



राष्ट्रीयसमुद्रप्रौद्योगिकीसंस्था
न
NATIONAL INSTITUTE OF
OCEAN TECHNOLOGY

संविदाआमंत्रणसूचना(नि.आ.सू.)
NOTICE INVITING TENDER (NIT)

फ़ार्मसंख्या:
Form No. NIOT/S&P/NIT



GEM-Tender Schedule

निविदासंख्या/ Tender No.	NIOT/S&P/OOS/28555/2025-26
कोजारी Issued To	Indigenously developed Deep Sea plastic subsurface Float to be tested in the Hyperbaric Chamber
निविदाप्रणाली/Tender Mode	GeM - Custom Bid
बोलीकाप्रकारएवंनिविदाप्रस्तुतिकरण Bidding Type & Tender submission	Single Part Tender comprising of Technical Bid and Price Bid should be submitted electronically through GeM portal https://gem.gov.in
निविदाप्रलेखउपलब्धतास्थानTender Documents available place	Bidders may download the help documents. Helpdesk number : Number: 1800-419-3436 E-Mail: helpdesk-gem@gov.in For any issues / clarifications relating to the tender(s) published kindly contact the respective Tender Inviting Authority.
अपनेप्रश्नईमेलआईडीपरभेजें Send your queries to the email IDs	निविदाकेअंतिमचरण तक/Upto Tender finalisations gopalakrishnaa.niot@gov.in / tendergroup@niot.res.in

राष्ट्रीयसमुद्रप्रौद्योगिकीसंस्थान NATIONAL INSTITUTE OF OCEAN TECHNOLOGY
वेलचरीताम्बरममेनरोड VELACHERY TAMBARAM MAIN ROAD
नारायणपुरम, चेन्नै 600 100 NARAYANPURAM, CHENNAI 600 100
रा.स.प्रौ.सं. वेबसाइट/NIOT Website : <https://www.niot.res.in/index.php/vendor/login>

Commercial Terms Compliance sheet (The format should not be altered)

Sl. No	Particulars	Yes	No	offer Page Ref
1	Whether every page of the tender document is signed for acceptance of tender and uploaded along with the offer?			
2	Whether Taxes and duties are shown separately in the quote. (Registration numbers for claiming the same to be strictly indicated)			
3	Whether accepted to submit the order acceptance within 7 days from the date of order?			
4	Whether Quote is valid for 90 days from the due date of tender or time specified in the tender document whichever is later?			
5	Whether payment terms of the tender is complied with?			
6	Whether the bidder satisfies the Pre- qualification criteria			
7	a. a copy of your GST Registration certificates and PAN details are attached (Mandatory qualifying condition)			
	a. The Goods / items quoted are manufactured in India and not imported from any country.			
	b. Make in India Clause: If the item/goods are partially imported, specify your category:			
	1. CLASS I Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content greater than or equal to 50%.			
	2. CLASS II Category: Supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%.			
8	Whether self-certification form is enclosed (For ClassI & Class II supplier only)?			
9	Whether price is FOR /DAP NIOT,Chennai?			
10	Whether the freight cost is included, if not included whether the freight cost is indicated separately?			
11	Whether the authorization letter exclusively for this tender, from the original manufacturer is enclosed?			
12	a) Whether warranty period accepted as per tender?			
	b) Whether submission of warranty certificate in the prescribed format is acceptable?			
13	Whether the delivery period is clearly indicated, and is as per tender?			
14	Whether the cost of installation/inspection/testing explicitly mentioned in the quote?			
15	Whether Past track record of quality and service is enclosed?			
16	Whether list of deliverables attached and comply as per tender?			
17	Whether liquidated damage clause is acceptable in case of delayed supply?			
18	Whether the tender is fully complying with tender specification/Adjustment if no, list out deviations very clearly along with the appropriate reason for the deviation?			
19	Whether relevant data sheets/catalogs/brochure is enclosed alongwith the quotation?			
20	Whether item-wise price is quoted as per price bid and quoted price is realistic?			
21	Whether technical specification has been duly filled in and submitted with the tender document is uploaded along with the quotation.			
22	Whether HSN code of the product has been indicated?			
23	Whether your firm is registered under MSME/ NSIC/DIC/UAM/ Women Entrepreneur ? If yes enclose copy of registration			

PRICE BID FORMAT

S. No.	Description	Quantity	Unit	Unit rate	Amount
1.	Indigenously developed Deep Sea plastic subsurface Float to be tested in the Hyperbaric Chamber	1	No.		
Total Amount					
(Amount in words. _____)					

Note:

*The goods items quoted are manufactured in India and not imported from any country.*

- The above price is FOR NIOT, Chennai and inclusive of all including the applicable GST.

