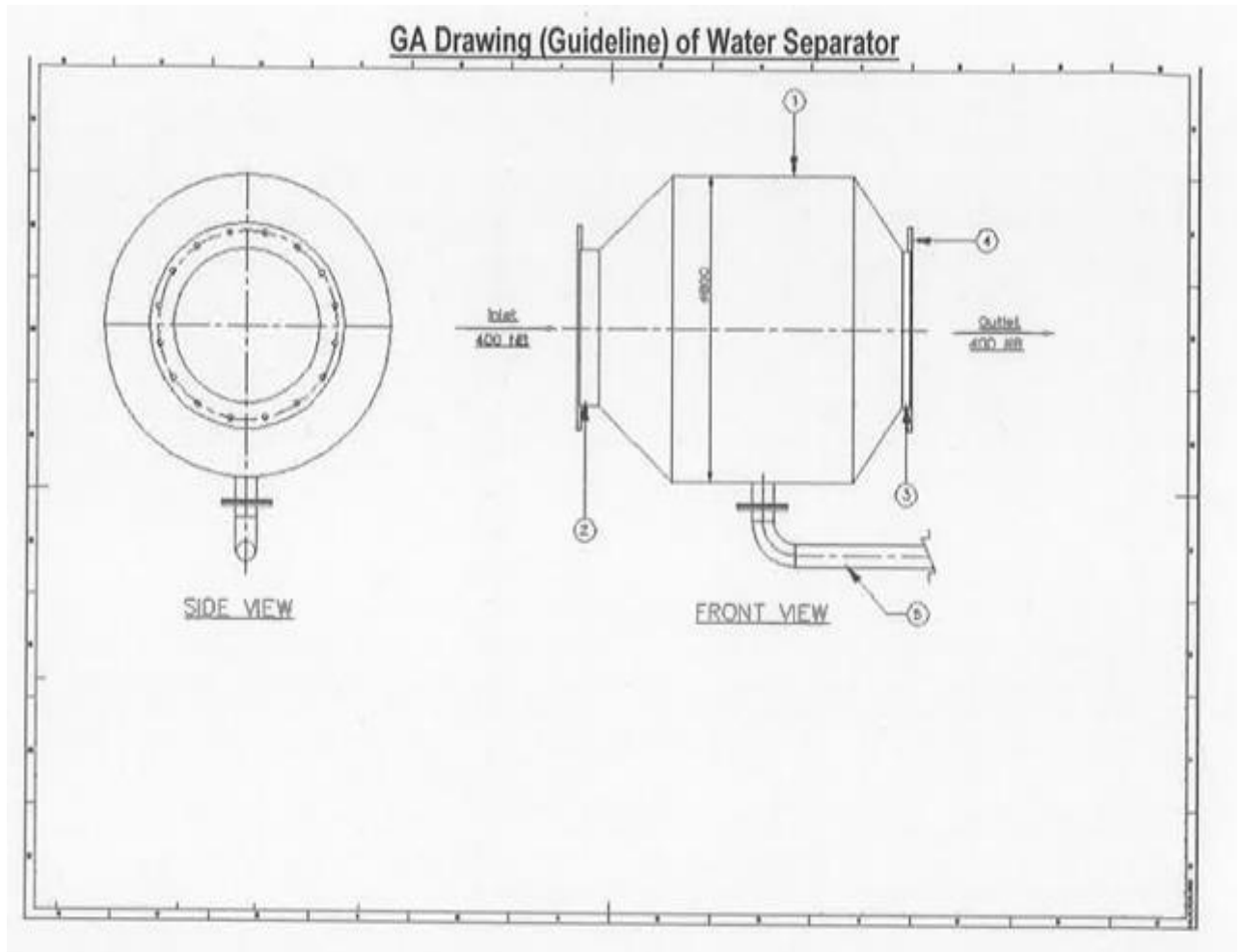
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**Tender No-DEP/ST/ST/P-23/Exhaust Water Separator/ET-1713**

**ANNEXURE-II**

**STANDARD TERMS AND CONDITIONS (STAC)**

1. The bid must be valid for **180 days** from the tender opening date.
2. The price quoted for the **TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM** shall remain firm and fixed till execution of the order in full. The price quoted must be legibly written both in words and figures. Price quoted should include proper packing to withstand air / inland transit, tropical storage during transit clearing and Scope of Supply as per Statement of Technical Requirement (SOTR).
3. GST shall be clearly indicated, separately, both in the commercial and the price bid.
4. **Performance Bank Guarantee:**
  - a) Successful bidder will deposit an amount equivalent to 3% of the total order value excluding taxes, duties freight & service component valid up to contractual warranty period plus one month claim period. Bank Guarantee as per GRSE format towards PBG will have to be submitted fresh.
  - b) In the event of defects due to poor workmanship leading to non-performance of the equipment/item and bidder failure to attend the defects within a reasonable period of time, the bank guarantee will be encashed by DEP Ranchi. DEP Ranchi's decision on this regard shall be final and binding on the bidder. In the event of postponing of delivery of deliverables or extension of guarantee desired & sought by DEP Ranchi, the performance bank guarantee has to be extended till the extended period.
  - c) PBG submitted in the form of B.G should be forwarded directly to AGM (I/C-DEP), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004, in Banker's sealed envelope. PBG to be kept valid till completion warranty period
  - d) Non-submission of PBG within the stipulated time would entitle GRSE to claim interest at SBI Prime Lending rate prevailing at the time of such imposition on the amount of PBG to be submitted from the due date of submission till the date of actual submission of the same. GRSE may recover such interest from the bills of the Contractor/Successful Bidder for which no separate notice shall be issued.
  - e) GRSE reserves the right to invoke the above BG at any time during its validity period in the event of any breach of terms stipulated in the order.
5. **Payment Terms:**
  - a) Payment of 97% of the value of the supplies against delivery and acceptance as may be payable and as reduced by any deductibles and / or the amount leviable towards liquidated damages, if any plus 100% taxes, duties etc. as applicable on production of proof of inspection, receipt and acceptance at MDL and GRSE within 20 days.
  - b) Payment of the balance of the value of the supplies may be payable and as reduced by any deductibles and / or the amount leviable towards liquidated damages, if any, on submission & confirmation of PBG of 3% of order value (excluding taxes, duties & services) amount valid up to warranty period plus one month.
  - c) **Services:** 100% payment for all kinds of services like STW, HAT, SAT, installation, commissioning assistance, training wherever included in the same order will be admissible



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for payment **between 15 to 20 days** against certification by the designated acceptance authority after satisfactory completion of the respective activities/services and submission of the invoice with relevant documents.

d) **Advance Payment:** No advance payment will be made.

