

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
VIKRAM SARABHAI SPACE CENTRE (VSSC)
THIRUVANANTHAPURAM**

**Tender for Automation of inventory in bonded stores using RFID
technology (using RFID tags, handheld readers & associated IT
hardware & software)**

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT II (AVN)/VS202100023501 dated 18-06-2021

A. Tender Details

Tender No :	VSSC/PURCHASE UNIT II (AVN)/VS202100023501
Tender Date :	18-06-2021
Tender Classification:	GOODS
Purchase Entity :	PURCHASE UNIT II (AVN)
Centre :	VIKRAM SARABHAI SPACE CENTRE (VSSC)

Automation of inventory in bonded stores using RFID technology (using RFID tags, handheld readers & associated IT hardware & software)

1. Quotation shall be submitted in Two-Part. Part-1: Technical & Commercial, Part-2: Price Bid.
2. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid (Part I) while price shall be indicated only in the Price Bid.(Part II)
- 3.Quotation validity shall be 120 days after opening of Part I and 60 days after opening of Part II.
- 4.Foreign vendors are not permitted to quote
 - I.Only Class -I and Class-II Local suppliers as per make in India policy are eligible to participate in the bid.
 - II. The percentage of local content should be specifically mentioned in the offer, without which will be summarily rejected
 - III. Preference will be given to class-I Local Supplier and in their absence, class-II Local supplier will be considered.
5. Bids shall be opened on the first day specified. In case of any technical snags, will be opened on the subsequent day.

A.1 Tender Schedule

Bid Submission Start Date :	18-06-2021 15:31
Bid Clarification Due Date :	05-08-2021 11:00
Bid Submission Due Date :	10-08-2021 11:00
Bid Opening Date :	12-08-2021 11:00

Price Bid Opening Date :

31-08-2021 11:00

B. Tender Attachments

Technical Write-up/Drawings

[Document : RFP document detailing the requirements of stock automation using RFID](#)

Instructions To Vendors

2. PROFORMA FOR INSTRUCTIONS TO TENDERERS AND TERMS AND CONDITIONS OF TENDER

1. c The term Purchase Order shall mean the communication signed on behalf of the Purchaser by an Officer duly authorised intimating the acceptance on behalf of the Purchaser on the terms and conditions mentioned or referred to in the said communication accepting the tender or offer of the Contractor for supply of stores or plant, machinery or equipment or part thereof.

2. Liquidated Damages

The Delivery Date mentioning in the Contract or Order will be the essence of the Contract. You shall strictly adhere to the delivery schedule mentioned in your quotation. Please confirm acceptance of LD clause and that you will strictly adhere to the delivery schedule.

3. Arbitration

In the event of any disputes, differences or claims arising out of or relating to the interpretation and application of the Contract, such disputes or differences or claims shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such disputes, then the unresolved disputes or differences or claims shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Amendment Act 2015 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre Bengaluru, Domestic and International, as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only. Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision whether final or interim of the Arbitrator is obtained.

4. Force Majeure

Neither the Purchaser nor the Contractor shall be considered default of the performance of their obligations under this contract if such performance is prevented or delayed for any causes beyond the reasonable control of the parties to the contract affected, such as Acts of God, war, riots, civil commotion, illegal strikes, legal lockouts, epidemics, fire accidents, floods, earthquakes, proclamation or regulation or ordinance of any Government thereof, provided notice in writing of any such cause with necessary proof that the obligation under the contract is thereby affected or prevented or delayed, is given within 14 days from the happening of the event. As soon as the cause of force majeure has ceased to exist, the party whose ability to perform his obligation has been affected shall notify the other party of the actual delay that has occurred due to such force majeure conditions.

5. FOREIGN VENDORS ARE NOT PERMITTED TO QUOTE

- a. Only Class I and Class II Local suppliers as per Make in India Policy are eligible to participate in the bid
- b. The percentage of local content should be specifically mentioned in the offer, without which it will be summarily rejected.
- c. Preference will be given to Class I Local supplier and in their absence, Class II Local supplier will be considered.

6. Preference will be given to those tenders offering supplies from ready stocks and on the basis of FOR destination or delivery at site.

