

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
LIQUID PROPULSION SYSTEMS CENTRE (LPSC-B)
BANGALORE**

**Tender for Supply, Installation and commissioning of High precision
manual tool room lathe**

Bids to be submitted online

**Tender No.: LPSC-B/Liquid Propulsion Systems
Centre,Bengaluru/LB202400033101 dated 06-01-2025**

A. Tender Details

Tender No : **LPSC-B/Liquid Propulsion Systems Centre,Bengaluru/LB202400033101**

Tender Date : **06-01-2025**

Tender Classification: **GOODS**

Purchase Entity : **Liquid Propulsion Systems Centre,Bengaluru**

Centre : **LIQUID PROPULSION SYSTEMS CENTRE (LPSC-B)**

Supply, Installation and commissioning of High precision manual tool room lathe

Supply, Installation and commissioning of High precision manual tool room lathe

A.1 Tender Schedule

Bid Submission Start Date : **06-01-2025 17:30**

Bid Clarification Due Date : **20-01-2025 14:00**

Bid Submission Due Date : **27-01-2025 14:00**

Bid Opening Date : **27-01-2025 14:30**

Price Bid Opening Date : **10-02-2025 15:00**

B. Tender Attachments

Technical Write-up/Drawings

Document : Technical specification

Instructions To Vendors

1. Instructions to Vendors

1. LPSC(B) invites offers through eprocurement portal (<https://eproc.isro.gov.in>) for the supply / service of items as listed in the Tender document.

2. Prospective vendors interested in participating in the tendering process need to get registered in the e-procurement portal by using Digital Signature Certificate. Offers submitted through our online portal only shall be considered and offers received through fax or email or in person shall not be considered.

3. The Tenderers are requested to update their address and contact details, if necessary and submit the Bids online at least two days prior to closing date to avoid last minute system / network related problems. In case of any technical issues, tenderers may write to helpdesk team (eprocure@vssc.gov.in, egps@lpscb.gov.in) for resolution. Request for the extension of the due date for such instances shall not be considered.

4. GST @ 5% is applicable for following goods mentioned under Sl. No. 243B as per Department of Revenue Notification No. 25/2018 - Integrated Tax (Rate) dated 31/12/2018 (Amendment to Notification Nos. 07/2018 dated 25/01/2018 and 01/2017 dated 28/06/2017) and Department of Revenue Notification No. 24/2018 - Central Tax (Rate) dated 31/12/2018 (Amendment to Notification Nos. 06/2018 dated 25/01/2018 and 01/2017 dated 28/06/2017) and Government of Karnataka Notification No. 24/2018 dated 31/12/2018 (Amendment to Notification Nos. 06/2018 dated 25/01/2018 and 01/2017 dated 29/06/2017).

"Scientific and technical instruments, apparatus, equipment, accessories, parts, components, spares, tools, mock ups and modules, raw material and consumables required for Launch Vehicles and Satellites and Payloads"

5. LPSC(B), ISRO is eligible for Customs Duty Concession vide Notification No.12/2012-Customs dated 17/03/2012 and Notification No. 50/2017-Customs dated 30/06/2017. Necessary Customs Duty Concession Certificate shall be provided if applicable.

6. Offer Validity: The offer shall be valid for a period of 90 days (for Single Part Tender) and 120 days (for Two Part Tender) from the date of opening of the tender or any other period as specified in the

Tender document. Offers with lesser validity period than that specified are liable for exclusion from the procurement process.

7. In case of Two Part Tender, Tenderers shall not mention any kind of price element in Techno-Commercial Bid. If any Price element is mentioned in the Techno-Commercial bid, their offer shall be liable for rejection.

8. LPSC(B) reserves the right to accept or reject any quotation in part or in full or part without assigning any reason thereof. LPSC(B) shall be under no obligation to accept the lowest tender and reserves the right to accept whole or any part of the tender or part of the quantity offered and the Tenderers shall supply the same at the rates quoted.

9. Bank Details: Tenderer shall provide their bank details such as IFSC code, IBAN No. , SWIFT etc. along with their offer which shall be not be changed till completion of supply/service.

