



राष्ट्रीयसमुद्रप्रौद्योगिकीसंस्थान  
NATIONAL INSTITUTE OF  
OCEAN TECHNOLOGY

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



फ़ार्म संख्या:  
Form No. NIOT/S&P/NIT

**GEM-Tender Schedule**

निविदा संख्या/ Tender No.	NIOT/S&P/EnP/19715/2024-25
कोजारी Issued To	<b>Hand held Walkie Talkie Radio Sets and Base Station (Under Buy back mode)</b>
निविदाप्रणाली/Tender Mode	<b>GEM – Custom Dual Bid (Specific Brand)</b>
बोली का प्रकार एवं निविदा प्रस्तुतिकरण Bidding Type & Tender submission	Two Part Tender of Technical Bid and Price Bid should be submitted electronically through GeM portal <a href="https://gem.gov.in">https://gem.gov.in</a>
निविदा प्रलेख उपलब्धता स्थान Tender Documents available place	Bidders may download the help documents. Helpdesk number : Number: 1800-419-3436 E-Mail: <a href="mailto:helpdesk-gem@gov.in">helpdesk-gem@gov.in</a> 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 <a href="mailto:gopalakrishnaa.niot@gov.in">gopalakrishnaa.niot@gov.in</a> / <a href="mailto:vaidehi.niot@gov.in">vaidehi.niot@gov.in</a> /

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](https://www.niot.res.in/tenders_index.php)

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

<b>Sl. No.</b>	<b>Particulars</b>	<b>Yes</b>	<b>No</b>	<b>offer Page Ref</b>
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 <b>120 days</b> from the due date of tender or time specified in the tender document whichever is later?			
5	Whether <b>payment terms</b> of the tender is complied with?			
6	Whether the bidder satisfies the Pre- qualification criteria			
	i) a copy of your GST Registration certificates and PAN details are attached (Mandatory qualifying condition)			
7	Whether price is <b>FOR</b> NIOT, Chennai?			
8	Whether the freight cost is included, if not included whether the freight cost is indicated separately?			
9	Whether the <b>authorization letter</b> exclusively for this tender, from the original manufacturer is enclosed?			
10	a) Whether <b>warranty</b> period accepted as per tender?			
	b) Whether submission of <b>warranty</b> certificate in the prescribed format is acceptable?			
11	a) Whether the <b>delivery period</b> 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 ( <b>Annexure - 1</b> )			
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	<b>Whether your firm is registered under MSME/ NSIC/DIC/UAM? If yes enclose copy of registration</b>			

**PRICE BID FORMAT**

Sl. No.	Description	Qty	Unit	Unit rate	Amount
1.	Walkie Talkie Hand Held Radio as per specification	6	Nos.	<b><u>The price has to be quoted in GEM Custom Bid only and shall not be revealed. If the prices are revealed in the technical bid or otherwise, your bid will not be considered for evaluation.</u></b>	
2.	Base Station as per specification	1	No.		
3.	Buy Back of Old Walkie Talkie Hand Held Radio (Less)	4	Nos.		
4.	Buy Back of Old Base Station (Less)	1	No.		
<b>Total Amount</b>					
(Amount in words. _____)					

**Note:**

- 1. Amount for SI No. 1 and 2 should be inclusive of GST and F.O.R. NIOT Chennai.**
- 2. The total amount indicated above (after deducting Buy back value) should be mentioned in GEM while bidding.**
- 3. The goods items quoted are manufactured in India and not imported from any country.**
- 4. Details of Old Walkie Talkie and Base Station:**
  - 1. Motorola hand held radio- Item Model No. HHPRO 5350 (Walkie Talkie)**
  - 2. Kenwood Base Station- Item Model No. TK 980 with accessories (Alpha Numeric Caller ID, 806-870 MHz secured UHF frequency, 600 programmable channels, 15w Power Output PAS connectivity option, Display Screen & PTT mic)**

**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.

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

### Pre – qualification criteria:

SI. No.	Description	Remarks (Yes/No)
1	The bidder should be in possession of valid WPC license. The bidder should attach a copy of WPC license along with the bid.	

