

गोवा- ४०३ ८०४ भारत



NATIONAL CENTRE FOR ANTARCTIC & OCEAN RESEARCH

Ministry of Earth Sciences Government of India) Headland Sada, Vasco da Gama Goa - 403 804 - INDIA

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PROCUREMENT SECTION

FOREIGN ENQUIRY

Ref. No.:

ARCTIC-134

Date:

18.03.2015

Due Date:

10.04.2015

Dear Sir,

You are requested to send your offer for the following items as per the terms and conditions mentioned below.

SL. NO.	DESCRIPTION	Quantity
1.	Nortek Aquadopp300IM Single Point Current Meter (Specifications in Annexure-I)	1

Your offer should contain the following information:

- 1. Submit your quotation on FOB/C.I.F basis.
- 2. Delivery Period: The material is required immediately. 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. Payment by irrevocable letter of credit after supply and acceptance of the equipment by NCAOR. The payment will be authorized after submission of a Bank Guarantee for 10% value of the order towards warranty guarantee. The performance Bank Guarantee should be furnished within 15 days from the date of placement of order from a reputed bank (scheduled bank in India or foreign bank operating in India) valid till 60 days after the warranty period.
- 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 alongwith 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 their of upto maximum of 5%.
- 13. Warranty shall commence from the date of installation and acceptance of the complete equipment supplied under the Purchase Order / Contract. The warranty period and the kind of post-warranty support should be indicated.
- 14. Please **specify the Make/Brand** and Name of the Manufacturer with address, country of origin and currency in which rates are quoted.
- 15. Both **FOB** and **CIF** prices upto Indian port of entry namely <u>Goa</u> should be indicated. 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 up to Goa, India.
- 16. 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.
- 17. Suppliers should clearly define the mechanisms of **post-warranty** maintenance or support. Supplier should undertake to support the product for a minimum period of 5 years (post-warranty). Post Warranty, AMC charges for a period of 3 years (annual bases) should also be quoted separately in the quotation.
- 18. Two sets of operational, service/troubleshooting manuals and diagrams to be supplied.

Please enclose documentary proof such as latest purchase order copies etc., to substantiate the reasonability of price. Also confirm that the "the rates quoted by you are reasonable and lowest charged to any of your customer".

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

Yours faithfully

Executive (Procurement)
For and on behalf of Director, NCAOR

TENDER ACCEPTANCE UNDERTAKING

10
The Director, NCAOR, Headland Sada, Vasco - Goa.
Having examined the tender document for SUPPLY OF NORTEK AQUADOPP300IM SINGLE POINT CURRENT METER , we the undersigned hereby offer to supply the equipment 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

SPECIFICATION FOR NORTEK AQUADOPP300IM SINGLE POINT CURRENT METER ARE GIVEN BELOW.

WATER VELOCITY MEASUREMENT			
Range:	23Hz		
Accuracy (of measured value	1%		
± 0.5m/s)	170		
Maximum sampling rate	1Hz, 4Hz		
(output):	1112, 1112		
Internal sampling rate:	23 Hz		
miterial sampling rate.	Measurement Area		
Measurement cell size:	0.75m		
Measurement cell position:	0.35-5.0m (user selectable)		
Default position (along	0.35-1.85m		
beam):	0.00 1.0011		
beam).	Doppler Uncertainty (noise)		
Typical uncertainty for	0.5-1.0cm/s		
default configurations:	0.0-1.0cm/ 8		
Uncertainty in U,V at 1	1.5cm/s		
Hzsampling rate:	1.5011/8		
izsamping rate.	Echo intensity		
Acoustic frequency:	2MHz		
Resolution:	0.45 dB		
Dynamic range:	90 dB		
Dynamic range.	Sensors		
Temperature	Thermistor embedded in head		
Range	-4 to 40°C		
Compass	Magnetometer		
Accuracy/Resolution	0.2°/0.1° for tilt<20°		
Tilt	Liquid level		
Accuracy/resolution	0.2°/0.1°		
Maximum Tilt	30°		
Up or Down:	Automatic Detect		
Pressure	Piezoresistive		
Range	300m		
Accuracy/resolution	0.5%/0.005% of full scale		
/iccuracy/icsolution	Analog Inputs		
No. Of Channels	2		
Voltage Supply	Selectable through firmware commands (Battery		
Voltage Supply	Voltage/500mA,+5V/250mA,+12V/100mA)		
Voltage Input	0-5V		
Resolution	16 bit A/D		
	Data Communication		
I/O	RS 232, RS 422		
Communication Baud Rate	300-115200(baud)		
Recorder down baud rate	600/1200k. Baud for RS 232 and RS 422		
Software	,		
Function	Deployment planning, start with alarm, data, retrieval,		
	ASCII conversion, online data collection and graphical		
	display. Test Modes		
	Data Recording		
Capacity	352 MB for 1 year of operation and self-recording		
Data record	40 bytes		
Diagnostic record	40 bytes		
Power			
DC Input	9-15 VDC		
Peak Current	3A at 12 V DC		
Power Consumption 1 Hz	0.2-1.4 W		
Avg. Consumption	0.1W(0.02Hz), 0.01W(0.002Hz)		
Sleep Mode	0.0013W		