7. REJECTED STORES

Rejected stores will remain at destination at the Contractors risk and responsibility. If instructions for their disposal are not received from the Contractor within a period of 14 days from the date of receipt of the advice of rejection, the purchaser or his representative has, at his discretion, the right to scrap or sell or consign the rejected stores to Contractors address at the Contractors entire risk and expense, freight being payable by the Contractor at actuals.

8. The term Stores shall mean what the Contractor agrees to supply under the Contract as specified in the Purchase Order including erection of plants & machinery and subsequent testing, should such a condition is included in the Purchase Order.

9. SECURITY DEPOSIT Wherever, the Purchase Order value is Rs. 5.00 Lakhs or more, on acceptance of the tender, the Contractor shall, at the option of the Purchaser and within the period specified by him, deposit with him, in cash or in any other form as the Purchaser may determine, security deposit not exceeding three percent of the value of the Contract as the Purchaser shall specify. If the Contractor is called upon by the Purchaser to deposit, Security and the Contractor fails to provide the security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the repurchase of the stores Contracted at the risk of the Contractor in terms of Sub-Clause ii and iii of clause regarding Delivery. b hereof and or to recover from the Contractor, damages arising from such cancellation.

10. Sales Tax and or other duties or levies legally leviable and intended to be claimed should be mentioned in the price bid template. If nothing is mentioned, then it will be presumed that the rate quoted is inclusive of all taxes and duties.

11. TERMS AND CONDITIONS OF TENDER

12. TEST CERTIFICATE Wherever required, test certificates should be sent along with the despatch documents.

13. The Purchaser reserves the right to place order on the successful tenderer for additional quantity up to 25percent of the quantity offered by them at the rates quoted.

14. The authority of the person signing the tender, if called for, should be produced.

15. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portions of the quantity offered and the tenderers shall supply the same at the rates quoted.

16. PRICES Tender offering firm prices will be preferred. Where a price variation clause is insisted upon by a tenderer, quotation with a reasonable ceiling should be submitted. Such offers should invariably be supported by the base price taken into account at the time of tendering and also the formula for any such variations.

17. a Your offer should be valid for 90 days from the date of opening of the tender.

b Prices are required to be quoted according to the units indicated in the annexed tender form. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.

18. a All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

b Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

c Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

d Specifications: Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make or Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes

to specifications with appropriate response for the same.

19. The tenderer should supply along with his tender, the name of his bankers as well as the latest Income Tax clearance certificate duly countersigned by the Income Tax Officer of the Circle concerned under the seal of his office, if required by the Purchaser.

20. The term Contractor shall mean, the person, firm or company with whom or with which the order for the supply of Stores is placed and shall be deemed to include the Contractors successors, representative, heirs, executors and administrators unless excluded by the Contract.

21. The term Purchaser shall mean the President of India or his successors or assigns.

22. a All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

b Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of nonacceptance of tender, the tenderer will have to remove the samples at his own expense.

c Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.

d Specifications Stores offered should strictly confirm to our specifications. Deviations, if any, should be clearly indicated by the tenderer in his quotation. The tenderer should also indicate the Make and Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary, along with the quotations. Test Certificates, wherever necessary, should be forwarded along with supplies. Wherever options have been called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us, the tenderer could suggest changes to specifications with appropriate response for the same.

23. ACCEPTANCE OF STORES

a The stores shall be tendered by the Contractor for inspection at such places as may be specified by the purchaser at the Contractors own risk, expense and cost.

b It is expressly agreed that the acceptance of the stores Contracted for, is subject to final approval by the purchaser, whose decision shall be final.

c If, in the opinion of the purchaser, all or any of the stores do not meet the performance or quality requirements specified in the Purchase Order, they may be either rejected or accepted at a price to be fixed by the purchaser and his decision as to rejection and the prices to be fixed shall be final and binding on the Contractor.

d If the whole or any part of the stores supplied are rejected in accordance with Clause No. c above, the purchaser shall be at liberty, with or without notice to the Contractor, to purchase in the open market at the expense of the Contractor stores meeting the necessary performance and quality Contracted for in place of those rejected, provided that either the purchase, or the agreement to purchase, from another supplier is made within six months from the date of rejection of the stores as

aforesaid.

24. As a Government of India Department, this office is exempted from payment of Octroi and similar local levies. Tenderers shall ensure that necessary Exemption Certificates are obtained by them from the Purchase Officer concerned to avoid any payment of such levies.

