

Response to RFP Queries_Part-1 RFP No: NSIL/RFP/HUB/VCS-MCS/ 2024/02 dated 16 March 2024 for Ground Segment Hub for Maritime Asset Monitoring including Civil,Electrical and Environmental Infrastructure

SN	RFP Volume & Section	RFP Page No.	Content in the RFP	Proposed content	Clarification for requested change	NSIL Clarification/Response
1	Vol II and Sec 2	88,93,94,96	Block diagram mentions 2:1 for LNA,BDC but mentioned 1:1 at pages 92,94,96	All need to be 2:1 configuration		Yes, All need to 2:1 Configurations per the Block Diagram, Typo error at pages 92,94,96
2	Vol II and Sec 2	96	is BDC Indoor or Outdoor	Indoor rack mountable		As per the Bidder Proposal, anything is ok as long as requirement is met, Indoor is preferred.
3	Vol II and Sec 6	95	Quantity of tunable filter	2Nos		Qty of tunable filter is three numbers
4	Vol II and Sec 6	120	10 hz Distributor		Purpose?	Typo error , 10 MHz instead of 10 Hz, Used for reference
5	Vol II and Sec 3	100,101	Specifications of TDM Modulator and Burst Demodulator	Make and Model	NSIL to Confirm the probable suppliers	No specific make . Any make /model which meets the RFP specifications
6	Vol. II, Ch.2, 2.1	88	2:1 LNA is shown in figure 2	Both specs are contradictory.	NSIL to confirm the required redundancy of LNA system.	2:1 LNA to be considered
	Vol. II, Ch.2, 2.2.2	93	The LNAs are used in (1:1) redundant mode			
7	Vol. II, Ch.2, 2.2.2, Table 4, Sr. No.1	94	Frequency range: 3.6-4.2 GHz	Frequency range: 3.625- 4.2 GHz	3.6-4.2 GHz band is not standard for LNAs. It starts with 3.625 to 4.2 GHz or 3.4 GHz to 4.2 GHz.	Frequency range: 3.6-4.2 GHz is correct , You can offer LNA with freq range 3.625-4.2 GHz. Both will be considered technically acceptable.
8	Vol. II, Ch.2, 2.1	88	2:1 BDC is shown in figure 2	Both specs are contradictory.	NSIL to confirm the required redundancy of BDC system.	2:1 BDC to be considered
	Vol. II, Ch.2, 2.2.7	96	The BDCs are used in (1:1) hot redundant mode			
9	Vol. II, Ch.2, 2.2.7, Table 9, Sr. No.1	96	Input RF Frequency: 3.6-4.2 GHz	Input RF Frequency: 3.625-4.2 GHz	3.6-4.2 GHz band is not standard for BDC. It starts with 3.625 to 4.2 GHz or 3.4 GHz to 4.2 GHz.	Input RF Frequency: 3.6-4.2 GHz is correct, you can offer BDC with 3.625 to 4.2 GHz. Both will be considered technically acceptable. The BDC and LNA
10	Vol. II, Ch.2, 2.2.8, Table 10, Sr. No.1	97	Frequency range: 5.850-6.450 GHz	Frequency range: 5.850-6.425 GHz	5.850 – 6.450 GHz band is not standard for TWTA. It starts with 5.85 to 6.425 GHz or 5.85 to 6.650 GHz.	Frequency range: 5.850-6.450 GHz is Correct, Comply with the specification, specified in RFP
11	Vol. II, Ch.2, 2.2.8, Table 10, Sr. No.2	97	Power Output at flange (CW) : 350W Min.	Power Output at flange (CW): 650W Min	As most of OEM's moved away from 400-watt TWTA and are supplying 750-watt TWTA. As such, there are very limited OEMs of TWTA and if the specs is not amended, there wont be sufficient competition in the bidding for TWTA product.	Power Output at flange (CW) : 350W is the minimum requirement for the project. Vendor is free to choose higher power TWTA And should meet the EIRP requirement.Break up to be submitted.
12	Vol. II, Ch.2, 2.2.9	97	The BUCs are used in (2:1) redundant mode	Both specs are contradictory.	NSIL to confirm the required redundancy of BUC system.	2:1 BUC to be considered
	Vol. II, Ch.2, 2.2.9, Table 11	97	Table 11: 1:1 Block Up Converter (BUC) Specifications			
13	Vol. II, Ch.2, 2.2.9, Table 11, Sr. No. 2	98	Output Frequency : 5.850 -6.450 GHz	Output Frequency : 5.850 -6.425 GHz	5.850 – 6.450 GHz band is not standard for BUCs. It starts with 5.850 to 6.425 GHz or 5.850 GHz to 6.650 GHz. Transmit C-Band Freq. of Antenna & Feed is also 5.85-6.425 GHz and hence there should not be any issue to amend BUC freq. range to 5.850-6.425 GHz	Output Frequency : 5.850 -6.450 GHz is Correct , 5.85-6.425 GHz is also technically suitable and compliant.
