



राष्ट्रीयसमुद्रप्रौद्योगिकीसंस्थान
NATIONAL INSTITUTE OF
OCEAN TECHNOLOGY

संविदा आमंत्रण सूचना(नि.आ.सू.)
NOTICE INVITING TENDER (NIT)



फार्म संख्या:
Form No. NIOT/S&P/NIT

GEM-Tender Schedule

निविदा संख्या/ Tender No.	NIOT/S&P/MBT/27812/2025-26
कोजारी Issued To	Marine Aquarium at MBT Building
निविदाप्रणाली/Tender Mode	GEM – BOQ – Single Bid
बोली का प्रकार एवं निविदा प्रस्तुतिकरण Bidding Type & Tender submission	Single Part Tender of Technical Bid and Price Bid should be submitted electronically through GeM portal https://gem.gov.in
निविदा प्रलेख उपलब्धता स्थान Tender 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.
अपने प्रश्न ई मेल आईडी पर भेजें Send your queries to the email IDs	निविदा के अंतिम चरण तक/Upto Tender finalisations gopalakrishnaa.niot@gov.in / vpguberan@niot.res.in

राष्ट्रीय समुद्र प्रौद्योगिकी संस्थान **NATIONAL INSTITUTE OF OCEAN TECHNOLOGY**
वेलचेरी ताम्बरम मेन रोड **VELACHERY TAMBARAM MAIN ROAD**
नारायण पुरम, चेन्नै **600 100 NARAYANPURAM, CHENNAI 600 100**
रा.स.प्रौ.सं. वेबसाइट/NIOT Website : https://www.niot.res.in/tenders_index.php

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 120 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			
	a. a copy of your GST Registration certificates and PAN details are attached (Mandatory qualifying condition)			
	b. Supplier should have previous experience in supply of similar items to recognized institutions. (Mandatory qualifying condition)			
7	Whether price is FOR /DAP NIOT, Chennai?			
8	Whether the freight cost is included, if not included whether the freight cost is indicated separately?			
9	Whether the authorization letter exclusively for this tender, from the original manufacturer is enclosed?			
10	a) Whether warranty period (twelve months from the date of supply and acceptance) accepted as per tender?			
	b) Whether submission of warranty certificate in the prescribed format is acceptable?			
11	a) Whether the delivery period (six weeks) is clearly indicated, and is as per tender?			
	b) Whether declaration for supply within the delivery period has been filled & Signed by the competent authority (Annexure)			
12	Whether the cost of installation / inspection / testing explicitly mentioned in the quote?			
13	Whether Past track record of quality and service is enclosed?			
14	Whether list of deliverables attached and comply as per tender?			
15	Whether liquidated damage clause is acceptable in case of delayed supply?			
16	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?			
17	Whether item-wise price is quoted as per price bid and quoted price is realistic?			
18	Whether technical specification has been duly filled in and submitted with the tender document is uploaded along with the quotation.			
19	Whether HSN code of the product has been indicated?			
20	Whether your firm is registered under MSME/ NSIC/DIC/UAM? If yes enclose copy of registration			

PRICE BID FORMAT

S. No.	Description	Quantity	Unit	Unit rate	Amount
1.	Display Tank	1	No.		
2.	Wooden stand	1	No.		
3.	Aquarium chillers	1	No.		
4.	Skimmers	1	No.		
5.	Sump tank	1	No.		
6.	Aerator	1	No.		
7.	Circulation Pump	2	Nos.		
8.	Chiller pump	2	Nos.		
9.	Bottom sand	200	Kg.		
10.	Sea Water	7000	Liters		
11.	Live stocks	1	Lumpsum		
12.	Lighting	2	Nos.		
13.	Wave Maker	2	Nos.		
14.	U. V. Sterilizer	1	No.		
15.	Filtration Media	1	No.		
16.	Control system to Monitor PH	1	No.		
17.	Control system (Temperature)	1	No.		
18.	Aquarium cleaning Accessories and start up chemical & feed	1	Lot		
19.	Internal Plumbing with CPVC and Flexible hose	1	No.		
20.	Stand to hold the chiller	1	No.		
21.	Artificial Live rock	30	Nos.		
22.	Labour	1	Unit		
23.	Transportation	1	Job		
24.	AMC for one year	12	Months		
				Total Amount	
(Amount in words. _____)					

Note:*** For Supply**

The GST will be paid as applicable.

For Service

GST @ 18% is applicable.