**6. Liquidated damage:**

- a) For delay in delivery beyond the scheduled delivery date, L.D. will be imposed, @ 0.5% of undelivered portion per week or part thereof, subject to a maximum of 5% of the delayed portion of the order/contract. In case the undelivered / unfinished portion of the order results into non-utilization / ineffective utilization of delivered portion, in such cases LD shall be applicable on the total value of deliverables.value of PO.
- b) LD @ 0.25% per week delay or part there of subject to maximum of 1% of total order value will also be recovered in case of delay in submission of Binding data, Drawings & QAP to the concern authority for approval. However, this LD shall not be applicable in case the ordered items are delivered as per scheduled delivery date.
- c) The initial submission of the Layout drawing, manufacturing drawing & QAP shall be of acceptable quality in the opinion of the concerned approving authority.

7. **Risk purchase:** If successful tender fails to supply material within the stipulated delivery date, GRSE reserves the right to procure same or equivalent materials from alternative sources at the vendors risk, responsibility and cost. Any extra cost incurred in the procurement of the material from alternative sources will be recovered from the successful bidder and if necessary, by due legal process.

8. GRSE reserves the right to accept / reject any Tender in full or in part without assigning any reason.

9. No Conditional offer will be accepted.

10. **Individuality of contract:** This Contract should be treated as an individual contract and should not be related with other orders with GRSE in respect of progress of work or payment.

11. **Registration of approved vendor:** The contractor is to confirm whether they are registered with GRSE as approved Vendor and Indicate Supplier's Code (5 digits) and product Code group. If not an approved vendor, provisional vendor registration code is to be taken from GRSE Vendor Registration Cell prior to placement of order.

12. **Correction of errors:** Bids determined to be responsive will be checked by the Employer for any arithmetic error. Errors will be corrected by Employer as follows:

- a) Where there is a discrepancy between the rate in figures and in words, the rate in words will govern.

13. **Delivery Terms:** Items to be delivered to MDL, Mumbai and GRSE, Kolkata on F.O.R. basis.

14. **Mode of dispatch:** Road/Rail/Air/Sea.



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15. **Consignee:** Material scheduled for delivery are to be delivered at M/s MDL, Mumbai & M/s GRSE, Kolkata. However, exact details will be indicated in purchase order.

|  |  |
|--|--|
| <b>MDL:</b><br>MDL's either of Anik / Sewri / Bind / Electronic store located in Mumbai. However, exact details will be indicated in purchase order. | <b>GRSE:</b><br>Main unit, 43/46, Garden reach road, Kolkata-700024, Garden Reach Shipbuilders & Engineers Limited.<br>Ph: 033-24698100, Fax: 033-24698150 |
|--|--|

16. **Secrecy clause:** All information given to the supplier for the execution of the order is to be related as Secret / Confidential. The technical information, drawings, specification and order related document forming part of this enquiry / order are the property of the Purchaser and shall not be used for any other purpose except for execution of the order.

17. **WARRANTY/GUARANTEE:**

- The system supplied shall be warranted to be free from design manufacturing or performance deficiencies for a period of 48 months from the date of delivery to yard or 24 months from the date of commissioning of system whichever is later.
- The Supplier cannot absolve their responsibility for warranty of material even though it is inspected by & approved by the inspection authorities.
- If the defects are not remedied within a reasonable/stipulated time, DEP Ranchi may proceed to rectify the defects at the supplier's risk & cost, but without prejudice to DEP's rights under the contract.
- During the period of warranty / guarantee if any defect noticed in the equipment / item supplied, the supplier/ contractor will have to rectify such defects immediately at no extra cost to DEP Ranchi.

18. **Force majeure:**

- In the event of contractor being unable to fulfil the obligation under the agreement owing to force majeure, such as War, Fire, Earthquake, Flood, Strike, Lockout at GRSE premises where the contractor is working, the party affected shall not be held responsible for any failure or non-performance of the duties and obligations under the agreement, provided that all responsible efforts have been made to overcome the consequences of such failure, or non-performance. The time for performances of the contractual obligation shall then be extended by period not more than the duration of such events.
- In the event of Force Majeure condition existing at contractor's site in GRSE Premises or CPT areas for GRSE work, GRSE is to be intimated with details of such happenings and cessations thereof, within 3 days. Force Majeure is to be limited to contractor's site in GRSE/CPT premises for GRSE's work only. Lock out/Closure of contractor's factory premises or office or any other place outside GRSE/CPT/GRSE nominated place as indicated above cannot be considered as a Force Majeure condition under this contract.

19. **Arbitration:**

- If at any time, before during or after the contract period, any unsettled claim, question, dispute or difference arises between the parties, upon or in relation to or in connection with or in any way touching or concerning this order, the same shall be settled/adjudicated through Arbitration to be conducted by a Sole Arbitrator, to be appointed by the parties



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on mutual consent, in accordance with the provisions of the Arbitration and Conciliation Act, 1996.

- b) In the event the parties fail to mutually appoint a Sole Arbitrator within 30 days from the receipt of a request by one party from the other, then either of the parties may approach the Hon'ble High Court at Calcutta under the provisions of the Arbitration and Conciliation Act, 1996 for appointment of a Sole Arbitrator by the Hon'ble Court .
- c) Such arbitration shall, in all respects, be conducted in accordance with the provisions of the Arbitration and Conciliation Act, and the rules framed there under or any statutory modification or re-enactment thereof for the time being in force.
- d) The Award of the Sole Arbitrator shall be final, conclusive and binding upon the Parties.
- e) In the event of the death or resignation or incapacity or whatsoever of the said Sole Arbitrator if appointed by the parties mutually the said parties may again appoint a suitable Substitute Arbitrator in place of the erstwhile Sole Arbitrator to continue with the proceedings. In the event of appointment of the Sole Arbitrator by the Hon'ble High court at Calcutta on death or resignation or incapacity or whatsoever of the said Sole Arbitrator, either of the parties in this behalf, may make an application to The Hon'ble High court at Calcutta for appointment of a Substitute Arbitrator and the Hon'ble Court may pass such orders as it deems fit and proper.
- f) Also in the event an Arbitration award is set aside by a competent court the parties may appoint a Sole Arbitrator mutually or on failing to appoint a Sole Arbitrator mutually within the statutory period then either of the parties may file an application before the Hon'ble High Court at Calcutta under the provisions of the Arbitration and Conciliation Act, 1996 for appointment of a Sole Arbitrator by the Hon'ble Court in accordance with the provisions of the Arbitration & Conciliation Act.
- g) The cost of the arbitration, fees of the arbitrator, remuneration of the stenographer and clerk, stamp paper etc. shall be shared equally by the parties, unless otherwise directed by the Sole Arbitrator. The venue of arbitration shall be at Kolkata and unless otherwise decided by the parties or by the Sole Arbitrator himself, the venue shall be the premises of Garden Reach Shipbuilders & Engineers Ltd. located at 43/46, Garden Reach Road, Kolkata 700024.
- h) The language of the proceeding shall be in English.

