



भारत सरकार
Government of India
पृथ्वी विज्ञान मंत्रालय
Ministry of Earth Sciences



राष्ट्रीय तटीय अनुसंधान केन्द्र (एन सी सी आर)
NATIONAL CENTRE FOR COASTAL RESEARCH (N C C R)

LIMITED E-TENDER ENQUIRY

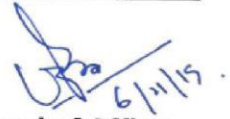
(Through E-tendering process only)

To

Ref No: MoES/ICMAM-PD/CRAM/Equipment/Boat/75/2017

06.11.2019

1	The offers are invited for supply of SCUBA Diving Equipment along with Pressure Breathing Air Compressor as per the description of technical specifications in Annexure-I and also terms and conditions mentioned below:	
2	Type of tender	LIMITED TENDER (e-Tender)
3	Quantity	4 Sets SCUBA & 1 No. Air compressor
4	Tender document	Available at the websites : i) https://eprocure.gov.in/eprocure/app ii) https://www.nccr.gov.in
5	Mode of tender	Online Bidding System pl. submit through the website https://eprocure.gov.in/eprocure/app
6	EMD	Nil
7	Tender	Nil
8	Due date & time of submission of required documents offline at NCCR, Chennai	Upto 2 pm IST of 05.12.2019
9	Due date & time of online bidding by bidders	Upto 5 pm IST of 05.12.2019
10	Due date & time of opening of Part-I offer on-line i.e., techno-commercial bid	At 5 pm IST of 06.12.2019
11	Specification of the item	Annexure-I
12	Instructions to bidders	Annexure-II


Head of Office

रा.स.प्री.सं. परिसर, वेलच्चेरी तांबरम मेन रोड, पल्लिकरणै, चेन्नै-600 100.
NIOT Campus ,Velachery-Tambaram Main Road, Pallikaranai, Chennai-600 100.
दूरभाष/Tel : 91-44-66783599 Fax: 66783487

Annexure-I**Technical specification**

Item Name : **SCUBA Diving Equipment along with Pressure Breathing Air Compressor Qty. 4 Sets and 1 No.**

S.No	Name of Item	Specification	Qty.
1.	Diving Mask	<ol style="list-style-type: none"> 1. Tempered single glass/window, wide vision 2. Polycarbonate frames with liquid silicone skirt. 3. Easy nose seal for compensation, 4. Non-slip double strap and quick-adjust strap buckle <ul style="list-style-type: none"> • Should be supplied with one spare strap for each mask 	1
2.	Snorkel	<ol style="list-style-type: none"> 1. Elliptic tube with smooth corrugated flexes connector 2. Adjustable polycarbonate mouthpiece extensions with purge valve and liquid silicone mouthpiece. 3. Semi dry deflector to prevents water entering the tube 4. Easy adjustable snorkel holder for attaching to mask strap <ul style="list-style-type: none"> • Should be supplied with one spare of liquid silicone mouth piece with each snorkel 	1
3.	Buoyancy control device	<ol style="list-style-type: none"> 1. Durable ballistic nylon construction with large internal volume bladder with spacious accessory pockets and external netted pockets. 2. Detachable chest buckle and strap, and self-adjusting elastically abdominal belt with adjustment ring, 3. Cushioned adjustable "bolt-on" shoulders and adjustable & removable sternum strap, 4. Dual cam-lock tank straps, welded stainless steel D-rings, Rapid exhaust dump valve, Rear pull dump, Over pressure exhaust valve, <ul style="list-style-type: none"> • Should provide minimum necessary spares with each BCD 	4
4.	Regulator and Octopus	<p>First Stage regulator 1 No</p> <ol style="list-style-type: none"> 1. Made with corrosion resistant marine brass and durable, satin chrome plated finish. 2. First stage with balanced diaphragm with polyurethane high-pressure swivel mechanism. 3. Two high and four low-pressure pre-angled ports with internal inlet filter. 4. High and low pressure hose with large inside diameter for BCD, Console and II stage <p>Second stage regulator, (Diver& Buddy 1+1 No.)</p> <ol style="list-style-type: none"> 1. Pneumatically balanced, flow control adjustment to increase or decrease the air volume 2. Internal parts and lever should be made up of titanium 3. External cover should be made up of lightweight thermo plastic materials/combined with stainless steel/marine brass components. 4. Mouth piece made up of liquid silicone rubber <ul style="list-style-type: none"> • Should be supplied with one spare diaphragm and one liquid silicon mouth piece with each regulator <p>Console 1 No.</p> <ul style="list-style-type: none"> • Console with pressure gauge, depth gauge and compass 	4
5.	Wet suit (Neoprene)	<p>Men's full suit medium size, raw/cut collar, black/blue colour.</p> <p>Made up of 3-6 mm neoprene, integrated kneepad, and vertical polymer zipper on</p>	6

