



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



एकीकृत तटीय एवं समुद्री क्षेत्र प्रबंधन (इकमाम) परियोजना निदेशालय
Integrated Coastal and Marine Area Management (ICMAM) Project Directorate
(पृथ्वी विज्ञान मंत्रालय की अनुसंधान तथा विकास इकाई एवं सम्बद्ध कार्यालय)
(An attached office and R & D unit of Ministry of Earth Sciences)

LIMITED E-TENDER ENQUIRY
(Through E-tendering process only)

To

Ref No: MoES/ICMAM-PD/EcoSystem SW/5/2014 dated.21.12.2017.

1	The offers are invited for supply of Gas cylinders, regulators and gas purification panels 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)
		Available at the websites:
3	Tender document	i) https://eprocure.gov.in/eprocure/app ii) http://www.icmam.gov.in
4	Mode of tender	Online Bidding System pl. submit through the website https://eprocure.gov.in/eprocure/app
5	EMD	Nil
6	Tender	Nil
7	Due date & time of submission of required documents offline at ICMAM, Chennai	Upto 2 pm IST of 16.01.2018
8	Due date & time of online bidding by bidders	Upto 5 pm IST of 16.01.2018
9	Due date & time of opening of Part-I offer on-line i.e., techno-commercial bid	At 5 pm IST of 17.01.2018
10	Due date and time of opening of price bid	Intimated through online
11	Instructions to bidders	Annexure-II

Head of Office

एन.आई.ओ.टी. परिसर, वेलच्चेरी -तामबरम मेन रोड, पल्लिकरानै, चेन्नै - 600 100.
NIOT Campus, Velachery - Tambaram Main Road, Pallikaranai, Chennai - 600 100.
Tel. : 91-44-66783599 Fax : 66783487

Technical Specifications

Sl.No.	Gas cylinder	Specifications	Quantity
1.	Hydrogen	Purity : minimum 99.999%, Grade 5.0 Critical impurities: Moisture \leq 2ppm, O ₂ \leq 2ppm (with certification of purity) Cylinder : Brand New Carbon Steel Seamless Cylinder Water Capacity: 46.7 L Hydrostatic test pressure: 250kgf/cm ² Gas Content : 7 cum Material : Manganese Steel (C.Mn) Maximum Working Pressure: 140-150 kg/cm ² Outer diameter: 232 mm Minimum wall thickness: 5.5 mm Tare weight (approx): 54 kgs Length (approx):1365 mm Cylinder valve: as per IS:3224 Valve guard : As per standard Should carry all statutory certificates	2 nos
2.	Nitrogen	Purity : minimum 99.9995%, Grade 5.5 Critical impurities: Moisture \leq 2ppm, O ₂ \leq 2ppm Cylinder : Brand New Carbon Steel Seamless Cylinder Water Capacity: 46.7 L Hydrostatic test pressure: 250kgf/cm ² Gas Content : 7 cum Material : Manganese Steel (C.Mn) Maximum Working Pressure 150 kgf/cm ² Outer diameter: 232 mm Minimum wall thickness: 5.5 mm Tare weight (approx): 54 kgs Length (approx):1365 mm Cylinder valve: as per IS:3224 Valve guard : As per standard	2 nos
3.	Zero Air	Purity : minimum 99.999% , Grade-5 Critical impurities: Moisture \leq 2ppm, THC \leq 0.5ppm Cylinder : Brand New Carbon Steel Seamless Cylinder Water Capacity: 46.7 L Hydrostatic test pressure: 250kgf/cm ² Gas Content : 7 cum Material : Manganese Steel (C.Mn) Maximum Working Pressure 150 kg f/cm ² Outer diameter: 232 mm Minimum wall thickness: 5.5 mm Tare weight (approx): 54 kgs Length (approx):1365 mm Cylinder valve: as per IS:3224 Valve guard : As per standard	2 nos