**20. Jurisdiction:** Litigation, if any pertaining to this contract will come under the jurisdiction of High Court at Kolkata.

**21. Termination of contract:** In the event of non-performance of the job within the delivery period, GRSE reserves the right to cancel the order in part or in full, and no compensation whatsoever will be entertained.

**22.** Unless otherwise mentioned all other terms and conditions will be as per General Conditions of Purchase in GRSE.

**23. Bidders are required to be registered in the following facilities / portals as per Govt. Of India directives:**

a) GeM (Govt.- e- Marketplace) : <https://gem.gov.in>

b) TReDS (Trades Receivable e-Discounting system) : [www.invoicemart.com](http://www.invoicemart.com)

- The bidders are to indicate the 'Unique Seller ID' allotted by GeM and the registration no. allotted by TReDS in their bids.



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- In the event of any bidder not registered with the above two or not indicating the registration details in the commercial bid, GRSE reserves the right to disqualify their bids without assigning any reasons whatsoever.

24. **.Web Clause:** Bids are required to be submitted in **TWO** parts (Techno-Commercial bid & Price bid) in E-procurement mode through our e-portal <https://eprocuregrse.co.in> wherein all Data Sheets are available for download. Bidders need to download all Data sheets (Excel sheets) from the e-portal, fill-up and upload the same, using their Digital Signature Certificate (DSC). Price bid needs to be filled up in the given price bid data sheet (Excel sheet) only, if any other attachment regarding price is found, the offer will be treated as cancelled. A blank copy of Price bid is to be attached along with Techno-Commercial bid so as to verify that the items quoted confirm to the tender and SOTRs.

A] **The Part A:** Techno-Commercial Bid should only contain the Technical & Commercial offer. No price should be mentioned in this part of the bid else your tender would be rejected out rightly. Following are to be enclosed with the Technical Bid.

- (i) ANNEXURE-A: Technical bid in duly filled & signed condition.
- (ii) ANNEXURE-B: Commercial terms and conditions in duly filled & signed condition.
- (iii) ANNEXURE-D: Acceptance Matrix to the SOTR (Statement of technical requirements) in duly filled & signed condition as per ANNEXURE-I.
- (iv) ANNEXURE-E: Acceptance Matrix to the STAC (Standard terms & condition) duly filled & signed condition as per ANNEXURE-II.
- (v) Copy of NIT duly signed and stamped.
- (vi) A blank copy of Price Bid (without mentioning prices) must be submitted with Techno-commercial bid to verify the contents of price bid other than the price.

B] **The Part B:** Price Bid should contain only the price & to be submitted online in Excel Template price bid format by inserting unit price only. No other attachment to the price bid will be reckoned. Excel sheet for price bid is marked as **ANNEXURE-C**. This part will be opened only after acceptance of your Techno-Commercial bids. Price (in INR) based on F.O.R. GRSE should be fixed & firm till execution of order in full. Price variation clause will not be acceptable.

**25. SECURITY DEPOSIT (INTEREST FREE):**

- (a) Successful bidder will deposit an amount equivalent to 3% of the total contract value, as interest free Security Deposit in the form of Pay Order/duly crossed favouring GRSE Ltd. payable at Ranchi or Bank Guarantee (as per GRSE format **ANNEXURE-IV**) on any Scheduled Bank other than Co-operative Bank, within 15 days of placement of Purchase Order/LOI, whichever is earlier. Bank Guarantee as per GRSE format towards security deposit will have to be submitted fresh.
- (b) SD submitted in the form of BG should be forwarded directly to AGM (I/C-DEP), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004, in Banker's sealed envelope
- (c) Security Deposit to be kept valid till completion of installation and commissioning.



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- (d) Non-submission of Security Deposit within the stipulated time would entitle GRSE to claim interest at SBI Prime Lending rate prevailing at the time of such imposition on the amount of Security Deposit to be submitted from the due date of submission till the date of actual submission of the same. GRSE may recover such interest from the bills of the Contractor/Successful Bidder for which no separate notice shall be issued.
- (e) GRSE reserves the right to invoke the above BG at any time during its validity period in the event of any breach of terms stipulated in the order.
- (f) Vendors are required to follow the guidelines for submission of BG at Annexure-III.
- (g) The vendors registered with NSIC under single point registration for manufacture/supply of concerned equipment/item, will additionally be exempted from submitting the security deposit, as may be notified from time to time by Directorate of MSME. NSIC document, Entrepreneurs Memorandum (EM Part-II) for manufacture/supply of concerned equipment/item, must be submitted along with the offer for such purpose to claim the benefit.
26. **INTEGRITY PACT:** Bidder needs to submit Integrity Pact bond as per **ANNEXURE-VI** along with technical bid duly signed on N. J. S. Paper of Rs. 100/- (Rupees Hundred Only). The format of integrity Pact is enclosed with tender documents. IP shall be submitted on plain paper. The 'Integrity pact' dully filled as per enclosed format to be submitted along with the Techno-commercial offer. Bidders to ensure that every page of IP is ink signed with company seal/stamp. The details of Independent External Monitor (IEM) for the GRSE tender which are under integrity Pact are as below:

|   |   |
|---|---|
| (a) Shri Girish Shankar, IAS (Retd.)<br>105 B, Pataliputra Colony,<br>Patna- 800013<br>E-mail: <a href="mailto:girishshankar@yahoo.co.in">girishshankar@yahoo.co.in</a> | (b) Shri R Kuppan, IRSME (Retd.),<br>No. 7, Old No. 4, Third Cross Street,<br>Trustpuram, Kodambakkam,<br>Chennai- 600024<br>E-mail: <a href="mailto:rkuppan@rediffmail.com">rkuppan@rediffmail.com</a> |
|---|---|



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**Tender No-DEP/ST/ST/P-23/Exhaust Water Separator/ET-1713**