25. **DESPATCH** The Contractor is responsible for obtaining a clear receipt from the Transport Authorities specifying the goods despatched. The consignment should be despatched with clear Railway Receipt or Lorry Receipt. If sent in any other mode, it shall be at the risk of the Contractor. Purchaser will take no responsibility for short deliveries or wrong supply of goods when the same are booked on said to contain basis. Purchaser shall pay for only such stores as are actually received by them in accordance with the Contract.

26. GUARANTEE AND REPLACEMENT

a The Contractor shall guarantee that the stores supplied shall comply fully with the specifications laid down, for material, workmanship and performance.

b For a period of twelve months after the acceptance of the stores, if any defects are discovered therein or any defects therein found to have developed under proper use, arising from faulty stores design or workmanship, the Contractor shall remedy such defects at his own cost provided he is called upon to do so within a period of 14 months from the date of acceptance thereof by the purchaser who shall state in writing in what respect the stores or any part thereof are faulty.

c If, in the opinion of the purchaser, it becomes necessary to replace or renew any defective stores such replacement or renewal shall be made by the Contractor free of all costs to the purchaser, provided the notice informing the Contractor of the defect is given by the purchaser in this regard within the said period of 14 months from the date of acceptance thereof.

d Should the Contractor fail to rectify the defects, the purchaser shall have the right to reject or repair or replace at the cost of the Contractor the whole or any portion of the defective stores.

e The decision of the Purchaser notwithstanding any prior approval or acceptance or inspection thereof on behalf of the Purchaser, as to whether or not the Stores supplied by the Contractor are defective or any defect has developed within the said period of 12 months or any other period or as to whether the nature of defects requires renewal or replacement, shall be final, conclusive and binding on the Contractor.

f To fulfill guarantee conditions outlined in a to e above, the Contractor shall, at the option of the Purchaser, furnish a Bank Guarantee as prescribed by the Purchaser

27. **PACKING FORWARDING AND INSURANCE** The Contractor will be held responsible for the stores being sufficiently and properly packed for transport by rail, road, sea or air to withstand transit hazards and ensure safe arrival at the destination. The packing and marking of packages shall be done by and at the expense of the Contractor. The purchaser will not pay separately for transit insurance, all risks in transit being exclusively of the Contractor and the Purchaser shall pay only for such stores as are actually received in good condition in accordance with the Contract.

3. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. Any bidder from a country which shares a land border with India will be eligible to bid in this tender, only if the bidder is registered with the Competent Authority. Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2.

Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

3. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

C. Bid Templates

C.1 Technical Bid - Automation of inventory in bonded stores using RFID technology (using RFID tags, handheld readers & associated IT hardware & software)

1. RFID TAG - Mount on metal tag

Item specifications for RFID TAG

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Dimension	maximum - 150 x 23 x 12 mm	Yes / No / Explain		
2	Read range	minimum - 15m	Yes / No / Explain		
3	Operating temperature	-40°C to 85°C	Yes / No / Explain		
4	Applicable surface material	Metal	Yes / No / Explain		
5	Operating frequency	865 to 868 MHz	Yes / No / Explain		
6	Air interface protocol	ISO/IEC 18000-6C; EPC global C1G2 Operating	Yes / No / Explain		
7	Storage temperature	-40°C to 85°C	Yes / No / Explain		
8	Chip type	<ul style="list-style-type: none"> •Alien Higgs 3 EPC class 1 Gen 2 •EPC 96 bit extendable to 480 bits •User memory – 512 bits •Data retention of – 50 years •Write endurance 100000 cycles 	Yes / No / Explain		
9	Customized Printed	VSSC Specic Layout Including Logo, Text, Numbers	Yes / No / Explain		
10	Pre-Encoding	VSSC Specic Encoding of EPC	Yes / No / Explain		
11	Attachment	Adhesive / Magnets	Yes / No / Explain		

