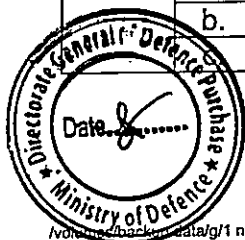


# TENDER SPECIFICATION OF TWIN CYLINDER OPEN CIRCUIT (SCUBA) DIVING SET COMPLETE

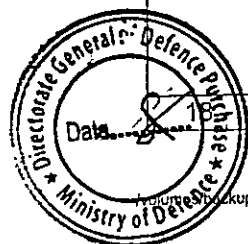
| Ser | BN Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Supplier's response/ offer |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 1.  | <b>Name of Item.</b> Twin Cylinder Open Circuit (SCUBA) Diving Set Complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |
| 2.  | <b>Purpose.</b> Diving sets will be used for diving and other underwater naval operations in fresh and salt water.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |
| 3.  | <b>Model /Brand.</b> To be mentioned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
| 4.  | <b>Quantity.</b> 50 (fifty) set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| 5.  | <b>Country of Origin.</b> UK, Australia, Canada, South Korea, Italy, USA, EU Countries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |
| 6.  | <b>Manufacturing Countries.</b> To be mentioned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |
| 7.  | <b>Year of Manufacture.</b> 2026 or later                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |
| 8.  | <b>Name and full address of Principal.</b> To be mentioned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |
| 9.  | <b>Name and full address of Manufacturer.</b> To be mentioned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |
| 10. | <b>Port of Shipment.</b> : To be mentioned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |
| 11. | <b>Technical Specification.</b> Diving set are to be supplied with the following basic components:<br>a. <b>Air Cylinders:</b><br>(1) <b>Quantity</b> : 2 x Cylinders with each set<br>(2) <b>Made of Materials</b> : Aluminium<br>(3) <b>Capacity</b> : Floodable/ Internal volume 7.2 ltr (Approx) each cylinder<br>(4) <b>Working pressure</b> : 205-250 Bar<br>(5) <b>Test pressure</b> : 1.67 times of working pressure<br>(6) <b>Colour</b> : Black/Grey<br>(7) <b>Weight of Empty</b> : To be mentioned. (Preferably light weight)<br>(8) <b>Dimension (Each Cylinder):</b><br>(a) Overall length : To be mentioned<br>(b) Out side dia meter : To be mentioned<br>(9) <b>Weight of complete set (charged):</b> To be mentioned<br>(10) <b>Buoyancy</b> : Must be neutrally buoyant when used under water<br>(11) <b>Cylinder Boot</b> : Protective boots fixed at the bottom of cylinder with water drainage system (colour to suited with bottle preferably black).<br>(12) <b>Following informations are to be engraved on each cylinder:</b><br>a. Material specification and working pressure.<br>b. Serial no assigned by manufacturer.<br>c. Identification mark of manufacture.<br>d. Test/Inspection stamp.<br>e. Capacity of each cylinder.<br>f. The hydrostatic pressure test data.<br>b. <b>Back Pack with Harness.</b> Each set should be supplied with a light weight heavy duty back pack will be made of aluminium and clamped with the cylinders for holding the SCUBA on the divers back. The back pack should have nylon webbing shoulder and waist straps with quick release buckle for quick. Don and Ditching at all times. Should be sufficient to adjust up to 46 inch chest of divers easily adjustable to divers requirement. It should also have a carrying handle at the top of the back pack. |                            |



|     |                                                                                                                                                                                                                                                                                                                                                                         |  |
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|     | c. <b>Clamp Band.</b> Two individual clamp bands are to be fixed with twin cylinders at top and bottom. This should be adjusted with back pack with screw and nuts. The clamp band will be made of plastic coated stainless steel.                                                                                                                                      |  |
|     | d. <b>Breathing Tube Assembly.</b> The breathing tube assembly should have following:                                                                                                                                                                                                                                                                                   |  |
|     | (1) <b>First Stage Reduction Valve.</b>                                                                                                                                                                                                                                                                                                                                 |  |
|     | a. First stage reduction valve should have optional 3 ways take off points.                                                                                                                                                                                                                                                                                             |  |
|     | b. 1 <sup>st</sup> stage reducer will be of universal type and reduce HP to LP (7-10) bar over ambient pressure.                                                                                                                                                                                                                                                        |  |
|     | c. Large non-slip yoke knob to permit use on all types of valve.                                                                                                                                                                                                                                                                                                        |  |
|     | (2) <b>2<sup>nd</sup> Stage Demand Valve.</b>                                                                                                                                                                                                                                                                                                                           |  |
|     | a. Second stage demand valve should have mouth piece with purge button exhaust valve/ tube and fine adjuster with a capability to deliver air as per divers requirement.                                                                                                                                                                                                |  |
|     | b. Mouthpiece will be made of silicon rubber with a capability to provide relatively water tight passage ways for delivering breathing air into the diver's mouth.                                                                                                                                                                                                      |  |
|     | (3) <b>Intermediate Pressure Hose.</b>                                                                                                                                                                                                                                                                                                                                  |  |
|     | a. Intermediate pressure hose will be provided with sufficient length to reach divers mouth easily.                                                                                                                                                                                                                                                                     |  |
|     | b. Pressure resistant up to 300-500 PSIG.                                                                                                                                                                                                                                                                                                                               |  |
|     | (4) <b>Pressure and Depth Gauge Monitor.</b> A Pressure gauge of luminous radial grading 0-380/400 bar (compatible with cylinder pressure) and a depth gauge grading 0-200 feet with luminous dial will be provided and connected by sufficient length of flexible hose to the first stage reduction valve so that diver can monitor it easily in dark/ nil visibility. |  |
