NOTICE INVITING BUDGETORY OFFERS

Name of Work	NAME OF WORK: "Supply, Programming, Installation, Testing and Commissioning of VHF Radios"
Date of submission of budgetary quotation	On or Before 12.11.2024.
Address for communication:	Dy. Conservator, Marine Department, "SAARASI" Administrative Office, Mormugao Port Authority, Headland sada Goa - 403804
Contact Details	Phone : (0832) 2594808 Email : chanda.naik@mptgoa.gov.in
Website	www.mptgoa.gov.in

Asst. Engg (E)
MORMUGAO PORT AUTHORITY

MORMUGAO PORT AUTHORITY

MARINE DEPARTMENT

Sub: "Budgetary quotation for "Supply, Programming, installation, Testing and Commissioning of VHF Radios."

Mormugao Port Authority is in process of replacing the defective / out dated VHF Radio provided under Ports Wireless operating Licenses".

As such, kindly furnish the budgetary quotation for the same. Scope of work enclosed as Schedule - 'A1', Technical specifications Schedule - 'A2' and Price Schedule enclosed as Schedule - 'A3').

The budgetary quotation should reach to this office on or before 12.11.2024.

Thanking you,

Yours faithfully

Asst. Engg. (E)
MORMUGAO PORT AUTHORITY

1.0 SCOPE OF WORK:

Supply of VHF Radio and Amendment on the Operating License

- Contractor has to collect all the necessary documents required for replacement of 29 nos VHF Radio and amendment on the existing wireless operating Licenses and apply through saralsanchar online portal within 15 day from placement of Order or Letter of Acceptance.
- Supply, Programming, installation, Testing and Commissioning of all the VHF Radios.
- Before installation contractor has to physically verify the RF Power and other parameters of all the supplied VHF Radio and submit report to the MPA.
- 4. Program the VHF Radios as per the frequency and Channel provided by the MPA/ WPC.
- 5. Software of the supplied VHF radio should work with existing VHF Radio.
- Frequency coding should be done in all the existing and supplied VHF radio, so that there is no interference with other units despite being tuned to same frequency.
- Checking the communication at different location in the port area (with & without VHF Repeater).
- All the supplied VHF Radios shall be tested along with existing VHF equipment's VHF radio for proper performance in presence of the Engineer in Charge.
- 9. Contractor shall supply the Software and programming kit along with supplied VHF Radio.
- 10 Obtain the amendment on the existing WOL license from the WPC

2.0 Terms and conditions:

- The Contractor should have valid Dealer Possession License (DPL) and copy of the same should be submitted along with tender documents.
- 2. The bidder should have local support office in Goa for both hardware & software support and have trained staff on their rolls directly. In case of any failure on the supplied sets during the Guarantee/warranty period, the same should be attended immediately without any financial implication to the Port. Enclose the local office registration detail along with the tender document.
- The contractor should give a guarantee/warranty wherever applicable, for a period of at least two year for VHF Radio and one year for accessories from the date of commissioning of the equipment.
- 4. Contractor shall submit the broacher of the VHF radio along with tender documents.
- Contractor shall submit Test Reports from Central Govt. NABL/ILAC accredited lab to prove conformity to the Specifications.
- 6. Contractor shall give the demonstration of the VHF Radio, which he will supply to the MPA.
- 7. Breakdown must be attended within 24 hrs.

- Incase equipment requires repairs outside Port premises then contractor has to take all responsibility for transportation, charges shall be borne by the Contractor itself and handover the equipment within 15 days.
- Port will bear the License fees / modification fees / royalty charges as per stipulated rates given by the WPC.
- 10. Work must be completed within 180 days including Amendment of existing Operating License.
- 11. If any delay occurs due to WPC clearance, contractor has to produce written evidence of the same.

2) TECHNICAL SPECIFICATION FOR VHF FULL BAND DIGITAL HANDHELD TRANSCEIVER

Description	Requirements		
Frequency Range (MHz)	136-174		
Types of Bandwidth	VHF Full Band		
Channel Capacity	32 or batter		
RF Power output Range	1 to 5 Watts (VHF)		
Warranty	2 years		
PERFORMA	NCE FEATURES		
Frequency Range (MHz)	136-174		
Types of Bandwidth	VHF Full Band		
Display	No		
Channel Spacing	12.5 kiloHertz		
Frequency Stability (±)	0.5 parts per million		
	Digital TDMA (2-slot)		
Technology Air Interface Standard	Standard DMR		
	50 Ohm		
Antenna Impedance	NSMITTER		
	Programmable		
RF Power output	1 to 5 Watts (VHF)		
RF Power output Range	4FSK		
Digital Modulation	Martin Control		
Transmitter FM Hum/Noise	≤ 40db +/- 2.5 KHz @12,5KHz		
Transmitter Modulation Limiting	60db @ 12.5 KHz, 70db @ 20/25KHz o		
Transmitter Adjacent Channel Power	better		
Audio Distortion	3.%		
Digital Vocoder	AMBE+2		
RE	CEIVERS		
Analog Receivers Sensitivity	0.22 microVolt for 12dbSINAD or better		
Digital Receiver Sensitivity at 5% BER	0.16 - 0.22 microVolt		
Spurious Response Rejection	TIA603 or equivalent or better		
Receiver Adjacent Channel	00 4A 94500 0000 0000		
Selectivity	>70db@25 KHz		
Inter Modulation	70db		
Receiver Audio Output	0,5W - 1W		
Receiver Rated Audio Distortion	3 percent		
ACC	CESSORIES		
Antenna for Handheld Transceiver Rugged flexible Helical, Non-DTMF Leather Carry Case with belt clip &	Yes		
shoulder strip, Battery Charger. Operating and service manual with each radio sets provided free of cost in soft as well as hard copy.	Yes		
Software and programming kit	Yes		
Bat	tery Charger		
Input voltage	230 V ± 10%,50 Hz		
Output voltage	12V		