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. (See clause No.51 II (c))

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 for Marine Aquarium at MBT Building

Pre – Qualification criteria:

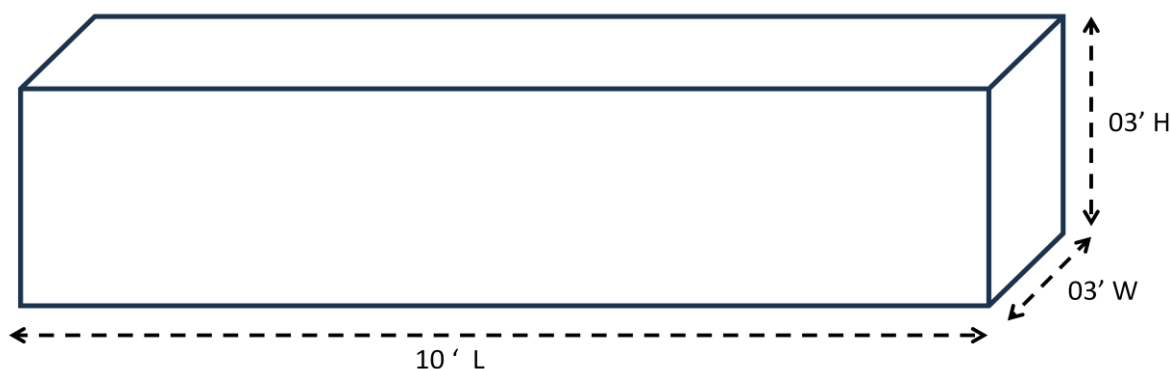
SI. No.	Description	Remarks (Yes/No)
1	The vendor should have supplied related to the tender specification (Marine Aquarium) to Govt. Institutes/PSU/Private sectors in the last five years prior to date of opening of tender. Atleast one purchase order copy and performance certificate for the same should be attached.	

Technical specification:

S. No.	Item Description	Specification	Specification of item offered/quoted
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1. Display Tank (Clear):

Diagram for Marine Aquarium Tank



Dimensions:

Tank Size: 10 x3x3 feet (Length x Breadth x Width)

Tank: Standard toughened glass tank, made of extra clear glass

Glass thickness: 25.22 mm sandwiched and Toughened (12mm+1.22+12mm)

2. Tank stand:

	Material	Paddauk wood	
	Size	10.5 x 3.5x 3 (LxBxH)	
	Holding capacity	4 tons	
	Side doors	6 doors	
	Lamination	Acrylic Lamination, Water proof	

3. Aquarium chillers:

	Material	Plastic	
	Capacity	12000 BTU/hr (3.5 kW)	
	Flow rate (gpm)	10.6-15.9	
	Dimension (inch)	W26 X D15 X H19	
	Water connection	1" PVC	
	Temperature	24 °C to 26°C	

4. Skimmers:

	Power	220V/110V, 84W	
	Air intake	3600L/H	
	Size	500 x 600 x 660mm	
	Capacity	3000-4000L	

	Collection cup provision	Wastes disposal	
5. Lighting:			
	Display	LED	
	Channel	4 Programmable Colour Channels Mimic Nature (Dawn to Dusk)	
	Watts	300	
	Spectrum	410/420nm	
	Light support	Coral growth & colouration	
	Body	Light weight aerodynamic body	
6. Wave maker:			
	Material	Plastic (Safe to living organisms)	
	Style	Automatic	
	Flow	13,000 – 28,000 litres/hr	
	Power Consumption	10-60 Watts	
	Operation modes	Night mode & feeding mode	
	Dry Side	102 x76 mm	
	Wet Side	102 x71 mm	
7. UV Sterilizer:			
	UV lamp	100 Watt	
	Length	3ft	
	External Shell	Stainless steel SS316L	
	Lifespan	8000 hrs	
8. Sump tank:			
	Material	Glass with baffle walls	
	Size	7 x 2.5 x1.5ft (LxBxH)	
	Thickness	12mm	
	Provision for pipes	4nos	
9. Air Blower:			
	Material	Metal and light weight	
	Performance	20L/min	
	Operation mode	Automatic	
	Power	15 Watt	
	Noise	>40dB	
	Pressure	>0.02Mpa	
	Voltage	220-240 V	
	Water proof	Complete Pump	
10. Circulation Pump:			
	Material	Plastic	
	Flow rate	10000lit/hr	
	Rate power	100w	
	Voltage	DC24V, 5A	
	Flow head	5m	
	Weight	>2kg	
	Coupling	32mm/1.25", 40mm/1.5"	
11. Chiller Pump:			
	Material	Plastic	
	Style	Submersible	
	Flow rate	4000 Lit /hr	
	Flow head	3 - 3.2m	
	Voltage	220-240 V	
	Power	25W	
	Frequency	50Hz	
	Weight	>3kg	
	Hose Adapter	20/25/32	
12. Stand to hold the Chiller:			
	Material	Paddak Wood	
	Size	3x2x3 (LXBXH)	

