

**PART-1: NSIL Response to bidders Queries on RFP ref no. NSIL/RFP/MSS/TXP/2023/01 dated 12th June 2023**

Sl. No	RFP Volume	Section Sec	Page #	Content in RFP	Proposed Content	Clarification for Requested Change	NSIL Comments
1	N/A	N/A	N/A	-	Propose a date for Pre-bid meeting	Since there are too many queries that require clarification, may we request for an in-person meeting between NSIL and Bidders?	May be planned through VC if need arises
2	N/A	N/A	N/A	UserNMS specifications required		Without UserNMS the system commissioning will be a challenge	Web Based Access to NMS will be made available.
						There is a mention of Features and functionality of UserNMS under Fishermen application itself. This would lead to a huge confusion	Refer Sr. No. 5 of Corrigendum-I to RFP
						There is a need for upgrade feature of e-token / diesel subsidy / supply chain management. However, the ask has been to add a page in the existing fishermen application. Why would fishermen need a e-token / diesel subsidy and supply chain management modules. It's more to do with the administration needs which fishermen need to adhere. These features should be part of UserNMS modules, architected, design the DB, etc. - The SoW for e-token / Diesel Subsidy and Supply Chain Management has to be provided to arrive at a plan to execute as well as to work on effort estimate	To be implemented as per RFP. The SOW for additional features like e-Token/ Diesel subsidy and Supply chain management will be shared after placement of order.
					Needs to add entire UserNMS specifications in the tender with integration of IMD, INCOIS, further develop newer modules, along with UserNMS mobile app, Fishermen App and Boat Owner apps (Android ONLY)	Only fisherman app & Xpdr are deliverable as per RFP. User NMS is not part of this RFP.	
3		N/A		Definition of boat Harborside availability of boats qualified for fitment of Xponders		The tender does not give specifications for mechanised and motorised boat separately. The MINIMUM requirement would be availability of external boat battery and a cabin to mount the IDU (SoS, Audio Visual Alert) and Mast for ODU. Without external boat battery the internal battery of Xponder cannot be charged hence the unit will become dysfunctional. Further if there is no provision / infrastructure to mount ODU/IDU those boats will become unserviceable	Noted
4	N/A	N/A	N/A		Boat : Boat means a sub 20mtr boat with a cabin to mount IDU and a mast for ODU; which has a boat battery 12/24V with stable power supply	Please specify clearly the definition of a boat for the scope of this project	User(DOF) will ensure availability of boat with mast, cabin & external DC for installation of xponders.
5	N/A	N/A	N/A			Status of SAC Modem ASIC availability in volume & delivery time	Kindly let us know your requirements.
6	N/A	N/A	N/A			Clearly specify the Authority who is obliged to accept the delivery, personnel / agency responsible for assigning of boats in a time bound manner and sign the documents on completion of the activity	User agency (DOF) will nominate suitable person/ authority after placement of order
7	N/A	N/A	N/A			Who is the Point of Contact for responsible End User Agency. It should be provided once the project is awarded	User agency (DOF) will nominate suitable person/ authority after placement of order
8	N/A	N/A	N/A			Without IMD and INCOIS integration, the weather update of Fishermen is not possible to update.	Noted
9	N/A	N/A	N/A			If userNMS is not LIVE, then how do we test the terminals and installation activity	User NMS is made available at time of installation
10	N/A	N/A	N/A			Details of UserNMS should be in RFP1 along with hosting of IT Infrastructure.	It's not in the scope of present RFP

11	N/A	N/A	N/A			Pre Requisites, Dependency, for installation purpose is mandatory. Is NSIL coordinating for this ? What about communication to DOF, ADs, Boat owners, Fishermen, etc on the project. The Training shall be provided to DOF / NSIL only at one location at DOF State HQ office. The Trained DOF/NSIL professional shall provide adequate training to Boat Owners and Fishermen. How this is planned ?  All stakeholders support for installation has to be provided. All support is ensured and installation project management has to be done by End User / NSIL	Noted
12	N/A	N/A	N/A			Mast, Boat Battery, Power Supply availability on the Boat should be confirmed by end user before installation starts	Noted
13	N/A	N/A	N/A			Installations will be done at the Harbour only. Installation cannot be carried out away from harbour in the sea.	Noted
14	N/A	N/A	N/A			Proper Storage of Material after delivery is the responsibility of End User. Cost of storing, upkeep and insurance has to be borne by DOF/NSIL.	The vendor has to dispatch the material to the specified location.
15	N/A	N/A	N/A			Explain the roles & responsibility of End User in the PAN India Roll out Project	Beyond scope
16	N/A	N/A	N/A			When is RFP2 planned to be released. Can we get the details of RFP 2 as its dependent on RFP 1	Beyond scope of present RFP
17	N/A	N/A	N/A			Installation has to be in a time bound manner to comply to Warranty terms. Say max 3 months. Within that the installations has to be completed. Else there would be man power drain and vendor can't hold the installation team for delayed boat availability.	Noted
18	N/A	N/A	N/A			Please confirm if there is a boat battery in Motorised boats. If not, what is the plan from NSIL/ISRO/DOF for charging the terminal.	RFP is for supply and installation of Xponder & accessories as specified
19	VOL II	4.3; 7.13	63,64, 98, 99	Payment Schedule: Milestone & Payment Point no 3 to 8	Refer proposed Updated Financial Bid 7.13 (Pg63/64) and Payment Schedule 4.3 Pg 98 Matrix (Attached below)	Milestone is provided in Xponder quantities. It should be a percentage of total Xponders awarded in PO  Payment to be released on Pro-rata basis against the delivery of the units at site against Proof of delivery Challan. Until the Xponders are deployed on the boats it shall remain safely in the custody of the local authority assigned by DoF/NSIL.  Installation payment to be released on Prorata basis against the submission of installation report signed by End user Agency or time stamped Photography of installation on the boats if End user agency delays to sign the installation sheet by more than 3 days of installation	RFP Terms prevail
20	VOL II	Invitation 8	9	Due Time for Bid Submission to be clarified		Request for an extension, 4 weeks after closure of response	NSIL already extended the bid submission date
21	VOL I	3.17.1.2.17	25	Non-Blacklisting Certificate : The Bidder should not have been blacklisted by any Aerospace and defence manufacturing PSU or government organization in a related field as on bid submission date	The Bidder should provide an Undertaking stating that the company has not been blacklisted by any Aerospace and defence manufacturing PSU or government organization in a related field	The Undertaking has to be signed by Authorised Signatory of the Company	Noted
23	VOL I	3.17.2.b	27	total price quoted for the intended scope of work shall form the basis comparison between the eligible bidders	total price quoted (excluding AMC) for the intended scope of work shall form the basis comparison between the eligible bidders	We understand this is excluding AMC cost. Please confirm	RFP terms prevail