10. Applicable Law: The Contract shall be governed by Indian Law for the time being in force and jurisdiction shall lie in the Courts of India.

11. Only Class-I and Class-II Local suppliers as per Public Procurement Policy (Preference to Make in India) Order, 2017 are eligible to participate in the bid unless otherwise specified in the Tender document.

12. As far as implementation of Public Procurement Policy (Preference to Make in India) Order, 2017 is concerned, the Office Orders vide No. P-45021/2/2017-B.E-II dated 15/06/2017, which is partially modified by Order No. P-45021/2/2017-PP(BE-II) dated 28/05/2018, Order No. P-45021/2/2017-PP(BE-II) dated 29/05/2019, Order No. P-45021/2/2017-PP (BE-II) dated 04/06/2020 and Order No. P-45021/2/2017-PP (BE-II) dated 16/09/2020 and subsequent Amendments issued by the Department for Promotion of Industries and Internal Trade (DPIIT), Ministry of Commerce and Industry regarding Class-I / Class-II local suppliers, Purchase preference, verification of local contents etc. shall be applicable to this tender unless otherwise specified in the Tender document.

Therefore, bidders may ensure compliance of the same while submitting tenders.

13. Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006 unless otherwise specified in the Tender document. Such MSEs shall produce documentary proof of registration as per provisions of the Policy i.e. registration with District Industries Centre (DIC) or Khadi and Village Industries Commission (KVIC) or Khadi and Industries Board (KVIB) or Coir Board or National Small Industries Commission (NSIC) or Directorate of Handicrafts and Handlooms or Udyog Aadhar Memorandum or any other body specified by Ministry of MSME.

14. 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).

15. Resolution of Disputes: Any dispute, disagreement or question arising out of or relating to or in consequence of the contract or to its fulfillment, or the validity of enforcement thereof which cannot be settled mutually, or the settlement of which is not herein specifically provided for, shall within 30 (thirty) days from the date either party informs the other in writing that such dispute or disagreement exists be referred to arbitration by the sole arbitrator. The Arbitrator shall be appointed as per the Indian Arbitration and Conciliation Act 1996 and proceedings will be conducted in Bangalore. The Arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act 1996 (Act 26 of 1996) as amended from time to time and the decision of the Arbitrator shall be final and binding on the parties thereto. Each party shall bear its own cost of preparing and presenting its case. The cost of Arbitration including the fees and expenses of the Arbitrator shall be shared equally by the parties unless the award provides otherwise. Subject to provisions of this clause, the courts at Bangalore shall have exclusive jurisdiction. Performance under this Contract shall, however continue during Arbitration proceeding and no payment due or payable by the parties hereto shall be withheld unless any such payment is/or forms a part of the subject matter of the Arbitration proceedings.

16. Force Majeure: Neither party shall bear responsibility for the complete or partial non-performance of any of his obligations if the non-performance results from such force majeure circumstances such as, but not restricted to, flood, fire, earthquake, civil commotion, sabotage, explosion, epidemic, quarantine restriction, strike, lock-out, freight embargo, acts of the Government, acts of public enemy and other acts of God as well as war or revolution, military operation, blockade, acts or actions of State authorities or any other circumstance beyond the control of the parties provided the other party is notified in writing within 21 days from the date of commencement of the unforeseeable event.

C. Bid Templates

C.1 Technical Bid - Supply, Installation and commissioning of High precision manual tool room lathe

1. Precision Lathe: Supply, installation, commissioning & training of 2 nos of High precision manual tool room lathes with accessories. The detailed technical specification is enclosed in Annexure-1. The Essential accessories are given below.