14	Vol. II, Ch.2, 2.2, Table 3, Sr. No. 49	92	Antenna Control Unit (ACU) & Hub Monitoring & Control system (HMC): Cold redundancy	Both specs are contradictory.	NSIL to confirm the required redundancy of HMC system.	Both Specs are correct . RFP specifications and requirements prevails. HMC is Hot redundant and ACUparts are cold redundant.
	Vol. II, Ch.2, 2.2.10, Table 12, Sr. No. 3	99	One HMC with 1 1 Hot redundant configuration) per earth station to support the local operations.			
15	Vol. II, Ch.2, 2.2, Table 3, Sr. No. 47	92	No. of ports required for external reference distribution – 8 (Typ)	Both specs are contradictory.	NSIL to confirm the required no. of output ports for 10 MHz distributor	Both Specs are correct . RFP specifications and requirements prevails
	Vol. II, Ch.3, 3.6, Sr. No. 3	104	No. of O/P Port: 16			
16	Vol. II, Ch.6, 6.1, Sr. No. 1.5, 7	119, 120	Dehydrator, 10 Hz Distributor	Basic specs of both these items may be provided	This is required to offer suitable model of these products	Typo Error , 10 MHz to be considered instead of 10 Hz
17	Vol. II, Ch.7, 7.2.1.2, A-3e	122	Shall be paid on per yearly basis against the satisfactory performance Certificate	Shall be paid on per quarterly basis against the satisfactory performance Certificate	Services payment on quarterly basis is standard payment terms in Govt. contracts.	It will be changed to Half-Yearly basis
18	Vol. II, Ch.7, 7.2.1.2, C-h)	122	Shall be paid on half yearly basis on completion of each six-month period	Shall be paid on quarterly basis on completion of each three-month period	Services payment on quarterly basis is standard payment terms in Govt. contracts.	No Change, Shall be paid on half yearly basis on completion of each six-month period
19	Vol. II, Ch.7, 7.2.1.2, D-i)	123	Shall be paid on half yearly basis on completion of each six-month period	Shall be paid on quarterly basis on completion of each three-month period	Services payment on quarterly basis is standard payment terms in Govt. contracts.	No Change, Shall be paid on half yearly basis on completion of each six-month period
20	Vol. II, Ch.7, 7.2.1.2, A-1a)	121	The Second Payment of 75 % of the order value is for deliverables	The Second Payment of 75 % value of the supplied deliverables on pro-rata basis (up to max. 5 invoices) 100% GST of the supplied deliverables will be paid against supply.	Payment on pro-rata basis against deliveries will ease out the financial burden on contractor. Such payment terms are followed in other ISRO tenders also. There is no clarity on release of GST payment to contractor. NSIL need to pay 100% GST amount to Contractor immediately on raising invoice after supplies. This is normal payment terms in Govt. contract as contractor also needs to pay GST to Govt. immediately on invoicing.	The Payment term is Correct, No Change required, GST Amount will be paid as part of Invoice as per the prevailing rules.
21	Vol. I, Ch.3, 3.18b	28	No exemption for submitting the EMD will be given to any agency. EMD in any other form will not be entertained	EMD is to be obtained from the bidders except Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy [or Startups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT)]	This is as per the General Finance Rule (GFR-2017) Rule 170(i)	MSEs firm will be exempted from EMD , Need Provided the valid MSEs Certificate. MSEs tender specific rules are also applicable for this tender.
22	Chapter 2. Technical Specifications: of MSS Hub Equipment (Ground Segment) 2.1 Earth Station Configuration and Block Diagram	87/88	Chapter 2: Clause no 2.1 Brief Description of Earth Station	Brief Description of Earth Station:	1.Please specify how many carriers will be Transmitted in Single polarity. This is a very important point to be considered for the RF Design and to meet the requirement specified in the Tender.	RFP specifications and requirements prevails
					2.What will be the Bandwidth of each carrier.	NA for bidder
					3.The description mentions TWTA System – Does it mean that NSIL wants TWTA only.	Yes with redundancy as per RFP.