**ANNEXURE - III**

**FORMAT NO.**

**OS/03/0085**

**GARDEN REACH SHIPBUILDERS & ENGINEERS LIMITED**

**43/46, Garden Reach Road,**

**Kolkata 700 024**

**(GUIDELINES OF BANK GUARANTEE)**

1. Non- Judicial Stamp Paper – N. J. S. Paper of Rs. 100/- (Rupees Fifty Only) is to be Obtained in the name of the banker for execution of the Bank Guarantee. If a single Stamp Paper of Rs. 100/- is not available, Stamp Papers of multiple denominations may be used but the serial nos. or purpose of each Stamp Paper be of consecutive nos. and purchased on the same day. Such Stamp Paper should not be older than one year or the date of Purchase Order / Contract whichever is applicable. Stamp Papers obtained in the name of the supplier will not be accepted.
2. Address of the Supplier / Contractor and the executing Bank should be incorporated in full in the Bank Guarantee.
3. Bank Guarantee should be executed by scheduled Banks preferably by Nationalised Banks and should be sent in Banker's sealed envelope directly to AGM (I/C), GRSE Ltd., Diesel Engine Plant, Plant Plaza Road, Dhurwa, Ranchi – 834004. Super scribing the word "BANK GUARANTEE".
4. No. confirmation of B. G. is required to be obtained from issuing Bank if the B. G. Executed by Scheduled / Nationalised Banks is received in Banker's sealed envelope.
5. The Bank Guarantee should conform strictly in conformity with the terms and Conditions of the order and in GRSE's standard format prescribed against each of the above cases.
6. Expiry date should be in accordance with the requirement of contractual terms and the claim period for preferring the claim should not be less than six months from the date of expiry of any case.
7. Bank Guarantee shall be free from all infirmities and typographical errors / Deletions / inclusions / riders etc., requires to be authenticated by Bank's signatory with Official seal.
8. Issuing Bank should furnish confirmation towards execution of Guarantee Immediately on receipt of GRSE's formal letter for same. Confirmation letter should Contain GRSE's letter reference requested for and must be in Bank's sealed cover Addressed to GRSE.



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**ANNEXURE IV**

**FORMAT OF BANK GUARANTEE TOWARDS SECURITY DEPOSIT  
GUARANTEE BOND**

**(to be used by all scheduled banks)**

(On Non-Judicial stamp paper of value Rs 100/-. However, the value of stamp paper to be confirmed from Legal Department, DEP, GRSE.)

1. In consideration of M/s. Garden Reach Shipbuilders & Engineers Limited, 43/ 46, Garden Reach Road, Kolkata – 700 024 (hereinafter called "The Buyer") having agreed to exempt M/s..... having its registered office at ..... (hereinafter called "The Party") from the demand, under the terms and conditions contained in the Tender/ Purchase Order No..... dated ..... (hereinafter called "the said Tender/ Order") of security deposit for the due fulfillment by the said Party's of the terms and conditions contained in the said Order, on production of a Bank Guarantee for Rs. .... (Rupees ..... only), we, ..... Bank Limited (hereinafter referred to as "the Bank") do hereby undertake to pay to the Buyer an amount not exceeding Rs. .... against any loss or damage caused to or suffered by the Buyer by reason of any breach by the said Party of any of the terms and conditions contained in the said order.
2. We, ..... Bank do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the Buyer stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Buyer by reason of any breach by the said Party of any of the terms and conditions contained in the said order or by reason of the Party's failure to perform the said order. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee.
3. We, ..... Bank Limited further agree to 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/ Order and that it shall continue to be enforceable till all the dues of the Buyer under or by virtue of the said Tender/ Order have been fully paid and its claims satisfied or discharged or till the Managing Director, Garden Reach Shipbuilders & Engineers Limited, certifies that the terms and conditions of the said order have been fully and properly carried out by the said Party and accordingly discharges the Guarantee. Unless a demand or claim under this Guarantee is made on us in writing on or before the ..... we shall be discharged from all liability under this Guarantee thereafter.
4. We, ..... Bank Limited further agree with the Buyer that the Buyer 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 Tender/ Order or to extend time of performance by the said Party from time to time or to postpone for any time or from time to time any of the powers exercisable by the Buyer against the said Party and to forbear or enforce any of the terms and conditions relating to the said Tender/ Order and we shall not be relieved from our liability by reason of any such variation, or extension



**Garden Reach Shipbuilders & Engineers Limited**

**DIESEL ENGINE PLANT**

(A Govt. of India Undertaking, Ministry of Defence), An ISO 9001-2015

**Plant Plaza Road, Dhurwa, Ranchi - 834 004**

**CIN L35111WB1934GOI007891**

Website: [www.grse.in](http://www.grse.in)

Phone: 0651 – 240 1434 / 240 1428, Fax: + (91) 0651-2446895

**Tender No-DEP/ST/ST/P-23/Exhaust Water Separator/ET-1713**

being granted to the said Party or for any forbearance, act or omission on the part of the Buyer or any indulgence by the Buyer to the said Party 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 Limited lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the Buyer in writing.
6. Notwithstanding anything contained hereinabove, the liability of the Guarantor under this Guarantee is restricted to Rs. .... (Rupees ..... ) and that this Guarantee shall remain in force until its expiry on the ..... (date), unless a suit or action to enforce a claim under this Guarantee is made against the Guarantor within six months from the aforesaid date of expiry, all the rights of the beneficiary under the said Guarantee shall be forfeited and the Guarantee shall be released and discharged from all liabilities thereof.

For ..... Bank Limited.

Dated the .....day of .....



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**ANNEXURE V**

**FORMAT OF BANK GUARANTEE TOWARDS PERFORMANCE GUARANTEE BOND  
(to be used by all scheduled banks)**

(On Non-Judicial stamp paper of value Rs 100/-. However, the value of stamp paper to be confirmed from Legal Department, DEP, GRSE.)

THIS DEED OF GUARANTEE made this .....day of .....

..... BETWEEN .....

.....

(hereinafter called "THE BANK") which expression shall unless excluded by or repugnant to the context be deemed to include its successors in Office and assigns of the ONE Part and GARDEN REACH SHIPBUILDERS AND ENGINEERS LIMITED, having their Head Office at 43/46, GARDEN REACH ROAD, KOLKATA – 700 024 (hereinafter called "THE BUYERS") which expression shall unless excluded by or repugnant to the context be deemed to include their successors in office and assigns of the other part. WHEREAS, Messrs ..... having its registered office at .....

(hereinafter called "THE SELLER" ) have accepted an Order No. .... for supply of ..... from the Buyer to manufacture and deliver the same to Buyer in good condition.

AND WHEREAS it is one of the terms of the said order that the Seller shall furnish to the Buyer a Bank Guarantee comprising ..... % of the value of the order amounting to Rs. ....

(Rupees ..... only for the satisfactory performance of the equipment's supplied against the said Order at least for a period of ..... from the date of supply i.e. from .....

AND WHEREAS the Buyer has agreed to accept such Bank Guarantee.

NOW THIS INDENTURE WITNESSETH THAT in consideration of the premise the Bank hereby unequivocally undertakes and agrees with the Buyer to pay to the Buyer upon demand in writing whenever required so by them to do and within a fortnight from the date of such demand sum or sums not exceeding in the whole of Rs. .... (Rupees ..... ) only as may become payable to the Buyer by the Seller by virtue of or arising out of the Terms and conditions of the said Order.