24	VOL I	3.18	27	EMD of Rs. 1,00,00,000 (One crore rupees only) shall be made through Bank Guarantee in favour of "New Space India Limited.".		Is there any waiver for MSME? Just in case waiver is not possible, request you to also accept EMD to be provided as guaranteed Third party Fixed Deposit in favouring NSIL in lieu of BG	All bidders shall submit EMD as per RFP except Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy
25	VOL I	3.18. f. iii	28	f. The EMD may be forfeited in any of the following circumstances: If the Financial Bid is found to be qualified or conditional		Request you not to forfeit the EMD Amount of rejected bids unless it is done with a malified intent. We assume that "Qualified " is typo error to be corrected to "Unqualified" & if conditional	EMD will be forfeited "If the Financial Bid is found to be conditional or not as per the RFP format".
26	VOL I	5.2.b	33	If the Authority does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the Eligible Bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document.	To be deleted	Is this clause applicable prior to issue of PO or holds even after issuance of PO. Any changes after issuance of PO will have monetary implications for us hence NSIL has to pay for the awarded quantities.	Existing Term of RFP will remain same. However, for any change in order after issuance of PO, the authority will discuss later with the selected vendor if the need arises
27	VOL I	5.2.c	33	Repeat orders for extra items or additional quantities may be placed, on the rates and conditions given in the contract.	Please specify % of repeat Order & Timeframe for repeat order	Please specify % of repeat Order & Timeframe for repeat order	May be finalized later if need arises
28	VOL I	5.4.a	34	All the material/information shared with the Bidder during the course of this procurement process as well as the subsequent resulting engagement following this process with the Bidder, shall be treated as confidential and should not be disclosed in any manner to any unauthorized person under any circumstances. The employees of the Bidder who are proposed to be deployed on the project need to furnish a Non-Disclosure Agreement (NDA) as per RFP Volume III. The Bidder shall execute and maintain all copies of the NonDisclosure Agreement (NDA) and shall produce it when sought by the Authority.	To be deleted		Noted. The individual employees need not to sign NDA but the bidder shall execute NDA after the placement of order.
29	VOL I	5.7.a	36	The Eligible Bidder shall not be allowed to subcontract / outsource a task, to any vendor or organization not approved by the Authority for that task.	To be deleted	Are we supposed to take a NoC for every vendor that we engage? This is not practical and will induce huge delays. Moreover it is a product sale, hence request you to delete it.	Noted. The details of the subcontracter vendor needs to be provided for contingency management of this project
30	VOL I	6.3.e	38	The Authority shall return the part of Bank Guarantee within thirty (30) days of acceptance of completion of each of the milestone.		Please clarify with an example	RFP Terms prevail
31	VOL I	6.3.k	39	k. On satisfactory performance and completion of the order in all respects and duly certified to this effect by the Project Coordinator, Contract Completion Certificate shall be issued and the PBG would be returned to the Bidder.		Generally one experiences huge delays when it comes to issuing project completion certificate. So please specify what activities/milestones constitute project completion so that any independent competent person/authority can validate it. Proportional Bank guarantees have to be released for the said completion of work.	NSIL will define the project milestone
32	VOL III	1.24.a	121	a. The Vendor shall transfer all titles to the assets and goods procured for the purpose of the project to the Authority at the time of Acceptance of System. This includes all licenses, titles, source code, certificates, hardware, devices, equipment's etc. related to the system designed, developed, installed and maintained by the Vendor. The Vendor is expected to provide ownership right of only those solutions and goods which would be customized by the Vendor for the use of New Space India Limited. For any pre-existing work, the Vendor and the New Space India Limited shall be held jointly responsible and its use in any other project by Vendor shall be decided on mutual consent.	To be deleted	This is a product sale and not design and development contract. And transfer for ALL IP RIGHTS in source code form are not acceptable.	The design details of H/W, source code, etc has been asked as deliverable to ensure the integrity of design and functionality enabling the maintainability of the product. The usage of this product is strategic in nature and hence these rights are requested.No IP rights for the portion of development carried out by vendor needs to be transferred.
33	VOL III	1.11	109	Authority's Obligations		Need elaborate / clarity on all NSIL & DOF responsibilities under this Section. There are many field related support requirements and prerequisites from NSIL/ISRO/DOF. Best is to discuss and arrive a roles and responsibility matrix for each of the stake holders.	Scope of work and deliverables from Vendor are as mentioned in the RFP.
34	VOL I	18	13	Shall include but not limited to the supply, installation, and commissioning of Xponders as per RFP.	Shall include and restricted to the supply, installation, and commissioning of Xponders as per RFP.	We cannot assume responsibilities outside the scope of the work defined under the contract	Restricted to RFP Scope

35	VOL I	2.1	85	Minor change is scope of work, which may be needed to meet the end objective of the project and accommodated without any additional cost.	Minor Changes have to be mutually agreed upon at the time PDR.	What is considered under 'Minor change'? It cannot exceed certain man months of effort or hardware change.	Noted
36	VOL I	1.23.a	120	The Goods supplied under this Contract shall be comprehensively insured by Vendor at its own cost, against any loss or damage, for the entire period of the contract		It is impractical to assume any insurance co will provide a comprehensive insurance cover from the source to destination (including transit) and then storage at 9 states and 4 UT where the vendor has no control whatsoever. The vendor can take responsibility of goods until they are delivered at the destination address. Subsequently it becomes the property of the user and they need to ensure the goods are stored and maintained in a secure place until the Xponders are deployed on the boats.	Noted. Vendor is responsible for the delivery of items to the identified sites at each of the coastal states/ UTs.
37	VOL I	10	24	An undertaking (self-attested) shall be submitted, stating that there has been or is no outstanding bankruptcy, judgment or pending legal action that could impair operations as a going concern.		What happens in the case of ongoing merger? There are no procedures laid down to address in case of merger	Bidder shall intimate in advance about the impending merger and related details.
38	VOL III	1.13	110	Intellectual property	To be deleted	We have designed this product ground up. Since this is a product sale and not a development, the IP belongs to Vendor, except for the protocol provided by ISRO.	ISRO has envisaged and developed the service for special users. The user terminal has been envisaged and developed through multiple industries by ISRO under a Purchase contract as per network requirement. The IP for any sub system or submodule developed by vendor other than what was specified in RFP to realize the product, is not requested. However, the source code and the design details for meeting the project objectives/ as specified in RFP for development form part of deliverables to ensure integrity and reliability of the product and belongs to ISRO.
39	VOL II	3.4	92	The +4.5 dBW minimum across +/- 45 deg beam width of antenna (Antenna gain of 2.5dBi and PA output of +33dBm at antenna input port)	The +4.5 dBW minimum across +/- 45 deg beamwidth of antenna (Antenna gain of 2.5dBi and PA output of +32dBm ± 1 dBm at antenna input port)	PA output of +33dBm, not at the Antenna port. At Antenna port it will be 32dBm. 32+2.5=34.5dBm (+4.5dBW, so meeting requirement) 33+2.5=35.5dBm (+5.5dBW, but requirement is +4.5dBW)	Refer Sr. No.1 of Corrigendum-I to RFP
40	VOL II	3.4	92	Built-in battery should support 24 hours of uninterrupted operations of position reporting every 15 minutes with discrete mode reception (3 minutes reception every 15 mins).	Built-in battery should support 24 hours of uninterrupted operations of position reporting every 15 minutes with discrete mode reception (3 minutes reception every 15 mins).	As mentioned above, the boats need to have at the MINIMUM an external 12/24V (range 9V-24DC) boat battery, a cabin for mounting IDU and a mast for mounting ODU without which the boat is an unserviceable entity	Noted
41	VOL II	3.3	91	The Xponder should have feature for Over The Air (OTA) terminal firmware upgradation either via SATCOM network or through Bluetooth/Wi-Fi link and Android APP.	The Xponder should have feature for Over The Air (OTA) terminal firmware upgradation through Bluetooth/Wi-Fi link and Android APP.	ISRO has to provide a sample demonstration of over the Air Upgrade using existing VTS related infra operating on GSAT-6 Satellite. The protocol details have to be shared in advance so as to check the feasibility of implementation on the current hardware. Only if it is feasible, the Satellite OTA upgrade can be accepted. Any upgrades that warrant a field visit shall be at extra cost.	Noted. The feature for OTA terminal firmware upgradation through Bluetooth/Wi-Fi link and Android APP is mandatory.
42	VOL II	3.4	92	Temperature: +0°C to +60°C	Temperature: +0°C to +50°C	Recommended to change the temperature specification to +50°C. The ODU temp in discontinuous transmit mode will be substantially lower due to sea winds, hence 60% is not a practical use case and unnecessarily burdens the design	Refer Sr. No. 3 of Corrigendum-I to RFP