					4. If the answer is Yes to point 3 then Why are we not considering the SSPA technology which offers superior IMD performance, higher reliability, lower maintenance cost, lower cost of spares, longer operating life, higher personnel safety, lower power consumption, reduced cost of electricity and, in the end, lower total cost of ownership than the Tubes.	RFP specifications and requirements prevails
					5.Where extremely high reliability is required the SSPA in redundant configurations offers protection on a number of levels, from the actual amplifier modules to the instant-on hot standby equipment and switching that effectively provides uninterrupted communications services for common carriers and the critical networks like this.	RFP specifications and requirements prevails
					6.Also for Multi carrier operations where there are 2 or more than 2 Carriers SSPA will give you much better output in RF power with SWAP(Size, Weight and Power) features.	RFP specifications and requirements prevails
					7.We request you to please consider our request and make it open for the SSPA OEMs to participate as the SSPA is now been considered all across the Globe for such critical applications.	RFP specifications and requirements prevails

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23	Chapter 2. Technical Specifications: of MSS Hub Equipment (Ground Segment) 2.1 Earth Station Configuration and Block Diagram	89/90	Chapter 2: Clause no 2.2 Table 3	Point no 5: EIRP (at mid band with minimum 3.0 dB waveguide loss to be taken for calculation)	1.EIRP required as mentioned in the Specification is 75 dBw minimum, this also mention to provide the EIRP break up, HPA Configuration with Sizing details to meet the above minimum EIRP requirement. As you have mentioned the waveguide loss to be 3 dB precise and HPA to be placed indoor, do we need to consider the Waveguide run according to 3 dB loss. Do we need to consider any location change or increase in length from HPA till Antenna which will in turn change the Waveguide loss accordingly. 2.We just want to mention here that if the HPA system is placed near to the Antenna or on the Antenna this 3 dB can be saved which will reduce the HPA sizing drastically. 3.Also the costs for electricity contribute significantly to the overall operating cost of electronic equipment. In the case of microwave amplifiers there are two principal components to this energy cost. The first is the actual input energy to the amplifier, and any reduction in that amount is a direct saving. The second is the cost to maintain the equipment environment at acceptable ambient conditions, for example by providing HVAC (Heating, Ventilation and Air Conditioning). It should be noted that Hub Mount amplifiers designed to operate at the antenna do not impose any HVAC load on the building air conditioning system. 4. Request to please consider the HPA to be mounted outdoor which will save the Huge Capax and Operational cost to NSIL.	Wave guide loss is the minimum wave guide loss to be taken for Calculation of EIRP and sizing of TWTA as mentioned in RFP. However vendor can choose higher or actual wave guide losses as estimated in their calculation. Any calculation with less than 3 db waveguide loss and reduction in HPA power rating other than mentioned in RFP will be considered non compliant to our requirement. RFP specifications and requirements prevails RFP specifications and requirements prevails This is not considered in RFP. TWTA and BUC are indoor.
24	Chapter 2. Technical Specifications: of MSS Hub Equipment (Ground Segment) 2.2.8 TWTA assembly with Integral Linearizer	97	Chapter 2: Clause no 2.2 Point no 2.2.8	Point no 2: Power output at Flange (CW) 350W Min (It should also meet EIRP specification)	1.The current point is directly linked to the Query no 1 and 2 such as: •No of carriers to be defined •Open level playing field to be provided to the SSPA technology against the TWTA technology. 2.Here it is mentioned 350W Minimum at Flange and to meet 75 dBw EIRP. Please consider the below mentioned calculation: Example - For 2 No of Carriers: • A standard 750W TWTA will give 650W (58.13 dBm) at Flange and when there is multiple carrier (2) it needs to be backed off by 4 dB which will reduce this to 258 W (54.13 dBm). This will not be able to meet the requirement. •Now if the no of carriers is increased to 3,4,5 or more there is additional backoff to be provided in Tube technology which will reduce the output power at Flange more. •This is a very important parameter to be decided before the calculation. •The requirement of 350W and 75 dBw EIRP calculates a big Amplifier so to reduce the sizing consider this to be outdoor. • Also, for better performance, superior IMD performance, higher reliability, lower maintenance cost, lower cost of spares, longer operating life, higher personnel safety, lower power consumption, reduced cost of electricity and, in the end, lower total cost of ownership than the Tubes please consider SSPA technology also along with the TWTA technology.	RFP specifications and requirements prevails
25	Volume -I/ Chapter-3	3.2.2 / 18	The Bidder (SI) shall have at least 5 years of experience in installation and commissioning of ground station (of similar nature) for satellite communication. Also, must have necessary expertise for configuration of RF baseband System, Antenna foundation, Civil, Electrical and Environmental infrastructure.	The Bidder (SI) shall have at least 5 years of experience in installation and commissioning of ground station (of similar nature) for satellite communication. Also, must have necessary expertise for configuration of RF baseband System, Antenna foundation, Civil, Electrical and Environmental infrastructure. The expertise of Civil, Electrical and Environmental infrastructure can be met by third party.	Please allow to meet the experience /expertise of Civil, Electrical and Environmental infrastructure through a third party.	Yes, Civil, Electrical and Environmental infrastructure can be met by third party. Refer 5.7. Sub-Contracting clause.
26	Volume -I/ Chapter-1	1.2 / 11	Objective of the RFP	This activity is part of a project on National Rollout plan for installation of ~100K MSS terminals (Xponders) in marine fishing vessels (mechanised and motorised boats) and establishment of Vessel communication and Support system for monitoring, control and surveillance (MCS).	We understand that the supply and installation of MMS Terminals in vessels is not in the scope of the bidder. Kindly clarify.	Yes, MSS terminals and its installation is not in scope of the bidder.
