

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

Tender for Supply of HASL Machine

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT II (AVN)/VS202100220401 dated 29-09-2021

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT II (AVN)/VS202100220401**

Tender Date : **29-09-2021**

Tender Classification: **GOODS**

Purchase Entity : **PURCHASE UNIT II (AVN)**

Centre : **VIKRAM SARABHAI SPACE CENTRE (VSSC)**

Procurement of Supply of HASL Machine

Procurement of Supply of HASL Machine

A.1 Tender Schedule

Bid Submission Start Date : **30-09-2021 11:15**

Bid Clarification Due Date : **20-10-2021 11:00**

Bid Submission Due Date : **29-10-2021 11:00**

Bid Opening Date : **01-11-2021 11:00**

Price Bid Opening Date : **10-11-2021 14:00**

B. Tender Attachments

Technical Write-up/Drawings

[Document : Technical specifications](#)

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.

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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 - Supply of HASL Machine

1. Supply installation and commissioning of HASL machine

Item specifications for Supply installation and commissioning of HASL machine

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope	Party shall supply Hot Air Solder Levelling (HASL) System with all necessary accessories meeting the specifications as per the tender document at VSSC	Yes / No / Explain		
2	Processing PCB panel length	Up to 650 mm (mandatory)	Yes / No / Explain		
3	Processing PCB panel width	Up to 650 mm (mandatory)	Yes / No / Explain		
4	Processing PCB panel thickness	0.3 to 4 mm or more (mandatory)	Yes / No / Explain		
5	No. of Cycles	100 cycles/hour, or more	Yes / No / Explain		
6	Machine structure	Self-standing structure	Yes / No / Explain		
7	Machine constuction	Stainless steel	Yes / No / Explain		
8	Machine doors	Transparent doors at the load station, which shall get closed prior to dipping cycle	Yes / No / Explain		
9	Fume protection	Shall have complete operator protection from the fumes	Yes / No / Explain		
10	Solder pot / Hot Air Heaters	Shall have suitable strip type heaters around the solder pot to heat the solder up to 300 0C. (mandatory)	Yes / No / Explain		

11	Heating time	System shall suit to heat the solder in pot to 250 0C in less than 2 hrs.	Yes / No / Explain		
12	Heater control	Heater control shall be with solid state technology.	Yes / No / Explain		
13	Accuracy of temperature control	The temperature control system shall have an accuracy of ± 2 0C.	Yes / No / Explain		
14	Solder tank construction	Stainless steel	Yes / No / Explain		
15	Solder tank wall thickness	4 mm (minimum)	Yes / No / Explain		
16	Solder tank temperature capacity	Controllable Solder temperature, up to 300 0C (or better)	Yes / No / Explain		
17	Solder tank capacity	250 kg (minimum)	Yes / No / Explain		
18	Air knife system construction	Construction : Stainless steel	Yes / No / Explain		
19	Air knife system	System shall be quick removable type	Yes / No / Explain		
20	Air knife temperature	Shall have suitable heating system to heat air upto 300 0C (or better) at air knife. Mechanism to be specified. (mandatory)	Yes / No / Explain		
21	Air knife pressure adjustment	Air-knife pressures of front and back side shall be adjustable independently by PLC. Air pressure upto 6 bar (or better).	Yes / No / Explain		
22	Air knife angle	Adjustable Air-knife angles to ± 4 degree or better (mandatory)	Yes / No / Explain		
23	Air knife gap	Adjustable Air-knife gaps, 0.1 to 0.4 mm or better (mandatory)	Yes / No / Explain		
24	Clamp	Suitable clamping mechanism shall be provided for clamping and smooth movement (for dipping and exhausting of the panel into the solder bath) of PCB panel.	Yes / No / Explain		