|     | (5) <b>Additional Spare for each Breathing Tube Assembly.</b>                                                                                                                                                                                                                                                                                                           |  |
|     | a. 04 (Four) additional second stage demand valve complete to be provided with each set.                                                                                                                                                                                                                                                                                |  |
|     | b. 02 (Two) Blanking cap for first stage regulator to be provided for each set.                                                                                                                                                                                                                                                                                         |  |
|     | c. 01 (one) intermediate pressure hose to be provided for each set.                                                                                                                                                                                                                                                                                                     |  |
|     | e. <b>Manifold Assembly.</b> The device will fulfill the following requirements:                                                                                                                                                                                                                                                                                        |  |
|     | (1) Manifold links with both the cylinders to the first stage reduction valve.                                                                                                                                                                                                                                                                                          |  |
|     | (2) Cylinder valve with hand knobs.                                                                                                                                                                                                                                                                                                                                     |  |
|     | (3) Manifold connection to first stage regulator and have reserve valve.                                                                                                                                                                                                                                                                                                |  |
|     | (4) Offered set must be provided with knob type reserve valve mechanism. This is to be considered as mandatory criteria. The reserve valve can be easily operated by the diver.                                                                                                                                                                                         |  |
|     | (5) Manifold assembly will be made of chrome plated bronze/ stainless steel.                                                                                                                                                                                                                                                                                            |  |
| 12. | <b>Tool Box.</b> 04 (Four) sets complete tool box to be supplied in free of cost with the diving set and list of the items to be given with the offer. Following items must be included in the tool box:                                                                                                                                                                |  |
|     | a. One screw driver with one flat and one Philips head.                                                                                                                                                                                                                                                                                                                 |  |
|     | b. One adjustable spanner universal type.                                                                                                                                                                                                                                                                                                                               |  |
|     | One complete set of inline test gauge/ second stage adjustment tool.                                                                                                                                                                                                                                                                                                    |  |



|     |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
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|     | d.                                 | In addition, Any other tools required for the set for field maintenance will be considered as part of the tool box. This will be included with complete set of L-end key, which will be adjusted to maintenance of supplied diving set. (All tools to be provided from manufacturer).                                                                                                                                          |  |
| 13. | <b>Spares.</b>                     | Spares required for 5 (five) years maintenance are to be provided. The spares list is to be mentioned. Following accessories mentioned below must be included in the spare list:                                                                                                                                                                                                                                               |  |
|     | a.                                 | 100 x O-rings (Various types)                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | b.                                 | 25 x Washer (Various types)                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|     | c.                                 | 25 x Gasket (Various types)                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|     | d.                                 | Hand wheel (on/off valve) 10 in no for each diving set.                                                                                                                                                                                                                                                                                                                                                                        |  |
|     | e.                                 | Additional back pack 50% of ordered quantity.                                                                                                                                                                                                                                                                                                                                                                                  |  |
|     | f.                                 | Additional spares recommended by the manufacturers should also be included in the list.                                                                                                                                                                                                                                                                                                                                        |  |
| 14. | <b>Supplying condition.</b>        | SCUBA open circuit diving set (twin cylinder) to be supplied in full assembled condition with all accessories as per mentioned specification in a sealed international standard packing box. No set is to be accepted in separate condition. Manufacturer test certificate is to be submitted with individual set in the packing box with all operation and maintenance manual.                                                |  |