27	Volume -I/ Chapter-3	3.11(c) / 21	In the event of any assumptions, presumptions, key points of discussion, recommendation(s) or any points of similar nature submitted along with the Bid, Authority reserves the right to reject the Bid and forfeit the EMD.	In the event of any assumptions, presumptions, key points of discussion, recommendation(s) or any points of similar nature submitted along with the Bid, Authority reserves the right to reject the Bid.	Kindly delete the following sentence from this clause, as the clause is subjective- "forfeit the EMD"	RFP Standard clause. Uniformly applicable to all bidders.
28	Volume -II / Chapter-6	6.1/ 120	Item Description: 3. Brust demodulator - 80 nos. 6. Satellite Gateway Unit (SGU)	-	We understand that these equipment are developed by SAC, ISRO for MSS Project. Kindly provide OEMs' detail for these products, as there are not available with prominent OEMs of Satellite equipment.	List being Provided in Response to RFP Queries-Part-2
29	Volume -I/ Chapter-7	7.11 / 57 & 58	7.11. Format for Financial Bid	-	Kindly clarify whether the price to be quoted in 4th & 6th column of the format is unit price or total price?	4th column is unit price excluding tax and 6th column is total price including tax
30	Vol. II, Ch.2	Page-80	Umbrella and User Network Management Software solution)	-	kindly elaborate the difference between umbrella NMA and user NMS	Project Description. Not to be supplied as part of RFP
31	Vol. II, Ch.2	Page-93	LNA assembly with Transmit Reject Filter and Test Couplers" It is	-	pls confirm 1:1 or 2:1 for LNA system	2:1 for LNA system
32	Vol. II, Ch.2	Page-94	Table-4. LNA Assembly Specifications, # Pt – 1 which reads as "Frequency Range: 3.6 -4.2 GHz.	Frequency Range: 3.625 -4.2 GHz.	3.6-4.2 GHz band is not standard for LNAs. It starts with 3.625 to 4.2 GHz or 3.4 GHz to 4.2 GHz. In view of the same please clarify 3.625 to 4.2 GHz would be acceptable for LNA	Frequency range: 3.6-4.2 GHz is correct , You can offer LNA with freq range 3.625-4.2 GHz. Both will be considered technically acceptable.
33	Vol. II, Ch.2	Page-96	"1:1 Block Down Converter (BDC)" it is mentioned that the LNA's are	-	pls confirm 1:1 or 2:1 for BDC system	2:1 for BDC system
34	Vol. II, Ch.2	Page-96	1:1 Block Down Converter Specifications, # Pt – 1 which reads as "Frequency Range: 3.6 -4.2 GHz.	Frequency Range: 3.625 -4.2 GHz.	3.6-4.2 GHz band is not standard for BDC. It starts with 3.625 to 4.2 GHz or 3.4 GHz to 4.2 GHz. In view of the same please clarify 3.625 to 4.2 GHz would be acceptable for BDC	Input RF Frequency: 3.6-4.2 GHz is correct, you can offer BDC with 3.625 to 4.2 GHz . Both will be considered technically acceptable.Offered LNA and BDC frequencies should match.
35	Vol. II, Ch.2	Page-97	"TWTA Assembly with integral Linearizer ", Table-10 TWTA Specifications PT#1 which reads as Frequency Range: 5.850 – 6.450 GHz.	-	5.850 – 6.450 GHz band is not standard for TWTA. It starts with 5.85 to 6.425 GHz or 5.85 to 6.650 GHz. In view of the same please clarify 5.85 to 6.425 GHz would be acceptable for TWTA	Output Frequency : 5.850 -6.450 GHz is Correct , 5.85-6.425 GHz is also technically suitable and compliant.
			"TWTA Assembly with integral Linearizer ", Table-10 TWTA Block Up Converter (BUC) 2:1" It is mentioned that the BUC's are 1:1 Block Up Converter Specifications, # Pt – 2 which reads as "Output Frequency : 5.850 -6.450 GHz.	"Power Output at flange (CW): 650W Min	As most of OEM's moved away from 400-watt TWTA pls confirm 1:1 or 2:1 for BUC system	RFP specifications and requirements prevails 2:1 for BUC system
				please clarify that 5.850 to 6.425 GHz would be acceptable for BUC	5.850 – 6.450 GHz band is not standard for BUCs. It starts with 5.850 to 6.425 GHz or 5.850 GHz to 6.650 GHz	BUC Frequency : 5.850 -6.450 GHz is Correct , and 5.85-6.425 GHz is also technically suitable and compliant.

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36	Volume I: 3.18	28	Earnest Money Deposit (EMD)	EMD of Rs.20,00,000(Twenty Lakh rupees only) shall be made through Bank Guarantee in favour of "NewSpace India Limited." It should be as per the format mentioned in Annexure 7.15. No exemption for submitting the EMD will be given to any agency. EMD in any other form will not be entertained.	Are MSMEs exempted from submitting EMD as is allowed by all Govt.Organizations? The Public Procurement Policy for MSMEs Order 2012, and amended Rule 170(i) of General Financial Rule (GFR) 2017 clearly state MSMEs shall be exempted from paying EMD. We request NSIL also to extend this facility to MSMEs and exempt us from submitting EMD.	Tender specific rules for Micro and Small Enterprises (MSEs) are applicable for this tender also.