NIOT has enrolled under GST in the category "Tax Deductor". The bidders are requested to update their database regarding NIOT's Registration under GST-Tax Deductor.

TDS @ 2% on the order value towards GST will be deducted on payments made to the supplier in respect of goods and/or services, supplied/provided if the value exceeds Rs. 2.5 lakhs.

1. The copy of the GST registration certificate to be attached.
2. The duly filled technical and commercial compliance sheets should be submitted along with quotation/offer.

We agree to all applicable terms and conditions listed in the tender document.

Signature with Seal

Technical Specification with Compliance

Sl. No	Description	Details	Remarks (Yes/No)
1. Test Configuration			
	Test Configuration	1. The float shall be installed in a pressure chamber capable of sustaining minimum of 525 bar.	
		2. Chamber shall be equipped with: i. Calibrated primary and backup pressure gauges. ii. Temperature measurement devices. iii. Audio and video monitoring system.	
		3. Test medium: Fresh water (preferred).	
		4. Test Temperature: The temperature of the test medium shall be maintained at ambient laboratory conditions (25 ± 2 °C).	
2. Test Sequence			
2.1	Pre-Test Leak Check:	1. Pressurize chamber to 10 bar.	
		2. Hold for 10–15 minutes.	
		3. Monitor for leakage or abnormal pressure drops in the float to be tested.	
2.2	Stepwise Pressure Ramp & Hold	Pressure shall be increased gradually at the following rates and intervals:	
		1. 0 → 50 bar at 5 bar/min; hold for 5 min.	
		2. 50 → 100 bar at 5 bar/min; hold for 5 min.	
		3. 100 → 150 bar at 5 bar/min; hold for 5 min.	
		4. 150 → 200 bar at 5 bar/min; hold for 5 min.	
		5. 200 → 210 bar at 2–5 bar/min; hold for 10–15 min (stabilization).	
		6. During each hold, inspect logger readings for consistency.	
	7. Listen for abnormal sounds (cracking, popping) and pressure variations.		

		8. Any anomaly requires immediate test halt and investigation.	
2.3	Full Pressure Dwell	1. Maintain chamber at 210 bar for 4 hours (± 15 min).	
		1. Record continuously (with time stamp): - Chamber pressure (primary & backup). Chamber temperature. - Visual and audio monitoring.	
2.4	Depressurization	Reduce pressure at a rate not exceeding 10 bar/min until atmospheric pressure is reached.	
3.	Post-Test Inspection	1. Perform visual examination of float surface for cracks, crazing, or deformation.	
		2. Permanent deformation $\leq 0.1\%$ of float diameter (0.001D) is acceptable.	
		3. Evidence of leakage, cracks, or deformation $>0.001D$ shall be cause for rejection.	
4.	Reporting Requirements	1. A Pressure Test Report equivalent to ASME PVHO-1 Form VI-5 or equivalent shall be completed.	
		2. Report shall include: i. Test medium, chamber ID, calibration details of gauges. ii. Pressure and temperature logs. iii. Test duration and hold times. iv. Observations during test. v. Post-test inspection findings.	
5.	General Conditions	NIOT (User) and CIPET (manufacturer) officials will witness the test at the test premises. If required, the same will be shared through web (live) to the staff of NIOT and CIPET, Chennai.	
		The videos record of the testing shall be submitted in DVD/Flash Drive.	
6.	Transportation	The transportation of the prototype float from NIOT and the delivery of the test report, test certificate and imploded float parts is the responsibility of the test firm.	
7.	Deliverables	The test report should provide all the details of pressure at which implosion occurs etc. The imploded float parts have to be submitted to NIOT.	

1. PRICE VALIDITY:

Quote validity should be provided minimum for 90 Days.

2. DELIVERY PERIOD:

The hyperbaric testing of the float shall be completed within 2 weeks from the date of receipt of purchase order. Test reports, Test Certificates and imploded Float parts of the floats shall be delivered to NIOT within 3 days after the completion of the test.

3. PAYMENT:

100% Payment will be made after the completion of the testing and submission of relevant test report and certificate along with required details and imploded parts of the float parts as mentioned in the clause 5 and 7 of the technical specification.