| 15. | <b>Documents.</b>                  | As follows:                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|     | a.                                 | Following documents are to be submitted with the offer:                                                                                                                                                                                                                                                                                                                                                                        |  |
|     |                                    | (1) Original Catalogue/ Manual of offered diving sets with technical specification as mentioned in this document.                                                                                                                                                                                                                                                                                                              |  |
|     |                                    | (2) List of Standard accessories with items wise price.                                                                                                                                                                                                                                                                                                                                                                        |  |
|     |                                    | (3) List of 05 (Five) years spares with items wise price.                                                                                                                                                                                                                                                                                                                                                                      |  |
|     | b.                                 | 01 (One) Set of following documents (in English) are to be provided with each set:                                                                                                                                                                                                                                                                                                                                             |  |
|     |                                    | (1) Operation and Maintenance Manual.                                                                                                                                                                                                                                                                                                                                                                                          |  |
|     |                                    | (2) Spare parts Catalogue.                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 16. | <b>Certification.</b>              | The following Certificates are to be provided (with the offer/ while supplied):                                                                                                                                                                                                                                                                                                                                                |  |
|     | a.                                 | The Diving set are to be certified for Naval diver's use by the Manufacturer (with the offer).                                                                                                                                                                                                                                                                                                                                 |  |
|     | b.                                 | The manufacture will provide factory test certificate of each diving set (While items are supplied).                                                                                                                                                                                                                                                                                                                           |  |
|     | c.                                 | All items will be brand new and also to be supplied from the current production.                                                                                                                                                                                                                                                                                                                                               |  |
|     | d.                                 | The diving set is to be designed and constructed fulfilling the requirements of ISO or internationally recognized organization or society.                                                                                                                                                                                                                                                                                     |  |
| 17. | <b>Authentication Certificate.</b> | The local supplier must provide following original certificates/documents with the offer/quotation to ascertain the genuinity of source and items in order to establish chain of links from the original source to supply items:                                                                                                                                                                                               |  |
|     | a.                                 | One certificate/document by the manufacturer in favour of the supplier (in case of manufacturer as direct source).                                                                                                                                                                                                                                                                                                             |  |
|     | b.                                 | Two certificate/documents, one by the manufacturer to authorized agent and other by the authorized agent to supplier (in case of authorized agent as immediate source).                                                                                                                                                                                                                                                        |  |
|     | c.                                 | Three certificate/documents, first one by manufacturer to authorized agent, second one by authorized agent to sub-agent and third one by sub-agent to supplier (in case of sub-agent as immediate source). If the supplier is unable to obtain the first certificate (by manufacturer to authorized agent), then it has to produce relevant document to prove agency-ship of its claimed agent of the recognized manufacturer. |  |
|     | <b>User list.</b>                  | A list of user navies of the items is to be mentioned.                                                                                                                                                                                                                                                                                                                                                                         |  |



|     |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |            |                   |                    |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|--------------------|
| 19. | <b>Brochure.</b> A set of original brochure/booklet in English having full equipment information of individual items the offered model of diving set and accessories to be supplied for each set.. Newly prepared customized Brochure/Catalogue will not be accepted.                                                                                                                                                                       |                                                                                                                                      |            |                   |                    |