37	Volume II: 7.2	121	Payment Terms & Schedule	The Second Payment of 75 % of the order value is for deliverables.....Inter facility link (like cable,connectors, switches, patch panels, etc.)	We assume the second payment of 75% of order value for deliverables is on pro-rata basis. Kindly confirm. The payment is usually 30 days for submission of bills. Kindly amend the payment terms to include our request.	Payment terms are not on pro rata basis for deliverables.
38	Volume II:	109	Table 16: Final Acceptance testing	Vendor to support obtain necessary DoT/NOCC/WP C/WMO Clearance of.....establishment & operations.	WPC/WMO clearance is whose responsibility. NOCC & MPVT clearance is required or not? Who will carryout True North marking?	These are statutory regulatory requirements. Coordination, Liasoning, submission of documents and necessary followup with DoT,NOCC and other regulatory authorities will be responsibility of bidder. NSIL will be arranging for the relevant documents and handing over to the bidder.True north marking is responsibility of vendor.
39	Volume II: 2.2	90	Table 3: Technical Specification of Antenna and RF	Travel Range Azimuth:180° continuous	Is it 0 to 180 deg continuous OR any point to any point 180 deg continuous.	180 continuous as mentioned in RFP but should cover indian satellite arc.
40	Volume II: 2.2.2	93	LNA Assembly with Transmit Reject Filter and Test couplers	The LNAs are used in (1:1) redundant mode	Is it 1:1 for each polarization OR 2:1 LNA System. (Page No.88 Block Diagram of 9m Earth Station 2:1 LNA).	2:1 for LNA system
41	Volume II:2.2.4	95	Radar Cut off filter	VSWR (Max.) 1.3:1	VSWR instead of 1.3:1,be relaxed to 1.5:1?	RFP specifications and requirements prevails
42	Volume II: 2.2.7	96	1:1 Block Down Converter (BDC)	The BDCs are used in (1:1) hot redundant mode	Is it 1:1 for each polarization OR 2:1 BDC System. (Page No.88 Block Diagram of 9m Earth Station 2:1 BDC).	2:1 for BDC system
43	Volume II:	127	7.4.2. ANNEXURE-2	Measuring and Test Equipment	Are they to be supplied OR to be provided & taken back?	To be Supplied as per RFP and will be part of deliverables.
44	Volume I:	10	Submission of RFP responses	9-Apr-24	The period of bid submission is very short as we are experiencing delays in responses from foreign OEMs, we request you to kindly extend the bid submission date by 3 weeks i.e. up to 30th April,2024.	Bid submission date will be extended upto 19th April 2024.
45	Pg 120, Pt 3, Pt 6	120	List of Deliverables	General	We are keen to participate in this tender, however on review the specifications we understood that the Baseband System, consisting of Burst Demodulator & Satellite Gateway are manufactured by selective Indian OEMs. Please note that getting quote from OEMs for baseband devices is bit challenging as they themselves are directly participating in this tender. Hence to encourage the active participation of bidders in this tender, we request NSIL to intervene and advise the baseband OEMs to provide quote to other prospective bidders as well. This will lead to more competitive financial acumen for NSIL.	List of OEM of baseband system will be provided. It is highly possible that vendors making antenna may also participate in the bid.Also it is not in policy to intervene with any OEM /Manufacturer during bidding.
46	Volume II: 1. Chapter Clause 1.1	80	1.Chapter 1.1 Network Description 2. Space Segment (SxC & CxS MSS payload; required Bandwidth & Power) will be provided by NSIL/User.	2. Space Segment (SxC & CxS MSS payload; required Bandwidth & Power) will be provided by NSIL/User.	As per our understanding the Space Segment will be provided by NSIL/User, kindly clarify	Yes, Space requirement are not part of bidders scope
47	Volume II:1. Chapter Clause 1.3 (b)	82	1.Chapter 1.3 General guidelines to the Vendor) Provide system engineering calculations along with the proposed hardware to meet the requirement, as projected in this RFP		Kindly elaborate the System Engineering calculations required. In case Link Engineering is required, please share the Satellite Parameters.	system engineering means sizing of TWTA, G/T break up, pointing tracking error breakup, calculation of electrical power and AC requirement etc.Also maintaining the program schedule and spare management is considered as part of system engineering. Same to be elaborated in the proposal.
