

## TENDER SPECIFICATION OF LIFE RAFT 25 MEN

| Ser | BN Requirement          |   | Supplier's Response/Offer |
|-----|-------------------------|---|---------------------------|
| 1.  | Name of Item            | Inflatable Life Raft 25 Men Capacity  |                           |
| 2.  | General Description     | 25 Men inflatable Life raft packed in weather tight Glass Reinforced Plastic(GRP). Container will be fitted on board naval ships as standard life saving equipment  |                           |
| 3.  | Quantity                | 30 (Thirty)   |                           |
| 4.  | Country of Manufacturer | To be mentioned   |                           |
| 5.  | Country of Origin       | EU/ UK/ South Korea/ China/ Denmark/ Ireland<br>To be mentioned   |                           |
| 6.  | Brand & Model           | To be mentioned   |                           |
| 7.  | Year of Manufacture     | 2025 or later   |                           |
| 8.  | General Requirements    | <p>a. Should be capable of withstanding exposure for 30 days afloat in all sea condition.</p> <p>b. When dropped into water from a height of 18m the raft and its equipment should operate satisfactory.</p> <p>c. Should be capable of withstanding repeated jumps on it from of a height of at least 4.5m above; both with and without the canopy erected.</p> <p>d. Shall be able to be towed at a speed of 3 knots in calm water when loaded with its full complement of persons and with one sea anchor streaming.</p> <p>e. Canopy. Two layers of polyurethane proofed nylon fabric, the outside face of the outer layer will be of fluorescent flame orange colour should also comply with all requirements specified in the SOLAS regulations.</p> <p>f. Floor .Two separate layers of butyl-proofed nylon fabric.</p> <p>g. Buoyancy tubes and center thwart. Butyl-proofed synthetic fabric.</p> <p>h. Container Type. Round</p> <p>j. Cradle Type. To be mentioned.</p> <p>k. Dimension and Weight:</p> <p>(1) Dimension of the Container (LxD)-1470x735 mm (Approx)</p> <p>(2) Weight of the Container with Raft inside :Not more than 185 Kg</p> <p>l. Life Raft Fitting. As per requirements or the SOLAS regulation.</p> |                           |

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| 9.  | <p>Standard Equipments</p> <p>Each life raft shall have at least the following equipments complying with the SOLAS (Pack A) regulation.</p> <ul style="list-style-type: none"> <li>a. 1x buoyant rescue quoit attached to minimum 30 m buoyant line.</li> <li>b. 1x Safety knife with buoyant handle and lanyard</li> <li>c. 2x buoyant bailer</li> <li>d. 2x sponges</li> <li>e. 1x sea anchor each with shock resistant hawser and tripping line</li> <li>f. 2x buoyant paddles</li> <li>g. 3x tin openers</li> <li>h. 1x first aid kit/outfit in a water proof case</li> <li>j. 1x whistle</li> <li>k. 4x rocket parachute flare complying requirements of SOLAS regulation</li> <li>l. 6x hand flares complying with requirements of SOLAS regulation</li> <li>m. 2x buoyant smoke signals complying with requirements of SOLAS regulation.</li> <li>n. 1x electric torch (water proof) suitable for mores signaling (with two set of spare and one spare bulb in a water proof container)</li> <li>p. 1x radar reflector.</li> <li>q. 1x daylight signal mirror.</li> <li>r. 1x life saving signal on a water proof card/ container</li> <li>s. 1x fishing tackle set</li> <li>t. Food ration totaling not less than 10,000 calorie for each person shall be kept in airtight packing and be stowed in a watertight container. This is to meet the requirements as clarified in the SOLAS regulations and should be palatable edible and packed in manners which can be readily and easily opened.</li> <li>u. Watertight receptacles containing a total of 1.5 L of fresh water for each person</li> <li>v. 1x rust proof drinking cup</li> <li>w. Anti sea sickness medicine/ pill (6 pcs per person) and sea sickness bag (1 pc for each person)</li> <li>x. 1x Survival Instruction manual.</li> <li>y. Operation manual/Instruction</li> <li>z. Thermal protective aids complying With the requirements of SOLAS regulations</li> <li>aa. 6 x Rescue bag</li> <li>ab. 1 x Scissor</li> <li>ac. 1 set X Repair kit tool outfit</li> <li>ad. 1 x Bellows.</li> <li>ae. Miscellaneous items like playing card, cigarette matches etc</li> </ul> |                           |
| 10. | <p>Shelf life</p> <p>Shelf Life of all edible items must not be less than 04 years.</p>  |                           |
| 11. | <p>The equipment listed above should be stowed into 3 separate fiber drums.</p>  |                           |