45	VOL II	4.2 to 4.3	97 & 98	Table C: Hardware and Software Design Submission -> T0+2 Table D: Design Review Completion -> T0 + 2 weeks	Table C: Hardware and Software Design Submission -> T0+1 Table D: Review Completion -> T0 + 2 weeks	Submission & Review had same timeline.	Refer Sr. No.6 of Corrigendum-I to RFP
46	VOL II	4.2	98	Table C: Sr No4: ATP & environmental test report submission and validation -> T0+15 weeks	Table C: Sr No4: ATP & environmental test report submission and validation -> T0+15 weeks at any accredited lab facility in the country. The report shall be submitted to SAC.	Please confirm	Noted. RFP term prevails
47	VOL II	3.5	94	All the Xponders installed on boats will have in-built WiFi/Bluetooth transceiver to communicate to a smartphone (preferably with Android/iOS OS).	Android is Mandatory, iOS is optional	While Android is Mandatory, iOS is optional. The complexities of IOS (closed ecosystem) are different than Android when it comes to the App approval process. Android can be used without hosting it on Play Store, but the same cannot be done on IOS devices. Moreover maintenance of Apps on two separate OS'es will be a challenge going forward. iOS devices are expensive and we haven't seen any fishermen using iPhone while at Sea. So request you to eliminate iOS or at the least make it optional.	Noted. Android is mandatory
48	VOL II	3.2	90	Continuous reception mode where receiver is always in ON condition. This will be the default mode for transponder.	Correction: The unit when powered ON will operate in discrete reception mode and that will be considered as default mode of operation.	For the purpose of validation, we will support both modes, continuous & discrete reception mode. However, the unit will be pre-configured to support discreet mode by default. Please clarify how will the unit changeover from discrete to continuous mode and whether such provision is already made in the protocol document. If yes, please share the details.	Both the modes should be supported and user configurable.
49	VOL II	3.5 Notes	96	Firmware modification/upgradation	Firmware modifications shall accommodate additional number of beams and limited to change in frequency allocation table for supporting additional beams shall be carried out via Smartphone app only. The vendor shall provide the app to the department and the same would be used for upgrade.	To accommodate change over to new Space asset, the bidder shall update the firmware to support additional beams (once in a lifetime). The Changes shall be limited to new beam frequency configuration without changing the underlying waveform / protocol. Alternatively, a sample modification structure (frequency table) to accommodate additional land and oceanic beams can be provided for internal testing prior to commissioning the project. In the absence of details it is not feasible to commit compliance to open ended requirements. Also the effort for modification of the firmware are limited to 2 man months of effort (included). Any additional effort towards implementation, testing and upgradation shall be charged separately. The firmware upgrade is a future event and it shall have no bearing on the project completion status.  The bidder shall support firmware modifications only if the Xponders are under Warranty or followed by AMC with no discontinuity. Since the upgradation activity is dependent on the hub side as well, the involved agencies shall extend full support during the upgradation phase. The bidder shall not be held responsible if there services are affected during the firmware upgradation process. Any activity that warrants a site visit will be charged separately.	Noted. Firmware modifications are mandatory part of project and it will be once in a lifetime after acceptance. All technical supports will be provided. No site visit is envisaged as it will be done on a proto terminal at a central location.
50	VOL II	3.1	89	Navigational assistance to pilots and fishermen		As we understand, the navigational assistance shall be limited to providing the location informational and approximate distance to the selected harbour.	Accepted.

51	VOL II	3.1	89	Additional Features: These proposed new features by user can be implemented as a firmware/software upgradation and doesn't require any hardware change with respect to already developed Xponders. This calls for including a separate page in software application for mobile device. Necessary protocol document will be made available. Vendor should apportion this development effort as part of offered Xponder cost. ✓ e-Token system & Diesel subsidy ✓ Supply chain management	To be deleted; This feature should be part of UserNMS and cannot be clubbed under fishermen App	e-Token System & Diesel Subsidy and Supply Chain management should be a shore based feature. Loading the sea-side fishermen application with this feature will not be helpful because a) One fishermen might be sailing on multiple boats at different point in times b) Multiple fishermen might be sailing on the same boat c) Subsidy calculation is an involved activity between dept and fish boat owner d) Boat owner might not be OK with every fishermen getting exposed to commercials So it is best to keep this as a shore side feature, preferably as a feature upgradation to boat owner application connected to UserNMS in the backend. The boat owner can retrieve the data from the User NMS. iure the purpose should not be loaded In order to implement these new features in UserNMS, more details are required. Based on how it is implemented, It has imThis has to be part of UserNMS modules. No inputs / specifications provided. Hence we can estimate the requirement. We recommend to remove this feature or give us the details requirements. Details required to estimate the effort.	The implementation is limited to fisherman app upgradation to accommodate transmission of necessary information from boat to administrative agencies.
52	VOL II	3.2	89	RF Transceiver AD9364	RF Transceiver AD9364 or equivalent	We have deployed terminals in several thousands (on the same satellite) using a different combination of chipsets. So there is no point in restricting the scope to one or two chipsets. Again it's a product sale confirming to the specifications, the implementation details can be best left to bidders discretion.	Refer Sr. No. 1 of Corrigendum-I to RFP
53	VOL II	3.3	91	Reception of broadcast information (weather alerts, potential fishing zone) from control station and display on the fisherman / Pilot gadgets/Smartphone	Reception of broadcast information (weather alerts, potential fishing zone) from control station and display on the fisherman /Smartphone (Android 6.2 version and above)	The fishermen application shall be supported on Android Smart phones ver 6.2 & above with adequate RAM/ROM capability. In exceptional circumstance if a particular make of device is not functioning while all other devices are working ok, it shall be the responsibility of the fishermen to change to a compliant device.	The latest version of Android with a backward comptability to previous android verion relased in last 1 year of supply to be supported.
54	VOL II	3.3	91	Advanced power saving mode for prolonged operation without external power supply		Our understanding of Discrete receive mode is the same as advanced power saving mode. Pl confirm	Yes
55	VOL II	3.5	94	The features displayed on the app may depend on role of the user	Fishermen App shall support only the role a fishermen All other roles such as Boat owner & DoF roles are part of User NMS web platform	Fishermen app is a lite app. Its an offline app, but connected only to Satellite device deep in the sea for alert messages and 2 way messages with boat owner. In the RFP this segment is mixed with UerNMS app and Boat Owner app. Needs to be corrected.	Only fisherman app & Xpdr are deliverable as per RFP. User NMS is not part of this RFP.
56	VOL II	3.5	94	The app shall have features such as report generation, viewing of live tracking, location poll request, sending messages from vessel to NMS, etc.	To be deleted and included under the UserNMS	Except for messaging services, rest all of features are included as part of UserNMS	Refer Sr. No. 4 of Corrigendum-I to RFP
57	VOL II	3.5	94	Alerts Viewing – It shall show the text/emergency messages sent by the user agency through the web portal. Any disaster message alert like cyclone warning, heavy rains, high tide, high wind velocity etc. should be flashed on the entire page.	High wind to be deleted	Please remove from specs; SOS <highwind> not available in the existing protocol after the mutually agreed modifications Adding this new element will impact almost all the applications in the network.	To be implemented as per the Protocol document to be supplied after the placement of order.
58	VOL II	3.5	95	Trip Declaration – This would be used by fisherman to declare information about the boat and the crew before they start a voyage and declare their return on the end of the voyage manually/automatically as they arrive on shore using ge-fencing.	To be deleted	It is the responsibility of the boat owner to declare the crew details before the commencement of the voyage. The User NMS platform can update the trip status - start/stop based on certain markers such as distance from the coastline Trip Declaration feature mentioned in the RFP has to be moved from fishermen Smartphone application to UserNMS	This feature is to be supported in Android app as per existing implementation/ as specified in RFP.
59	VOL II	3.5	95	My Boats - Once touched, it should show the boats at sea to the owner of the boat. The features displayed on the app should be displayed based on the role of the user (fisherman or boat owner). There shall also be provision to show the crew list for the selected boat to the owner of the boat	To be deleted	Boat Owner application is a sub-set of User NMS and in his role as Boat Owner he has access to all the boats registered under his name. My Boat feature mentioned in the RFP has to be moved from Fishermen Smartphone Application to UserNMS	Refer Sr. No.5 of Corrigendum-I to RFP