| 20. | <b>Manual.</b> A set of original operation and maintenance manual and parts list catalogue in English are to be provided for each set.                                                                                                                                                                                                                                                                                                      |                                                                                                                                      |            |                   |                    |
| 21. | <b>Warranty.</b> 01 year warranty from the date of acceptance of the item by BN is to be provided. If the equipment remains non operational for a certain period due to defect during warranty period, the warranty period will be extended for that period.                                                                                                                                                                                |                                                                                                                                      |            |                   |                    |
| 22. | <b>Test, Trial and Acceptance.</b> The supplier's representative will carry out joint test and trial of diving set and hand over the entire item in fully operational condition. After satisfactory test and trial, an acceptance certificate will be signed by the representative of supplier and buyer. All expense required for the maker/suppliers representative (including air fare, lodging and food) will be borne by the supplier. |                                                                                                                                      |            |                   |                    |
| 23. | <b>Validity.</b> : 30 June 2027                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                      |            |                   |                    |
| 24. | <b>Shipment.</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                      |            |                   |                    |
|     | a.                                                                                                                                                                                                                                                                                                                                                                                                                                          | The supplier will arrange shipment of all items by sea to Chittagong. All port handling charges involved to be paid by the supplier. |            |                   |                    |
|     | b.                                                                                                                                                                                                                                                                                                                                                                                                                                          | All items are to be delivered in seaworthy packing to ensure safe transit by sea up to the consignee.                                |            |                   |                    |
|     | c.                                                                                                                                                                                                                                                                                                                                                                                                                                          | All Items will be consigned to:                                                                                                      |            |                   |                    |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                             | The Commanding Officer<br>Naval Stores Depot<br>New Mooring, Chattogram, Bangladesh                                                  |            |                   |                    |
| 25. | <b>Delivery.</b> All set are to be delivered within <b>10 months</b> after signing contract as per the demonstration sample.                                                                                                                                                                                                                                                                                                                |                                                                                                                                      |            |                   |                    |
| 26. | <b>Terms of Payment.</b> 80% of total CFR value will be paid on completion of shipment of the contracted goods. 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.                                                                                                                                                         |                                                                                                                                      |            |                   |                    |
| 27. | <b>Compliance Statement.</b> A clear and complete Compliance Statement of the tender specification supported by original catalogue is to be submitted for evaluation of the quotation. Incomplete compliance statement may attribute to cancellation of the offer. If any clause of this specification does not commensurate with offered item practically, the deviation has to be spelt out clearly.                                      |                                                                                                                                      |            |                   |                    |
| 28. | <b>Condition for Acceptance of Quotation.</b> Quotation may not be accepted if detailed information/ specifications, original maker's books and catalogue about the same model of the offered item, accessories, scope of supply, etc are not provided.                                                                                                                                                                                     |                                                                                                                                      |            |                   |                    |
| 29. | <b>Price Quotation.</b> Price is to be quoted <b>without import duty</b> in foreign currency (FC) as follows:                                                                                                                                                                                                                                                                                                                               |                                                                                                                                      |            |                   |                    |
|     | <b>Name of Item</b>                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Deno</b>                                                                                                                          | <b>Qty</b> | <b>Unit Price</b> | <b>Total Price</b> |
|     | Twin Cylinder Open Circuit (SCUBA) Diving Set Complete                                                                                                                                                                                                                                                                                                                                                                                      | Set                                                                                                                                  | 50         |                   |                    |