Document : Technical specification

2. Precision Lathe: 3 axes Digital Read Out (DRO) for longitudinal travel, cross travel & top slide travel

3. Precision Lathe: Coolant system

4. Precision Lathe: Chips sieve

5. Precision Lathe: Rear sheet metal guard

6. Precision Lathe: Cam lock high precision 3 Jaw scroll chuck of dia 125 mm (nominal) with one set of forward & reverse jaws

7. Precision Lathe: Soft jaws for above high precision 3 Jaw scroll chuck of dia 125 mm

8. Precision Lathe: Cam lock high precision 4 jaw independent chuck of dia 125mm (nominal) with one set of forward & reverse jaws

9. Precision Lathe: Lever operated collet chuck for head stock(W25)

10. Precision Lathe: Draw in collets (dia 0.5 mm to 25.0mm in steps of 0.5 mm) (nominal)

11. Precision Lathe: Quick change tool post MULTIFIX - A

12. Precision Lathe: Foundation & Leveling elements

13. Precision Lathe: Change gears

14. Precision Lathe: Milling attachment with integrated motor along with necessary driving device / plate, pressure regulator, collets (1 to 13mm in steps of 1mm, 1.5mm and 2.5mm), and suitable frequency converter and mounting elements.

15. Precision Lathe: Dividing head / attachment for W25

16. Precision Lathe: Live and dead centers for headstock & tailstock

17. Precision Lathe: Auto transformer with suitable capacity for the machine

18. Precision Lathe: Drill Chuck keyless (1-13mm) (nominal)

19. Precision Lathe: Standard tool holders (Size-12mm x 12mm size)

20. Precision Lathe: Suitable reduction bushes for tailstock Mo.2 / Mo.1

21. Precision Lathe: Machine lamp

22. Precision Lathe: Test mandrel

23. Precision Lathe: Live centers

24. Precision Lathe: Kit of Maintenance consumables

25. Precision Lathe: Technical documentation

26. Precision Lathe: Installation commissioning & Training charges

27. Precision Lathe:Non comprehensive annual maintenance charges for a period of 3 years after expiry of warrantywith GST@18%

28. Precision Lathe: Additional charges if any

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	I Scope	Supply, installation, commissioning & training of 2 nos of High precision tool room lathes with accessories.	Yes / No / Explain		
2	I Machine Description	The intended high precision tool room lathes shall be capable of machining (turning, grooving, thread cutting etc) of parts made of material like, titanium alloys, hardened alloy steels, nickel alloys etc for aerospace applications. The offered machine shall have DRO for 3 axes with features like control panel for spindle speed pre-selection, digital spindle speed indication, spindle start/stop and spindle reverse. The offered machine shall be built with geometrical accuracies confirming to DIN 8605/ISO or equivalent acceptance standards.	Yes / No / Explain		
3	II Technical specification 1.0 Machine Capacity 1.1 Height of center over bed	100 ± 10mm	Yes / No / Explain		
4	1.2 Swing over carriage	110mm ± 10mm	Yes / No / Explain		

5	1.3 Swing over bed	200 mm \pm 20mm	Yes / No / Explain		
6	1.4 Center height over carriage	55mm \pm 5mm	Yes / No / Explain		
7	1.5 Distance between centers	460mm \pm 50mm	Yes / No / Explain		
8	1.6 Type of bed	Hardened and grounded Flat bed	Yes / No / Explain		
9	1.7 Material of bed	Cast Iron	Yes / No / Explain		
10	II Technical specification 2.0 Head stock/Spindle	Headstock main spindle shall have high-accuracy and maintenance free bearings.	Yes / No / Explain		
11	2.1 Type of Drive	AC motor drive with continuously variable speed	Yes / No / Explain		
12	2.2 Spindle Material	Hard and ground alloy steel	Yes / No / Explain		
13	2.3 Spindle nose type	Camlock	Yes / No / Explain		
14	2.4 Spindle through bore	20mm (minimum)	Yes / No / Explain		
15	2.5 Spindle speed range	100-3000 rpm or better	Yes / No / Explain		
16	2.6 Spindle run-out	\leq 0.0005mm	Yes / No / Explain		
17	2.7 Spindle power	4.0 kW (minimum)	Yes / No / Explain		
18	II Technical specification 3.0 Carriage 3.1 Longitudinal travel of carriage on bed(Z-axis)	400mm \pm 10mm	Yes / No / Explain		
19	3.2 Traverse travel of cross slide travel(X-axis)	100 mm \pm 10mm	Yes / No / Explain		
20	3.3 Top slide travel	80 mm (minimum)	Yes / No / Explain		