Battery charger suitable for	Lithium-ion		
Charging time for rapid mode	1 to 3 hrs		
Number of charging pockets			
Indicator	charging status		
VAR	IOUS FEATURES		
Simple Press to talk	YES		
Low Battery Alert	Yes		
Mixed Mode Operation (analog & digital)	Yes		
Keypad	No.		
Availability of Inbuilt GPS system	No		
	GENERIC		
Weight of hand held Transreceiver with Battery	240 – 370 gram		
Other features	Instant and Clear voice		
POWER	SOURCE/BATTERY		
Chemistry of Battery	Lithium-ion		
Voltage rating of the Battery	7.4± 10%		
Capacity of Battery (mAH)	2200 - 2500		
CE	RTIFICATION		
BIS registartion under CRS of Meity for the battery	Yes		
BIS registration number and date for the battery	Yes		
	SAFETY		
Protections	Short circuit protection		

S	SERVICE	
Warranty	2 years for radios and 12 months for accessories	
OPERAT	ING CONDITION	
Minimum Operating temperature	30 degree Celsius	
Maximum Operating temperature	55 degree Celsius	
Minimum Storage temperature	-40 degree Celsius	
Maximum Storage temperature	70 degree Celsius	
Operating Humidity @40 °C	MIL-STD-810 F	
TEST RE	PORT DETAILS	
Dust test as per	IP55 or better	
Vibration test as per	MIL-STD-810 F	
Shock test as per	MIL-STD-810 F	
Water Intrusion test as per	IP55 or better	
Salt test as per	MIL-STD-810 F	
Rain test as per	MIL-STD-810 F	
Availability of Test Reports from Central Govt. NABL/ILAC accredited lab to prove conformity to the Specifications.	Yes	
Test Report Number and Date	Yes	
Name and Address of the Lab	Yes	

PRICE SCHEDULE (BILL OF QUANTITIES - BOQ)

"Supply, Programming, installation, Testing and Commissioning of VHF Radios."

Description	Quantity	Unit Rate (₹)	Amount (₹)	GST (%)	Total Amount
Digital Base/Mobile station as per specification, Technical Specification	28 nos	10		milita	15-A
i)VHF Full Band Digital Handheld Transceiver with Battery, Battery Charger and Antenna as per Technical Specification.	Olno.	N.E. A.E.W			
ii) Spare Battery for Handheld Transceiver as per Technical	01 no.		or her of the	AREA (er Lari Arel
Programming, installation, testing and commissioning charges for all VHF Radio	LS.				
Liaisoning charges for amendment of existing Wireless Operating Licenses	2 nos	de l'ord		me a	
	Digital Base/Mobile station as per specification, Technical Specification i)VHF Full Band Digital Handheld Transceiver with Battery. Battery Charger and Antenna as per Technical Specification. ii) Spare Battery for Handheld Transceiver as per Technical Specification. Programming, installation, testing and commissioning charges for all VHF Radio Liaisoning charges for amendment of existing Wireless Operating	Digital Base/Mobile station as per specification, Technical Specification i)VHF Full Band Digital Handheld Transceiver with Battery, Battery Charger and Antenna as per Technical Specification. ii) Spare Battery for Handheld Transceiver as per Technical Specification. Programming, installation, testing and commissioning charges for all VHF Radio Liaisoning charges for amendment of existing Wireless Operating	Digital Base/Mobile station as per specification, Technical Specification i)VHF Full Band Digital Handheld Transceiver with Battery, Battery Charger and Antenna as per Technical Specification. ii) Spare Battery for Handheld Transceiver as per Technical Specification. Programming, installation, testing and commissioning charges for all VHF Radio Liaisoning charges for amendment of existing Wireless Operating Rate (₹) 28 nos 21 nos	Digital Base/Mobile station as per specification, Technical Specification i)VHF Full Band Digital Handheld Transceiver with Battery. Battery Charger and Antenna as per Technical Specification. ii) Spare Battery for Handheld Transceiver as per Technical Specification. Programming, installation, testing and commissioning charges for all VHF Radio Liaisoning charges for amendment of existing Wireless Operating Amount (₹) Amount (₹) Amount (₹)	Digital Base/Mobile station as per specification, Technical Specification i)VHF Full Band Digital Handheld Transceiver with Battery, Battery Charger and Antenna as per Technical Specification. ii) Spare Battery for Handheld Transceiver as per Technical Specification. Programming, installation, testing and commissioning charges for all VHF Radio Liaisoning charges for amendment of existing Wireless Operating Amount (*) (**) Amount (*) (**) (**) 28 nos 01no. 101no. 112

(Rupees:				
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Date:		Signature:		
Place:		Name:		
		Address:		
		Office Seal of firm:		