2. RFID TAG - Strip tag

Item specifications for RFID TAG

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Dimension	maximum - 65mm x16mm x 6mm	Yes / No / Explain		
2	Read range	minimum - 8m	Yes / No / Explain		
3	Storage temperature	-40°C to +85°C	Yes / No / Explain		
4	Operating temperature	-40°C to +85°C	Yes / No / Explain		
5	Application surface material	ABS Plastic	Yes / No / Explain		
6	Operating frequency	865 – 868MHz	Yes / No / Explain		
7	Air interface protocol	ISO/IEC 18000-6C,EPC Global C1G2 Operating	Yes / No / Explain		
8	Weight	Maximum 6gm ± 2	Yes / No / Explain		
9	Packing	premium plastic packing	Yes / No / Explain		
10	Chip type	•Alien Higgs-3/4 or Monza 4/4QT/5/R6/R6P,UC ODE 7/8 •User memory – 512 bits •IP rating – IP68	Yes / No / Explain		
11	Read Range Fixed Reader	Up to 10m	Yes / No / Explain		
12	Read Range Handheld Reader	Up to 5m	Yes / No / Explain		

3. RFID TAG - Paper label

Item specifications for RFID TAG

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Dimension	maximum - 101 x 152 mm	Yes / No / Explain		
2	Read range	minimum - 4m	Yes / No / Explain		

3	Storage temperature	-20°C to +70°C	Yes / No / Explain		
4	Operating temperature	-20°C to +70°C	Yes / No / Explain		
5	Application software material	Plastic packets	Yes / No / Explain		
6	Operating frequency	865 to 868 MHz	Yes / No / Explain		
7	Air interface protocol	ISO 18000-6B	Yes / No / Explain		
8	Chip type	•EPC 96 bit •User memory	Yes / No / Explain		

4. Handheld Reader RFID

Item specifications for Handheld Reader RFID

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Dimensions	maximum - 164.2 x 80.0 x 24.3mm	Yes / No / Explain		
2	Weight	654g	Yes / No / Explain		
3	Display	Gorilla glass , Multi-touch panel, gloves and wet hand support	Yes / No / Explain		
4	Expansion slot	1 slot for SIM card, 1 slot for SIM or TF card	Yes / No / Explain		
5	Read range	minimum - 20m	Yes / No / Explain		
6	Operating temperature	-20°C to 50°C	Yes / No / Explain		
7	Storage temperature	-40°C to 70°C	Yes / No / Explain		
8	Operating Frequency	865-868MHz	Yes / No / Explain		
9	Protocol	EPC C1 GEN2/ ISO 18000-6C	Yes / No / Explain		
10	Power	Li- ion, rechargeable, 8000mAh Continuous use: over 12 hours Charging time: 3 to 4 hours	Yes / No / Explain		

11	Interfaces	USB 2.0 Type – C, OTG	Yes / No / Explain		
12	Audio	speaker, 2 microphones	Yes / No / Explain		
13	Keypad	4 front keys, 1 power key, 2 scan keys and 1 multifunctional key	Yes / No / Explain		
14	Sensors	Gravity sensor, light sensor, proximity sensor, vibration sensor	Yes / No / Explain		
15	CPU Cortex	A53 Quad-core 1.3GHz	Yes / No / Explain		
16	RAM+ROM	2GB+16GB	Yes / No / Explain		
17	WLAN	IEEE802.11 a/b/g/n,2.4G/5G dual-band, internal antenna	Yes / No / Explain		
18	Camera	13MP Autofocus with flash	Yes / No / Explain		
19	Operating system	Android 6.0	Yes / No / Explain		
20	Wi-Fi	Wi-Fi interface required.	Yes / No / Explain		
21	Antenna	Circular polarization(4dbi)	Yes / No / Explain		
22	Antenna power	minimum 1W	Yes / No / Explain		
23	Drop Specification	Multiple 1.5m/4.9ft drops (at least 20 times)	Yes / No / Explain		
24	GPS	GPS/AGPS	Yes / No / Explain		
25	Language	java	Yes / No / Explain		
26	Warranty of minimum 3 years required	3 years warranty	Yes / No / Explain		