21	3.4 Hand wheels for manual movement of X-axis and Z-axis shall have graduations in mm..	Essential feature	Yes / No / Explain		
22	II Technical specification: 4.0 Feed & threads: 4.1 Working feed range for longitudinal traverse (Z-axis)	0.02-0.2 mm/rev or better	Yes / No / Explain		
23	4.2 Metric threads pitch range	0.3-3 mm or better	Yes / No / Explain		
24	4.3 Inch threads pitch range	60-8 TPI or better	Yes / No / Explain		
25	4.4 Automatic stop facility (electro-mechanical/electronic drive) during thread cutting operation to control the thread length shall be available.	Essential feature	Yes / No / Explain		
26	II Technical specification: 5.0 Tails Stock: 5.1 Internal taper of sleeve	Morse taper	Yes / No / Explain		
27	5.2 Quill diameter	30 mm (minimum)	Yes / No / Explain		
28	5.3 Quill travel	70 mm (minimum)	Yes / No / Explain		
29	II Technical specification: 6.0 Tooling system:	Multifix type	Yes / No / Explain		
30	6.1 Cross section of the tool shank	12mm X 12mm (nominal)	Yes / No / Explain		

31	II Technical specification: 7.0 Digital read out (DRO): 3 axes Digital read out (DRO) for longitudinal travel , cross travel & top slide travel	Essential feature	Yes / No / Explain		
32	7.1 Resolution of longitudinal travel (Z Axis)	0.001 mm	Yes / No / Explain		
33	7.2 Resolution of cross travel (X Axis)	0.001 mm	Yes / No / Explain		
34	II Technical specification: 8.0 Geometrical Accuracies:	Shall confirm to DIN 8605 / ISO or equivalent standards	Yes / No / Explain		
35	8.1 Flatness of bed lengthwise	0.020 mm / 1000mm or better	Yes / No / Explain		
36	8.2 Run-out at internal taper of the spindle	Less than or equal to 0.0005 mm	Yes / No / Explain		
37	8.3 Parallelism of spindle axis with the bed in horizontal plane	0.005 mm / 200 mm or better	Yes / No / Explain		
38	9.0 Milling attachment with integral motor / motor speed control	Essential feature	Yes / No / Explain		
39	II Technical specification: 10.0 coolant System	Required	Yes / No / Explain		
40	10.1 Coolant tank capacity	Party shall provide details	Yes / No / Explain		
41	10.2 Pump power	Party shall provide details	Yes / No / Explain		
42	II Technical specification: 11.0 Electrical Connections & Supply 11.1 Electrical Connections & Supply	Purchaser will provide electrical power supply with 415V \pm 10%, 50Hz \pm 5%, 3 phase and neutral 4-wire system. Offered machine shall be compatible with this power supply.	Yes / No / Explain		

43	11.2 Electrical Connections & Supply	The electrical insulation shall be fully tropicalized and electric system shall be suitable for operation on the specified supply	Yes / No / Explain		
44	11.3 Electrical Connections & Supply	Electrical control panels shall confirmed to CE or equivalent safety norms	Yes / No / Explain		
45	11.4 Electrical Connections & Supply	Party shall provide total capacity of the machine in kVA rating.	Yes / No / Explain		
46	III Essential accessories:	Party shall provide break up cost for each item in Part-2: Price bid only.	Yes / No / Explain		
47	III:01) 3 axes Digital Read Out (DRO) for longitudinal travel , cross travel & top slide travel	02Set	Yes / No / Explain		
48	III: 02) Coolant system	02 Set	Yes / No / Explain		
49	III: 03) Chips sieve	02 nos	Yes / No / Explain		
50	III: 04) Rear sheet metal guard	02 nos	Yes / No / Explain		
51	III: 05) Cam lock high precision 3 Jaw scroll chuck of dia 125 mm (nominal) with one set of forward & reverse jaws	02 set	Yes / No / Explain		
52	III: 06) Soft jaws for above high precision 3 Jaw scroll chuck of dia 125 mm	20 sets	Yes / No / Explain		