Provided it is hereby expressly stipulated and agreed that if any question arises as to whether any sum has become payable by the Seller to Buyer by virtue of or arising out of the said Order, the decision of the Buyer will be final and conclusive and the Guarantee herein contained shall not be revocable by notice or by reason of dissolution or winding up of the business of the Seller of any change in the constitution or composition of the Seller's business and the liability of the Bank under this presents shall not be impaired in any way by any extension of time or variation or alteration made given conceded in the conditions of the said

Order or any other indulgence given by the Buyer or by reasons of any failure on the part of the Buyer to enforce any of their remedies against the Sellers and / or by reasons of failure on the



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part on the part of Buyer to observe or perform any of the stipulation contained in the said order and to be observed or performed by the Sellers or by any other dealings between the Buyer and the Seller whether any of the above takes place with or without the knowledge of the Bank and that the Guarantee herein contained shall remain in full force and virtue only. All claims and demands of the Buyer arising out of or in connection with the said Order have been fully paid and satisfied PROVIDED ALWAYS AND IT IS HEREBY AGREED BETWEEN THE PARTIES THAT a Bank's liability under this Indenture shall remain in full force the date of issue of the Guarantee till . . . . .

. . . . .and is limited to a sum of Rs. . . . . (Rupees . . . . .)Only.

NOTWITHSTANDING anything stated above our liability under the Guarantee is restricted to Rs. .

. . . . . ( Rupees . . . . . ) Only. Our Guarantee shall remain in force up to . . . . .

. . . . . ) Only. Our Guarantee shall remain in force up to . . . . .

. . . . . and unless a claim or demand in writing is made on the Bank within 6 months from the date of expiry of the bank Guarantee the Bank shall be released and discharged from all liabilities thereunder.

S E A L

Of the Bank

Date: . . . . .



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**ANNEXURE VI**

**INTEGRITY PACT TO BE EXECUTED FOR HIGH VALUE ORDERS**

1. IN FORMAT ENCLOSED.
2. IN NON – JUDICIAL STAMP PAPER OF VALUE RS. 100 /-. HOWEVER, THE VALUE OF STAMP PAPER TO BE CONFIRMED FROM LEGAL DEPARTMENT DEP, GRSE.)
3. TO BE EXECUTED BY PERSON WITH APPROPRIATE AUTHORITY.



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**INTEGRITY PACT**

Between M/s. Garden Reach Shipbuilders & Engineers Limited (GRSE) hereinafter referred to as "The Principal" and..... hereinafter referred to as "the Bidder /Contractor"

The Principal intends to award, under laid down organizational procedures, contract/insert/delete's for..... The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness /transparency in its relations with its Capital Bidder(s)/ or Contractors(s).

In order to achieve these goals, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principals mentioned above.

**Section 1 - Commitments of the Principal**

- [1] The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - a. No employee of the Principal, personally or through family members, will in connection with the tender for , or the execution of a contract, demand, take a promise for or accept for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provided to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
  - c. The principal will exclude from the process all known prejudiced persons.
- [2] If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

**Section 2 – Commitments of the Bidder(s)/ Contractor(s)**

- [1] The Bidder(s) /Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
  - a. The Bidder(s) / Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
  - b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
  - c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC



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- Act; further the Bidder(s)/Contractor(s) will not use improperly, for purpose of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- d. The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly the Bidder(s) /Contractor(s) of Indian Nationality shall furnish the name and address of the foreign particulars, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s) /Contractor(s). Further as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only, copy of the "Guidelines on Indian agent of foreign Supplier" is annexed and marked as annex.
- e. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- [2] The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offence.

**Section 3 – Disqualification from tender process and exclusion from future contracts.**

If the Bidder(s)/Contractor(s) before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings" is annexed and marked as Annex – B".

**Section 4 – Compensation for Damages.**

- (1) If the *Principal* has disqualified the Bidder(s) from the tender process prior to the award according to section 3, the Principal is entitled to demand and recover the damages equivalent to earnest Money Deposit /Bid Security.
- (2) If the principal has terminated the contract according to section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

**Section 5, - Previous Transgression**

- (1) The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- (2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealing".

**Section 6 - Equal treatment of all Bidders / Contractors / Sub-contractors.**

- (1) The Bidder(s) /Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
- (2) The Principal will enter into agreements with identical conditions as this one with



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all Bidders, Contractors and Sub-contractors.

- (3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or its provisions.

**Section 7 – Criminal charges against violating Bidder(s) Contractor(s)/Subcontractor(s)**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

**Section 8 – Independent External Monitor /Monitors**

- (1) The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- (2) The Monitor is not subject to instructions by the representative of the parties and performs his functions neutrally and independently. He reports to the Chairman GRSE.
- (3) The Bidder(s) /Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The monitor is under contractual obligation to treat the information and documents of the Bidder(s) /Contractor(s) /Subcontractor(s) with confidentiality.
- (4) The Principal will *provide* to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor, The parties offer to the Monitor the option to participate in such meetings.
- (5) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- (6) The Monitor will submit a written report to the Chairman, GRSE within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
- (7) Monitor shall be entitled to compensation on the same terms as being extended to / provided to Independent Directors on the GRSE Board.
- (8) If the Monitor has reported to the Chairman GRSE a substantiated suspicion of an offence under relevant IPC/PC Act, and the Chairman GRSE has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.



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- (9) The word '**Monitor**' would include both singular and plural.

**Section 9 – Pact Duration:**

This pact begins .....when both parties have legally signed it. It expires for the Contractor 18 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged by Chairman of GRSE.

**Section 10 – Other provisions:**

- 1) This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal i.e. Kolkata.
- 2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 4) Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

**(For & On behalf of the Principal)**

**(For & On behalf of Bidder/Contractor)**

**(Office Seal)**

**(Office Seal)**

Place.....

.....

Date.....

.....

Witness 1:

(Name & Address) .....

.....

Witness 2:

(Name & Address) .....

.....



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**ANNEXURE VII**

**ECS FORMAT**

|    |                                    |   |        |         |                          |
|----|------------------------------------|---|--------|---------|--------------------------|
| 1  | VENDOR NAME                        | : |        |         |                          |
| 2  | ADRESS                             | : |        |         |                          |
| 3  | VENDOR REGISTRATION CODE WITH GRSE | : |        |         |                          |
| 4  | DESIGNATED BANK ACCOUNT NAME       | : |        |         |                          |
| 5  | BANK DETAILS                       |   |        |         |                          |
| A. | NAME OF THE BANK                   | : |        |         |                          |
| B. | BANK BRANCH ADDRESS                | : |        |         |                          |
| C. | BANK ACCOUNT NO.                   | : |        |         |                          |
| D. | NATURE OF ACCOUNT                  | : | SAVING | CURRENT | OTHERS<br>(Give details) |
|    |                                    |   |        |         |                          |
| E. | 9 DIGIT MICR CODE FOR PAYMENT      | : |        |         |                          |
| F. | IFSC/NEFT CODE                     | : |        |         |                          |
| G. | DATE OF EFFECT                     | : |        |         |                          |

**NOTE:** (A) Enclose Bank's verification of A/C details as per format appended below.  
(B) Enclose one copy of relevant cheque leaf duly cancelled.