25	Guide	Suitable guides shall be provided on either side to hold the board steadily during ascend/descend of panels in the solder pot upto 0.3 mm during dipping and exhausting of the panels.	Yes / No / Explain		
26	Adjustable dwell time	Dwell time shall be settable from 0 – 30 seconds (or better)	Yes / No / Explain		
27	Lifting mechanism	The lift system shall consist of linear guide with speed controlled motor	Yes / No / Explain		
28	Time for dipping and lifting	The time for dipping and lifting shall be settable from 2 to 10 seconds	Yes / No / Explain		
29	Control systems	System operations and all adjustable parameters to be controlled with Programmable Logic Controller (PLC) of reputed make (to be specified).	Yes / No / Explain		
30	Control system input	Input interface viz., touch screen, keyboard, display etc.	Yes / No / Explain		
31	Program in control system	Atleast 10 pre-selectable program for solder temperature, dip time, air pressure, air temperature shall be provided	Yes / No / Explain		
32	Depletion valve	Machine shall have valve for complete draining of solder	Yes / No / Explain		
33	Pressure indicators	Pressure gauges / digital indicators shall be provided for air pressure indication with 1 % accuracy	Yes / No / Explain		
34	Solder pump	The pump shall be controlled by frequency controller and shall be easily removed and maintenance free.	Yes / No / Explain		
35	Operation Mode	Automatic and Manual	Yes / No / Explain		

36	Exhaust	Suitable exhaust system (2000 m3 approx.) shall be provided for directing fumes out of the process area.	Yes / No / Explain		
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2. FLUX DISPENSER

Item specifications for FLUX DISPENSER

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Total Machine Structure	Construction : Polypropylene, Stainless steel or better material	Yes / No / Explain		
2	Flux tank capacity	25 litres (minimum)	Yes / No / Explain		
3	Flux tank heater	Teflon immersion heater shall be provided and controlled by PID temperature controller	Yes / No / Explain		
4	Flux tank pump	Suitable pump shall be provided to pump high viscous flux solution	Yes / No / Explain		
5	Flux tank roller	Special spring loaded foam rollers shall distribute flux evenly on the PCB surface and pull flux inside the holes. No scratch marks should be induced on the panel	Yes / No / Explain		
6	PCB panel width	300 mm to 650 mm	Yes / No / Explain		
7	PCB panel thickness	0.3 to 4 mm or more	Yes / No / Explain		
8	System Modules	Input / Fluxer / Output Modules	Yes / No / Explain		
9	Conveyer speed	Speed range : adjustable, 0.5 to 3.0 meter/minute or better	Yes / No / Explain		
10	Conveyer mechanism	mechanism shall ensure precise and smooth transfer of all PCB panels.	Yes / No / Explain		

3. Accessories

Item specifications for Accessories

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Accessories / supporting equipments	Party shall quote for any accessory / supporting equipment for normal usage of equipment at VSSC. This shall include any equipment required for maintenance of the system also.	Yes / No / Explain		
2	Utilities	All utilities like power, pneumatic air line, exhaust duct will be available till the wall of the room. Party shall draw the utilities from the wall to equipment. All such items are at partys scope.	Yes / No / Explain		
3	Safety standards	All utility lines shall be laid as per VSSC safety standards. All items are at partys scope.	Yes / No / Explain		

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of supply	Party shall mention the detailed scope of supply of hardware and software in the quote.	Yes / No / Explain		
2	Software	Party shall provide copies of all software as backup. All software license shall be perpetual and permanently handed over to VSSC	Yes / No / Explain		
3	Optional accessories	Party shall quote for optional accessories with details of functions and features in the quote.	Yes / No / Explain		

4	Service tools	Party shall provide one set of service tools for day to day maintenance of the equipment.	Yes / No / Explain		
5	Authorisation for bidding	Quote shall be from either OEM or Authorised dealer of OEM for India. Dealer shall provide authorisation letter from OEM for bidding this enquiry.	Yes / No / Explain		
6	Delivery	Party shall specify period required for delivery of item from the receipt of PO.	Yes / No / Explain		
7	Delivery - installation & commissioning	Party shall install and commission the line within 4 weeks of site clearance by VSSC	Yes / No / Explain		
8	Authorisation letter	The offer shall be from Original Equipment Manufacturer (OEM) or authorised dealer. In case of authorised dealer, authorisation letter from OEM shall be attached	Yes / No / Explain		
9	Previous supply in India	Vendor has to refer at least one PCB facility where similar/other installation of equivalent or higher capacity (working) has been carried out by the party in India. Order will be placed only after satisfactory evaluation of working of the plant at referred facility.	Yes / No / Explain		
10	Live demo	Live demonstration of working of the equipment in India to be carried out, if desired by VSSC	Yes / No / Explain		
11	Details of PM	Details of agency carrying out preventive maintenance subsequent to installation of the equipment during warranty period shall be provided	Yes / No / Explain		
12	Construction of machine	The construction of machine shall be shock and vibration free	Yes / No / Explain		