		back with nylon webbing thumb loop.	
6.	Hand gloves	Nylon /neoprene upper 3-5 mm, bottom 3-5 mm synthetic anti slip grip with adjustable wristband and Velcro closure	1
7.	Weight belt	Adjustable nylon belt black/blue colour with stainless steel quick release mechanisms	6
8.	Weights	Fluorescent yellow color plastic coated weights of 1- 2 Kg each	2
9.	Boots	Medium size boots, 4-6 mm neoprene construction with toe& heel cap and polymer zipper. Heavy duty molded sole 5- 7 mm sole with anti-slip reinforcement	1
10.	Fin	Open heel type medium size, made up of durable nylon, with soft comfort foot pocket. Adjustable buckles and strap made up of high quality and durable plastic. <ul style="list-style-type: none"> One spare strap and buckles with each set 	6
11.	Diving Knife	<ol style="list-style-type: none"> Non-corrosive solid 12-15 cm stainless/titanium knife blade, sharp pointed, with straight and serrated cutting edges. Stainless steel/titanium knob butt for signaling, Ozone resistant quick release knife straps Knife should be provided with Quick release sheath. Quick disassembly facility without tools. <ul style="list-style-type: none"> One spare strap with each set 	4
12.	SCUBA Tank/Cylinder	<ol style="list-style-type: none"> ISO certified Nitrox- ready, Aluminum cylinder with standard K Valve. Pressure 3000 psi/200 bar; Capacity 1970- 2190 L, Diameter 175 - 185 mm, Length 160 - 165 mm; Empty wt. 12 – 14 kg, Factory finished durable yellow fluorescent spray-painted. <ul style="list-style-type: none"> Should be supplied with 50 spare O-rings 	4
13.	Diving instrument bag	<ol style="list-style-type: none"> Durable PVC coated nylon trolley bag with large zipper, inline stake wheel made up of polyurethane, retractable handles. Main storage compartment with a dual cursor and 2 side pockets and external mesh pockets and shoulder strap 	6

Compressor Breathing Specification Qty. 1 no.

1.	Compressor		
	Type		Reciprocating, air cooled, dynamically balanced, belt driven portable
	Number of compression	:	3-4 stages
	Number of cylinders	:	3-4 Nos.
	Free Air Delievry (FAD)	:	100 Liters per minute
	Operating Pressure	:	200 bar
	Max Pressure	:	225 bar
	MOC of crank case, shaft, connecting rod and pistons	:	High strength non corrosive material
	Safety Relief Valve	:	The final SRV should be CE certified and approved by notified body with their number punched on safety valve.
	Oil & Water Separator	:	Should be provide with manual drain valve
2.	Prime Mover		
	Type		Petrol Engine
	Power		5 kW
	Operation		Manual start and stop
3.	Air purification system		
			Triplex filter system with activated carbon and molecular sieve for (drying, neutralization, micro filtering) to convert carbon monoxide into carbon