53	III: 07) Cam lock high precision 4 jaw independent chuck of dia 125 mm (nominal) with one set of forward & reverse jaws	02 set	Yes / No / Explain		
54	III: 08) Lever operated collet chuck for head stock (W25)	02 set	Yes / No / Explain		
55	III: 09) Draw in collets (dia 0.5 mm to 25.0mm in steps of 0.5 mm) (nominal)	02 set	Yes / No / Explain		
56	III: 10) Quick change tool post MULTIFIX –A	02 no	Yes / No / Explain		
57	III: 11) Foundation & Leveling elements	02 set	Yes / No / Explain		
58	III: 12) Change gears	02 set	Yes / No / Explain		
59	III: 13) Milling attachment with integrated motor along with necessary driving device / plate, pressure regulator, collets (1 to 13mm in steps of 1mm, 1.5mm and 2.5mm) , and suitable frequency converter and mounting elements.	02 set	Yes / No / Explain		
60	III: 14) Dividing head / attachment for W25	02 no	Yes / No / Explain		
61	III: 15) Centers for headstock & tailstock	02 set	Yes / No / Explain		

62	III: 16) Auto transformer with suitable capacity for the machine	02 nos	Yes / No / Explain		
63	III: 17) Drill Chuck keyless (1- 13mm) (nominal)	08 nos	Yes / No / Explain		
64	III: 18) Standard tool holders (Size-12mm x 12mm size)	10 nos	Yes / No / Explain		
65	III: 19) Suitable reduction bushes for tailstock Mo.2 / Mo.1	02 No	Yes / No / Explain		
66	III: 20) Machine lamp	02 no	Yes / No / Explain		
67	III: 21) Test mandrel	02 No	Yes / No / Explain		
68	III: 22) Live centers	08 Nos	Yes / No / Explain		
69	IV: 1.0) Kit of Maintenance consumables:	Party shall submit offer for one set Kit of Maintenance consumables / per machine which are required for trouble free operation of the machine on two shift basis for a period of two years.	Yes / No / Explain		
70	IV: 2.0) Kit of Maintenance consumables:	Party shall provide detailed list of Maintenance consumables with Qty in Part-1: Technical Bid. Note: Offer indicating cost in Part-1: Technical Bid will be disqualified. Cost break up for each item shall be provided in Part-2: Price Bid only.	Yes / No / Explain		

71	IV: 3.0) Kit of Maintenance consumables:	Party shall ensure the availability of Maintenance consumables for a period of ten years of operation of the machine from the date of commissioning and acceptance.	Yes / No / Explain		
72	V: Technical Documentation:	In case of order, Two sets of following technical documentation in hard copy plus one set soft copy (for each machine) in ENGLISH shall be supplied along with machine.	Yes / No / Explain		
73	V: 1) Technical Documentation	Operator's instruction manual	Yes / No / Explain		
74	V: 2) Technical Documentation	Assembly drawings/foot print and installation instructions (with a check list)	Yes / No / Explain		
75	V: 3) Technical Documentation	Actual machine acceptance test results	Yes / No / Explain		
76	V: 4) Technical Documentation	Preventive maintenance check list, troubleshooting charts and guidelines	Yes / No / Explain		
77	VII: Other terms & conditions 1.0) Heritage of supplier: 1.1) Heritage of supplier:	The bidder/manufacturer/supplier should have manufactured, supplied & commissioned at least 05 numbers of high precision manual tool room lathes with spindle runout of 0.0005 mm or better of same/ similar specifications to any Defence / Government establishments / Public sectors in India. Offers not meeting the above criteria will not be considered	Yes / No / Explain		