13	Enclosure	The entire system shall be dust proof and have rodent proof enclosure	Yes / No / Explain		
14	Additional / supporting equipment	Additional / supporting equipment required for operation at VSSC shall be supplied along with the system. Details of such requirements shall be explicitly provided.	Yes / No / Explain		
15	Safety features	Operator protection features and safety from electrical, thermal shocks, hydraulics, compressed air pressures etc. shall be provided	Yes / No / Explain		
16	Emergency switch	Emergency switches shall be provided at appropriate locations for immediate stoppage of the machine functioning in case of an emergency. Details of provisions shall be provided.	Yes / No / Explain		
17	Safety regulations	Machine shall meet all the international safety regulations in all respects of UL / CE or equivalent. The noise level generated by the equipment shall be within the human safety limits.	Yes / No / Explain		
18	Catalogues	Original catalogues in English detailing specifications and technology and photographs of the systems should be attached along with technical bid	Yes / No / Explain		
19	Application notes	Party shall provide detailed application / feature notes of the proposed equipment, software, work station to understand the minute features of the equipment for technical evaluation	Yes / No / Explain		
20	Remote maintenance	Provision for Remote maintenance (tele-maintenance) shall be provided	Yes / No / Explain		

21	Consumables and spares	Recommended consumables and spares for at least 5-years continuous operation shall be indicated separately with optional quote	Yes / No / Explain		
22	Documents	Two sets of documentation for Electronics schematics Electrical wiring diagrams, Mechanical drawings, PLC ladder diagrams, as applicable, Installation manuals, Operation/User manuals, Maintenance / Service / troubleshooting Manuals to be provided (in English only) along with equipment	Yes / No / Explain		
23	Compliance	Party shall provide detailed technical features of the system for all technical features mentioned in table at sl. no.3. Yes / No / Okay as reply for the table is not acceptable.	Yes / No / Explain		
24	list of deliverables	List of deliverables shall be specified in the bids	Yes / No / Explain		
25	Auxilliary additional systems	Quotation shall include separately auxiliary/additional systems required for operating the system at VSSC. Eg., any isolation transformer / UPS required to power the system.	Yes / No / Explain		
26	Quote matrix	Party shall offer quote as per the matrix provided for the system and optional accessories	Yes / No / Explain		
27	Requirements for System Operation at VSSC	Party shall explicitly specify the requirements (1 to 11) to be made available at VSSC for installation, commissioning and normal working of the machine.	Yes / No / Explain		

28	Requirments 1	Electrical supply (single phase 230 V, 50 Hz or three phase 415 V, 50 Hz) with power & current rating	Yes / No / Explain		
29	Requirments 2	Air supply with pressure, flow rate, moisture content	Yes / No / Explain		
30	Requirments 3	Water supply with temperature and flow rate	Yes / No / Explain		
31	Requirments 4	Clean Room Class	Yes / No / Explain		
32	Requirments 5	Safe Light	Yes / No / Explain		
33	Requirments 6	Operating Temperature	Yes / No / Explain		
34	Requirments 7	Humidity in RH	Yes / No / Explain		
35	Requirments 8	Foot print of the proposed equipment/s, work station and auxiliary systems	Yes / No / Explain		
36	Requirments 9	Electrical earthing	Yes / No / Explain		
37	Requirments 10	Exhaust system	Yes / No / Explain		
38	Requirments 11	Any other requirements other than above	Yes / No / Explain		
39	Maintenance / terms & conditions during AMC period 1	OEM/dealer has to carry out quarterly Preventive Maintenance (PM) at site and attend unlimited breakdown calls during AMC period. After maintenance / rectification, service report and PM report has to be prepared and signed by service engineer and duly countersigned by the engineer-in-charge and competent authority at VSSC. Service report should contain nature of fault, details of work carried out and components/boards and assemblies replaced.	Yes / No / Explain		