60	VOL II	3.5	95	Boat Owner features: The app shall display information about location and status of vessels owned by a boat owner. Details of trips taken, current and historical location and details of crew members shall be displayed. This feature may be enabled when Internet connectivity is available. It shall take all information from Application NMS.	To be deleted	Boat Owner application is a sub-set of User NMS and in his role as Boat Owner he has access to all the boats registered under his name.  Boat Owner features mentioned in the RFP has to be moved from Fishermen Smartphone Application to UserNMS	Refer Sr. No.5 of Corrigendum-I to RFP
61	VOL II	3.5 Notes	96	The firmware changes will be limited to accommodate the additional number of beams in the network and associated protocol changes & terminal configurability.		As mentioned above the firmware changes shall be restricted to updation of frequency configuration (Frequency table) and the mechanism to upgrade shall be determined after testing Software Upgrade over the Satellite for VTS application using existing GSAT-6 infra. However, there will be a provision to upgrade via Android Smart phone App.	Firmware change to operate with new multi beam satellite as specified in RFP is mandatory.No field visit is envisaged.
62	VOL II	4.2	97	T0: T0: Date of order acceptance but not later than 5 working days from the date of Purchase Order	P0: On receipt of Purchase order the bidder has to revert back with an acknowledgement/acceptance within 5 working days. T0: The Project Kick will be determine the T0 and the project execution time lines (milestones) shall be from receipt and mutual acceptance and formal sign off of API document from NSIL/ISRO	After formal Project Kick off (T0), there shall be no changes unless it is absolutely necessary. If there are any change requests which are mutually acceptable, the same shall be factored in and the milestones shall be adjusted accordingly.	RFP Term prevails.
63	VOL II	2	84	NSIL may opt to hire a third-party agency to evaluate and qualify the terminals developed by vendor		Not clear on this clause. Please clarify.	Third party certification (Other than ISRO/ NSIL) may be exercised.
66	VOL II	1 Para 2	83	ISRO, as part of technology development programme, developed low data rate two-way MSS terminal for tracking boats. This technology was best suited for providing communication and support services to marine fishing vessels to ensure safety and security of fishermen. After successful development of vessel tracking technology at ISRO, the same got transferred to Indian industry partners for bulk production and capacity building. Government of Tamil Nadu has already adopted this technology solution from ISRO and it is in the process of installing vessel communication and support system for nearly 5000 fishing vessels through Indian Industries	ISRO, as part of technology development programme, developed low data rate two-way MSS terminal for tracking boats. This technology was best suited for providing communication and support services to marine fishing vessels to ensure safety and security of fishermen. ISRO developed vessel tracking technology along with Indian Industry Partners, using ISRO and Indigenously designed products, and later cleared for bulk production and capacity building. Government of Tamil Nadu has already adopted both these technology versions of the product approved ISRO and it is in the process of installing vessel communication and support system for nearly 5000 fishing vessels through Indian Industries	Kindly update this clause as Bidder has developed the solution ground up using its own SDR chipsets for the TN project. While the hardware is conceived, designed, developed and implemented by Bidder the protocol for satellite communication is provided by ISRO. Note: This was provisioned separately since the trials of VTS in 2017 and also the TN tender	This technology and service was conceptualised and implemented by ISRO and subsequently four indian insutries were subcontracted through a Purchase Order to develop the xponders either based on ISRO ASIC or using alternate technology (Optional) for catering to the pilot project requirements.ISRO is the sole proprietor of this technology and service.
				ISRO, as part of technology development programme, developed low data rate two-way MSS terminal for tracking boats. This technology was best suited for providing communication and support services to marine fishing vessels to ensure safety and security of fishermen. After successful development of vessel tracking technology at ISRO, the same got transferred to Indian industry partners for bulk production and capacity building. Government of Tamil Nadu has already adopted this technology solution from ISRO and it is in the process of installing vessel communication and support system for nearly 5000 fishing vessels through Indian Industries			

67	VOL II	2 Para 5	84	Initially, the available space segment capacity on GSAT6 satellite will be used by the vendor. After the end of life of GSAT-6, the MSS network will be shifted to GSAT6 follow on satellite, GSAT-32.	With changeover of asset to GSAT-32, there shall be NO changes in Hardware, Protocol or features. The only upgradation that is envisaged is frequency allocation table	Provision to update the Frequency allocation table via firmware shall be undertaken once the new satellite service is established. If the upgrades warrant a field visit by the engineers such upgrades shall be done at extra cost. NO HARDWARE CHANGES are possible. GSAT-6: Any performance issues related to GSAT-6 are beyond the scope of the bidder. Hence the bidder's responsibility is limited to the functional performance of the Xponders. The bidder shall not be held responsible for lapse of service / deficiencies of service in terms of Satellite, Bandwidth, Switchover, Earth station operation, Hub Infra, Hub NMS, User NMS, Gateway, backhaul connectivity etc. The bidder is absolved of any obligations arising under such scenario and all payments due to the bidder shall be made including refund of PBG, AMC etc.	Noted
68	VOL II	2 Para 1 last line	84	A protocol document for developing these smartphone applications will be provided by NSIL/ SAC, ISRO after signing NDA.	A protocol document for developing these smartphone applications will be provided by NSIL/ SAC, ISRO after signing NDA within 2 days.	Every passing day will delay the project. Important to add timelines to delivery for every task that involves Government departments. Any delays will have to be factored in the delivery milestones.	Noted
69	VOL II	2.1.4	85	Column 2: Manufacture and Delivery of Xponders to sites as per specifications. The bidder must provide the QA/QC test results as specified in RFP along with Xponders. Column 3: User to verify and acknowledge receipt.	Column 2: Detailed Test reports have to be supplied for all Prototype units. Column 3: The bidder will ship to the address provided by the user along with delivery Challan.	Random Test reports shall be provided on demand for 1 unit in 1000 units. It is the responsibility of the receiver to check and acknowledge the receipt. In the absence of such receipt the delivery challan and proof of delivery by logistics agency will be treated as goods delivered.	RFP Term prevails.
70	VOL II	2.1.5	85	Column 2 : Installation, Commissioning and Field Testing with User Agencies of Production Batch of terminals and fixing of any performance deviations/suggestions, if any [lot basis] Column 3 : Field Performance Review and suggestions. Approval of Installation reports.	Column 2 : Installation, Commissioning and Field Testing with User Agencies of Production Batch of terminals and fixing of any performance deviations/suggestions, if any [lot basis] Column 3 : Field Performance Review and suggestions.	User Agencies is not defined. Who is user agencies? Is approval is provided by Buyer / NSIL	NSIL will be the Nodal agency.
71	VOL II	Note	85	Note: Above table mentions the major work share plan. Bidder must note that this RFP is for development, supply and field installation of transponder for intended applications. Minor change is scope of work, which may be needed to meet the end objective of the project and accommodated without any additional cost.	Note: Above table mentions the major work share plan. Bidder must note that this RFP is for development, supply and field installation of transponder for intended applications.	This RFP is not for development Please define the clear scope of work to quote properly. No ad hoc task or open points are recommended to keep in the tender as it may impact commercial proposals Any activity (mutually agreed upon) exceeding two man months of work (cumulatively) shall be charged separately.	The Scope of work is as specified in RFP.
74	VOL II	2.2.iv	85	Limited number of Xponders may be proposed to be stationed there as immediate replacement of faulty units. This will be finalized at the time of design review in consultation with user agency.		Is this at additional cost or within t Please mention the location he same cost? Please quantify limited numbers Please mention the timelines of supply Timeline for finalizing this. Can this be provided before RFP is close, as this would impact commercial proposal	The delivery qty is as specified in the RFP.
75	VOL II	2.3.5	87	All documents (Design document including schematic, BOM etc., ATP document, Factory test result of each unit, User Manual, environmental test results etc.)	All documents (Design document including schematic, BOM etc., ATP document, Factory test result of unit, User Manual, environmental test results etc.) for one golden sample unit.	It would be impossible to provide any other document other than quick start guide for each unit.	It is required to provide Factory test result of each production unit. Other details (schematic, BOM etc., ATP document, environmental test results) are to be provided once for the unit which will be subjected to all tests for production clearance.
77	VOL II	2.3.iv	87	Vendor to coordinate with user agency for dispatch, storage, and installation of terminals.		Who will provide adequate storage place at each of the sites for safe upkeep of the devices until installation? Who will bear the responsibility of the goods?	vendor is responsible for dispatch and delivery of items at sites.

