

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

**Tender for Supply, Installation and Commissioning of Dry Film
Photoresist Developing Machine**

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT II (AVN)/VS202400329101 dated 06-08-2024

A. Tender Details

Tender No : **VSSC/PURCHASE UNIT II (AVN)/VS202400329101**

Tender Date : **06-08-2024**

Tender Classification: **GOODS**

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

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

Supply, Installation and Commissioning of Dry Film Photoresist Developing Machine

Supply, Installation and Commissioning of Dry Film Photoresist Developing Machine

A.1 Tender Schedule

Bid Submission Start Date : **06-08-2024 17:00**

Bid Clarification Due Date : **21-08-2024 11:00**

Bid Submission Due Date : **05-09-2024 10:30**

Bid Opening Date : **05-09-2024 11:00**

Price Bid Opening Date : **12-09-2024 11:00**

B. Tender Attachments

NA

Instructions To Vendors

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

1. 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.
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2. 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.
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3. 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.

4. 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.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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

12. 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.

13. **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.

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

15. **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.

16. 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.

17. 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.

18. 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.

19. TERMS AND CONDITIONS OF TENDER

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

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

22. 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.

23. 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.

24. 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.

25. 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.

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

27. 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.

28. GeM Seller Registration:

All vendors shall register themselves in GeM Portal (gem.gov.in) and provide GeM Seller unique ID in the tender documents.

2. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA - Restrictions under Rule 144 (XI) in GFR, 2017.

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. 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.

3. 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.

C. Bid Templates

C.1 Technical Bid - Supply, Installation and Commissioning of Dry Film Photoresist Developing Machine

1. Dry Film Photoresist Developing Machine

Item specifications for Dry Film Photoresist Developing Machine

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Name of equipment	High Density Interconnect PCB Photo Resist Developer	Yes / No / Explain		
2	Model No.	Vendor to specify	Yes / No / Explain		
3	Make & Country of origin	Vendor to specify	Yes / No / Explain		
4	Conveyor width & Over all dimensions of the equipment	conveyor width: 610 mm (Effective) / 650 mm (maximum) Total width:1400 mm (approx) Height:1500 mm (approx) conveyor Height :950 +/-50 mm	Yes / No / Explain		
5	Conveyor speed & Direction	0.5 to 4.5 m / min, or better & Left to Right	Yes / No / Explain		
6	Board thickness & PCB materials to be handled	0.05 mm to 5.0 mm or better & FR4,PTFE, Flex Rigid	Yes / No / Explain		
7	Minimum & maximum board width Minimum Length	Min width 150 mm or smaller Max width 610 mm or greater Min Length 150 mm or smaller	Yes / No / Explain		
8	Maximum Operating Temperature of Chemical	60 +/- 5 °C in developer chamber	Yes / No / Explain		
9	Maximum Operating Temperature of Drier	80 +/-5 °C in drier	Yes / No / Explain		
10	Tanks & Pumps	Pumps & Tanks on left side of Loading Side	Yes / No / Explain		

11	Power input	415 V / 50 Hz / 3 Phase	Yes / No / Explain		
12	Modules	3 Modules preferred with length not more than 5 meters (mandatory)	Yes / No / Explain		
13	Conveyors specification	Detachable type input conveyor	Yes / No / Explain		
14	Conveyor system motor	AC Drive 1 HP. AC geared motor 1 x 0.5 HP for double conveyor drive shaft.	Yes / No / Explain		
15	Conveyor system shaft materials	Fibre Conveyor Rods and SS316 Rod Main shaft to be provided	Yes / No / Explain		
16	Conveyor system disc specifications	PP Conveyor Discs Ø40 mm (preferred)	Yes / No / Explain		
17	Conveyor system pitch and materials	PE Side Holders at 30 Pitch or better to suit 50 micron thick laminates	Yes / No / Explain		
18	Conveyor system gear materials	PVDF Spur Gears & Bevel Gears.	Yes / No / Explain		
19	Conveyor system rubber roller materials	EPDM Rubber rollers at entry and exit of each chamber for controlling carry over.	Yes / No / Explain		
20	Conveyor system control system & max speed	Digital conveyor speed control. Maximum conveyor speed 4.5 m per minute, or higher	Yes / No / Explain		
21	Top cover of modules	All module except input & output shall be provided with suitable tempered glass cover	Yes / No / Explain		
22	Thin layer handling system	The equipment shall have capability to handle thin layers upto 50 microns thickness of copper clad laminates	Yes / No / Explain		
23	Material of construction of the Developer	PP, PVC, SS316, UHMW, Viton, EPDM ,12 mm Thick PP Grey Main frame 0.15 mm Thick PP Grey Conveyor Guide. All Metal parts shall be SS316.	Yes / No / Explain		