We, hereby, declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reason of incomplete or incorrect information, we would not hold the user institution responsible.

( \_\_\_\_\_ )  
Signature of the authorized signatory of the vendor.

Date:

Certified that the particulars furnished above are correct as per records.

( \_\_\_\_\_ )  
Signature of the authorized official of the bank.

Bank's Stamp

Date:




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**ANNEXURE-A**

|  गार्डन रीच शिपबिल्डर्स एण्ड इंजिनियर्स लिमिटेड<br>Garden Reach Shipbuilders & Engineers Limited<br>(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)<br>(रक्षा मंत्रालय) (Ministry of Defence)<br>Plant Plaza Road, Dhurwa, Ranchi-834004 |  |     |      |       |         |
|---|--|-----|------|-------|---------|
| <b>ANNEXURE - A TECHNICAL BID</b>   |  |     |      |       |         |
| ITEM: WATER SEPARATOR FOR EXHAUST & IRSS SYSTEM FOR 1MW DA OF P17A SHIPS.(MDL Yard Nos. 12651,12652, 12653, 12654 & GRSE Yard Nos. 3022, 3023, 3024)  |  |     |      |       |         |
| E-TENDER NO: DEP/ST/ST/P-23/21/EXHAUST WATER SEPARATOR/ET-XXXX  |  |     |      |       |         |
| <b>NAME &amp; ADDRESS OF THE BIDDER WITH REFERENCE NO./DATE*</b>  |  |     |      |       |         |
| SL NO.  | DESCRIPTION  | QTY | UNIT | YARD  | REMARKS |
| 1   | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM: DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4   | EA   | 12651 |         |
| 2   | INSTALLATION   | 1   | AU   | 12651 |         |
| 3   | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM: DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4   | EA   | 12652 |         |
| 4   | INSTALLATION   | 1   | AU   | 12652 |         |
| 5   | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM: DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4   | EA   | 12653 |         |
| 6   | INSTALLATION   | 1   | AU   | 12653 |         |
| 7   | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM: DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4   | EA   | 12654 |         |
| 8   | INSTALLATION   | 1   | AU   | 12654 |         |
| 9   | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM: DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4   | EA   | 3022  |         |
| 10  | INSTALLATION   | 1   | AU   | 3022  |         |
| 11  | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM: DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4   | EA   | 3023  |         |
| 12  | INSTALLATION   | 1   | AU   | 3023  |         |
| 13  | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM: DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4   | EA   | 3024  |         |
| 14  | INSTALLATION   | 1   | AU   | 3024  |         |



## **Garden Reach Shipbuilders & Engineers Limited**

### **DIESEL ENGINE PLANT**

(A Govt. of India Undertaking, Ministry of Defence), An ISO 9001-2015

**Plant Plaza Road, Dhurwa, Ranchi - 834 004**

**CIN L35111WB1934GOI007891**

Website: [www.grse.in](http://www.grse.in)

Phone: 0651 – 240 1434 / 240 1428, Fax: + (91) 0651-2446895

**Tender No-DEP/ST/ST/P-23/Exhaust WaterSeparator/ET-1713**

**ANNEXURE-B**



## **ANNEXURE - B**

### **COMMERCIAL TERMS AND CONDITIONS**

**ITEM: WATER SEPARATOR FOR EXHAUST & IRSS SYSTEM FOR 1MW DA OF P17A SHIPS.(MDL Yard Nos. 12651,12652, 12653, 12654 & GRSE Yard Nos. 3022, 3023, 3024)**

**E-TENDER NO: DEP/ST/ST/P-23/21/EXHAUST WATER SEPARATOR/ET-XXXX**

| <b>NAME &amp; ADDRESS OF THE BIDDER *</b>  |   |                          |   |              |
|--|---|--------------------------|---|--------------|
| <b>OFFER REFERENCE NO./DATE*</b>   |   |                          |   |              |
| <b>Currency</b>  |   | <b>INR</b>               |   |              |
| <b>QUOTATION VALID TILL *</b>  |   |                          |   |              |
| <b>MAJOR TERM(S)</b>   |   | <b>VENDOR TO CONFIRM</b> |   |              |
| <b>Sl. No.</b>   | <b>ATTRIBUTE</b>  | <b>OPTIONS</b>           |   |              |
| 1  | SCOPE OF SUPPLY ACCEPTED AS PER NIT   | YES                      |   |              |
| 2  | PAYMENT TERMS ACCEPTED AS PER NIT   | YES                      |   |              |
| 3  | PENALTY & LIQUIDATED DAMAGES CLAUSES ACCEPTED AS PER NIT                      | YES                      |   |              |
| 4  | GUARANTEE/WARRANTY TERMS ACCEPTED AS PER NIT                                  | YES                      |   |              |
| 5  | 3% SECURITY DEPOSIT BANK GUARANTEE ACCEPTED AS PER NIT                        | YES                      |   |              |
| 6  | 3% PERFORMANCE BANK GUARANTEE ACCEPTED AS PER NIT                             | YES                      |   |              |
| 7  | DELIVERY TERM(S)* ACCEPTED AS PER NIT   | YES                      |   |              |
| 8  | DESPATCH MODE BY ROAD BY VENDOR'S OWN ARRANGEMENT                             | YES                      |   |              |
| 9  | TERM OF PRICE AS PER NIT  | YES                      |   |              |
| 10   | ORDER TO BE PLACED ON   |                          |   |              |
| 11   | PAYMENT TO BE MADE TO (IF ANOTHER AGENCY) PLEASE INDICATE LATEST BANK DETAILS |                          |   |              |
| 12   | COMMERCIAL TERMS  |                          |   |              |
| 13   | DELIVERY SCHEDULE *<br>(PLEASE CONFIRM/INDICATE YOUR DELIVERY SCHEDULE)       | YES                      |   |              |
| 14   | TECHNICAL COMMENTS<br>(PLEASE INDICATE TECHNICAL DETAILS OF YOUR MANUFACTURE) |                          |   |              |
| <b>TAXES, DUTIES, LEVIES, FEES &amp; CHARGES (IN ADDITION TO QUOTED FREIGHT CHARGES)</b>   |   |                          |   |              |
| <b>Sl. No.</b>   | <b>ATTRIBUTE</b>  | <b>INDICATOR</b>         | <b>FIRM TO CONFIRM</b>  | <b>ENTRY</b> |
| 1  | GST   | PERCENTAGE               | G.S.T EXTRA AS APPLICABLE AT THE TIME OF SUPPLY(PRESENT VALUE IS INDICATED) | _____ %      |
| 2  | MISCELLANEOUS CHARGES DETAIL(S) IF ANY  | PERCENTAGE               |   |              |
| 3  | MISCELLANEOUS CHARGES AMOUNT  | VALUE                    |   |              |
| <b>NOTE:</b>   |   |                          |   |              |
| <b><u>PLEASE PUT VALUE FOR "SELECT AN OPTION"</u></b>  |   |                          |   |              |
| * Indicates Mandatory Fields.  |   |                          |   |              |
| 1) ALL OTHER TERM(S) AND CONDITION(S) OF THE TENDER ARE TO BE ACCEPTABLE. DEVIATIONS, WHEREVER APPLICABLE HAVE BEEN INDICATED IN THE OFFER AS ABOVE. |   |                          |   |              |
| 2) ATTACH SUPPORTING DOCUMENTS (PRICE NOT TO BE MENTIONED HERE ELSE OFFER WILL BE REJECTED).   |   |                          |   |              |



