

राष्ट्रीय अंटार्कटिक एवं  
समुद्री अनुसंधान केन्द्र  
पृथ्वी विज्ञान मंत्रालय  
भारत सरकार  
हेड लैण्ड सडा, वास्को डा गामा  
गोवा- ४०३ ८०४ भारत



**NATIONAL CENTRE FOR  
ANTARCTIC & OCEAN RESEARCH**

Ministry of Earth Sciences  
Government of India  
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**PROCUREMENT SECTION**

**FOREIGN ENQUIRY**

**M/s.**

**Ref. No.:**

LHE-20158

**Date:**

12.10.2017

**Due Date:**

30.10.2017

**Dear Sirs,**

We require the following items for XXXVII Indian Antarctic Expedition. Manufacturers, dealers, Bonafide vendors, distributors/authorized agents are requested to quote for the following items as per the terms and conditions mentioned below.

<b>SL. NO.</b>	<b>ITEM DESCRIPTION</b>	<b>QUANTITY</b>
	<b>Spares &amp; Consumables</b>	
01	Spares for Systems of Kitchen Brand: Halton, SMARTEH Living Systems, Siemens, Faber (As per Appendix -I)	(As per Appendix -I)
02	Spares for Medical Room Brand: BENDER, Weidmuller, HP/APC, SUNON. (As per Appendix -II)	(As per Appendix -II)
03	Spares for Deep Freezer Container Brand: Pego Electricals, GE, Falcon, ICAR Ital, ABB, Silensys, Carrier. (As per Appendix -III)	(As per Appendix -III)
04	Spares for Life Support Systems Brand: Socomec, MECO, Fasel Elektronik, Gewiss, Chorus, Halukabel, Phoenix Contact, Osram, Siemens, Chloride safe power, Datwyler Pyrosys, Hansa Flex, Heyco, YUASA, Oventrop GmbH & Co. KG, CWT, Culligan Wassertechnik AG, FlakWoods, SKF, Johnsons Valves, sterilAqua, Grundfoss, Honeywell FEMA, GF, Clack Corporation (Inaqua) (As per Appendix -IV)	(As per Appendix -IV)

**Your offer should contain the following information:**

1. Submit your quotation on CIF Capetown basis.
2. Delivery Period: **Delivery on or before 10<sup>th</sup> Dec 2017 at Capetown. Please confirm the exact date of delivery.**

3. Validity of quotation:
4. Quantity/Trade discounts, if any. :
5. Guarantee/Warranty of the product:
6. Taxes applicable (VAT if any):
7. Enclose brochure/leaflet – Specification:
8. **No advance payment** will be made. However payment will be considered as follows:- **75% payment against delivery in Cape Town by Telegraphic Transfer and remaining 25% after inspection at Bharati.**
9. Overwriting and corrections should be attested properly. The quotation should be complete in all respects and should be duly signed. Incomplete and unsigned quotation will not be considered at all. Quotation should be submitted as per NCAOR terms and conditions.
10. All relevant technical literature pertain to items quoted **with full specifications** (Drawing, if any), information about the products quoted, including brochures if any should accompany the quotation.
11. A list of **reputed clients** to whom the firm has supplied similar items to be furnished along-with the quotation.
12. Quotation should be **valid for a period of 90 days** and the period of delivery required should also be clearly indicated. If the supplier fails to deliver the goods within the time to be agreed upon, for delayed deliveries and for delays in installation (wherever applicable) NCAOR reserves the right to **levy liquidated damages** at the rate of 0.5% per week or part thereof upto maximum of 5%.
13. Please **specify the Make/Brand** and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.
14. **CIF prices upto Capetown.** However quotation should contain item-wise prices including total ex-works price and cost of packing forwarding, approx. cost of air-freight charges for delivery upto Capetown.
15. A technical Committee constituted by the Director will assess the product supplied/installed for their quality and their conformity to the specifications provided by the firm in their quotations. Any item(s) identified by the Committee to be not as per the specifications or are found to be of inferior quality will be rejected, and the bills towards the supply will not be processed for payment till proper replacements are provided.