40	Maintenance / terms & conditions during AMC period 2	Only OEM personnel or OEM trained personnel shall carry out maintenance and attend breakdown calls	Yes / No / Explain		
41	Maintenance / terms & conditions during AMC period 3	AMC service engineer should attend / rectify the breakdown calls within 48 hours. On completion of job a service report has to be prepared and submitted to the concerned engineer.	Yes / No / Explain		
42	Maintenance / terms & conditions during AMC period 4	AMC charges will be paid once in 3 months at the end of each quarter, subject to satisfactory completion of services and also verification of PM and service report.	Yes / No / Explain		
43	Evaluation of Tenders 1	Technical bid shall be evaluated by VSSC and if necessary, clarification / confirmation for deviations (if any) shall be taken from the eligible bidders to evaluate their bids as per terms and conditions of the tender document to decide the technical suitability. Satisfactory evaluation of the proposed equipment at customers place (in India) will be one of the criterion for technical qualification.	Yes / No / Explain		
44	Evaluation of Tenders 2	Quote separately for non-comprehensive post warranty maintenance for 5 years	Yes / No / Explain		
45	Evaluation of Tenders 3	Party shall quote for both HASL machine and Fluxer system. Offers for individual machines alone will not be considered.	Yes / No / Explain		

46	Evaluation of Tenders 4	Price bids of only the technically suitable offers shall be considered for further evaluation and ranking before awarding the contract.	Yes / No / Explain		
47	Evaluation of Tenders 5	Tenders will be evaluated on the total cost including basic Machine & Fluxer system cost, installation, commissioning, training, two-year warranty and the non-comprehensive annual maintenance service contract charges for a period of 5 years after expiry of warranty period of two years	Yes / No / Explain		
48	Evaluation of Tenders 6	Bidders are not allowed to revise / modify the price bid / quoted prices after tender due date	Yes / No / Explain		
49	Acceptance of the System	VSSC engineers will verify the complete system, which includes the sub-assemblies, safety aspects and quality of the overall system and performance as per specifications after installation. VSSC will carry out tests with various specimens and also as per the test matrix provided by the vendor (if any). Acceptance will be subject to successful testing and approval by the concerned VSSC engineers.	Yes / No / Explain		
50	Quote	This is two-part tender, bidders shall submit Technical bid (Part-1) and Price bid (Part-2) separately. No price element including AMC charges shall be mentioned in the technical bid. Details of price breakup for all the items offered including optional accessories shall be submitted	Yes / No / Explain		

51	Purpose	Hot air solder levelling (HASL) system is intended to be used for coating eutectic solder (Sn/Pb) on to the exposed solderable surface of double sided and multilayer PCBs including high density interconnect (HDI) type. Fluxer system is to be used for fluxing PCBs prior to HASL operation	Yes / No / Explain		
52	Scope	Party shall supply Hot Air Solder Levelling (HASL) & Fluxer System with all necessary accessories meeting the specifications as per the tender document at VSSC	Yes / No / Explain		
53	Compatibility	The system shall have process compatibility to handle glass epoxy (FR4), Glass-polyimide, Rigid-Flex PCBs with thickness ranging from 0.3 mm to 4.0 mm	Yes / No / Explain		
54	Installation & commissioning	Installation, commissioning and training of personnel at VSSC by OEM for operation & maintenance of the complete equipment	Yes / No / Explain		
55	Warranty	Two-year comprehensive warranty for the complete system from the date of commissioning at VSSC	Yes / No / Explain		
56	AMC	Onsite non-comprehensive maintenance contract for 5 years after two-year warranty period	Yes / No / Explain		
57	Safety & security	All electrical and electronic controls shall be enclosed in corrosion & humidity proof housing	Yes / No / Explain		

58	Emergency stop	Provision for stopping of the equipment during operation at emergency shall be provided.	Yes / No / Explain		
59	Alarm	Equipment shall be provided with visible / audible alarm for any malfunctioning with corresponding error message	Yes / No / Explain		
60	Personnel carrying out maintenance during warranty period	Only Engineers from OEM or Authorised dealers OEM trained engineers shall perform periodical / preventive maintenance (PM) during warranty period. Regarding training of dealers personnel, certificate from OEM shall be provided.	Yes / No / Explain		
61	Maintenance during warranty period	PM as per OEM schedule and any number of breakdown calls shall be attended by the party during warranty period without commercial implications. Details of maintenance schedule, operations to be carried out, parts to be replaced, etc shall be detailed in the quote. Detailed service report after every PM and breakdown maintenance shall be generated by the Service Engineer. Satisfactory working of the machine after maintenance shall be demonstrated to the concerned VSSC engineer.	Yes / No / Explain		