5. Handheld Reader RFID - with barcode reading option

Item specifications for Handheld Reader RFID

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Dimensions	maximum 164.2 x 80.0 x 24.3mm	Yes / No / Explain		
2	Weight	maximum 654g	Yes / No / Explain		
3	Touch Panel	5.2" IPS FHD 1920x1080, Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported	Yes / No / Explain		
4	Power	Li-ion, rechargeable, 8000mAh ,Charging time: 3-4 hours	Yes / No / Explain		
5	Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card	Yes / No / Explain		
6	Interfaces	USB 2.0 Type-C, OTG	Yes / No / Explain		
7	Audio	2 Microphones , Speaker	Yes / No / Explain		
8	Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key	Yes / No / Explain		
9	Sensor	Gravity Sensor, Light Sensor, Proximity Sensor	Yes / No / Explain		
10	Operating Temperature	-20°C to +50°C (- 4°F to 122°F)	Yes / No / Explain		
11	Storage Temperature	-40°C to +70°C (- 40°F to 158°F)	Yes / No / Explain		
12	Drop Specification	Multiple 1.5m/4.9ft drops (at least 20 times)	Yes / No / Explain		
13	GPS	GPS/AGPS	Yes / No / Explain		
14	Operating System	Android 8.0	Yes / No / Explain		
15	Language	Java	Yes / No / Explain		
16	Camera	13MP Autofocus with flash	Yes / No / Explain		
17	CPU Cortex	A53 Quad-core 1.3GHz	Yes / No / Explain		
18	RAM+ROM	2GB+16GB	Yes / No / Explain		
19	Wi-Fi	Wi Fi interface required	Yes / No / Explain		

20	WLAN	IEEE802.11 a/b/g/n,2.4G/5G dual-band, internal antenna	Yes / No / Explain		
21	Antenna	Circular polarization(4dbi)	Yes / No / Explain		
22	Read range	minimum - 20m	Yes / No / Explain		
23	Protocol	EPC C1 GEN2/ ISO 18000-6C	Yes / No / Explain		
24	UHF RFID	Frequency 865MHz-868MHz / 920-925MHz / 902-928MHz Protocol EPC C1 GEN2 / ISO18000-6C Antenna circular polarization (4dBi) Module Impinj Indy R2000 R/W range 10m (circular polarization, open outdoors) reading rate 200 tags (circular polarization)	Yes / No / Explain		
25	Barcode scanning	2D Image Scanner 2D Symbologies	Yes / No / Explain		
26	Warranty of minimum 3 years required	3 years warranty	Yes / No / Explain		

6. RFID Fixed Reader

Item specifications for RFID Fixed Reader

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Dimension	maximum - 1663 x 630 x 46mm	Yes / No / Explain		
2	Operation Temperature	-10°C~55°C	Yes / No / Explain		
3	Protocol	ISO/IEC15693, ISO18000-3	Yes / No / Explain		
4	Operating Frequency	13.56MHz	Yes / No / Explain		

5	Rated power	<25W	Yes / No / Explain		
6	Storage temperature	-20°C~70°C	Yes / No / Explain		
7	Operating voltage	220VAC 50/60Hz	Yes / No / Explain		
8	Warranty minimum 3 years required	3 years warranty	Yes / No / Explain		

7. SERVER for RFID based stock automation

Item specifications for SERVER for RFID based stock automation

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	With specifications which can cater to the stock automation requirements whose details are provided in the RFP document uploaded with the indent.	to cater to the detailed requirement provided in the RFP document uploaded.	Yes / No / Explain		
2	warranty of minimum 3 years required	3 years warranty	Yes / No / Explain		

8. IT INFRASTRUCTURE for RFID based stock automation

Item specifications for IT INFRASTRUCTURE for RFID based stock automation

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	IT infrastructure requirements	Detailed requirements given in Annexure V of the RFP document uploaded.	Yes / No / Explain		

9. APPLICATION SOFTWARE for RFID based stock automation

Item specifications for APPLICATION SOFTWARE for RFID based stock automation

SI No	Specification	Value	Compliance	Offered Specification	Remark
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1	Application software for RFID stock automation	Application software required to be fully developed with detailed requirements provided in Annexure IV of the RFP document uploaded.	Yes / No / Explain		
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10. RFID reader writer (encoder)- for encoding RFID tags