13.Filtration Media:			
The following media should be arranged in compartments of the sump with water flowing through the raffle walls from the top and bottom			
	Bioballs	Qty-400nos, Made of PVC with large surface area which should sserve as attachment sites for different beneficial bacteria.	
	Aqua clay	Qty-8Kg, High perforated balls of clay to absorb toxic wastes and serve as nitrosomonas and nitrobacter	
	Ceramic beads	Qty-12Kg, Needs to reduce the hardness and absorb toxic gases and heavy metals	
	Zeolite	Qty-12Kg, Needs to remove nitrogenous substances like ammonia from the water, reducing toxicity and providing a healthy habitat for aquatic life.	
	Activated carbon	Qty-5Kg, Should have a considerable surface area and a highly porous structure to make it an excellent adsorbent for chemicals dissolved in water.	
	Refugium Algae	Should be maintained to uptake nitrate and phosphate from the water	
14. Bottom Sand:			
	Sand	200 Kg of Aragonite (Seafloor appearance)	
	Size	2mm	
15.	Artificial Live rock	Qty-45 pieces, it should be made of permitted eco-friendly resin and have the colour of coralline algae. The rocks should provide reef like structures inside the tank, which will also act as beneficial bacterial attachment sites, hiding places, and territories.	
16.	Control system	Real-time online meters of high quality should be placed for accurate pH and temperature monitoring.	
17.	Aquarium cleaning Accessories and start up chemical & feed	1. Magnetic cleaner	
		2. Algae scrubber	
		3. Tongs	
		4. Ammonia & Nitrate kit	
		5. 3 Types of feed, pellets, flakes and frozen artemia	
18. Water Exchange:			
	Water exchange	40%/monthly	
	Maintenance	good redox potential and pH	
19. Live Stock:			
	Marine Ornamental fin fish	70Nos	
	Anemones	12Nos	
	Tube worms	15Nos	
	Ornamental Shrimps	5Nos	
20	Annual Maintenance	After commissioning, the aquarium should be maintained freely for initial 3 months. AMC should start after that period only. Preventive maintenance service report should be submitted at the end of every month. During the visit vendor should make the instrument to functional and should take overall responsibility of all the	

		instruments and lubricated, mechanical and electronic adjustments has to be done, Vendor should intimate spares requirement well in advance to make available for maintenance.	
21	Warranty certificate	All the supplies should carry warranty for eighteen months from date of delivery or twelve months from the date of installation and commissioning. Warranty certificate should be provided as per prescribed format of NIOT. Standard warranty for the marine aquarium should be one year	
22	TECHNICAL TERMS AND CONDITIONS for AMC (One year)	1. Each fish should have a six-month guarantee from the date of stocking.	
		2. Fish should be fed with formulated and fresh feed on alternative days and appropriate medications should be administered as needed.	
		3. Marine Biologists should visit monthly twice to record the health condition of the fishes	
		4. In case of any emergency staff from your side should visit the site.	
		5. Warranty for fishes (Same nos of fishes will be maintained at any point of time)	
		6. All lighting systems and equipment should have a one-year warranty.	
		7. The tank, filters, and biological filters should be cleaned periodically	

Note:

The literature/brochure/write up of the items quoted should be uploaded.

Terms and Conditions:

1. Validity: Quote should be valid for **120 days**.

2. Payment: Payment will be made **within 30 Days** after supply, acceptance of the materials. No advance payment shall be made.

3. Delivery: The items should be delivered at **NIOT, Chennai within six weeks** from the date of receipt of the purchase order.

4. Warranty: All the supplies shall carry warranty for **twelve months** from the date of supply and acceptance by NIOT. The format of the warranty certificate shall be furnished to the successful bidder.

5. Part Supply: Not Allowed. All the items should be delivered in a single lot within the stipulated time.

We agree to all terms and conditions as per tender document.

Date:

Signature of supplier

Place:

Stamp

Annexure

DECLARATION

We, M/s. _____, hereby declare that the rate quoted for the items listed in this tender **"Marine Aquarium at MBT Building"** against bid no. _____ are readily available in the market. We have checked the availability with the manufacturer/ dealer and we will supply all the items in single lot within **six weeks** from the date of order.

Seal and Signature of Authorized Signatory

+MANDATORY DOCUMENTS:

1. GST Registration Certification
2. PAN details
3. Cancelled Cheque Leaf / Bank details
4. Vendors Address and details of contact
5. Copy of NIT documents affixing company seal and signed in all the pages.
6. Duly filled commercial compliance sheet and Technical Compliance sheets
7. Any other documents sought in the NIT
8. Valid Authorization Letter from OEM
9. MSME Certificate, if any