78	VII: 1.2)	The Bidder shall provide reference list of organizations (with contact details, year of supply etc.) to whom the above mentioned class of machines have been supplied which are being used in Defence/ Govt. Establishments/ Public sectors in India. Purchaser reserves the right to visit above referred organizations for verification / validation. In case of enquiry by Purchaser about the machine tool supplied with references provided by the bidder is not satisfactory, such offer will be not be considered.	Yes / No / Explain		
79	VII: 1.3)	Party shall provide standard acceptance test chart (geometric accuracy protocol as per DIN 8605 / ISO or equivalent standards) duly filed with actual value for any previously / recently supplied same or similar specification machine confirming to the accuracies given in clause No: 8.0.	Yes / No / Explain		
80	VII: 1.4)	In case of order, all items ordered shall be supplied in one lot without any part / short shipment, before the expiry of delivery period.	Yes / No / Explain		
81	VII: 2.0) Documents to be submitted along with offer: VII 2.1) Documents to be submitted along with offer:	Detailed technical specification of the offered machine, such as description of basic machine, essential accessories, constructional features etc.	Yes / No / Explain		

82	VII 2.2) Documents to be submitted along with offer	Printed catalogue /technical literature / technical write up/ foot print of the offered machine shall be supplied along with the offer. Sketches are not acceptable.	Yes / No / Explain		
83	VII: 2.3) Documents to be submitted along with offer	List of all the standard, essential accessories and kit of maintenance consumables offered. (Quantity & cost break-up for each item shall be provided in Part-2: Price Bid). Note: Offers with Cost element in Part-1: Technical Bid will not be considered.	Yes / No / Explain		
84	VII: 2.4) Documents to be submitted along with offer	Country of origin details.	Yes / No / Explain		
85	VII: 2.5) Documents to be submitted along with offer	Machine Layout drawing of the offered machine model indicating the shop floor space required.	Yes / No / Explain		
86	VII: 2.6) Documents to be submitted along with offer	Un-priced (without price component) copy of Part-2: Price bid.	Yes / No / Explain		
87	VII : 3.0) Pre-delivery inspection & machine acceptance criteria at manufactures site: VII 3.1	LPSC at its discretion may depute engineers for PDI, otherwise actual machine acceptance accuracy test results (geometric accuracy protocol as per DIN 8605/ISO or equivalent standards) shall be submitted to LPSC for according dispatch clearance for the machines after scrutiny and satisfactory acceptance of accuracy test result.	Yes / No / Explain		

88	VII: 3.2) Pre-delivery inspection & machine acceptance criteria at manufactures site:	The manufacturer / supplier shall indicate the purchaser well in advance regarding probable date of readiness of the machine for pre-delivery inspection. After readiness of the ordered machine along with accessories for pre-delivery Inspection, Purchaser's team will visit the manufacturer's site and carryout following inspections.	Yes / No / Explain		
89	VII: 3.3) Pre-delivery inspection & machine acceptance criteria at manufactures site:	Compliance of machine specification as per the ordered technical specification.	Yes / No / Explain		
90	VII: 3.4) Pre-delivery inspection & machine acceptance criteria at manufactures site:	All standard, essential & optional accessories and spares as per the ordered specifications.	Yes / No / Explain		
91	VII: 3.5) Pre-delivery inspection & machine acceptance criteria at manufactures site:	Machine accuracies test results (Positional & Geometric accuracies) of the ordered machine.	Yes / No / Explain		
92	VII: 3.6)Pre-delivery inspection & machine acceptance criteria at manufactures site:	All features of the ordered machine, control system, software & accessories as per the ordered technical specification.	Yes / No / Explain		
93	VII: 3.7) Pre-delivery inspection & machine acceptance criteria at manufactures site:	All the material and tools required to carry out pre-delivery inspection tests at manufacturer's site shall be arranged by the manufacturer / supplier.	Yes / No / Explain		