78	VOL II	2.3.v	87	The above deliverable is indicative. Necessary accessories, cable, adaptors, drivers etc. required for terminal installation and operations have to be delivered along with terminals. This needs to be discussed and finalized at the time of design review with user agency & NSIL/ ISRO.	Unit Deliverable Kit contains : - Terminal (ODU) - SOS Switch for Mechanised Boats (IDU) - Mounting clamp - Screws / Start guide - 8 Core (<=7m) cable + <=1 m 2 Core cable	Cable length will be <=7 mts supply along with unit. Mast to be made available near the boat driver cabin to match 8-core cable length. Mast should be at least 4 inch in dia and open to sky.	Details to be submitted as part of bid.
79	VOL II	3.3	91	External DC Power removal	This applicable only to serviceable boats having external battery power supply.	We have experienced some issues on field when external power supply is disconnected. External DC status is part of Position report and same health byte can be added to all other messages from terminal. So the requirement specifications can be modified accordingly.	Noted
80	VOL I	ANNEX 7.13/ 6	63	Two years of Warranty for the Xponders	Second year warranty is priced.	Standard warranty is 12 months for the terminal and 6 months for the battery.	RFP Term prevails.
81	VOL I	5.2.b	33	If the Authority does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the Eligible Bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document.	If the Authority does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the Eligible Bidder shall be entitled for any claim or compensation except otherwise provided in the bidding document.	"The Eligible Bidder shall not be entitled for any claim or compensation except otherwise provided in the bidding document." Vendor shall not be able to take the liability on excess inventory that builds up (as this project is "Made to Order" and not a commodity product) short of the tender qty, if the procurement qty's are changed?	RFP Term prevails.
82	VOL I	Point 17	13	Commissioning : means a project shall be considered commissioned if all equipment/ terminals/ hardware/ software/ firmware, mentioned under the scope of contract, has been successfully installed and ready for operation.	Commissioning : means a project shall be considered commissioned if pro-rata equipment/ terminals/ hardware/ software/ firmware, mentioned under the scope of contract, has been successfully installed and ready for operation.	The payments have to be released against delivery on pro-rata basis. This clause needs to be revised to reflect timely payments against deliveries and installation separately. This will impact of release of PBG as well.	RFP Term prevails.
83	VOL I	17	25	Non-Blacklisting Certificate: The Bidder should not have been blacklisted by any Aerospace and defence manufacturing PSU or government organization in a related field as on bid submission date.  The Bidder shall submit: Legal Attorney certified letter of undertaking to this effect on the letter head, co-signed by Eligible Bidder' authorized signatory as per format provided in Volume I Annexure 7.10 of this RFP		Request you to accept an undertaking jointly signed by Company Authorised Signatory and legal team	NSIL can consider the request .
84	VOL I	10	24	Financial stability : An undertaking (self-attested) shall be submitted, stating that there has been or is no outstanding bankruptcy, judgment or pending legal action that could impair operations as a going concern.		Kindly note that the bidder is undergoing merger with other company and necessary files being submitted for final confirmation from NCLT hope this clause is not applicable. Considering the bidder is undergoing merger with other company, the RFP doesn't address such situation. The same should be addressed wherein post merger the contract gets automatically without any prior consent (just by way of intimation) assigned to other company.	if any company or other legal entity is under merger/amalgamation process before NCLT without any default, then this clause will not be attracted for such vendor.
85	VOL I	7.12	61	Performance Bank Guarantee		We request the Authority to give Vendor 30 days prior written notice before you demand the PBG.	RFP terms prevails.
86	VOL I	7.13.4	63	Software/Firmware of all the peripheral & components in source form.		As mentioned earlier, the IP rights and ownership of Software /Firmware belongs to bidder except the Protocol hence the terms of deliverables have to be discussed	Any physical layer IP developed by bidder is not requested.However, source code pertaining to all functionalities development as part of ISRO PO (Past & present) has to be delivered in native form with ownership rights for contingency management.

87	VOL II	2.2	85	Field Installation & Terminal Maintenance:		Internal note: Bid team to take a note and confirm "The Vendor is not obliged to pay ated Damages to the Authority to the extent the event giving rise to the Liquidated Damages is not directly and solely attributable to the Vendor".	RFP terms prevails.
88	VOL II	2.1	84	Details of Scope of Work: The detailed Acceptance Test Plan is to be prepared and submitted along with RFP response and must include following major tests: All RF Parameter tests as per transponder Specification. All functional performance verification matrix for test cases/corner cases. Satellite Link Performance Verification and Compatibility test with Hub Baseband Environmental Performance verification		Bidder to provide ATP. Any such ATP must explicitly state the timeline from delivery with in which the acceptance test should take place, otherwise it'll be a deemed as accepted. Eg: If there is no acceptance test 30 days from delivery, it'll be regarded as a deemed acceptance. Bid team to take a note and confirm from Authority, whether there will be any "factory acceptance test". Will there be any inspections during production?	Noted. There will be ATP and FAT and timeline for the same will be specified.
89	VOL II	2.3.vi	87	The bidder shall take into account of + 10% variation in supply of no. of Xponders and should maintain the inventory of components to meet the supply order with no change in terms & conditions.		This clause is applicable only orders released within one year from the date of PO	Noted.
91	VOL III	1.13	110	Intellectual Property Rights		IPR of the solution, except ISRO protocol will remain the IPR of Bidder	ISRO doesn't reproduce the xponders developed by Industries even though the development has been done against PO. However, the network and services has been conceptualised and implemented by ISRO for its users and the operation within the network is subject to prior permission of ISRO. ISRO is the sole propriatr of network and services.
92	VOL III	1.6	104	Vendor Vendor's Obligations: "(g) Vendor shall not publicise or advertise the work performed under the scope of work as provided in the RFP in any paper, electronic/ digital or any other media."		How will Indian industry grow if such prohibitive clauses are put ? Except for the commercials and protocol details, bidder reserves the right to publicise project.	Any publicity shall be subject to the permission by NSIL
93	VOL III	1.15	112	Indemnity		Indemnity should not be for any generic breaches like breach of terms of the contract etc. it should be only for specific breached like IPR, bodily injury only if its attributable to Bidder etc. Liability should be capped at actual money received by Bidder considering there is a milestone payment provided for. The Indemnity clause has to be mutual.	NSIL Indemnity bond is for the loss caused to NSIL by the wrong ful act of the vendor hence cannot be limited to IPR bodily injury etc. and also cannot be mutual.
94	VOL III	1.16	113	Warranty		Warranty clause in current form neeis not acceptable and needs to be modified. Warranty shall be applicable from the date of delivery at site plus additional two months provided for installations. Any acceptance if not done within a mutually accepted period shall be deemed as accepted. Any delay beyond the permitted period shall have impact on the deliveries and milestones. However, such delays will be considered and update the delivery schedule.  The validity of the warranty requires adherence to Vendor's storage, installation, startup, maintenance and repair guidelines and the use of the equipment in accordance with specified operating conditions. This Warranty expressly does not cover the supply of soft goods required to inspect or maintain any part of the equipment, the effects of normal wear and tear or damage from debris, or subsequent damage to the extent resulting from failure to keep equipment in good repair. "Vendor's Warranties and liabilities shall immediately terminate in the event of a Risk Purchase"  We should not be held liable for breach either in terms of indemnity or LDs if such breach is not solely and directly attributable us. Suppose installation and commissioning could not be completed due to lack of sight readiness, any	Vendor's warranties and liabilities will be applicable to the products supplies, installed & commissioning of the products only to the extent for which vendor has successfully performed his obligations under the terms & conditions of the RFP. The Risk Purchase Clause if invoked then the upcoming vendor will bear the obligations & responsibilities of the remaining products to be supplies, installed & commissioned by him.