24	Developing chambers	Single Developing Chamber with Spray Oscillation System	Yes / No / Explain		
25	Spray manifolds	1 Top & 1 Bottom Oscillating Spray manifolds in the Developing chamber	Yes / No / Explain		
26	Spray bars	8 Top & 8 Bottom Easy Removable Spray bars in the developing chamber	Yes / No / Explain		
27	Spray bars angle	Spray bars shall be in the direction of conveyor at an angle 15°.	Yes / No / Explain		
28	Spray Nozzle materials & Type	PP Flat Spray Detachable nozzle shall be provided in the Developing Chamber.	Yes / No / Explain		
29	Spray Nozzle per spray bar	Seven Flat Spray Nozzles placed in each of the spray bar for uniform spray in Developing Chamber. Total 56 Nozzles Top + 56 Nozzles bottom spray system.	Yes / No / Explain		
30	Pump construction and rating	3HP x 1 No. Vertical Glandless pump with SS316 main shaft & PP Impeller for each of the developing spray manifold	Yes / No / Explain		
31	No of pumps	Total 3HP x 2 Pumps for the two spray manifold of single developing chamber.	Yes / No / Explain		
32	Foam cutter	Suitable form cutter to be provided for controlling the foam in the chamber	Yes / No / Explain		
33	Spray Pressure indication	Separate analogue spray pressure gauges for individual top and bottom spray bars Total 8 top & 8 bottom analogue type pressure gauges to be provided.	Yes / No / Explain		

34	Spray manifold control valve	One top & one bottom spray manifold Valve control shall be provided with max spray pressure up to 30 PSI	Yes / No / Explain		
35	Developing tank capacity	Sump Capacity – 300 L (approx.)	Yes / No / Explain		
36	Low level float switch	PP Low level float switches (or suitable) in the sump for pump & heater protection	Yes / No / Explain		
37	Developing tank heater specifications & material	4.5 kW x 2 SS316 heaters controlled by Digital temperature control. The system shall heat the developing solution up to 60 °C with +/- 2 °C accuracy	Yes / No / Explain		
38	Developing tank heater control (PID)	Temperature sensor shall be PT100 type, with alarm and shut-off in case of overheating of chemical with PID based Temperature Control	Yes / No / Explain		
39	Bottom filter mechanisms (Inside Developing Chamber)	Removable Mesh Tray below the bottom spray manifold to be provided as additional safety for pump and nozzles.	Yes / No / Explain		
40	Fine line Features developing Capacity	Online bag type filtration housed in PP Jar between pump outlet and before spray system for fine line/fine spacing PCB developing down to 4MIL/4MIL.	Yes / No / Explain		
41	Oscillation motor specifications	0.25 HP x 1 AC geared motor of 30 RPM for each one set of Spray manifold.	Yes / No / Explain		
42	No of oscillation Motors	0.25 HP x 2 AC Geared Oscillation Motors for two spray manifold set	Yes / No / Explain		