## Garden Reach Shipbuilders & Engineers Limited DIESEL ENGINE PLANT

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### Tender No-DEP/ST/ST/P-23/Exhaust Water Separator/ET-1713

### ANNEXURE-C

|  |          |  |                           |     |          |            |             |                  |            |              |
|--|----------|--|---------------------------|-----|----------|------------|-------------|------------------|------------|--------------|
|   |          | गार्डन रीच शिपबिल्डर्स एण्ड इंजिनियर्स लिमिटेड<br>Garden Reach Shipbuilders & Engineers Limited<br>(भारत सरकार का उपक्रम) (A Govt. of India Undertaking)<br>(रक्षा मंत्रालय) (Ministry of Defence)<br>Plant Plaza Road, Dhurwa, Ranchi-834004  |                           |     |          |            |             |                  |            |              |
| ANNEXURE - C   |          |  |                           |     |          |            |             |                  |            |              |
| PRICE BID  |          |  |                           |     |          |            |             |                  |            |              |
| ITEM: WATER SEPARATOR FOR EXHAUST & IRSS SYSTEM FOR 1MW DA OF P17A SHIPS.(MDL Yard Nos. 12651,12652, 12653, 12654 & GRSE Yard Nos. 3022, 3023, 3024) |          |  |                           |     |          |            |             |                  |            |              |
| E-TENDER NO: DEP/ST/ST/P-23/21/EXHAUST WATER SEPARATOR/ET-XXXX   |          |  |                           |     |          |            |             |                  |            |              |
| NAME & ADDRESS OF THE BIDDER WITH REFERENCE NO./DATE*  |          |  |                           |     |          |            |             |                  |            |              |
| Enquiry Sl. No.  | Yard No. | Material Description   | Qty Required per Shipsets | UOM | Currency | UNIT PRICE | TOTAL PRICE | GST (PERCENTAGE) | GST AMOUNT | TOTAL AMOUNT |
| 1  | 12651    | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM, DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4                         | EA  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 2  | 12651    | INSTALLATION   | 1                         | AU  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 3  | 12652    | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM, DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4                         | EA  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 4  | 12652    | INSTALLATION   | 1                         | AU  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 5  | 12653    | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM, DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4                         | EA  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 6  | 12653    | INSTALLATION   | 1                         | AU  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 7  | 12654    | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM, DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4                         | EA  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 8  | 12654    | INSTALLATION   | 1                         | AU  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 9  | 3022     | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM, DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4                         | EA  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 10   | 3022     | INSTALLATION   | 1                         | AU  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 11   | 3023     | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM, DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4                         | EA  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 12   | 3023     | INSTALLATION   | 1                         | AU  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 13   | 3024     | TITANIUM WATER SEPARATOR WITH DRAIN SYSTEM, DESIGN, DEVELOP, MANUFACTURE & SUPPLY OF WATER SEPARATOR ALONG WITH DRAINING FACILITY THROUGH DA SHIP SIDE EXHAUST OVERBOARD (MATERIAL TITANIUM GR.2) AND INTEGRATION OF WATER SEPARATOR WITH EXISTING DA SHIP SIDE EXHAUST & IRSS SYSTEM, ALONG WITH ON BOARD SPARES (OBS), SPECIAL TOOLS AND TEST EQUIPMENT AS PER ATTACHED SCOPE OF WORK. | 4                         | EA  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| 14   | 3024     | INSTALLATION   | 1                         | AU  | INR      |            | 0.00        |                  | 0.00       | 0.00         |
| TOTAL FOR 7 SHIPSETS   |          |  |                           |     |          |            |             |                  |            | 0.00         |
| NOTE-  |          |  |                           |     |          |            |             |                  |            |              |
| 1. Quantity indicated against each line item above is for ONE shipset. Total requirement is for Seven ships.   |          |  |                           |     |          |            |             |                  |            |              |
| 2. Price quoted above should be inclusive of Documentation, Service Engineer charges (if any) and any other items as per the SOTR.                   |          |  |                           |     |          |            |             |                  |            |              |



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**Tender No-DEP/ST/ST/P-23/Exhaust WaterSeparator/ET-1713**