95	VOL III	2.1	123	Performance Bank Guarantee (Performance Security)		deliverables from NSIL side etc, we should not be held	RFP term prevails
96	VOL III	2.3	124	Risk Purchase Clause		It should be exercised post 60days curing period after factoring in of the delays not attributable solely to the bidder. The extent of risk purchase shall be done at competitive price and limited to the extent of goods undelivered at the time of exercising this Risk Purchase option. In the event the Risk Purchase option is exercised, Vendor's warranties and liabilities shall immediately terminate.	Noted
97	VOL III	1.21	116	Force Majeure		We request that no Force Majeure Event should affect Authority's payment obligations as stated in Section 1.12 of this Agreement.	Noted
98	VOL III	1.22	120	Delivery		Will this delivery terms be complying to Incoterms 2020.	RFP Terms prevail (Consider DDP incoterms)
99		1.24	121	Transfer of ownership: "The Vendor is expected to provide ownership right of only those solutions and goods which would be customized by the Vendor for the use of New Space India Limited".	To be deleted	The "Transfer of ownership "clause is not acceptable. Since the product is conceived, designed and developed by Bidder, TOO is not possible.	RFP term prevails. All the Hardware & Software supplied against this RFP/Contract, NSIL will be the sole owner.
100	VOL III	1.7(h)	106	Reporting Progress: At any time during the course of the Contract, the Authority shall also have the right to conduct, either itself or through another agency as it may deem fit, an audit to monitor the performance by Vendor of its obligations/ functions in accordance with the standards committed to or required by the Authority and Vendor undertakes to cooperate with and provide to the Authority/ any other agency appointed by the Authority, all Documents and other details as may be required by them for this purpose. Such audit shall not include Vendor's books of accounts.		We request any such audit to be conducted subject to prior written notice of 15 working days. Audit is restricted to this project progress and not related commercials and confidential information if any.	RFP term prevails. NSIL will have the right to conduct audit of the progress of the project as the project is of National Importance.
101	VOL III	2.2	123	Liquidated Damages		"The Vendor is not obliged to pay LD to the Authority to the extent the event giving rise to the Liquidated Damages is not directly and solely attributable to the Vendor". LD should be claimed only on the undelivered portion of the goods/services. Delay not attributable to the vendor shall be considered for exclusion for the purpose of computing liquidated damages.	Kindly refer to sub clause iv of clause 2.2 "Delay not attributable to the vendor shall be considered for exclusion for the purpose of computing liquidated damages".
102	VOL III	1.25	121	Exit management plan		Why have an EXIT PLAN instead of a mutual termination clause? what is the relevance of an EXIT PLAN in this engagement? (Legally, EXIT PLANS are put in place when the execution of the project/services transferred to a third party, mostly in case of a risk purchase).	RFP term prevails
103	VOL III	2.4	124	Limitation of Liability: For any direct loss or damage that exceeds (A) the total payments payable under the Contract to Vendor hereunder, or (B) the proceeds Vendor may be entitled to receive from any insurance maintained by Vendor to cover such a liability, whichever of (A) or (B) is higher.		We request 2.4(a)(ii) to be made mutual. Vendor's liability should be capped at the milestone from where the issue is emanating and not the entire value of the contract. The liability shall be capped at the actual money received under the contract.	RFP term prevails
104	VOL III	2.6	125	Confidentiality		We request Confidentiality at 2.6 to be made mutual. We also like to under which Confidentiality (Section 2.6 or section 5.4 or the terms of the NDA) clause shall supersede in the event of a conflict.	RFP term prevails
105	VOL III	2.7(c)	125	Events of default by the vendor: Vendor has failed to remedy a defect or failure to perform its obligations in accordance with the specifications issued by the Authority, despite being served with a default notice which laid down the specific deviance on the part of Vendor / Vendor's Team to comply with any stipulations or standards as laid down by the Authority; or		We request event of default to be made mutual and nonpayment by authority to be addressed as an "Event of default by Authority".	RFP term prevails

106	VOL III	2.8	127	Termination		The termination clause is not acceptable in the current form. Further the termination clause can be invoked only when the Bidder ceases to do business in the normal course, (ii) becomes or is declared insolvent or bankrupt, (iii) is the subject of any proceeding related to its liquidation or insolvency (whether voluntary or involuntary) which is not dismissed within ninety (90) calendar days.	Noted																		
107	VOL III	2.9	130	Consequence of termination		The authority shall make all payments due to the bidder, until the defective date of termination on pro-rata basis.	RFP term prevails																		
108	VOL III	Point 2.10	131	Defect Liability after termination		On termination of the contract, the vendors responsibility is limited to servicing the remainder period of warranty for the products which have been fully paid for. Under no circumstances the bidder shall be liable for any risk purchase. All obligations subsequent to termination shall cease to exist. The authority shall have to complete full fill the payment obligations until the date of termination of the contract for products and/or services either in full or part.	After the supply , installation and commissioning of the Xponders the defect liability period will be acknowledged for those items/products which are not covered under warranty periods.																		
109	Volume I	Chapter 3, Section 3.3 c. ii	16	Eligibility Criteria: Bidders shall send the request for participating in NCNC demonstration with suitable dates. All relevant technical details for demonstration will be shared thereafter. The date of NCNC demonstration should be on or before 25 June 2023		Bidder developed and supplied similar MSS Terminals with higher capability using GSAT-6 satellite for RTIS (Real- time Train Information System) project. These Terminals are deployed and in use by Indian Railways. Hence we request you to consider the same and waive-off the NCNC demonstration. If NCNC demonstration is required, Bidder shall offer the same however, the following details are required from NSIL.  As per RFP Buyer has to provide the technical details for demonstration. For NC-NC demonstration, Android application to be developed based on the ICD provided by NSIL. For getting ICD details, first NDA has to be signed. Request you to facilitate the NDA signing. Bidder shall offer the MSS Terminals for NC-NC demonstration within 8 weeks from the date of receipt of the ICD and other technical details of demonstration.	NSIL has provided the NC NC requirements and its technical details.																		
110	Volume I	Chapter 4: Section 4.4.3,	31	Financial Bid Evaluation Framework		Refer to Volume I, Chapter 7, Section 7.13, Page no. 63, In Price Bid Format, Price provision is only given for Qty nos. But as per Volume I Chapter 4: Section 4.4.3, page no 31 Quantity split also mentioned for L 1, L2 & L3 bidders. If quantity changes price also varies. Hence request you to give provision for different slabs in the price bid format.	RFP Term prevails. The price bid comparison will be done for the total supply (100k terminals) as per RFP and a MOQ of 20K is envisaged subject to bidders agreement post bid evaluation and selection.																		
111	Volume I	Chapter6, Section 6.3	37 & 38	Performance Bank Guarantee (PBG): The Authority shall return the part of Bank Guarantee within thirty (30) days of acceptance of completion of each of the milestone. <table border="1"> <thead> <tr> <th>S.No.</th> <th>PBG Percentage</th> <th>Validity (Months)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25% of 5% of Contract Value</td> <td>18</td> </tr> <tr> <td>2</td> <td>40% of 5% of Contract Value</td> <td>18</td> </tr> <tr> <td>3</td> <td>25% of 5% of Contract Value</td> <td>18</td> </tr> <tr> <td>4</td> <td>8% of 5% of Contract Value</td> <td>18</td> </tr> <tr> <td>5</td> <td>2% of 5% of Contract Value</td> <td>42</td> </tr> </tbody> </table>	S.No.	PBG Percentage	Validity (Months)	1	25% of 5% of Contract Value	18	2	40% of 5% of Contract Value	18	3	25% of 5% of Contract Value	18	4	8% of 5% of Contract Value	18	5	2% of 5% of Contract Value	42		1.As per RFP PBG @5% of contract value is required, however multiple PBGs have to be provided totalling to 5% of the contract value. As per present MOF notification no. F. 1/2/2023-PPD dated 03 April 2023 the PBG is @3% of contract value is required. Request you to please consider the same for the present RFP. 2.Refer Volume II, Chapter 4, Section 4.2, page no. 97 & 98 Delivery Schedule: As per Volume I, Chapter 6, Section 6.3(e) page no. 38, release of PBGs are linked with delivery milestones. However, milestones are not mapped with PBG	Refer Sr. No.7 of Corrigendum-I to RFP
S.No.	PBG Percentage	Validity (Months)																							
1	25% of 5% of Contract Value	18																							
2	40% of 5% of Contract Value	18																							
3	25% of 5% of Contract Value	18																							
4	8% of 5% of Contract Value	18																							
5	2% of 5% of Contract Value	42																							
112	Volume I	Chapter 6, Section 6.3	37 & 38	PBG: 2% of 5% of Contract value validity 42 months		Please consider the validity of this PBG also 18months																			