### Technical specification for Hand Held Walkie Talkie Radio Sets and Base Station (Under Buy back mode)

S. No.	Item Description	Specification	Compliance (Yes/No)	Specification of item offered/quoted
<b>A.</b>	<b>Hand Held Radio Sets of Walkie Talkie</b>			
<b>1.</b>	Quantity	6 Nos.		
<b>2.</b>	General specification	Band – UHF - 800		
		Frequency – 800 – 825 MHz, 851-870 MHz		
		High Power Output – 2.5 W		
		Channel Spacing – 12.5, 25 KHz		
<b>3.</b>	Transmitter specifications	Channel Capacity – 32		
		Channel Spacing – 12.5, 25 KHz		
		4FSK Digital Modulation		
		12.5 KHz Data: 7K60F1D and 7K60FXD		
		12.5 KHz Voice: 7K60F1E and 7K60FXE , Combination of 12.5 KHz Voice and Data		
		Digital Protocol – ETSI TS 102 361 – 1, -2, -3, -4.		
<b>4.</b>	Receiver specifications	Adjacent Channel Power 60 dB(12.5 KHz Channel), 70 dB (25 KHz Channel)		
		Frequency Stability $\pm 0.5$ ppm		
		Analogue Sensitivity (12dB SINAD) 0.21 $\mu$ V (0.16 $\mu$ V typical)		
		Digital Sensitivity (5% BER) 0.18 $\mu$ V (0.14 $\mu$ V typical)		
<b>5.</b>	Audio specifications	Inter Modulation (TIA603D) 70dB		
		Spurious Rejection (TIA603D) 70dB		
		Digital Vocoder Type AMBE +2M		
		Audio Response – TIA603D		
		Rated Audio – 0.5W		
		Audio Distortion at Rated Audio 3 % (Typical Tx:1%, Rx:1%)		
<b>6.</b>	Conducted Spurious Emission (TIA603D) 57 dBm	Hum and Noise – 40 dB (12.5 KHz Channel) - 45 dB (25 KHz Channel)		

<b>B.</b>	<b>Base station of walkie talkie sets</b>			
1.	Quantity	1 No.		
2.	General specification	Band – UHF - 800		
		Frequency – 800 - 825 MHz, 851 – 870 MHz		
		High Power Output – 10 – 35 W		
		Channel Spacing – 12.5, 25 KHz		
		Channel Capacity – 1000		
3.	Transmitter specifications	4FSK Digital Modulation 12.5 KHz Data, 12.5 KHz Voice, Combination of 12.5 KHz Voice and Data		
		Digital Protocol – ETSI TS 102 361 – 1, -2, -3, -4.		
		Adjacent Channel Power 60 dB(12.5 KHz Channel) 70 dB (25 KHz Channel)		
		Frequency Stability $\pm 0.5$ ppm		
4.	Receiver specifications	Analogue Sensitivity (12dB SINAD) 0.22 Uv typical		
		Digital Sensitivity (5% BER) 0.19 uV typical		
		Inter Modulation (TIA603D) VHF 78dB UHF1, UHF2, 350, 800: 75Db		
		Spurious Rejection (TIA603D) VHF 80dB UHF1, UHF2, 350, 800: 75Db		
5.	Audio specifications	Digital Vocoder Type AMBE +2M		
		Audio Response – TIA603D		
		Rated Audio – 3W (Internal Speaker) 7.5W (external 8 ohm speaker) 13 W (external 4 phm Speaker)		
		Audio Distortion at Rated Audio 3 %		
		Hum and Noise – 40 dB (12.5 KHz Channel) - 45 dB (25 KHz Channel)		
		Conducted Spurious Emission (TIA603D) 57 dBm		

**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, installation and acceptance of the materials. No advance payment shall be made.

**3. Delivery:** The items should be delivered at NIOT, Chennai **within two 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, installation 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**

**DECLARATION**

We, M/s. \_\_\_\_\_, hereby declare that the rate quoted for the item **“Hand held Walkie Talkie Radio Sets and Base Station”** against bid no. \_\_\_\_\_ is 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 two weeks** from the date of order.

Seal and Signature of Authorized Signatory