Item specifications for RFID reader writer (encoder)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Dimensions	maximum - 160mm x 110mm x40mm	Yes / No / Explain		
2	Protection grade	IP 40	Yes / No / Explain		
3	Operating Temperature	-25°C ~ + 60°C	Yes / No / Explain		
4	Protocol	ISO18000 - 6B EPC Class 1 Gen 2 (ISO 18000 - 60)	Yes / No / Explain		
5	Work frequency	standard 1SM 865 - 868MHZ	Yes / No / Explain		
6	Power output	0 - 30dBm (adjustable)	Yes / No / Explain		
7	Antenna	build-in 2.5 dBm circular polarized antenna	Yes / No / Explain		
8	Interface	RS232 / RS485	Yes / No / Explain		
9	Read range	0-300mm	Yes / No / Explain		
10	Write range	0-100mm	Yes / No / Explain		
11	Reading clue	buzzer and led	Yes / No / Explain		
12	Reading rate	software programmable	Yes / No / Explain		
13	G.W	maximum 300g	Yes / No / Explain		
14	Storage temperature	-25°C ~ + 80°C	Yes / No / Explain		

15	Warranty of minimum 3 years required	3 years warranty	Yes / No / Explain		
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11. RFID Label printer

Item specifications for RFID Label printer

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Max Print Speed	6IPS @ 300 DPI	Yes / No / Explain		
2	Print Method	Transfer and Direct	Yes / No / Explain		
3	Resolution	300 DPI	Yes / No / Explain		
4	Max. Print Width	4.1" (104mm)	Yes / No / Explain		
5	MEDIA SPECIFICATIONS	Media Type Tags, Paper, Min. Media Width 0.79" (20mm) Max. Media Width 4.4" (112mm) Min. Media Length Continuous 0.25", Tear-Off / Peel-Off 1.0" Max. Media Length Up to 50" Media Thickness 0.00236" (0.06mm) to 0.00784" (0.19mm) Media Roll Core Diameter 1.0" (25.4mm) Max. Media Roll Diameter 1.0" (127mm), 1.5" (37.5mm) Media Sensing Gap, Mark	Yes / No / Explain		
6	PHYSICAL CHARACTERISTICS	Width 8.3" (210mm) Height 7.5"(190mm) Depth 11.2"(285mm) Printer Weight 6.79 lbs.(2.9Kg) Shipping Weight 9.47 lbs.(4.3Kg)	Yes / No / Explain		

7	RFID	Radio UHF EPC Gen2 / ISO18000-6C Antenna Multi- position RF Antenna Inlays On- Pitch label to 0.625 in (depending on inlay) RFID label calibration Languages PGL, ZPL, STGL, MGL Counters Tracks good / overstruck labels	Yes / No / Explain		
8	OPERATING ENVIRONMENT	Operating Temperature 40 to 104°F (5 to 40°C) Operating Humidity 25-85% Non-Condensing Storage Temperature -40 to +60°C)	Yes / No / Explain		
9	Warranty of minimum 3 years required	3 years warranty	Yes / No / Explain		

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Name of the contractor	Full name to be entered	Yes / No / Explain		
2	Geographic location(s) of the contractor	To be provided	Yes / No / Explain		
3	Date of establishment of the company	To be provided	Yes / No / Explain		
4	Annual turnover and profit for the last 5 years	To be provided	Yes / No / Explain		

5	Income Tax statement for the last 5 years	To be provided	Yes / No / Explain		
6	Experience in undertaking RFID implementation activities for Military / High Reliability / Space / Defense applications. Specify projects undertaken and details of specifications achieved.	To be provided	Yes / No / Explain		
7	Experience in undertaking RFID implementation activities for Government of India establishments . Specify projects undertaken.	To be provided	Yes / No / Explain		
8	Proposed manpower allotment and split up for the activities required for this activity.	To be provided	Yes / No / Explain		
9	Details of the work experience of the allotted manpower in RFID implementation activities.	To be provided	Yes / No / Explain		
10	Mention the certification(s), if any, awarded to the contractor regarding the quality of work	To be provided	Yes / No / Explain		
11	Technically suitable lowest offer preferred.	Since it is the implementation of a complete stock automation system, technically suitable lowest offer will be accepted.	Yes / No / Explain		

Supporting Documents required from Vendor

1. Data sheet containing specification of the individual RFID tags, Readers and RFID label printer to be provided.

2. Details of proposed IT infrastructure and application software to be provided.

3. specifications of server to be provided.