113	Volume I	Chapter 7,Section 7.1	40	State wise allocation of MSS Terminals (Xponder)		1. Please specify the distribution list within the state for all the states and UTs. 2. Please specify the number of Lots which are acceptable for each location. 3. Please also specify priority consignee within states and over the states.	Further details on the distribution list will be provided after firm placement of PO. There are 70 locations identified across 9 states and 4 UTs. The no. of lots will be depending on requirement at each sites taking into consideration of ease of supply by the vendor.
114	Volume I	Chapter 7,Section 7.13	63 & 64	Format for Financial Bid		Line item sl no. 6, Two years of warranty for the Xponders qty lno is given in financial bid format. However, AMC line item was not mentioned in the financial bid format. Please clarify. If AMC is required please include the same in the financial bid format.	overall warranty for two years shall be built into product cost.AMC for next three years after completion of standard warranty to be quoted separately.Warranty doesn't include consumables.
115	Volume II	Chapter 2,Section 2.2 (ii).	85	The number of Xponders and location of supply will be provided after placement of order.		Request you to provide these details on or before bulk production clearance	Ok. Noted.
116	Volume II	Chapter 2,Section 2.2 (iv)	85	Field Installation & Terminal Maintenance: Limited number of Xponders may be proposed to be stationed there as immediate replacement of faulty units. This will be finalized at the time of design review in consultation with user agency.		Request you to specify the number of Xponder going to be stationed for immediate replacement of faulty units. This qty may be excluded from the Installation & Commissioning qty.	Replacement xponders will be from the total supply order quantity.
118	Volume II	Chapter 3: Section 3.1	89	Additional Features:		Please elaborate the requirements for following features. • e-Token system & Diesel subsidy • Supply chain management	To be implemented as per RFP. These are implementations pertaining to android app with minor change in firmware. The detailed SOW will be shared after placement of order.
119	Volume II	Chapter 3: Section 3.2	89	Technical Details of Fishing Transponder		The use of RF Transceiver AD9364 is mentioned, we assume that the supplier can choose suitable architecture which meets the requirements against RFP.	Refer Sr. No.1 of Corrigendum-I to RFP
120	Volume II	Chapter 3: Section 3.2	90	An android/IOS application running on a smart phone is used for data exchange with Fishing transponder		Smart phone is not part of the present scope of supply. Please clarify.	Smart phone is not part of deliverable. Android app is mandatory
121	Volume II	Chapter 3: Section 3.2	90	Figure 2 :Hardware Block Diagram of Fishing transponder		1. Buzzer and Manual Emergency switch. Please clarify these modules are to be part of Xponder. Otherwise specify where to be considered. If it is considered as separate in indoor unit what would be the distance between Xponder and Indoor unit. This is required for considering the provisioning of required cables between Indoor and Xponder. 2. Please specify the operational requirement of Indoor unit and Smartphone. 3. LCD/Keypad interface connection is shown. We understand that this requirement is not there as smart phone is used for configuration and communication.	1). Buzzer and manual switch are part of indoor unit. The standard distance between indoor unit and the outdoor unit is considered as 10m. 2). Indoor unit is provisioned to enable emergency messaging on manual press in absence of smart phone or battery outage of smart phone. Smart phone will house android app for various detailed communication and navigation assistance. 3). LCD keypad interface is proposed for future expansion and not mandatory.
122	Volume II	Chapter 2,Section 3.4,Table B, S.No. 1	92	Technical Specifications of MSS terminals (Xponders): Tx Frequency band		Tx Frequency band: 2.658 to 2.68GHz is mentioned. Is it 2.658GHz or 2.65GHz. Please clarify.	It is 2650 to 2680 MHz
123	Volume II	Chapter 2,Section 3.4,Table B, S.No. 3	92	Technical Specifications of MSS terminals (Xponders):EIRP of the Terminal		EIRP of the Terminal: +4.5 dBW minimum across +145 deg beam width of antenna. Please specify the Antenna polarization.	Refer Sr. No.2 of Corrigendum-I to RFP
124	Volume II	Chapter 3: Section 3.4,Table B, S.No. 9	93	Technical Specifications of MSS terminals (Xponders):User device interface : WiFi / Bluetooth		WI-Fi/Bluetooth: Can WiFi / Bluetooth be switched ON along with the receiver of Xponder in discrete power mode? Or it should be kept continuously ON? Please clarify.	The wireless interface to the android phone will always be ON to enable emergency messaging.
125	Volume II	Chapter 3: Section 3.4,Table B, S.No. 11	93	Technical Specifications of MSS terminals (Xponders): Built in battery		What is the charging mechanism and availability of the power and required infrastructure & accessories? Do we need to supply the charger? Please clarify?	External DC will be available from boat battery or any other source. However, the charging circuit for the built in battery of ODU is to be provisioned.
126	Volume II	Chapter 3: Section 3.4,Table B, S.No. 15	93	Technical Specifications of MSS terminals (Xponders):Baseband Controller Features		UART interface for external data (Future option) is mentioned. Please specify the baud rate/interface details.	Provisioned for future use.

127	Volume II	Chapter 3: Section 3.5	94	Fisherman smart phone Application feature:		<p>1. Please clarify whether the mobile App will be ported on Android or iOS or both?</p> <p>2. We understand that the GIS maps will be provided by NSIL for integration with mobile App? Please clarify</p>	<p>1). The Andorid app as per RFP requirements in mandatory.</p> <p>2). The open source GIS like open street etc. to be used. If required, NSIL will provide the GIS map.</p>
128	Volume II	Chapter 4, Section 4.2 Table C, Sl. No 5	97 & 98	Table C : Delivery Schedule : First full lot of Proto terminal delivery (Qty. as specified or 10 nos)		<p>1. Refer Volume I, Chapter 7 Section 7.13, S. No. 1, Page 63 proto units qty 20 was mentioned. However, Volume II, Chapter 4, Section 4.2 Table C, Sl. No 5, Page 97 &amp; 98, Prototype units quantity mentioned as 10 nos. Request you to clarify</p> <p>2. As Bulk production clearance is involved, bulk procument of the components, import items, raw materials, fabrication of the Xponders shall only be taken after BPC. Procurement of bulk components shall take 4-6months after BPC. Assembly, Fabrication, Testing &amp; Integration shall take 8 to 10 weeks' time. Production and delivery of the units will start from 52nd week. We shall complete</p>	<p>1. The qty of proto terminal to be considered as 10.</p> <p>2) RFP Terms prevail. As this RFP is for competent vendors with prior experience of MSS terminal development and involves NC NC demonstration, it is envisaged that the major active components procurement will be initiated by the vendor immediately after placement of order without waiting for BPC on lot production requirement basis to meet the RFP delivery schedules.</p>
129	Volume I	Chapter 3, Section 3.18i	27	Earnest Money Deposit (EMD) EMD of Rs. 1,00,00,000 (One crore rupees only) shall be made through Bank Guarantee in favour of "NewSpace India Limited."		Bank Guarantee Format for EMD is not given in RFP. Please provide format for the same.	Please visit to NSIL website for the updates
130	NA	NA	NA	NA	NA	<p>We need more clarity on the availability of the SAC-developed MIDU MODEM ASIC. During the MSST Pilot project, Bidder was provided with this MIDU Modem as FIM (Free Issue Material) by keeping a BG (Bank Guarantee) value of approximately Rs.11,000/- per IC taken. When we inquired with the SAC team regarding this RFP, they directed us to confirm the details directly from NSIL. Therefore, we require more clarity on the availability of this MODEM as FIM, as well as the BG value per IC. The reason for this request is that there are currently other bidders/participants who possess their own modem, which is similar to the MIDU modem. In previous tenders, these bidders were allowed to supply their modems, resulting in a price advantage for them during the bidding process. The chances of winning the bid are higher for them compared to other bidders who do not have a price advantage since they rely on the MIDU Modem supplied by SAC. This is because the FIM issued by SAC comes with a BG, which is an expensive affair for the bidders dependent on the SAC Modem</p>	<p>SAC developed MIDU in plastic package was made available at a cost of 1504 per unit for Xponder development for TN fisheries. This is indicative pricing. Participating bidders are free to choose their own solution or MIDU ASIC. The parity in price comparison is always maintained.</p>
131	NA	NA	NA	NA	NA	<p>The RFP mentions the supply of the MIDU Modem/ASIC from SAC. Is this is the only modem allowed for use in the MMS terminal, or are any third-party developed indigenous modems also permitted by NSIL? If other indigenous modems are allowed, how will NSIL assess the modem price? There is a possibility that if other indigenous modem manufacturers are permitted, they may have price advantages compared to non-modem manufacturers during the bidding process. How does NSIL plan to address this issue?</p>	<p>As per RFP terms, Bidders are allowed to use any Modem viz FPGA/SDR or ASIC. When ASIC is issued as FIM, the price of FIM is loaded into the offered price to maintain price parity.</p>
132	NA	NA	NA	NA	NA	<p>SAC has been experimenting with different Modem ASIC Packages since the beginning. Could you please clarify which package is going to be provided currently?</p>	176 Pin LQFP
133	NA	NA	NA	NA	NA	<p>SAC had previously provided a 180nm tech CMOS, 164-pin Ceramic Quad Flat Pack (CQFP) Package IC for the MSST Pilot Project. Currently, there is talk of providing a 180nm tech CMOS, 176-pin LQFP Package IC.</p>	176 Pin LQFP