43	Cooling coil specifications & Materials	Suitable SS316 Cooling Coil shall be provided in the combined sump with solenoid valve control	Yes / No / Explain		
44	Auto dozing & PH measurement	PH measurement system with Autodosing control of the PH to be provided	Yes / No / Explain		
45	Developing solution mixing tank	A suitable mixing tank with mixer motor and horizontal magnetic pump for transferring the chemical to developer tank to be provided outside	Yes / No / Explain		
46	Rinse module type	3-Stage Cascade Rinse chambers Systems	Yes / No / Explain		
47	Number of rinse chambers	3 Nos	Yes / No / Explain		
48	No of Rinse spray bars in each chamber	2 Top & 2 Bottom Spray bars in each of the cascade rinse chambers	Yes / No / Explain		
49	No of detachable nozzle per spray bar	6 or 7 Flat spray non detachable nozzles in all the water rinse chambers.	Yes / No / Explain		
50	Rinse module pump specifications & Nos	0.5 HP x 1 Vertical Glandless Pump with SS316 shaft & PP Impeller for all the rinse chambers	Yes / No / Explain		
51	Rinse module controls valve and pressure monitoring	Pressure Gauge with Valve Control to be provided	Yes / No / Explain		
52	Rinse chamber Sump Capacity	Each of the sump Capacity – 100 L (approx.)	Yes / No / Explain		
53	Low level Indicator float switch	PP Low level float switches in the sump for pump protection	Yes / No / Explain		
54	Rinse chamber filter mechanisms	Online strainer filter (Y- Trap Strainers) between the pump and spray manifold for pump & nozzle safety	Yes / No / Explain		
55	Rinse water entry & control	Fresh Water top up for the 3rd cascade Water rinse chamber with solenoid valve control & online Flow Meter	Yes / No / Explain		

56	Squeegeeing rollers	2 Top & 2 Bottom PVA Sponge Rollers in Squeegeeing Chamber	Yes / No / Explain		
57	Squeegeeing roller spray bar	1 Top perforated spray bar with manual ball valve adjustment for wetting of squeegee rollers to be provided	Yes / No / Explain		
58	Blowing chamber knives Construction Materials	1 Top & 1 Bottom SS air knives in Turbo Blowing chamber to be provided	Yes / No / Explain		
59	Blowing chamber Blower Rating	3HP Turbo Blower	Yes / No / Explain		
60	Drying Module	Shall consist of Drying with unloading	Yes / No / Explain		
61	Hot Air Drying Knives construction and Numbers	3 Top & 3 Bottom SS air knives in hot air drying chamber	Yes / No / Explain		
62	Hot Air Drying Centrifugal Blower Ratings	3 HP x 1 Centrifugal Blower for Hot Air Drying.	Yes / No / Explain		
63	Hot Air Drying Heater Rating	1.5 kW X 6 SS316 heaters connected to digital temperature controller for hot air drying to be provided	Yes / No / Explain		
64	Hot Air Drying Heater Safety Control	Blind controller shall be provided as safety for drier heater to be provided	Yes / No / Explain		
65	Output/unloading module	Output module shall be SS/PP construction. Disk should be of PP/PHED supported on SS shaft.	Yes / No / Explain		
66	Panel Entry Sensor Specification	Sensor at Loading to be provided for Water/Power Conservation at input entry conveyor	Yes / No / Explain		
67	Panel Entry & Water Control mechanisms	Solenoid Valve for Fresh Water Rinse Control to be provided	Yes / No / Explain		
68	Control Panel Construction (Electrical Relay Logic Controls)	MS Powder Coated Industrial Cabinet Type Control Panel.	Yes / No / Explain		

69	Method of Control the Systems	By electrical Relay Logic Controls with operating hour counter / panel counter	Yes / No / Explain		
70	Electrical Control Systems Standards	CE Certified Switch Gear & Instruments. Safety Features & Alarms shall be provided suitably.	Yes / No / Explain		
71	Control Panel Connecting Cable length	Cable from module to unit 5 m (minimum). MCCB & Emergency stops shall be provided in the panel & Machine.	Yes / No / Explain		
72	Machine Safety Interlocks	Conveyor, Pumps, Heaters, Cooling, Interlocks shall be provided provided in the Panel.	Yes / No / Explain		
73	Alarms Indication	Three Colour Tower light with Alarms	Yes / No / Explain		
74	Emergency Switch	Emergency switch on the machine and control panel	Yes / No / Explain		
75	Safety & Security	All electrical and electronic controls shall be enclosed in corrosion & humidity proof housing	Yes / No / Explain		
76	Floor protection tray	Machine shall be placed on a floor protection tray made of 12 mm thick PP at bottom and 20 mm thick at all four sides upto a height of 50 mm.	Yes / No / Explain		
77	Safety features	Tempered glass with safety switch shall be provided for Developing module, cascade rinse and drier	Yes / No / Explain		
78	Equipment life	Party shall ensure spares and technical service support for the quoted model till December 2035	Yes / No / Explain		

79	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		
80	Optional accessories	Party shall quote for optional accessories with details of functions and features in the quote	Yes / No / Explain		