			dioxide for petrol engine driven compressor.
	Air quality		According to DIN EN 12021 breathing air quality std.
4.	Filling connection/device		Stainless steel filling connector/SCUBA yolk with pressure gauge, bleed valve, one meter high pressure filling hose with kink protection for filling of SCUBA cylinders with K valve up to 200 bar as per DIN standards.
5.	Mounting		Solid corrosion resistant frame
6.	Accessories		Filtration cartridges 5 No and 2000 ml compressor oil
7.	Warranty		One year warranty for the entire system from the date of installation
8.	Experience		The supplier must have supplied similar configured instrument to government or semi government organization anywhere in India in the past five years
9.	Service and support		The supplier must have service facility based at India
10.	Catalogue		Original OEM printed catalogue as proof for the technical specifications
11.	Supply and Installation		Should be supplied at NCCR Chennai
12.	Training		Comprehensive training on operation, handling, maintenance should be provided during installation
13.	Price		The price quote should be inclusive for the supply and installation at NCCR Chennai
14.	Quotations		Only OEM or Authorized dealers should quote with OEM authorized dealership certificate

Instructions to Bidders

1	<p>BASIC REQUIREMENTS for vendors to upload in e-procurement web site, Govt of India:</p> <ul style="list-style-type: none">i. PC with internetii. Registration with e-procurement system of Govt. of India: https:// eprocure.gov.in /eprocure/appiii. Digital signature certificate (Mandatory) for uploading the bids to e-procurement systemiv. For any clarification, send e-mail to nccr@nccr.gov.inv. For any clarification on tender process, use the 24/7 helpline contact numbers mentioned in CPP Website.
2	The NCCR has the RIGHT TO CANCEL the enquiry or extend the due date of receipt of offer and/ or opening of tender without assigning any reason thereof.
3	NCCR, Chennai has the RIGHT TO VARY the quantity of the items under procurement.
4	<p>TWO BID SYSTEM</p> <p>A. Online Technical bid B. Online price bid</p> <p>A. TECHNICAL BID: The bidder should submit the scanned copy for online submission and the same original hard copy of all the following documents as part of the Technical Bid in the stipulated format. The cover containing the necessary technical bid documents should be superscribed by "Tender Ref No: MoES/ICMAM-PD/CRAM/Equipment/Boat/75/2017 Part I Technical BID for "SCUBA Diving Equipment along Pressure Breathing Air Compressor"."</p> <p>Manual submission of technical bid documents along with the relevant documents should be submitted to NCCR, on or before the due date of online e-tender submission (i.e on or before 26.08.2019, 03:00 hrs Indian standard time). Please note that the PRICE BID should be submitted through ONLINE ONLY.</p> <p>B.ONLINE SUBMISSION: The bidders must submit their offer in Two Bid (Both Technical and Price bid) through e-procurement system upto the scheduled time and date.</p> <p>Complete tender documents along with supporting documents as per the</p>