62	AMC proposal	Party shall provide detailed quotation for non-comprehensive AMC for 5 years after two-year warranty period. Details of service personal from Indian agent / OEM shall be mentioned in the proposal. Price list of spares also shall be provided with the quote. This is mandatory for considering your quotation for technical evaluation	Yes / No / Explain		
63	Equipment life	Party shall ensure spares and technical service support for the quoted model till December 2030.	Yes / No / Explain		
64	Accessories / consumables	Party shall quote for the equipment with necessary accessories / consumables required for operation at VSSC. All items for commissioning and operation during warranty period shall be supplied by the party.	Yes / No / Explain		

Supporting Documents required from Vendor

1. Authorisation letter from OEM

2. Application notes

3. Technical data sheets

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Party shall impart training for complete operation, maintenance and troubleshooting of the system to three operators at VSSC	Yes / No / Explain	
2	All items shall be warranted for two years from the date of installation at VSSC	Yes / No / Explain	
3	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	
4	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	
5	P & F charges, if any, please mention percentage.	Yes / No / Explain	
6	Installation Charges, if any	Yes / No / Explain	
7	Freight charges, if any. If yes ,please mention the percentage	Yes / No / Explain	
8	PO ordering address in full with Contact Persons Name, E-mail id, Phone No. [also attach your Quotation in PDF format without prices details].	Yes / No / Explain	
9	You should update the address of your Principle/ agent [if applicable] in the new E procurement portal immediately .	Yes / No / Explain	

10	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	
11	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	
12	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	
13	Warranty [Minimum Two years required.]	Yes / No / Explain	
14	Delivery Terms [Normal delivery terms - FOR Destination (for Indigenous cases) & FOB/ FCA or Ex-works (for Import cases).	Yes / No / Explain	
15	Delivery Period [Please Specify the period, LD Clause applicable]	Yes / No / Explain	
16	Payment [Within 30 days after receipt and acceptance for indigenous/ Sight Draft for import cases].	Yes / No / Explain	
17	Quote Validity: Minimum 180 days [for Two Part Tender] from the date of Tender opening.	Yes / No / Explain	
18	3% Performance Bank Guarantee valid two months beyond warranty period to be provided.	Yes / No / Explain	
19	Liquidated Damages @ 0.5% per week subject to maximum of 10% of order value is applicable beyond the promised delivery schedule.	Yes / No / Explain	

20	This tender is proposed as a DOMESTIC PUBLIC TENDER. This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.	Yes / No / Explain	
21	This is a TWO-PART tender i.e. Techno-Commercial Bid (Part-I) and Price Bid (Part-II) shall be submitted separately. All technical and commercial terms and conditions shall be furnished in the Techno-Commercial Bid while price shall be indicated only in the Price Bid. Uploading price details anywhere else other than the price-bid shall lead to unconditional rejection of the tender. Please make note of the same. Tenderers are advised NOT TO UPLOAD any documents revealing the price of the main equipment, accessories, spares or AMC in technical & Commercial bid. They are however, requested to upload UNPRICED BIDS (i.e. Price details masked) showing appropriate breakup of components of main equipment, individual accessories and spares as desired.	Yes / No / Explain	
22	Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India. The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made.	Yes / No / Explain	
23	The vendor have to compulsorily submit the compliance statement online otherwise their offer will not be considered for further evaluation. Before entering the compliance statement, vendors are advised to refer the detailed specification provided.	Yes / No / Explain	

24	The Technical Specification/ Drawing/ Product Catalogues/ Works Carried by vendor/ Make offered etc. as a single PDF file without any financial details has to be uploaded online mode by the vendor.	Yes / No / Explain	
25	In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I / Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content. False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.	Yes / No / Explain	
26	Technical Bids will be opened at the scheduled due date & time. No further intimation will be sent in this regard. The schedule for price bid opening shown is only indicative. Price bids will only be opened in the case of parties who have been techno-commercially accepted, the details of which will be communicated at a later stage.	Yes / No / Explain	
27	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	
28	Any other terms	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Supply installation and commissioning of HASL machine	1.00 Nos.		-		
2	FLUX DISPENSER	1.00 Nos.		-		

3	Accessories	1.00 Nos.		-		
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Common charges (Applicable for all items)

Customs Duty	
IGST	