48	Volume II:1. Chapter Clause 1.4, 1.4.1 (h)	86	1.Chapter 1.4 Operations of 9.0m C Band Hub station 1.4.1 Activities to be carried out by Vendor		There is no clause 5.5.7 in the RFP document. Please provide clause 5.5.7	Please refer clause "g" of the same RFP in heading E. Personnel instead of 5.5.7
49	Volume II:1. Chapter Clause 1.4, 1.4.1 (i)	86	1.Chapter 1.4 Operations of 9.0m C Band Hub station 1.4.1 Activities to be carried out by Vendor		There is no clause 5.5.7 in the RFP document. Please provide clause 5.5.7	Please refer clause "g" of the same RFP in heading E. Personnel instead of 5.5.7
50	Volume II: 2.Chapter 2.2.2.2	93	2.2.2 LNA Assembly with Transmit Reject Filter and Test couplers Low Noise Amplifier (LNA) system will be mounted along with the feed system. The LNAs are used in 1:1) redundant mode; a redundancy controller hardware software is required along with LNAs for smooth changeover of live LNA to hot standby LNA in case of failure		As per the " Volume II: 2.Chapter, 2: Technical Specifications of MSS Hub Equipment (Ground Segment)2.1 Earth Station Configuration and block diagram Brief Description of Earth Station" In receive configuration LNA and block down converters have 2:1 (one active in each polarization with one hot standby which will be shared on failure of any active unit) redundancy similar to transmit section. LNA is required with input/output test coupler & transmit reject Filter. Vendor has to provide provision to connect Radar Cut off Filter (RCF) and 5G filter before LNA, if required. The down converted L band signal is obtained from the output of block down converter, which is given to base band section. The above Technical specification is contradicting with the specification mentioned in clause 2.2.2.Kindly clarify if LNA Assembly required in 1:1 redundancy or 2:1 Redundancy.	2:1 for LNA system
51	Volume II:2.Chapter 2.2.2.7	96	2.2.7 1:1 Block Down Converter (BDC)The BDCs are used in (1:1) hot redundant mode; a redundancy controller hardware software is required along with BDCs for smooth changeover of live BDC to standby BDC in case of failure		As per the "Volume II: 2.Chapter, 2: Technical Specifications of MSS Hub Equipment (Ground Segment)2.1 Earth Station Configuration and block diagram Brief Description of Earth Station" In receive configuration LNA and block down converters have 2:1 (one active in each polarization with one hot standby which will be shared on failure of any active unit) redundancy similar to transmit section. LNA is required with input/output test coupler & transmit reject Filter. Vendor has to provide provision to connect Radar Cut off Filter (RCF) and 5G filter before LNA, if required. The down converted L band signal is obtained from the output of block down converter, which is given to base band section. The above Technical specification is contradicting with the specification mentioned in clause 2.2.2.Kindly clarify if BDC Assembly required in 1:1 redundancy or 2:1 Redundancy.	2:1 for BDC system
52	Volume II:3.Chapter 3.3.1 (1)	100	3.Chapter 3: Baseband Sub-System Requirement & Specifications: Description Specification Frequency Range 950 1750 MHz, s	Frequency Range: 950 1750 MHz, step size 1KHz or better	Most of the TDM Modulator are having Frequency Tuning Step of 1KHz, we request you to change the Frequency Step Size from 100Hz to 1KHz.	RFP specifications and requirements prevails
53	Volume II:4.Chapter 4.4.1 (6)	112	4. Chapter 4: Civil, Electrical & Environmental Infrastructure: 4.1 Brief Particulars of Project & Scope of Civil Work 6) One meeting room with required furniture items.		Please provide the furniture required for the Meeting Room. Do we need to provide any additional items such as projector, display, board., etc., for the meeting room?	furniture for operator room are required.This includes 2 tables 6 chairs from Standard furniture providers
54	Volume II:5.Chapter 5:5.1 (2)	118	Chapter 5: Detailed Scope of Development and Project Execution5.1 Detailed Scope of Work RF and Baseband sub-systemThe vendor shall establish the MSS Hub. This will include all civil engineering work for building the MSS hub room for RF equipment (approx. 5m x		Please provide the Standard or Specifications which needs to be considered for "earthquake resistant".	Earth quake resistant means it is to be designed considering the location of Hyderabad as per Seismic zones of India. All relevant Indian std. codes for Earth Quake resistant to be considered ranging from loading to execution.