134	NA	NA	NA	NA	NA	AD9364 IC: According to the RFP, use of AD9364 transceiver IC from Analog Devices is mandatory when supplying the MSS terminal along with the SAC-provided MIDU Modem. SAC team had suggested this same IC during the pilot project, and at that time, there was a commercial agreement between SAC-ISRO and AD, which allowed us to obtain this IC at a discounted price. Is this agreement still valid between AD and SAC(ISRO) for this RFP? Will AD supply this IC at the same discount rate as provided for the earlier pilot project? If not, how will NSIL control the pricing of this IC? If SAC/NSIL allows other indigenous modem/Transceivers manufacturers to use their own modem IC/transceiver to manufacture MMS terminals, apart from the SAC/AD supplied modem/transceiver IC, how will the bid prices be assessed, as the prices of other bidders depend on the SAC/AD supplied prices?	All the proposed components and architecture are indicative and not mandatory. Bidder is free to choose any optimal architecture meeting the overall product specification in a cost effective manner.
135	NA	NA	NA	NA	NA	The RFP clearly states that this project aims to harness the potential of indigenously developed ISRO technology and provide space-based solutions to meet various requirements, including those from the government and strategic sectors related to telecommunication, broadcasting, and security. Additionally, there is mention of the positioning receiver supported with NavIC-enabled GPS receiver. Since SAC mandates the use of their indigenously developed MIDU modem for non-modem manufacturers in this RFP, Bidder' Software and Systems, being an indigenous GNSS company in India, recently developed an indigenous Navic+GPS receiver Baseband SOC with MEITY support under the Make In India initiative program. The same SOC and Modules have been tested and certified by SAC to commercially promote this product in all upcoming indigenous programs. There for we request NSIL to consider this SAAC certified Accord NavIC+GPS receiver as the mandatory positioning receiver instead of allowing bidders to use third party modules that employ foreign chipsets/SOC.	All the proposed components and architecture are indicative and not mandatory. Bidder is free to choose any optimal architecture meeting the overall product specification in a cost effective manner.
136	NA	NA	NA	NA	NA	There is no mention of Environmental qualification Test details required for the product in the tender document.	Refer RFP Terms.
137		3.3 c (ii)	16	Bidders shall send the request for participating in NCNC demonstration with suitable dates. All relevant technical details for the demonstration will be shared thereafter. The date of NCNC demonstration should be on or before 25 July 2023	The Date of NCNC demonstration should be on or before 25 July 2023	Since this custom demonstration requires specific PCB Assemblies,PowerAmplifier and Antenna, we request date for NCNC demonstration to be extended till 25th July 2023. This will give us a fair chance to arrange the appropriatehardware and provide a demonstration to NSIL	Please visit to NSIL website for the updates
138		3.3 c (ii)	16	All relevant technical details for the demonstration will be shared thereafter.	We request you to share the technical details for Demonstration	Preparation for the demonstration requires thorough technical understanding. With the shared technical details from NSIL we can arrange a detailed demonstration.	NSIL has provided the NC NC equipments and its technical details.
139					Free Issue of Material (FIM)	We request NSIL to confirm if any Free Issue of Material will be provided. This confirmation will help in our costing.	There is no standard and mandatory FIM envisaged.
140		Pre Bid Queries	9	1.The address and contact numbers for sending Bid or seeking clarifications, if any, regarding this RFP are given below.	Request for a Pre Bid Meeting as project complicated	Pre Bid Meeting is required as the Project involves multiple skills and technologies to meet the end solution	May be planned through VC if need arises

141		3.3.Salient Features of Xponders:	91	<input type="checkbox"/> Reception of broadcast information (weather alerts, potential fishing zone) from control station and display on the fisherman/ Pilot gadgets/Smartphone	<input type="checkbox"/> Reception of broadcast information (weather alerts, potential fishing zone) from control station and display on the fisherman/ Pilot gadgets/Smartphone. Using a Windows based Dispatcher Application which can view all vessels on a GIS Map with ability to make a Group or Individual call	Just Messaging Data based application will be not a complete Now 3GPP ETSI standard based Mission Critical Android/iOS based Solutions are available to provide Voice at very low levels of Data requirements around 20Kbps one way. This will make solution more robust. Control Room DOF will be also directly call any vessel or Group of Vessels. Dispatcher has messaging module including meeting all RFP requirements both Vessel and Control Room	RFP Terms prevail
142		3.4.Technical Specifications of MSS terminals (Xponders)	93	Data Rate-0.6Kbps / 1.2Kbps /2.4 Kbps (Reconfigurable)	Request if technically possible to maintain 19.2kbps/32kbps.	Our One way semiduplex call requires minimum15kbps	RFP Terms prevail
143		3.4.Technical Specifications of MSS terminals (Xponders)	94	Forward Link (Hub to Terminal)-Data Rate-9.6 Kbps /19.2 Kbps / 32Kbps (Reconfigurable)	Request to enforce 19.2kbps/ 32kbps	Our MCX Solution Voice Application in PTT format will need minimum 15kbps if accepted	RFP Terms prevail
144		3.5.Fisherman smart phone Application feature	94	App should be bilingual (English/Hindi/Local language)	Request to clarify English + Hindi will suffice or other regional languages too. Request development time of 6 months for Hindi	Most Mission critical applications are in English only. However having develop,ment centre in Bengaluru we can customise provided time is provided. Rrequest to make it Phases	Refer Sr. No.4 of Corrigendum-I to RFP
145		3.5.Fisherman smart phone Application feature	94	<input type="checkbox"/> Alerts Viewing – It shall show the text/emergency messages sent by the user agency through the web portal	<input type="checkbox"/> Alerts Viewing – It shall show the text/emergency messages sent by the user agency through the web portal/ or a Windows based Dispatcher Command and Control Module	Windows based Central Command and Control Module with low bandwidth capability will make application flexible	RFP Terms prevail
146		3.5.Fisherman smart phone Application feature	95	<input type="checkbox"/> Message – It shall enable the person at sea to send message to his owner personally and to control room if he needs	<input type="checkbox"/> Message – It shall enable the person at sea to send message or Push to Talk call to his owner personally and to control room if he needs	Voice based communication is instant and the APP apk is designed to work on a IP backbone with BW requirement on Semi Duplex Walkie Talkie functionality call	RFP Terms prevail