Transmit Power	0.3-20W,3 Adjustable Levels	
Data Collection(Lithium)	18months at 10min, ±1.5cm/s noise	
Real Time Clock		
Accuracy +/- 1min/year		
Backup	4 weeks	
	Material	
Standard	Delrin	
	Connectors	
Bulk head	MCBH-8FS	
Cable	PMCIL-8-MP	
	Environmental	
Operating Temperature	-5°C to 40°C	
Storage temperature	-20°C to 60°C	
Shock and Vibration	IEC 721-3-2	
Pressure Rating	0-300m	
Weight in air	2.3kg	
Weight in water	Neutral	
IMM Capability	Required for 10mm jacketed wire rope	
Deliverables	1) Nortek Aquadopp with IMM and 352 MB Memory	
	2) Lithium battery for 1 year of operation	
	3) Communication cables for configuration	
	4) Alignment Fins and required fixtures	
	5) Softwares	
	6) Serial to USB converter	

TECHNICAL COMPLIANCE STATEMENT FOR NORTEK AQUADOPP300IM SINGLE POINT CURRENT METER

Sr. No.	Description	METER	COMPLIED/ NOT COMPLIED	EXTRA FEATURES
	TECHNICAL COMPLIANCE FOR "NORTEK A			
	CURRENT MET WATER VELOCITY MEASUREMENT	ER.		
1	Range:	±5m/s		
		23Hz		
	Accuracy (of measured value ± 0.5m/s)	1%		
	Maximum sampling rate (output):	1Hz, 4Hz		
	Internal sampling rate:	23 Hz		
	Measurement Area			
	Measurement cell size:	0.75m		
	Measurement cell position:	0.35-5.0m (user selectable)		
	Default position (along beam):	0.35-1.85m		
	Doppler Uncertainty (noise)			
	Typical uncertainty for default configurations:	0.5-1.0cm/s		
	Uncertainty in U,V at 1 Hzsampling rate:	1.5cm/s		
	Echo intensity			
	Acoustic frequency:	2MHz		
	Resolution:	0.45 dB		
	Dynamic range:	90 dB		
	Sensors			
	Temperature	Thermistor embedded in		
		head		
	Range	-4 to 40°C		
	Compass	Magnetometer		
	Accuracy/Resolution Tilt	0.2°/0.1° for tilt<20°		
	Accuracy/resolution	Liquid level 0.2°/0.1°		
	Maximum Tilt	30°		
	Up or Down:	Automatic Detect		
	Pressure	Piezoresistive		
	Range	300m		
	Accuracy/resolution	0.5%/0.005% of full scale		
	Analog Inputs	0.0757 0.00075 01 Idil bodio		
	No. Of Channels	2		
	Voltage Supply	Selectable through firmware		
		commands (Battery Voltage/500mA,+5V/250mA, +12V/100mA)		
	Voltage Input	0-5V		
	Resolution	16 bit A/D		
	Data Communication			
	I/O	RS 232, RS 422		
	Communication Baud Rate	300-115200(baud)		
	Recorder down baud rate	600/1200k. Baud for RS 232 and RS 422		
	Software			_
	Function	Deployment planning, start with alarm, data, retrieval, ASCII conversion, online data collection and graphical display. Test Modes		
	Data Recording			
	Capacity	352 MB for 1 year of operation and self-recording		
	Data record	40 bytes		
	Diagnostic record	40 bytes		

Power		
DC Input	9-15 VDC	
Peak Current	3A at 12 V DC	
Power Consumption 1 Hz	0.2-1.4 W	
Avg. Consumption	0.1W(0.02Hz),	
	0.01W(0.002Hz)	
Sleep Mode	0.0013W	
Transmit Power	0.3-20W,3 Adjustable Levels	
Data Collection(Lithium)	18months at 10min,	
	±1.5cm/s noise	
Real Time Clock		
Accuracy	+/- 1min/year	
Backup	4 weeks	
Material		
Standard	Delrin	
Connectors		
Bulk head	MCBH-8FS	
Cable	PMCIL-8-MP	
Environmental		
Operating Temperature	-5°C to 40°C	
Storage temperature	-20°C to 60°C	
Shock and Vibration	IEC 721-3-2	
Pressure Rating	0-300m	
Weight in air	2.3kg	
Weight in water	Neutral	
IMM Capability	Required for 10mm jacketed	
	wire rope	
Deliverables	1) Nortek Aquadopp with	
	IMM and 352 MB Memory	
	2) Lithium battery for 1 year	
	of operation	
	3) Communication cables for	
	configuration	
	4) Alignment Fins and	
	required fixtures	
	5) Softwares	
	6) Serial to USB converter	