Document : technical details

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Comprehensive warranty for the machine for 2 years from the date of commissioning at VSSC.	Vendor To be Specify	Yes / No / Explain		
2	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	Vendor To be Specify	Yes / No / Explain		

3	<p>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.</p>	Vendor To be Specify	Yes / No / Explain		
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4	<p>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</p>	Vendor To be Specify	Yes / No / Explain		
5	<p>Party shall mention the detail scope of supply of hardware and software in the quote.</p>	Vendor To be Specify	Yes / No / Explain		
6	<p>Installation and commissioning Shall be carried out by OEM engineers at VSSC</p>	Vendor To be Specify	Yes / No / Explain		
7	<p>Delivery Terms -I :Vendor shall submit the design drawing of the line within two weeks of receipt of confirmed purchase order.</p>	Vendor To be Specify	Yes / No / Explain		

8	Delivery Terms -II :Party shall specify the period required from the date of receipt of PO for delivery of equipment at VSSC	Vendor To be Specify	Yes / No / Explain		
9	Delivey Terms -III :Party shall install and commission the line within 4 weeks of site clearance by VSSC	Vendor To be Specify	Yes / No / Explain		
10	The offer shall be from Original Equipment Manufacturer (OEM) or authorised dealer. In case of authorised dealer, authorisation letter from OEM shall be attached	Vendor To be Specify	Yes / No / Explain		
11	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 parties in India. Order will be placed only after satisfactory evaluation of working of the plant at referred facility.	Vendor To be Specify	Yes / No / Explain		

12	Live demonstration of working of the equipment in India to be carried out, if desired by VSSC	Vendor To be Specify	Yes / No / Explain		
13	Details of agency carrying out preventive maintenance subsequent to installation of the equipment during warranty period shall be provided	Vendor To be Specify	Yes / No / Explain		
14	The construction of machine shall be shock and vibration free	Vendor To be Specify	Yes / No / Explain		
15	The entire system shall be dust proof and have rodent proof enclosure	Vendor To be Specify	Yes / No / Explain		
16	Additional / supporting equipment required for operation at VSSC shall be supplied along with the system. Details of such requirements shall be explicitly provided.	Vendor To be Specify	Yes / No / Explain		
17	Operator protection features and safety from electrical, thermal shocks, hydraulics, compressed air pressures etc. shall be provided	Vendor To be Specify	Yes / No / Explain		

18	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.	Vendor To be Specify	Yes / No / Explain		
19	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	Vendor To be Specify	Yes / No / Explain		
20	Original catalogues in English detailing specifications and technology and photographs of the systems should be attached along with technical bid	Vendor To be Specify	Yes / No / Explain		
21	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	Vendor To be Specify	Yes / No / Explain		

22	Recommended consumables and spares for at least 5-years continuous operation shall be indicated separately with optional quote	Vendor To be Specify	Yes / No / Explain		
23	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	Vendor To be Specify	Yes / No / Explain		
24	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.	Vendor To be Specify	Yes / No / Explain		
25	List of deliverables shall be specified in the bids	Vendor To be Specify	Yes / No / Explain		

26	Quotation shall include separately auxiliary/additional systems required for operating the system at VSSC. Eg., any isolation transformer / UPS required to power the system.	Vendor To be Specify	Yes / No / Explain		
27	Party shall offer quote as per the matrix provided for the system and optional accessories	Vendor To be Specify	Yes / No / Explain		
28	Electrical supply (single phase 230 V, 50 Hz or three phase 415 V, 50 Hz preferred) with power & current rating	Vendor To be Specify	Yes / No / Explain		
29	Air supply with pressure, flow rate, moisture content	Vendor To be Specify	Yes / No / Explain		
30	Water supply with temperature and flow rate	Vendor To be Specify	Yes / No / Explain		
31	Clean Room Class	Vendor To be Specify	Yes / No / Explain		
32	Safe Light	Vendor To be Specify	Yes / No / Explain		
33	Operating Temperature	Vendor To be Specify	Yes / No / Explain		
34	Humidity in RH	Vendor To be Specify	Yes / No / Explain		
35	Foot print of the proposed equipment/s, work station and auxiliary systems	Vendor To be Specify	Yes / No / Explain		
36	Electrical earthing	Vendor To be Specify	Yes / No / Explain		