4.	Helium	Purity: minimum 99.9995%, Grade-5.5 Critical impurities: Moisture \leq 1ppm, O ₂ \leq 1ppm, Cylinder : Brand New Carbon Steel Seamless Cylinder Water Capacity: 46.7 L Hydrostatic test pressure: 250kgf/cm ² Gas Content : 7 cum Material : Manganese Steel (C.Mn) Maximum Working Pressure 150 kgf/cm ² Outer diameter: 232 mm Minimum wall thickness: 5.5 mm Tare weight (approx): 54 kgs Length (approx): 1365 mm Cylinder valve: as per IS:3224 Valve guard : As per standard	1 nos
5.	Accessories: The following items suitable for the Gas Cylinders should be quoted		
	<ol style="list-style-type: none"> 1. Standard Double Stage Double Gauge SS316 Regulator for Hydrogen, Nitrogen, Helium and Zero air (one regulator for each gas) <hr/> <ul style="list-style-type: none"> • Pressure Range must be; Inlet-Max. 4500 psig, Outlet-15 to 250 psig • The operating temperature should be -40 to 60 °C • Should have two stage Self-contained module for precise pressure regulation • Should have SS316 or Chrome-plated brass stock body/bonnet. • It must have 316 stainless steel diaphragms for no inboard diffusion • It should have 10 micron sintered bronze filter Teflon (PTFE) seats and internal seals • It should have Self resetting safety relief valve vented to atmosphere to protect equipment from over-pressurization • Should have Compact design for easy transportation and integration • The outlet port size should be 1/8" <hr/> 2. Gas Purification panel For Hydrogen, Nitrogen, Helium and Zero air (one set for each gas) <hr/> <ul style="list-style-type: none"> • The purification system must contain oxygen, moisture, hydrocarbons traps for Hydrogen, Helium and Nitrogen gas and moisture, hydrocarbons traps for Zero air. • The panel should be compact design, wall mounted, powder coated • It should have inlet and out let pressure gauge with on/off valves • It should deliver ultra high pure (UHP) grade gases • Must be Suitable for 10 kg/cm² inlet pressure and 7 kg/cm² Outlet pressure. The Filters should be easily detachable and replaceable • All fittings & tubing's for each line should be 1/8" <hr/> 3. Suitable SS or Brass tube of required length and nuts and ferrule should be quoted. 		

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 internet ii. Registration with e-procurement system of Govt. of India: https://eprocure.gov.in /eprocure/app iii. Digital signature certificate (Mandatory) for uploading the bids to e-procurement system iv. For any clarification, send e-mail to icmam@icmam.gov.in v. For any clarification on tender process, use the 24/7 helpline contact numbers mentioned in CPP Website.
2	<p>The ICMAM-PD 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.</p>
3	<p>ICMAM-PD, Chennai has the RIGHT TO VARY the quantity of the items under procurement.</p>
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/EcoSystem SW/5/2014 Part I Technical BID for "GAS CYLINDERS, REGULATORS AND GAS PURIFICATION PANELS"".</p> <p>Manual submission of technical bid documents along with the relevant documents should be submitted to ICMAM Project Directorate, on or before the due date of online e-tender submission (i.e on or before 16.01.2017, 02:00 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 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> <ul 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.

	<ul style="list-style-type: none"> 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 120 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 total L-1 (the lowest price) price of Gas cylinders, regulators and gas purification panels.
7	Head, ICMAM-PD 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) ICMAM 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 ICMAM Project Directorate 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 Head
ICMAM Project Directorate
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 ICMAM Project Directorate, 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 herby 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, ICMAM PD shall be at liberty to reject this tender and we shall not have any claim against ICMAM PD 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)

ITEM: GAS CYLINDERS, REGULATORS AND GAS PURIFICATION PANELS

Sl. No	Minimum Specifications	Compliance (Yes/ No)	Remarks / Deviation
1.	<p>Hydrogen Gas cylinder Purity : minimum 99.999%, Grade 5.0 Critical impurities: Moisture≤ 2ppm, O₂≤ 2ppm (with certification of purity) Cylinder : Brand New Carbon Steel Seamless Cylinder Water Capacity: 46.7 L Hydrostatic test pressure: 250kgf/cm² Gas Content : 7 cum Material : Manganese Steel (C.Mn) Maximum Working Pressure: 140-150 kg/cm² Outer diameter: 232 mm Minimum wall thickness: 5.5 mm Tare weight (approx): 54 kgs Length (approx):1365 mm Cylinder valve: as per IS:3224 Valve guard : As per standard Should carry all statutory certificates</p>		
2.	<p>Nitrogen Gas cylinder Purity : minimum 99.9995%, Grade 5.5 Critical impurities: Moisture≤ 2ppm, O₂≤ 2ppm Cylinder : Brand New Carbon Steel Seamless Cylinder Water Capacity: 46.7 L Hydrostatic test pressure: 250kgf/cm² Gas Content : 7 cum Material : Manganese Steel (C.Mn) Maximum Working Pressure150 kgf/cm² Outer diameter: 232 mm Minimum wall thickness: 5.5 mm Tare weight (approx): 54 kgs Length (approx):1365 mm Cylinder valve: as per IS:3224 Valve guard : As per standard</p>		