**Please enclose documentary proof such as latest purchase order copies/pricelist etc., to substantiate the reasonability of price.**

**Note: Please enclose a copy of valid Authorized Dealership/Distributor Certificate obtained from OEM.**

**The prices shall be quoted in freely convertible foreign currency in case of offers received for imported stores.**

**You have to confirm that the “the rates quoted by you are reasonable and lowest & not exceeding the lowest rates charged to any of your other client.**

**Director, NCAOR reserves the right to reject any quotation received without assigning any reasons.**

**Yours faithfully**  
**Sd/-**  
**Head (Procurement & Stores)**  
**For and on behalf of Director, NCAOR**

## **TENDER ACCEPTANCE UNDERTAKING**

To

The Director,  
**NCAOR, Headland Sada,**  
Vasco – Goa.

Having examined the tender document for **Spares for Systems of Kitchen, Spares for Medical Room, Spares for Deep Freezer Container, Spares for Life Support Systems**, we the undersigned hereby offer to supply the material in conformity with all specifications and conditions set out in the tender document.

We enclosed all the relevant documents as per the tender.

We understand that you are not bound to accept the lowest or any tender received.

**Date :**

**(Signature of Bidder)**

**Name :**

**Designation :**

Seal

**SPECIFICATIONS FOR SPARES FOR SYSTEMS OF KITCHEN.**

<b>Sr. No.</b>	<b>Item Description</b>			<b>Brand</b>	<b>Qty.</b>
	<b>Part Name</b>	<b>Type</b>	<b>Model No.</b>		
	<b>Spares for Systems of Kitchen</b>				
1.1	Main UV Module		LHC-1.MU1	Halton	1 No.
1.2	VAV Module		LHC-1.VV1	Halton	1 No.
1.3	(i) 7" Longo Touch Screen for Halton Kitchen Hood (ii) Power Supply for longo touch screen	Windows CE Core 5.0	(i) LTS-1.PC1 (ii) LPS-2	SMARTEH Living Systems	1 No.
1.4	Emergency On/Off switch	3 Pole, 690 V, 25 A, IP65	3LD21-03-0TK53	Siemens	2 Nos.
1.5	Bulb for FABER Gas Stove Model: FCR 114L 5B HECIR Code: 9800596 Sr No: 160035077	220-240V AC, 15/25W, Socket: E14		Faber	3 Nos.
1.6	Knob Regulator for FABER Gas Stove Model: FCR 114L 5B HECIR Code: 9800596 Sr No: 160035077			Faber	5 Nos.
1.7	Lighter / Igniter for FABER Gas Stove Model: FCR 114L 5B HECIR Code: 9800596 Sr No: 160035078			Faber	5 Nos.

**SPECIFICATIONS FOR SPARES FOR MEDICAL ROOM.**

<b>Sr. No.</b>	<b>Item Description</b>			<b>Brand</b>	<b>Qty.</b>
	<b>Part Name</b>	<b>Type</b>	<b>Model No.</b>		
	<b>Spares for Medical Room</b>				
2.1	Keypad		MK2430 COMTRAXX	BENDER	1 No.
2.2	Power Supply	CP SNT 48W 24V 2A	8739149999	Weidmuller	1 No.
2.3	Display Unit		RCMS460 LINETRAXX	BENDER	1 No.
2.4	V Monitor		SUE487	BENDER	1 No.
2.5	Display Unit		PRC487	BENDER	1 No.
2.6	Transformer		AN 450	BENDER	1 No.
2.7	A-ISOMETER		107TD47	BENDER	1 No.
2.8	UPS 1000VA	Wattage: 1000VA, Input: 230V 6A 1Ph 50Hz, Output: 230V 1Ph 50Hz.		HP / APC	2 Nos.
2.9	Axial Fan, Alveolate Motor, High Speed, Wire Leaded, Ball,	240 VAC	A2175-HBL	SUNON	2 Nos.