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| 12. | Operating principle   | <p>a. When launched, the two buoyancy chambers should be automatically inflated independently by two cylinders of gas.</p> <p>b. Any defect in one buoyancy chamber should not affect the rest of the raft nor should it decrease the survivor carrying capacity if the raft.</p>   |                           |
| 13. | Cylinders             | <p>a. Each cylinder should contain in admixture of CO<sub>2</sub>, and N<sub>2</sub> gases.</p> <p>b. Both cylinder should be capable of being activated by an operating cord attached with raft nor should it crease the survivor carrying capacity of the raft.</p>   |                           |
| 14. | Storage of Life Raft  | The life rafts are to be supplied in GRP container which can be secured in single/ multiple cradles on board ships.   |                           |
| 15. | Temperature           | The life rafts should be capable of operating throughout the temperature range (-)10°C to (+)50°C   |                           |
| 16. | Boarding              | <p>a. Each life raft should have two boarding ramps so constructed that a person wearing standard life jacket should be able to board the raft unaided from the water.</p> <p>b. It should be possible to make the entrances to the raft water tight when needed.</p>   |                           |
| 17. | Rain Water Collection | There should be rain water collection points built into the top of the canopy with arrangements or filing water containers through rubber tubes.  |                           |
| 18. | Stability.            | The life raft must remain stable in water in event of uneven distribution of the full complement of survivors.  |                           |
| 19. | Balling               | Manually operated balling appliances are to be fitted in to the floor of the life raft to drain the water to the sea through non-return sleeve arrangements.  |                           |
| 20. | Associated Equipment  | <p>The following associated equipment should be provided in each life raft.</p> <p>(a) <b><u>Deflation Plugs</u></b>. With slotted heads and identification tables</p> <p>(b) <b><u>Leak Stoppers</u></b>. Should be stowed in packets on the thwarts for temporary repair of holes</p> <p>(c) <b><u>Topping up valve</u></b>. Sufficient number or valves is to be fitted in the life raft for topping up relevant part of the life raft with air</p> <p>(d) <b><u>Topping up Pumps</u></b>: A pump to be provided to top up the life raft with air through the valves</p> <p>(e) <b><u>Sea Cells</u></b>. Two sea cells (lithium battery) are to be fitted to eliminate lamp fitted in the life raft for a period or minimum 40 hours</p> <p>(f) <b><u>Heliograph</u></b>. Heliograph of suitable dimensions is to be provided in the life raft to draw the attention of rescue ships and air craft</p> <p>(g) <b><u>Water Pockets</u></b>. Four water pockets are to be fitted to reduce the drift from windage</p> <p>(h) <b><u>Sea Anchor (Drogue)</u></b>. Drogue with 9 meter cordage are to be provided beneath the buoyancy tube to slow the rate of drift</p> |                           |