Sl. No	Minimum Specifications	Compliance (Yes/ No)	Remarks / Deviation
3.	<p>Zero Air Gas cylinder Purity : minimum 99.999% , Grade-5 Critical impurities: Moisture≤ 2ppm, THC≤ 0.5ppm Cylinder : Brand New Carbon Steel Seamless Cylinder Water Capacity: 46.7 L Hydrostatic test pressure: 250kgf/cm2 Gas Content : 7 cum Material : Manganese Steel (C.Mn) Maximum Working Pressure150 kg f/cm2 Outer diameter: 232 mm Minimum wall thickness: 5.5 mm Tare weight (approx): 54 kgs Length (approx):1365 mm Cylinder valve: as per IS:3224 Valve guard : As per standard</p>		
4.	<p>Helium Gas cylinder Purity: minimum 99.9995%, Grade-5.5 Critical impurities: Moisture ≤1ppm, O₂≤1ppm, Cylinder : Brand New Carbon Steel Seamless Cylinder Water Capacity: 46.7 L Hydrostatic test pressure: 250kgf/cm2 Gas Content : 7 cum Material : Manganese Steel (C.Mn) Maximum Working Pressure150 kgf/cm2 Outer diameter: 232 mm Minimum wall thickness: 5.5 mm Tare weight (approx): 54 kgs Length (approx):1365 mm Cylinder valve: as per IS:3224 Valve guard : As per standard</p>		
5.	<p>Accessories: The following items suitable for the Gas Cylinders should be quoted</p> <p>1. Standard Double Stage Double Gauge SS316 Regulator for Hydrogen, Nitrogen, Helium and Zero air (one regulator for each gas)</p> <hr/> <ul style="list-style-type: none"> • Pressure Range must be; Inlet-Max. 4500 psig, Outlet-15 to 250 psig • The operating temperature should be -40 to 60 °C • Should have two stage Self-contained module for precise pressure regulation • Should have SS316 or Chrome-plated brass 		

Sl. No	Minimum Specifications	Compliance (Yes/ No)	Remarks / Deviation
	<p>stock body/bonnet.</p> <ul style="list-style-type: none"> • It must have 316 stainless steel diaphragms for no inboard diffusion • It should have 10 micron sintered bronze filter Teflon (PTFE) seats and internal seals • It should have Self resetting safety relief valve vented to atmosphere to protect equipment from over-pressurization • Should have Compact design for easy transportation and integration • The outlet port size should be 1/8" <hr/> <p>2. Gas Purification panel For Hydrogen, Nitrogen, Helium and Zero air (one set for each gas)</p> <hr/> <ul style="list-style-type: none"> • The purification system must contain oxygen, moisture, hydrocarbons traps for Hydrogen, Helium and Nitrogen gas and moisture, hydrocarbons traps for Zero air. • The panel should be compact design, wall mounted, powder coated • It should have inlet and out let pressure gauge with on/off valves • It should deliver ultra high pure (UHP) grade gases • Must be Suitable for 10 kg/cm² inlet pressure and 7 kg/cm² Outlet pressure. The Filters should be easily detachable and replaceable • All fittings & tubing's for each line should be 1/8" <hr/> <p>3. Suitable SS or Brass tube of required length and nuts and ferrule should be quoted.</p>		

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

Annexure - V

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	Item Name	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	Test certificates in original from the concerned authority (original by manual and scanned copy by online) for participating this tender	Submitted / Not Submitted	Submitted / Not Submitted
2	Gas purity certificate from reputed R&D organizations/institutes	Submitted / Not Submitted	Submitted / Not Submitted
3	Scanned copy of Tender Acceptance Letter by online and original by manual / post	Submitted / Not Submitted	Submitted / Not Submitted
4	Details of Products and Components	Submitted / Not Submitted	Submitted / Not Submitted
5	Technical Compliance sheet	Submitted / Not Submitted	Submitted / Not Submitted
6	Any other relevant document (scanned copy by online and original by manual)	Submitted / Not Submitted	Submitted / Not Submitted
7	This Check list (scanned copy by online and original by manual)	Submitted / Not Submitted	Submitted / Not Submitted
8	Price details of items as listed in Annexure IV and other terms & conditions	Submitted / Not Submitted	Submitted / Not Submitted

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