	<p>tender conditions below, should be duly filled in and signed in and scanned copy of the same should be uploaded in the e-procurement system.</p> <ol style="list-style-type: none"> i. All the documents, as per Eligibility criteria/ technical specifications ii. List of the documents submitted by the bidder must be enclosed on the letter head of the bidder, giving the reference of the tender no. & date and due date of opening. iii. A list of reputed clients to whom the firm has supplied similar items to be furnished along with the quotation. iv. Overwriting and corrections should be attested properly,. The quotation should be complete in all aspects and should be duly signed. Incomplete and unsigned quotation will not be considered at all. v. Scanned copy of Tender Acceptance Letter as per ANNEXURE-III vi. Scanned copy of Technical Compliance Sheet as per ANNEXURE-IV vii. Scanned copy of details of Components and Products of the required item as per ANNEXURE - V viii. Check list as per ANNEXURE - VI - "Check List" ix. In case tenderer divert the tender and opts to submit its offer through their authorized entity, then authorization letter in original duly signed for specific tender should be submitted along their by the firm quoting on their behalf. x. The bidders / tenders will not be allowed to make any variations in the price bid or any amendments to commercial offers already uploaded online and after the date of opening of the tender. xi. Tenderer shall confirm that "the rates quoted by are reasonable and lowest charged to any of your customer". Please enclose documentary proof such as latest purchase order copies etc., to substantiate the reasonability of price. xii. Safe arrival of material upto destination shall be the responsibility of the supplier
5	VALIDITY OF QUOTATION: The offers must remain open for acceptance for 180 days from the date of opening of tender.
6	EVALUATION OF BIDS: After opening of bids, ranking statement will be prepared and the finalization of successful bidder will be done on L-1 (the lowest price) basis.
7	Director, NCCR reserves the RIGHT TO REJECT any quotation received without assigning any reasons.
8	DELIVERY PERIOD: The bidders are required to quote delivery period at the earliest indicating commencement and completion of supply on FOR destination basis. However in case extension of delivery period becomes essential, the supplier will send their request for extension of delivery period to the purchaser before expiry of delivery period.
9	LIQUIDATED DAMAGES: If the supplier fails to deliver the goods within the time to be agreed upon, for delayed deliveries and for delays in installation (whatever applicable) NCCR reserves the right to levy liquidated damages at the rate of 0.5%per week or par their upto maximum of 5%.
10	NO ADVANCE PAYMENT: Since NCCR being Government organization, no advance payment will be made. Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later.

Tender Acceptance (Offer) Letter

(To be submitted online duly signed format (scanned copy) by the authorized signatory on bidder's company letter head.

Date.....

To

**The Director,
National Centre for Coastal Research
2nd Floor, NIOT Campus
Pallikaranai, Chennai – 600100**

Subject: Acceptance in respect of terms and conditions of tender document for supply of _____ (specify item name) at NCCR, Chennai.

Ref: E Proc Tender Ref No..... dated.....

Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned tender from the web site <https://eprocure.gov.in/eprocure/app>.
2. I / We hereby certify that I / We have read all the terms and conditions of tender document from page No. _____ to _____ (including all annexure / Forms / appendixes, paras, etc.,) which shall part of the contract agreement and I / we shall abide hereby by all the terms and conditions contained therein.
3. The corrigendum(s) issued from time to time by your organization has also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept all the terms and conditions of above mentioned tender document and corrigendum(s) as applicable.
5. In case any provisions of this letter are found violated, then your department / organization shall without prejudice to any other right or remedy be at liberty to reject my bid.
6. I / We confirm that our bid shall be valid up to 120 days from the date of opening of Bid.
7. I / We hereby certify that all the statements made and information supplied in the enclosed appendix, annexure / Forms / paras etc., furnished herewith are true and correct.
- 8/ I / We have furnished all information and details necessary for demonstrating our qualification and have no further prominent information to supply.
9. I / We understand that you are not bound to accept the lowest or any bid you may receive.
10. I / We certify / confirm that we comply with the eligibility requirements as per bid documents.
11. In case any provisions of this tender are found violated, NCCR shall be at liberty to reject this tender and we shall not have any claim against NCCR in satisfaction of this condition.

Yours faithfully,

**Signature of the Bidder
Name & Designation
Rubber-stamp of the firm**

Technical Compliance Sheet

(Bidders are requested to give Compliance of each Specification whether equipment being offered by them is complying with Specification or otherwise)