37	Exhaust system	Vendor To be Specify	Yes / No / Explain		
38	Any other requirements other than above	Vendor To be Specify	Yes / No / Explain		

Supporting Documents required from Vendor

1. Detailed technical bid
2. Spare price list (Price Bid Related)
3. AMC proposal without price details
4. Non-comprehensive AMC quote (Price Bid Related)
5. OEM Authorisation letter
6. Tentative drawing
7. Technical data sheet
8. Company brochure
9. Detailed price breakup (Price Bid Related)

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Party shall despatch the equipment after successful Pre-delivery inspection at partys site only	Yes / No / Explain	
2	The machine shall have minimum two year warranty.	Yes / No / Explain	
3	Party shall install the machine and provide operation & maintenance training at VSSC.	Yes / No / Explain	
4	Warranty	Yes / No / Explain	
5	Training	Yes / No / Explain	
6	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.	Yes / No / Explain	
7	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	

8	The vendor has 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	
9	The Technical Specification/ Drawing/ Product Catalogues/ Works Carried by vendor/ Make offered etc. as a PDF file without any financial details has to be uploaded online mode by the vendor.	Yes / No / Explain	
10	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	
11	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	
12	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	

13	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	
14	Taxes and other costs, if any. VSSC is eligible for concessional rate of tax under Sl.No.243B of Notification No.24/2018 Central Tax (Rate) dated 31.12.2018. & IGST in terms of Notf No.01/2017-IGST dt 28.06.2017 as amended by Notn No.07/2018- IGST dt 25.01.2018 and Notfn No.25/2018-IGST dt 31.12.2018.Applicable Rate is 5%. Necessary IGST/ CGST/ SGST concession certificate shall be issued by us. [Please Specify the rates with HSN Code].	Yes / No / Explain	
15	Delivery Terms [Normal delivery terms - FOR VSSC]	Yes / No / Explain	
16	Delivery Period [Please Specify the period, LD shall be applicable in case of delayed delivery]. Mention the time required for supply and installation wherever applicable.	Yes / No / Explain	
17	Payment [Within 30 days after receipt and acceptance of Item at our Stores].	Yes / No / Explain	
18	Liquidated Damages @ 0.5% per week subject to maximum of 10% of order value is applicable beyond the promised delivery schedule.	Yes / No / Explain	
19	Warranty [Minimum two year required.]	Yes / No / Explain	
20	Performance Bank Guarantee for 3% of order value valid 2 months beyond the Warranty Period to be provided.	Yes / No / Explain	

21	<p>Security Deposit: In case order value exceeds Rs. 5 lakhs 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. 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. No exemption is applicable for MSE vendors from submission of Security Deposit. In case PSU/Autonomous bodies/Central Government organizations, Indemnity Bond shall be accepted. Wherever SD and PBG are involved, the same can be submitted in consolidated SD cum PBG, valid till completion of warranty obligations under the contract. Necessary formats will be issued to the successful tenderer along with Purchase order.</p>	Yes / No / Explain	
22	Country of Origin	Yes / No / Explain	
23	GeM Seller Unique ID	Yes / No / Explain	
24	Quote Validity: Minimum 180 days from the date of Tender opening.	Yes / No / Explain	
25	PO ordering address in full with Contact Persons Name, E-mail id, Phone No. [also attach your Quotation in PDF format].	Yes / No / Explain	
26	Confirm the percentage of local content in the item and attach documentary proof for the same.	Yes / No / Explain	
27	<p>As per the provisions of Office Memorandum No. F. No. 6/18/2019-PPD dtd. 23.07.2020 (i.e., Rule No. 144 (xi) of GFR) and its Amendments, issued by Department of Expenditure, Ministry of Finance. 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.</p>	Yes / No / Explain	

28	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	
29	Any other terms.	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Packing & Forwarding	Freight	Other costs	Remark
1	Dry Film Photoresist Developing Machine	1.00 Nos.		-					

Common charges (Applicable for all items)

AMC Charges for 1st Year after warranty period	
AMC Charges for 2nd Year after warranty period	
AMC Charges for 3rd Year after warranty period	
AMC Charges for 4th Year after warranty period	
AMC Charges for 5th Year after warranty period	
Optional Accessories-Lumpsum	
Optional Spares Cost (lumpsum)	