## SPECIFICATIONS FOR SPARES FOR DEEP FREEZER CONTAINER

Sr. No.	Item Description			Brand	Qty.
	Part Name	Type	Model No.		
	<b>Spares for Deep Freezer Container</b>				
3.1	Control Panel for Cold Rooms Deep Freezer	230V AC +/-10d, 50Hz, 7VA Temp: -10 to +60dC	Type: ECP 200 EXPERT Sr No: 601100290 1	Pego Electricals	1 No.
3.2	Relay		3ARR3T6AE 3	GE	2 Nos.
3.3	Capacitor	156 microF -0+20% 330V 50Hz	Type: 04P.55E662	Falcon	2 Nos.
3.4	Motor Run Capacitor	25uF, +-10% P2	MLR25 L40 25045103/I -MK S	ICAR Ital	5 Nos.
3.5	Switch- Disconnectors with		OT16FT3 Product ID: 1SCA10483 8R1001	ABB	4 Nos.
3.6	Auxiliary contact switch fuse for OT16FT3		OA1G10 Product ID: 1SCA02235 3R4970	ABB	4 Nos.
3.7	Contactator		A9-30-01 Product ID: 1SBL14100 1R8001	ABB	3 Nos.
3.8	Contactator		A16-30-01- 13 Product ID: 1SBL17700 1R1301	ABB	3 Nos.
3.9	Manual Motor Starter		MS132-12 Product ID: 1SAM3500 00R1012	ABB	3 Nos.
3.10	Grill for Outdoor Condensor Unit		8363500	Silensys	1 No.
3.11	ML3 controller pre- programmed plug & play operation	Carrier Container Model No: 69NT40- 561-205 (OLD CONTAINER)	12-55011	Carrier	1 No.
3.12	ML2i Controller – NEW and loaded with software and correct configuration plug & play operation	Carrier Container Model No: 69NT40- 541-503 (NEW CONTAINER)	12-55011	Carrier	1 No.

3.13	Discharge Pressure transducers (DPT)	Carrier Container Model No: 69NT40-561-205	12-00352-00	Carrier	1 No.
3.14	Suction & Evaporator pressure transducers		12-00655-01	Carrier	1 No.
3.15	Return Recorder Sensor (RRS) / Return Temperature Sensor (RTS)		12-00500-01SV	Carrier	1 No.
3.16	Supply Temperature Supply/Recorder Sensor Assembly (STS/SRS)		12-00395-02SV	Carrier	1 No.
3.17	Contactator 12A	Carrier Container Model No: 69NT40-561-205 69NT40-541-503	Carrier Transicold 10-00431-06	Carrier	5 Nos.
3.18	Contactator 30A		Carrier Transicold 10-00431-12 / 12-00431-07	Carrier	5 Nos.
3.19	Main Transformer		10-00332-21SV	Carrier	1 No.
3.20	Current Transformer For ML3		10-00439-02	Carrier	1 No.
3.21	Current Transformer For ML2i		10-00439-00	Carrier	1 No.
3.22	Defrost Temperature Sensor (DTS) & Ambient Sensor		12-00495-02SV	Carrier	2 Nos.
3.23	Heater Termination Thermostat (HTT)		12-00170-08	Carrier	1 No.
3.24	HP without Snubber		12-00309-05	Carrier	1 No.
3.25	HP with Snubber		12-00309-06	Carrier	1 No.
3.26	Fusible Plug 3/8" packet of 2 in condenser section		14-01032-14	Carrier	1 No.

## SPECIFICATIONS FOR SPARES FOR LIFE SUPPORT SYSTEMS.

Sr. No.	Item Description			Brand	Qty.
	Part Name	Type	Model No.		
	<b>Spares for Life Support Systems</b>				
4.1	Mains Rotary Switch 3Pole		Sirco M40	Socomec	5 Nos.
4.2	Mains Rotary Switch 4Pole		Sirco M100	Socomec	5 Nos.
4.3	Digital Clamp Meter		1080 TRMS	MECO	3 Nos.
4.4	Humidity Sensor for Sauna		FCU-SENSOR-HUMIDITY-A	Fasel Elektronik	2 Nos.
4.5	Oven Sensor for Sauna		FCU-SENSOR-OVEN-A	Fasel Elektronik	2 Nos.
4.6	Bench Sensor for Sauna		FCU-SENSOR-BENCH-A	Fasel Elektronik	2 Nos.
4.7	Combined Sensor (bench & humidity)		FCU-SENSOR-HUMIDITY-BENCH-A	Fasel Elektronik	2 Nos.
4.8	4 Gang self supporting empty container-IP55 RAL7035	Ware Number:85381000	GW16514	Gewiss Chorus	20 Nos.
4.9	1 x 16 qmm Single Core Cable		KOMPOSPEED® 600 Part no. 60290	Halukabel	100 Nos.
4.10	1 x 35 qmm Single Core Cable		KOMPOSPEED® 600 Part no. 60292	Halukabel	100 Nos.
4.11	High-current terminal block Gray Color		Type: UKH 95 Order No.: 3010013	Phoenix Contact	24 Nos.
4.12	High-current terminal block Blue Color		Type: UKH 95 Order No.: 3010136	Phoenix Contact	8 Nos.
4.13	Halogen Tube 500W Warmwhite		T12	Osram	20 Nos.
4.14	32A 3Pole MCB C32		5SY43	Siemens	5 Nos.
4.15	Battery 12V,7 Ah		CS 7-12	Chloride safe power	4 Nos.
4.16	Hermann clamp S Multi cable support E30-E90		Art No: 3800199	Datwyler Pyrosys	2 Nos.
4.17	Type B strap clamp without trough Multi cable support E30-E90	B 38 D	Art No: 1300051	Datwyler Pyrosys	2 Nos.
4.18	Flexible Hose pipe 1 Meter Long with X-Code Set PF22-1/2"	Size: DN12, Operation Pressure: 58Bar	TE 213 B/EN854/2TE	Hansa Flex	6 Nos.
4.19	Push-through ratchet		50-00-1	Heyco	2 Nos.