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55	Volume II:7.Chapter 7.2.1.2 (A), (3) e)	122	Chapter 7: Bid Submission Guidelines & Project Execution7.2 Payment Terms & ScheduleA. RF and Baseband Equipment3. Support(24X7)e) Support Charges for 24X7 Operations of Hub/ground segment for Three (3) years after commissioning of entire system. Shall be paid on per yearly basis against the satisfactory performance Certificate issued by concerned engineer/ site in-charge after deducting the penalty amount if any.	3. Support(24X7)e) Support Charges for 24X7 Operations of Hub/ground segment for Three (3) years after commissioning of entire system. Shall be paid on Quarterly basis against the satisfactory performance Certificate issued by concerned engineer/ site in-charge after deducting the penalty amount if any.	We request you to change the Payment term to "Quarterly" for Support Charges for 24X7 Operations	Payment Term will be Half yearly for Support Charges for 24X7 Operations
56	Volume II:7.Chapter 7.2.1.2 (C), (h)	122	Chapter 7: Bid Submission Guidelines & Project Execution7.2 Payment Terms & ScheduleC. CAMC (RF and Baseband Equipment) - 2 Yearsh) AMC- 2 years (Mandatory, Separate PO)A Comprehensive AMC for 2 years period for entire system, including Spares for Hardware and updates/upgrades for software shall be placed against the requirement. Shall be paid on half yearly basis on completion of each six-month period, post standard comprehensive on-site warranty of 3 years for a period of 2 years against the satisfactory performance Certificate issued by concerned engineer/ site in-charge after deducting the penalty amount if any.	h) AMC- 2 years (Mandatory, Separate PO)A Comprehensive AMC for 2 years period for entire system, including Spares for Hardware and updates/upgrades for software shall be placed against the requirement. Shall be paid on Quarterly basis on completion of each six-month period, post standard comprehensive on-site warranty of 3 years for a period of 2 years against the satisfactory performance Certificate issued by concerned engineer/ site in-charge after deducting the penalty amount if any.	We request you to change the Payment term to "Quarterly" for CAMC (RF and Baseband Equipment) - 2 Years	It can't be changed , Payment Term will be Half yearly for CAMC (RF and Baseband Equipment) - 2 Years
57	Volume II:7.Chapter 7.2.1.2 (D), (i)	122,123	Chapter 7: Bid Submission Guidelines & Project Execution7.2 Payment Terms & ScheduleD. CAMC (RF and Baseband Equipment) - 5 yearsi) AMC- 5 years (Optional, Separate PO)A Comprehensive AMC for 5 years post completion of standard comprehensive on-site warranty of 3 years and CAMC of 2 years will be placed against requirement. Shall be paid on half yearly basis on completion of each six-month period, against the satisfactory performance certificate issued by concerned engineer/ site in-charge after deducting the penalty amount if any.	D. CAMC (RF and Baseband Equipment) - 5 yearsi) AMC- 5 years (Optional, Separate PO)A Comprehensive AMC for 5 years post completion of standard comprehensive on-site warranty of 3 years and CAMC of 2 years will be placed against requirement. Shall be paid on Quarterly basis on completion of each six-month period, against the satisfactory performance certificate issued by concerned engineer/ site in-charge after deducting the penalty amount if any.	We request you to change the Payment term to "Quarterly" for CAMC (RF and Baseband Equipment) - 2 Years	It can't be changed, Payment Term will be Half yearly for CAMC (RF and Baseband Equipment) - 5 Years
58	Volume II: 2. chapter 2: 2.2 Technical specifications, clause 7	Page 90	Tracking mode:	Manual, Auto step track, Program trackAdapt track/ memory track	Most of the antenna OEM refer program track asadapt track/ memory track. Therefore we request you to amend tracking mode as per belowManual, Auto step track, Program track/adapt track/Memory track.	RFP specifications and requirements prevails
59	Volume II: 2. chapter 2: 2.2 Technical specifications, clause 20	Page 91	Port to Port Isolation	Rx-Tx: 85 dB Tx-Rx: 110 dB	The standard Port to port isolation between Tx and Rx is as below and the same is offered by most of the reputed OEMs. We request you to amend as per below to allow reputed OEMs to offer their productRx-Tx:70dB Tx-Rx:85dB	RFP specifications and requirements prevails
60	Volume II: 2. chapter 2: 2.2 Technical specifications, clause 49	Page 92	Antenna Control Unit (ACU)& Hub Monitoring & control System (HMC)	Cold redundancy	Please clarify if we have to consider only the Indoor antenna controller unit as cold standby OR We have to consider the complete set of ACU system such as Indoor Controller, Outdoor antenna controller, motors of all axis, resolvers/encoders, limit switches of all axis as cold standby.	Complete set of ACU system such as Indoor Controller, Outdoor antenna controller, motors of all axis, resolvers/encoders, limit switches of all axis as cold standby.
61	Volume II: 2. chapter 2: 2.2 Technical specifications		General		Please confirm if we there is requirement of AUPC too in the HUB RF chain as it is not mentioned in the technical specifications	AUPC is not required.
62	Volume II: 2. chapter 2: 2.2 Technical specifications, 2.2.3 Transmit Reject Filter TRF	Page 94	Pass band Frequency GHz Reject band Frequency GHz	3.628-4.2 GHz 5.850-6.467 GHz	TRF is available in different freq ranges such as 3.6-4.2 GHz, 3.7-4.2 GHz and 3.625 -4.2 GHz and have transmit rejection of 5.85 - 6.425 GHz. The pass band freq range required here is 3.628-4.2 GHz and reject band 5.850-6.467 GHz, which are customised band and there will be huge engineering charges for it. Since therequired qty is less, not all EOM will be willing to spent such engineering cost. We request you to amend the specs belowPass band Frequency : 3.625 - 4.2 GHzReject band frequency: 5.850-6.425 GHz	Frequency : 3.625 - 4.2 GHz Reject band frequency: 5.850-6.425 GHz is also acceptable .