S.No	Name of Item	Specification	Qty.	Compliance Yes/No
1.	Diving Mask	5. Tempered single glass/window, wide vision 6. Polycarbonate frames with liquid silicone skirt. 7. Easy nose seal for compensation, 8. Non-slip double strap and quick-adjust strap buckle <ul style="list-style-type: none"> • Should be supplied with one spare strap for each mask 	10	
2.	Snorkel	5. Elliptic tube with smooth corrugated flexes connector 6. Adjustable polycarbonate mouthpiece extensions with purge valve and liquid silicone mouthpiece. 7. Semi dry deflector to prevents water entering the tube 8. Easy adjustable snorkel holder for attaching to mask strap <ul style="list-style-type: none"> • Should be supplied with one spare of liquid silicone mouth piece with each snorkel 	10	
3.	Buoyancy control device	5. Durable ballistic nylon construction with large internal volume bladder with spacious accessory pockets and external netted pockets. 6. Detachable chest buckle and strap, and self-adjusting elastically abdominal belt with adjustment ring, 7. Cushioned adjustable "bolt-on" shoulders and adjustable & removable sternum strap, 8. Dual cam-lock tank straps, welded stainless steel D-rings, Rapid exhaust dump valve, Rear pull dump, Over pressure exhaust valve, <ul style="list-style-type: none"> • Should provide minimum necessary spares with each BCD 	4	
4.	Regulator and Octopus	<p>First Stage regulator 1 No</p> 5. Made with corrosion resistant marine brass and durable, satin chrome plated finish. 6. First stage with balanced diaphragm with polyurethane high-pressure swivel mechanism. 7. Two high and four low-pressure pre-angled ports with internal inlet filter. 8. High and low pressure hose with large inside diameter for BCD, Console and II stage <p>Second stage regulator, (Diver& Buddy 1+1 No.)</p> 5. Pneumatically balanced, flow control adjustment to increase or decrease the air volume 6. Internal parts and lever should be made up of titanium 7. External cover should be made up of lightweight thermo plastic materials/combined with stainless steel/marine brass components. 8. Mouth piece made up of liquid silicone rubber <ul style="list-style-type: none"> • Should be supplied with one spare diaphragm and one liquid silicon mouth piece with each regulator <p>Console 1 No.</p> <ul style="list-style-type: none"> • Console with pressure gauge, depth gauge and 	4	

		compass		
5.	Wet suit (Neoprene)	Men's full suit medium size, raw/cut collar, black/blue colour. Made up of 3-6 mm neoprene, integrated kneepad, and vertical polymer zipper on back with nylon webbing thumb loop.	6	
6.	Hand gloves	Nylon /neoprene upper 3-5 mm, bottom 3-5 mm synthetic anti slip grip with adjustable wristband and Velcro closure	10	
7.	Weight belt	Adjustable nylon belt black/blue colour with stainless steel quick release mechanisms	6	
8.	Weights	Fluorescent yellow color plastic coated weights of 1- 2 Kg each	20	
9.	Boots	Medium size boots, 4-6 mm neoprene construction with toe& heel cap and polymer zipper. Heavy duty molded sole 5- 7 mm sole with anti-slip reinforcement	10	
10.	Fin	Open heel type medium size, made up of durable nylon, with soft comfort foot pocket. Adjustable buckles and strap made up of high quality and durable plastic. <ul style="list-style-type: none"> One spare strap and buckles with each set 	6	
11.	Diving Knife	<ol style="list-style-type: none"> Non-corrosive solid 12-15 cm stainless/titanium knife blade, sharp pointed, with straight and serrated cutting edges. Stainless steel/titanium knob butt for signaling, Ozone resistant quick release knife straps Knife should be provided with Quick release sheath. Quick disassembly facility without tools. <ul style="list-style-type: none"> One spare strap with each set 	4	
12.	SCUBA Tank/Cylinder	<ol style="list-style-type: none"> ISO certified Nitrox- ready, Aluminum cylinder with standard K Valve. Pressure 3000 psi/200 bar; Capacity 1970- 2190 L, Diameter 175 - 185 mm, Length 160 - 165 mm; Empty wt. 12 – 14 kg, Factory finished durable yellow fluorescent spray-painted. <ul style="list-style-type: none"> Should be supplied with 50 spare O-rings 	4	
13.	Diving instrument bag	<ol style="list-style-type: none"> Durable PVC coated nylon trolley bag with large zipper, inline stake wheel made up of polyurethane, retractable handles. Main storage compartment with a dual cursor and 2 side pockets and external mesh pockets and shoulder strap 	6	