4. Detailed Statement of work document to be provided by the party.

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Annual maintenance contract if any to be provided.	Yes / No / Explain	
2	Full system to be implemented and training to be provided for personals for the proper operation of the system.	Yes / No / Explain	
3	After demonstrating proof of concept, the entire system to be implemented in accordance with the overall configuration and detailed requirements given in RFP document uploaded.	Yes / No / Explain	
4	After PO release party should first implement the RFID based stock automation for one cabinet in a storage area as proof of concept. Details are provided in Annexure VI of the RFP document uploaded.	Yes / No / Explain	
5	Taxes and other costs, if any. [Please Specify the rates]. Note: All Tax invoices issued by suppliers/service providers on or after July 01, 2017 shall invariably bear their GST registration number (GSTIN) and the applicable GST rates. In the absence of which, the invoices shall not be processed for payment.	Yes / No / Explain	
6	VSSC is a Public Funded Research Institution under the administrative control of Department of Space and is eligible for partial exemption of IGST @ 5% against IGST EXEMPTION CERTIFICATE.	Yes / No / Explain	
7	Warranty [Minimum three years from the date of Installation required.]	Yes / No / Explain	
8	Payment will be given for proof of concept.	Yes / No / Explain	
9	Delivery Period [Please Specify the period, LD Clause applicable]	Yes / No / Explain	
10	Payment [Within 30 days after receipt and acceptance].	Yes / No / Explain	
11	Quote Validity: Minimum 90 days [for Single Part Tender]/180 days [for Two Part Tender].	Yes / No / Explain	

12	I. Quotation shall be submitted in Two Part. Part-1 : Technical and Commercial Part. Part-2 : Price bid. II. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid (Part-1) while price shall be indicated only in the Price bid (Part-2) III. Quotation validity shall be 120days after opening of Part -1 and 60days after opening of Part -2.	Yes / No / Explain	
13	Delivery Terms [Normal delivery terms - FOR Destination	Yes / No / Explain	
14	Security Deposit: Successful Tenderer shall submit Security Deposit equivalent to 3% of the order value valid for a period of 60 days beyond the date for completion of the Purchase Order shall be furnished. This security deposit is collected towards the performance of the Contract. The said Security Deposit shall be submitted either in the form of Bank Guarantee or Fixed Deposit receipts from Nationalised/Scheduled Banks.	Yes / No / Explain	
15	Please attach the offer in the Pdf format also.	Yes / No / Explain	
16	Any other terms	Yes / No / Explain	
17	Model Certificate for Tenders I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.	Yes / No / Explain	
18	PO Ordering Address, Contact person, Contact Number, E-mail etc.	Yes / No / Explain	
19	Micro/Small Enterprises: In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / UdyogAdhar / NSIC Registration Certification along with your offer. Micro and Small Vendors are not exempted from the submission of Security Deposit	Yes / No / Explain	

20	Foreign vendors are not permitted to quote 1.Only Class -I and Class-II Local suppliers as per make in India policy are eligible to participate in the bid. 2. The percentage of local content should be specifically mentioned in the offer, without which will be summarily rejected 3. Preference will be given to class-I Local Supplier and in their absence, class-II Local supplier will be considered.	Yes / No / Explain	
21	3% Performance Bank Guarantee valid two months beyond warranty period to be provided.	Yes / No / Explain	
22	Liquidated Damages @ 0.5% per week subject to maximum of 10% of order value is applicable beyond the promised delivery schedule.	Yes / No / Explain	
23	If any of the bidders submit any forged or false documents along with the Tender, such tenders will be summarily rejected and such bidders will be blacklisted for all future tenders.	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	RFID TAG	220.00 Nos.		-		
2	RFID TAG	5280.00 Nos.		-		
3	RFID TAG	79200.00 Nos.		-		
4	Handheld Reader RFID	6.00 Nos.		-		
5	Handheld Reader RFID	3.00 Nos.		-		
6	RFID Fixed Reader	6.00 Nos.		-		
7	SERVER for RFID based stock automation	1.00 Nos.		-		
8	IT INFRASTRUCTURE for RFID based stock automation	1.00 Nos.		-		

9	APPLICATION SOFTWARE for RFID based stock automation	1.00 Nos.		-		
10	RFID reader writer (encoder)	2.00 Nos.		-		
11	RFID Label printer	1.00 Nos.		-		

Common charges (Applicable for all items)

Freight charge	
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