	With connecting quarter DIN 3122 C Chrom-Vanadium				
4.20	Valve Regulated Lead Acid Battery	12V 65 Ah	NP65-12I	YUASA	2 Nos.
4.21	Bypass isolating valve with handwheel for softner unit	DN 25, Rp 1 x Rp 1, with isolating valves, draining plugs and handwheel	Item no.: 6105108 EAN: 4026755248821	Oventrop GmbH & Co. KG	1 No.
4.22	Bonnet for bypass isolating/mixing valve DN 25, bonnet with O-ring		Item no.: 6109552 EAN: 4026755295764	Oventrop GmbH & Co. KG	2 Nos.
4.23	Conductivity Meter for Softner Unit	For Destillo-Ionenaustauscher druckfest 26		CWT Culligan Wassertechnik AG	1 No.
4.24	Round Drive Belt for Rotary Heat Exchanger		Heat Exchanger Details: WRR U SORP D1360-1524x1524x285 W17FI ALKO Type: AT4 20x12 / 20x12-internal ALKO Order No: 3167169	Flakt Woods	1 No.
4.25	Ball Bearing for Siemens Motor of supply air fan RLM56-0355		6205-2Z C3	SKF	3 Nos.
4.26	Ball Bearing for Siemens Motor of supply air fan RLM56-0355		6206-2Z C3	SKF	6 Nos.
4.27	DZR Brass Ball Valve both side internal threading	Size: 1/2" Ball: DZR Brass Hard Chrome Plated	BV100	Johnsons Valves	2 Nos.
4.28	DZR Brass Ball Valve both side internal threading	Size: 3/4" Ball: DZR Brass Hard Chrome Plated	BV100	Johnsons Valves	2 Nos.
4.29	DZR Brass Ball Valve both side internal threading	Size: 1" Ball: DZR Brass Hard Chrome Plated	BV100	Johnsons Valves	2 Nos.
4.30	Stainless Steel Braided Flexible Hose for water supply	F 1/2" x F 1/2", DN13-15, PN10 90dC, 1Mtr Long			2 Nos.
4.31	Stainless Steel Braided Flexible Hose for water supply with ring bent 90° one side	F 1/2" x F 1/2" bent 90°, DN13-15, PN10 90dC, 1Mtr Long			2 Nos.
4.32	Supply cable for Humidifier UV, Supply unit 36W (with 5m cable, 2 fixing clips, tube fitting and 1 cover ring)	For Immersion ray system AQT 2136-4K, length 950mm	Article No: AQT 2136-4K	sterilAqua	2 Nos.
	UV Tube for Humidifier, UVC-ray source, model UVC 2036-2K	For Immersion ray system AQT2036-2K, length 950mm	Model: UVC 2036-2K Artical No: 3-UVC-		

			2036-2K		
4.33	Submersible Pump	SP3A-12N 400Y RP1 1/4" MS4000R 0.75KW,	Part Code: 10201912	Grundfoss	2 Nos.
4.34	Pressure Switch	16-63Bar	DCM63	Honeywell FEMA	3 Nos.
4.35	Lifting Pump with Float, power cable plug & non return valve (Manufactured with anti- corrosive and rust-proof materials.)	1" Discharge, 230VAC, 50Hz, 1/2 HP, 750W	Model: KP 350 A 1, Product No: 013G6800	Grundfoss	2 Nos.
4.36	PVC Ball Valve	d10 DN15	169 546 062	GF	2 Nos.
4.37	Clack Valve for Ultrafiltration Module 1" Central Control Valve for top assembly for softening and filtration for service flows up to 6 m <sup>3</sup> /h		ClackWS 100 CL	Clack Corporatio n (Inaqua)	1 No.