Signature with seal

COMMERCIAL COMPLIANCE STATEMENT FOR "NORTEK AQUADOPP300IM SINGLE POINT CURRENT METER

Sr.	COMMERCIAL COMPLIANCE FOR "NORTEK AQUADOPP300IM	COMPLIED/	EXTRA
No.	SINGLE POINT CURRENT METER.	NOT COMPLIED	FEATURES
1	A list of reputed clients to whom the firm has supplied similar items to be furnished along-with the quotation.		
2	In the Bid, the Bidder should furnish the Name and address of		
	the Purchasers placed orders on similar equipment with order No,		
	date, Description and quantity, Date of Supply alongwith Contact		
	person Telephone No, Fax No, and e mail address of Purchaser.		
3	The Bidder should enclose copies of Purchase Orders.		
4	Quotation should be valid for a period of 90 days from the date of tender opening.		
5	The material is required immediately. Please confirm the exact date of delivery.		
6	The warranty period and the kind of post-warranty support		
	should be indicated. Warranty shall commence from the date of		
	installation and acceptance of the complete equipment supplied		
	under the Purchase Order / Contract.		
7	Please specify country of origin and currency in which rates are quoted.		
8	The order acknowledgement should be from the principals and if		
	the Indian Agent is empowered to quote and to furnish order		
	acknowledgement, a copy of agreement entered by you with the		
	Indian Agent to be furnished.		
9	Compliance Statement: Equipments point-by-point		
	comparison/compliance statement with technical specification ,		
	should be enclosed along with your tender as well as any other		
	extra features of the equipment be shown separately therein and		
10	also compliance statement for all commercial terms.		
10	To avail duty concessions i.e. Excise Duty as per Govt. notification 10/97 & Custom Duty as per Govt. notification		
	51/96, NCAOR will provide exemption certificates. Hence, the		
	rates should be split into basic cost and Excise Duty if any.		
11	Bid should contain all details and specifications of the equipment		
	offered, delivery schedule, warranty, payment term, installation,		
	training, post-warranty, user-list, service support and details of		
	the price(s) of the item(s) quoted in the bid.		
12	In case of imported stores both FOB and CIF prices upto Indian		
	port of entry namely Goa should be indicated. However tender		
	should contain item-wise prices including total ex-works price,		
	overall weight & dimensions of the equipment and cost of packing		
	forwarding, approx. cost of air-freight charges for delivery up to		
12	Goa, India. A technical Committee constituted by the Director will assess the		
13	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.		
14	No advance payment will be made. Payment by irrevocable		
	letter of credit and on submission of Performance Bank		
	Guarantee for 10%value of Order value towards warranty		
1 =	guarantee.		
15	Suppliers should clearly define the mechanisms of post-warranty		
	maintenance or support. Supplier should undertake to support		
	the product for a minimum period of 5 years (post-warranty). Post Warranty, AMC charges for a period of 3 years (annual bases)		
	should also be quoted separately in the financial bid.		
16	If the quoted item needs to be imported then the undertaking		
	needs to be produced from the original supplier stating that Post		
	Warranty support for a minimum period of 7 years will be provided		
	from the original supplier to NCAOR on LC Terms of payment. If		
	payment needs to be made and spares will be supplied on the		
	lowest rate quoted than to any other customer with providing the		
	sales price list to the NCAOR periodically as and when		
	increase/decrease in prices.		

17	Tender acceptance undertaking as per our enquiry submitted
18	Two sets of operational, service/troubleshooting manuals and
	diagrams to be supplied with NORTEK AQUADOPP300IM
	SINGLE POINT CURRENT METER
19	The submission of tender shall be deemed to be an admission on
	the part of the tenderer, had fully acquainted with the
	specifications, drawings etc. and no claim other than what stated
	in the tender shall be paid in the event of award of Purchase
	Order.
20	Acceptance of this tender form and submission of the quote
	within the stipulated time would be treated as:
	The tenderer has understood all requirements as
	described in our Tender document.
	Acceptance to provide/establish all the facilities
	mentioned in our tender without any price escalation, if
	the tenderer finds it necessary to add any hardware or
	software or any other materials during implementation.
	Agreeing to execute order to the satisfaction of NCAOR or
	its authorized representatives within the stipulated time.

Signature with seal