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| 21.                                  | Hydrostatic Resistance   | Hydrostatic release system should function and enable automatic activation of the life raft with sea water pressure as per the requirement mentioned in the SOLAS regulations (latest amendment)   |                    |  |
| 22.                                  | Manual of Repair & Maintenance   | Manual for repair & maintenance is to be provided  |                    |  |
| 23.                                  | Operating Manual   | One set of operating manual s to be provided with each Life Raft   |                    |  |
| 24.                                  | Quit and Rescues Lines.  | These are to be stowed i n the raft. The Rescue lines are to consist of a buoyant rope grommet and 90 meter of cordage   |                    |  |
| 25.                                  | Warranty/Guarantee   | a. Warranty for trouble free operation is to be given by the principal/manufacture for all the supplied items for a period of 12 months from the date of acceptance by BN.<br><br>b. During the warranty period, if the supplied boat remains non-operational for any action pending by the supplier, the warranty period will be extended for the same period.<br><br>c. The warranty will cover all parts and labour including service engineer's cost at user premises or any places designated by buyer. |                    |  |
| 26.                                  | Certificate and Documents of Authentication.   | (a) OEM Certificate<br>(b) Authenticity and Genuineness Certificate<br>(c) Warranty Certificate<br>(d) Classification society/ standard Certificate  |                    |  |
| 27.                                  | Inspection and Test  | CINS will inspect supplied life raft at consignee's premises.  |                    |  |
| <b><u>Delivery Requirements.</u></b> |  |  |                    |  |
| 28.                                  | <b><u>Packing.</u></b>   | General commercial packing.  |                    |  |
| 29.                                  | <b><u>Marking.</u></b>   | Each package is to be marked as follows:   |                    |  |
|                                      | a.   | Name of item.  |                    |  |
|                                      | b.   | Contract No. and date.   |                    |  |
|                                      | c.   | Consignee's address.   |                    |  |
|                                      | d.   | Supplier's name and address.   |                    |  |
|                                      | e.   | Quantity.  |                    |  |
|                                      | f.   | Endorsement of CINS as to the acceptance (CINS will make endorsement after inspection).  |                    |  |
| 30.                                  | <b><u>Delivery Schedule.</u></b> Delivery schedule for the procurement quantity is mentioned below.  |  |                    |  |
|                                      | <b>Consignee</b>   | <b>Quantity</b>  | <b>Installment</b> | <b>Delivery time from the date of signing the contract</b> |
|                                      | NSD Ctg  | 30 Nos   | 1                  | 08 Months  |
|                                      | Shipment to (Consignee):<br><b>The Commanding Officer</b><br><b>Naval Stores Depot Chattogram</b><br><b>New Mooring, Chattogram, Bangladesh.</b> |  |                    |  |
| 31.                                  | <b><u>Port of Shipment.</u></b>  | To be mentioned.   |                    |  |



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|---------------------------|--|---|------|-----|------------|---------------------------|
| 32.                       | <b>Inspection and Test.</b> CINS will inspect the item against the parameters of the contract specification.   |   |      |     |            |                           |
| 33.                       | <b>Inspection by Consignee.</b> At the time of delivery consignee will inspect the following:  |   |      |     |            |                           |
|                           | a.   | Packaging   |      |     |            |                           |
|                           | b.   | Marking   |      |     |            |                           |
|                           | c.   | Quantity  |      |     |            |                           |
|                           | d.   | Warranty Certificate                                    |      |     |            |                           |
|                           | e.   | Endorsement of CINS as to the inspection and acceptance |      |     |            |                           |
| <b>Other Information.</b> |  |   |      |     |            |                           |
| 34.                       | <b>Evaluation of Tender Offer(s).</b> Tender offers will be evaluated on the basis of following:   |   |      |     |            |                           |
|                           | a.   | Compliance with the specification                       |      |     |            |                           |
|                           | b.   | Certification   |      |     |            |                           |
|                           | c.   | Prices  |      |     |            |                           |
| 35.                       | <b>Supplier's Service and Responsiveness.</b> Supplier must reply to buyer's query within 07 days of raising the query otherwise BN may cancel the offer.  |   |      |     |            |                           |
| 36.                       | <b>Terms of Payments.</b><br><br>a. 80% total CFR value will be paid on completion of shipment of the contracted goods.<br><br>b. Remaining 20% will be made on production of "Acceptance Certificate" rendered by BN following successful test and trial upon delivery of all items as per contract.  |   |      |     |            |                           |
| 37.                       | <b>Liquidated Damage (LD).</b> LD for late delivery will apply as per DGDP regulations.  |   |      |     |            |                           |
| 38.                       | <b>Validity of Offer.</b> 30 June 2026   |   |      |     |            |                           |
| 39.                       | <b>Compliance Statement.</b><br><br>a. A clear and complete Compliance Statement of the tender specification for each Para and Sub-Para supported by original catalogue is to be submitted with the offer.<br><br>b. Any deviation from this specification is also to be clearly mentioned in the offer.<br><br>c. Incomplete compliance statement may attribute to cancellation of the offer.<br><br>d. All documents, certificates, catalogues as well as correspondences in respect to this tender are to be provided/ accomplished in English. |   |      |     |            |                           |
| 40.                       | <b>Price Quotation.</b> Price to be quoted without import duties in Foreign Currency (FC) as follows:  |   |      |     |            |                           |
|                           | Name of Item   |   | Deno | Qty | Unit Price | Total Price               |
|                           | Life raft 25 men   |   | No   | 30  |            |                           |

4