**ANNEXURE-D**

| <b>ANNEXURE - D</b>  |                  |  |            |                  |  |
|--|------------------|--|------------|------------------|--|
| ACCEPTANCE FORMAT (MATRIX) OF SOTR   |                  |  |            |                  |  |
| ITEM: WATER SEPARATOR FOR EXHAUST & IRSS SYSTEM FOR 1MW DA OF P17A SHIPS.(MDL Yard Nos. 12651,12652, 12653, 12654 & GRSE Yard Nos. 3022, 3023, 3024) |                  |  |            |                  |  |
| E-TENDER NO: DEP/ST/ST/P-23/21/EXHAUST WATER SEPARATOR/ET-XXXX   |                  |  |            |                  |  |
| COMPANY NAME & ADDRESS *   |                  |  |            |                  |  |
| NAME & DESIGNATION *   |                  |  |            |                  |  |
| CONTACT DETAILS (e-MAIL-ID, FAX NO., PHONE NO., MOBILE NO.) *  |                  |  |            |                  |  |
| OFFER REFERENCE NO./DATE*  |                  |  |            |                  |  |
| SOTR SL NO   | Bidder's Remarks | Bidder's Comments (reference of technical offer clause must be indicated in case of deviation) | SOTR SL NO | Bidder's Remarks | Bidder's Comments (reference of technical offer clause must be indicated in case of deviation) |
| A.I.1  |                  |  | C.3.d      |                  |  |
| A..I.2   |                  |  | C.3.e      |                  |  |
| A.II.1   |                  |  | C.3.f      |                  |  |
| A.II.2   |                  |  | C.4        |                  |  |
| A.III.1  |                  |  | D.1        |                  |  |
| A.III.2  |                  |  | D.2        |                  |  |
| A.IV.1   |                  |  | D.3        |                  |  |
| A.IV.2   |                  |  | D.4        |                  |  |
| A.V.1  |                  |  | D.4.a      |                  |  |
| A.V.2  |                  |  | D.4.b      |                  |  |
| A.VI.1   |                  |  | D.4.c      |                  |  |
| A.VI.2   |                  |  | D.4.d      |                  |  |
| A.VII.1  |                  |  | D.4.e      |                  |  |
| A.VII.2  |                  |  | D.4.f      |                  |  |
| B.1.i  |                  |  | D.4.g      |                  |  |
| B.2.i  |                  |  | D.5        |                  |  |
| B.2.ii   |                  |  | D.6        |                  |  |
| B.3.i  |                  |  | D.7        |                  |  |
| B.3.ii   |                  |  | D.8        |                  |  |
| B.3.iii  |                  |  |            |                  |  |
| B.3.iv   |                  |  |            |                  |  |
| B.4.i  |                  |  |            |                  |  |
| B.4.ii   |                  |  |            |                  |  |
| B.4.iii  |                  |  |            |                  |  |
| B.4.iv   |                  |  |            |                  |  |
| B.4.v  |                  |  |            |                  |  |
| B.4.vi   |                  |  |            |                  |  |
| B.4.vii  |                  |  |            |                  |  |
| B.4.viii   |                  |  |            |                  |  |
| B.4.ix.a   |                  |  |            |                  |  |
| B.4.ix.b   |                  |  |            |                  |  |
| B.5  |                  |  |            |                  |  |
| C.1  |                  |  |            |                  |  |
| C.2  |                  |  |            |                  |  |
| C.3.a.i  |                  |  |            |                  |  |
| C.3.a.ii   |                  |  |            |                  |  |
| C.3.a.iii  |                  |  |            |                  |  |
| C.3.b.i  |                  |  |            |                  |  |
| C.3.b.ii   |                  |  |            |                  |  |
| C.3.c.i  |                  |  |            |                  |  |
| C.3.c.ii   |                  |  |            |                  |  |

1. Bidders should read the SOTR included in the Tender carefully prior to filling up this acceptance format.  
 2. This format should be properly filled, signed and returned along with your technical bid for considering your bid.  
 3. Please indicate: ACC- For accepted, NO – For not accepted and DEV – For deviation taken.  
 (and corresponding reference of your Technical Literature submitted separately)  
 4. Separate sheet to be attached for any deviation taken by you.  
 5. SOTR Sl Numbers shown in the format includes the Sub Sl No under them also.



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**Tender No-DEP/ST/ST/P-23/Exhaust Water Separator/ET-1713**

**ANNEXURE-E**

| ANNEXURE - E   |                  |  |          |                  |  |
|--|------------------|--|----------|------------------|--|
| ACCEPTANCE FORMAT (MATRIX) OF STANDARD TERMS AND CONDITION   |                  |  |          |                  |  |
| ITEM: WATER SEPARATOR FOR EXHAUST & IRSS SYSTEM FOR 1MW DA OF P17A SHIPS. (MDL Yard Nos. 12651, 12652, 12653, 12654 & GRSE Yard Nos. 3022, 3023, 3024) |                  |  |          |                  |  |
| E-TENDER NO: DEP/ST/ST/P-23/21/EXHAUST WATER SEPARATOR/ET-XXXX   |                  |  |          |                  |  |
| COMPANY NAME & ADDRESS *   |                  |  |          |                  |  |
| NAME & DESIGNATION *   |                  |  |          |                  |  |
| CONTACT DETAILS (e-MAIL-ID, FAX NO., PHONE NO., MOBILE NO.) *  |                  |  |          |                  |  |
| OFFER REFERENCE NO./DATE *   |                  |  |          |                  |  |
| STANDARD TERMS AND CONDITIONS (STAC)   |                  |  |          |                  |  |
| SL NO  | Bidder's Remarks | Bidder's Comments (reference of technical offer clause must be indicated in case of deviation) | SL NO    | Bidder's Remarks | Bidder's Comments (reference of technical offer clause must be indicated in case of deviation) |
| 1  |                  |  | 22       |                  |  |
| 2  |                  |  | 23       |                  |  |
| 3  |                  |  | 23.a     |                  |  |
| 4.a  |                  |  | 23.b     |                  |  |
| 4.b  |                  |  | 24       |                  |  |
| 4.c  |                  |  | 24.A.i   |                  |  |
| 4.d  |                  |  | 24.A.ii  |                  |  |
| 4.e  |                  |  | 24.A.iii |                  |  |
| 5.a  |                  |  | 24.A.iv  |                  |  |
| 5.b  |                  |  | 24.A.v   |                  |  |
| 5.c  |                  |  | 24.A.vi  |                  |  |
| 5.d  |                  |  | 24.B     |                  |  |
| 6.a  |                  |  | 25.a     |                  |  |
| 6.b  |                  |  | 25.b     |                  |  |
| 6.c  |                  |  | 25.c     |                  |  |
| 7  |                  |  | 25.d     |                  |  |
| 8  |                  |  | 25.e     |                  |  |
| 9  |                  |  | 25.f     |                  |  |
| 10   |                  |  | 25.g     |                  |  |
| 11   |                  |  | 26       |                  |  |
| 12.a   |                  |  |          |                  |  |
| 13   |                  |  |          |                  |  |
| 14   |                  |  |          |                  |  |
| 15   |                  |  |          |                  |  |
| 16   |                  |  |          |                  |  |
| 17.a   |                  |  |          |                  |  |
| 17.b   |                  |  |          |                  |  |
| 17.c   |                  |  |          |                  |  |
| 17.d   |                  |  |          |                  |  |
| 18.a   |                  |  |          |                  |  |
| 18.b   |                  |  |          |                  |  |
| 19.a   |                  |  |          |                  |  |
| 19.b   |                  |  |          |                  |  |
| 19.c   |                  |  |          |                  |  |
| 19.d   |                  |  |          |                  |  |
| 19.e   |                  |  |          |                  |  |
| 19.f   |                  |  |          |                  |  |
| 19.g   |                  |  |          |                  |  |
| 19.h   |                  |  |          |                  |  |
| 20   |                  |  |          |                  |  |
| 21   |                  |  |          |                  |  |

1. Bidders should read the STAC included in the Tender carefully prior to filling up this acceptance format.  
 2. This format should be properly filled, signed and returned along with your technical bid for considering your bid.  
 3. Please indicate: ACC- For accepted, NO – For not accepted and DEV – For deviation taken.  
 (and corresponding reference of your Technical Literature submitted separately)  
 4. Separate sheet to be attached for any deviation taken by you.  
 5. STAC SI Numbers shown in the format includes the Sub SI No under them also.