1.	Compressor			Compliance Yes/ No
	Type		Reciprocating, air cooled, dynamically balanced, belt driven portable	
	Number of compression	:	3-4 stages	
	Number of cylinders	:	3-4 Nos.	
	Free Air Delievry (FAD)	:	100 Liters per minute	
	Operating Pressure	:	200 bar	
	Max Pressure	:	225 bar	
	MOC of crank case, shaft, connecting rod and pistons	:	High strength non corrosive material	
	Safety Relief Valve	:	The final SRV should be CE certified and approved by notified body with their number punched on safety valve.	
	Oil & Water Separator	:	Should be provide with manual drain valve	
2.	Prime Mover			
	Type		Petrol Engine	
	Power		5 kW	
	Operation		Manual start and stop	
3.	Air purification system			
			Triplex filter system with activated carbon and molecular sieve for (drying, neutralization, micro filtering) to convert carbon monoxide into carbon dioxide for petrol engine driven compressor.	
	Air quality		According to DIN EN 12021 breathing air quality std.	
4.	Filling connection/device		Stainless steel filling connector/SCUBA yolk with pressure gauge, bleed valve, one meter high pressure filling hose with kink protection for filling of SCUBA cylinders with K valve up to 200 bar as per DIN standards.	
5.	Mounting		Solid corrosion resistant frame	
6.	Accessories		Filtration cartridges 5 No and	

			2000 ml compressor oil	
7.	Warranty		One year warranty for the entire system from the date of installation	
8.	Experience		The supplier must have supplied similar configured instrument to government or semi government organization anywhere in India in the past five years	
9.	Service and support		The supplier must have service facility based at India	
10.	Catalogue		Original OEM printed catalogue as proof for the technical specifications	
11.	Supply and Installation		Should be supplied at NCCR Chennai	
12.	Training		Comprehensive training on operation, handling, maintenance should be provided during installation	
13.	Price		The price quote should be inclusive for the supply and installation at NCCR Chennai	
14.	Quotations		Only OEM or Authorized dealers should quote with OEM authorized dealership certificate	

D Signature of the Bidder
Name:
Designation:
Rubber-stamp of the firm

Components and Products

(In response to technical requirement kindly fill up the details of component & products pertaining to the item requirement, in the following format).

Sl.No	Brand Name and Name of the OEM	Product name of Proposed Model	Quantity	Remarks

Signature of the Bidder
Name & Designation:
Rubber-stamp of the firm

Check List

(Following documents are to be submitted online as a part of Technical bid. Bidders are requested to put a √ mark for ensuring submission of document in the appropriate one)

Sl. No	Description	Online submission	Manual submission
1	Duly signed price bid along with standard terms & conditions.	Submitted / Not Submitted	Should not submit
2	Authorisation letter by OEM (original scanned copy by online & Manual submission) for participating this tender	Submitted / Not Submitted	Submitted / Not Submitted
3	Tender Acceptance Letter by online & Manual submission	Submitted / Not Submitted	Submitted / Not Submitted
4	Details of Products and Components as per Appendix -v	Submitted / Not Submitted	Submitted / Not Submitted
5	Technical Compliance sheet as per Appendix -iv	Submitted / Not Submitted	Submitted / Not Submitted
6	Any other relevant document / Product broacher (scanned copy by online)	Submitted / Not Submitted	Submitted / Not Submitted
7	This Check list Annexure-VI (scanned copy by online & Manual submission)	Submitted / Not Submitted	Submitted / Not Submitted

Signature of the Bidder
Name & Designation
Rubber-stamp of the firm