63	Volume I Chapter 3 Clause 3.3		Eligibility Criteria		Sir, As per the notification issued by Department of Expenditure, Ministry of Finance, all Central Ministries/ Departments may relax condition of prior turnover and prior experience in public procurement to all Startups (whether MSEs or otherwise). Refer to other tenders of ISRO (MCF or ISTRAC), same practice has been followed. Hence request you to relax the eligibility criteria for MSME bidders.	Micro and Small Enterprises (MSEs) tender specific rules are also applicable for this tender provided bidder submits document such as MSE registration certificate to prove bidder's registration in trade similar to the tendered job.
64	Volume I Chapter 3 Clause 3.8		Earnest Money Deposit (EMD) a. EMD of Rs. 20,00,000 (Twenty Lakh rupees only) shall be made through Bank Guarantee in favour of "NewSpace India Limited." b. No exemption for submitting the EMD will be given to any agency.		Sir, We are a MSME company and it is been noticed that the EMD is exempted for us in all of the tenders as per the notification of Department of Expenditure, Ministry of Finance. Hence, our request is to remove this clause for MSME bidders.	MSEs tender specific rules are also applicable for this tender.

General RFP queries for RFP No: NSIL/RFP/HUB/VCS-MCS/ 2024/02 dated 16 March 2024 for Ground Segment Hub for Maritime Asset Monitoring including Civil,Electrical and Environmental Infrastructure

SN	Vendor Query with Clarification requested	NSIL Clarification/Response
1	Whether bidders can offer multiple makes and models against each BoM line items	Multiple OEM and models are not to be submitted. Only a Single Make and model number is expected for a single product
2	Whether bidders can change the make / models of offered systems after Submission of Bid.	In general the make and model number of the offered system is not to be changed. However only under extreme situations the change of model will be allowed. This has to be duly approved by NSIL and the offered product must be equivalent or better in terms of specification. Also the
3	Whether NSIL can provide preferred vendors for each of RF & baseband item	NSIL Does not have any preferred vendor for any of the subsystem. Bidder is free to choose at its own discretion and convenience but should meet the specifications and conditions laid in this document.
4	What is the make for TDM Modulator & Burst Demodulator acceptable & deployed in ISRO/NSIL?	No specific make . Any make /model which meets the RFP specifications
5	Confirm whether Customs Duty exemption certificate will be issued for importing the equipment from Foreign OEMs.	No , NSIL being commercial organisation under DoS , Custom duty exemption not Applicable.
6	WPC & SACFA is to the account of NSIL and ECIL can follow up the process and payment if any is to be made by NSIL. Application to all these	These are statutory regulatory requirements. Coordination, Liaisoning, submission of documents and necessary followup with DoT,NOCC and other regulatory authorities will be responsibility of bidder. NSIL will be arranging for the relevant documents and handing over to the bidder.
7	TDM Modulator and Bust Demodulator Since these are customized systems under TOT by ISRO, we request the product developed OEM's has to support other bidders in providing the systems.	Noted List of suppliers and options being provided in Response to RFP Queries Part-2.
8	Bid submission extension Since its turnkey solution and we need to get inputs for various systems suppliers and civil details, technical proposal preparation need time , we need at least 1 month extension for submission.	Bid submission date will be extended upto 19th April 2024.
9	Regarding connectivity of outputs of Burst Demodulators. (8 Channels X 80 Burst Demodulators = 640outputs).	80 channels of burst demodulator
10	We would like to do site Survey as discussed in the meeting, consider our request & grant us permission	Yes

Response to RFP Queries_Part-1 RFP No: NSIL/RFP/HUB/VCS-MCS/ 2024/02 dated 16 March 2024 for Ground Segment Hub for Maritime Asset Monitoring including Civil,Electrical and Environmental Infrastructure

SN	RFP Volume & Section	RFP Page No.	Content in the RFP	Proposed content	Clarification for requested change	NSIL Clarification/Response
11			Regarding Earthing related issue, it was discussed in the meeting that 3 Nos (For Antenna, Lightening arrester & subsystems) need to be provided. Kindly give confirmation	4 Nos Earthing required : For Antenna, Lightening -arrester, RF/Signal Earthing, Building Electrical/Signal Earthing		
12			We are working on the requirements of the RFP to provide a competitive offer. However we are still awaiting replies from sub vendors.In light of this, we kindly request an extension of the bid	Bid submission date will be extended upto 19th April 2024.		
13			The antenna Transmit freq range required is 5.85 - 6.425 GHz but the TWTA Freq range required is 5.850-6.450 GHz. We request you to consider the same transmit range of 5.850-6.425 GHz for	Output Frequency : 5.850 -6.450 GHz is Correct , 5.85-6.425 GHz is also technically suitable and compliant.		
14			Request for extension for bid submission till 25th April 24	Bid submission date will be extended upto 19th April 2024.		
15			Customs Duty: It has been noticed that ISRO is exempted from the full customs duty and 5.5% duty is applicable. We are sure that the same clause will be applicable here in this	No , NSIL being commercial organisation under DoS , Custom duty exemption not Applicable.		