


**TENDER SPECIFICATION OF SEMI-CLOSED CIRCUIT (SCUBA)
DIVING SET COMPLETE**

Ser	Description	BN Requirements	Suppliers Response/offer
1.	Name of Item	Semi Closed Circuit (SCUBA) Diving Set Complete.	
2.	Purpose	a. Carry out MCM operations and impart training b. Carry out Underwater Explosive Disposal Operation. c. Conduct Mix gas diving training.	
3.	Quantity	10 Sets	
4.	Brand/ /Model	To be mentioned.	
5.	Country of Origin	USA, UK, Australia, Canada, New Zealand, South Korea, Japan, EU Countries.	
6.	Manufacturing Countries	USA, UK, Australia, Canada, New Zealand, South Korea, Japan, EU Countries.	
7.	Year of Manufacture	2019 or Later.	
8.	Colour of the equipment	Black	
9.	Technical Specification		
	a. Principal of Operation	The apparatus should be back worn semi closed circuit underwater breathing apparatus (UBA). The Demand valve should have automatic control mechanism to control the volume of gas in the counter lung. Details operating principal should be mentioned.	
	b. Working depth/ Endurance	To be mentioned as per NATO mixture B, C & D	
	c. Soda lime	2 – 3.5 kg	
	d. Breathing gas	Should be compatible for use the NATO mixture B, C & D	
	e. Dimension	Length – 500 - 530mm Width – 365 - 370 mm Depth – 150 - 250 mm	
	f. Weight	In air - 15-20 kg In water (ready to dive) - Neutral	
	g. Magnetic Signature	Non magnetic, conforming to STANAG 2897, Class A	
	h. Acoustic signature	Low acoustic.	
	j. Operating Temperature	To be mentioned	
	k. Sea Temperature	To be mentioned	
	l. Storage Temperature	To be mentioned	
	m. No of cylinder	The number of cylinder for mixed gas diving should be mentioned	
	n. Working pressure of each cylinder	200-300 Bar	
	p. Volume of each Cylinder	2 - 5 ltrs	
	q. Cylinder Material	The cylinder should be made of non magnetic material. However, supplier should mention the material of the cylinder.	
10.	Configuration Option	The supplier should describe the configuration option in details of the diving apparatus. In this regard, the Boucher of the company has to be provided during submission of the offer. However, supplier should provide following accessories: a. Buoyancy compensation device with integral weight pocket. b. Bite mouthpiece and half mask. c. Integrated Oxygen Partial Pressure (PO2) monitor and decompression computer or similar kind of device.	

		<p>d. Optional separate low magnetic External Breathing System (XBS).</p> <p>e. Dual Mode Mask, permitting breathing from closed and open circuit gas supplies such as XBS.</p> <p>f. Open circuit bailout options for both Bite Mouthpiece and Dual Mode Mask.</p>	
11.	No of Bailout Bottle	To be mentioned	
12.	Bailout Bottle configuration and characteristics	Detail configuration and characteristics of bailout bottle should be described.	
13.	Charging Facility	Charging whips, pressure gauge and other associated gears to be supplied as accompanying items for smooth charging of breathing gas cylinder using booster pump.	
14.	Standard Accessories	Standard accessories must include every item and accessories which are essential to installation and operation of the set. A list of such essential accessories should be included in the quotation.	
15.	Spares	Standard spares list along with price to be quoted separately. Number and quantity of spares will be decided on getting the price.	
16.	Operating Manual:	01 set of operating and maintenance manual in English should be provided during submission of offer.	
17.	Repair Tool kits:	03 in no repair tool kits necessary for maintenance of the diving apparatus are to be provided during supply of the items. The detail of the tool kit is to be mentioned with price during submission of the offer.	
18.	Warranty/Guarantee	<p>a. The supplier must ensure that all items are new and unused. The supplier must provide warranty at least for 01 (one) year from the date of acceptance of the item after satisfactory inspection, test, trial etc as applicable. If any defect/discrepancy of any item arises within the period of warranty, the specific period from the date of notification of the defect/discrepancy to the supplier up to the date of rectification of defect/resolve of discrepancy will have to be deducted from the warranty period for those particular items.</p> <p>b. If any defect/discrepancy arises within warranty period, then the respective item(s) is/are to be replaced free of cost including freight within 03 (three) months from the date of notification of the same to the supplier. In this regard, the supplier must furnish an undertaking with the items by stating, "I do hereby assure that we take the liability to replace all spare parts/items free of cost including freight within 03(three) months from the date of notification about the defect/discrepancy of the spare parts/items by the buyer, if it occurs within the period of warranty". Warranty will be claimed against Fair, Wear & Tear. Misuse or obvious mishandling will not be covered by warranty.</p>	
19.	Certification:	<p>The following certificates are to be provided (with the offer while supplied).</p> <p>(a) The diving sets are to be certified for naval diver's use by the manufacturer (with the offer).</p> <p>(b) The manufacture will provide factory test certificate of each diving set (While items are supplied).</p> <p>(c) All items will be brand new and also to be supplied from the current production.</p>	
20.	User List:	A list of user Navies/Coast Guards, along with supporting documents, user operating the offered model of the items is to be provided.	

21.	Test, Trial & Commission:	The supplier's representative will carry out joint test and trial of diving sets 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.			
22.	Training on Operation & Maintenance	The supplier has to arrange operational diving training and maintenance to 10-12 BN personnel on the equipment. Trainer should be from OEM and should provide operational and maintenance training on diving set for five working days in BNS NIRVIK.			
23.	Expenses of trainer	All the expenses for the trainer will be incurred by the supplier.			
24.	Validity:	Up to 30 June 2020.			
25.	Port of Shipment:	Port of shipment should be from manufacturing country.			
26.	Shipment:	a. The supplier will arrange shipment of all items 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.			
27.	Terms of Payments:	Payment will be made in local currency on completion of delivery and satisfactory acceptance by BN.			
28.	Delivery:	All sets are to be delivered within 06 months after signing the contract to following consignee: The Commanding Officer Naval Stores Depot, Chattogram New Mooring, Chattogram, BANGLADESH			
29.	Liquidated Damage (LD).	LD for late delivery will apply as per existing rules.			
30.	Compliance Statement	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.			
31.	Condition for Acceptance of Quotation:	Quotation may not be accepted if detailed information/specifications, Original maker's book and catalogue about the same model of the offered item, accessories, scope of supply, etc are not provided.			
32.	Price Quotation:	Price is to be quoted without import duties in local currency as those will be consigned against BN:			
	Item	Deno	Qty	Unit Price	Total Price
	Semi-Close Circuit (SCUBA) Diving Set Complete	Sets	10		
33.	Any other necessary relevant items are to be mentioned and quoted separately.				


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