94	VII: 3.8) Pre-delivery inspection & machine acceptance criteria at manufactures site:	Despatch clearance for the machine will be accorded after satisfactory Pre-Delivery Inspection (PDI) of machine by LPSC Engineers at manufacturer's work place.	Yes / No / Explain		
95	VII: 3.9) Pre-delivery inspection & machine acceptance criteria at manufactures site:	Purchaser will bear to & fro air travel, boarding, lodging and other incidental expenses for Purchaser's representative's visit to Manufacturer's site for PDI.	Yes / No / Explain		
96	VII: 3.10) Pre-delivery inspection & machine acceptance criteria at manufactures site:	In case, LPSC does not depute Engineers to carryout PDI of the machine at Manufacture's site, party shall submit actual machine acceptance accuracy test results (geometric accuracy protocol as per DIN 8605/ISO or equivalent standards) to LPSC to accord dispatch clearance for the machine after scrutiny and satisfactory acceptance of test results confirming to the accuracies given in Clause No: 8.0	Yes / No / Explain		
97	4.0 installation and commissioning of machine at purchasers site; LPSC,Bengaluru, Karnataka, India: VII 4.1	Installation and commissioning of supplied machines is under manufacturer / Supplier's scope.	Yes / No / Explain		
98	VII 4.2	All the equipments such as assembly / integration tools, instruments, test mandrels etc. required for installation & commissioning of the machines is under Supplier's scope.	Yes / No / Explain		

99	VII 4.3	Foundation kit / leveling elements like foundation bolts, nuts, vibro mounts, etc required for machine foundation & leveling shall be supplied by Supplier	Yes / No / Explain		
100	VII 4.4	Commissioning shall be carried out by the trained Manufacturer's / Supplier's / authorized service provider engineers only at Purchaser's site.	Yes / No / Explain		
101	VII 4.5	Earthing requirements, if any, shall be projected to Purchaser well in advance.	Yes / No / Explain		
102	VII 4.6	Metric system of measurement shall be followed in all specifications, drawings, manuals etc.	Yes / No / Explain		
103	5.0 Machine inspection & acceptance tests at purchasers site LPSC, Bengaluru, Karnataka, India VII: 5.1)	Manufacturer / Supplier shall demonstrate /prove all the machine geometrical accuracies as per manufacturer's acceptance plan for acceptance of the machine at Purchaser's site.	Yes / No / Explain		
104	VII: 5.2)	All the tools, instruments, test mandrels, man power etc required to carry out machine accuracy acceptance tests (geometrical accuracies) at Purchaser's site during installation & commissioning shall be arranged by Supplier only	Yes / No / Explain		
105	VII: 5.3)	The final acceptance of the machine shall be after successful installation, commissioning, testing & demonstration and satisfactory acceptance of the machine at Purchaser's site	Yes / No / Explain		

106	VII: 6.0) Training at purchasers site:	Party shall impart training for a period of 2 days to the Purchaser's personnel on operation and maintenance aspects of the machines after successful commissioning at Purchaser's site.	Yes / No / Explain		
107	VII: 7.0) Warranty:	Entire machine inclusive of all systems, essential and optional accessories ordered shall be warranted for a period of 12 months from the date of machine acceptance. During warranty period, manufacturer/ supplier/ authorized service provider shall carryout two preventive maintenance visits at no additional cost. Each visit shall be for a period of ONE working day (minimum).	Yes / No / Explain		

108	VII: 8.0) Non comprehensive annual maintenance contract:	<p>The Party shall compulsorily undertake non-comprehensive AMC for the supplied machines supplied for a period of THREE YEARS after completion of warranty period.</p> <p>The Service shall be carried out by OEM or Authorized & trained service provider for undertaking AMC. Necessary authorization certificate shall be provided along with offer.</p> <p>This is an important criteria and offer not meeting this requirement will not be considered. The Address and contact details of Indian authorized service provider shall be furnished along with the offer.</p> <p>The scope of AMC shall be as per Enclosure-1 attached.</p>	Yes / No / Explain		
109	VII: 9.0) Packing: VII: 9.1)	Packing of machine is under Supplier's scope.	Yes / No / Explain		
110	VII: 9.2)	Road worthy packing with proper markings to prevent damage / loss in transit and to withstand all weather / transit hazards shall be provided.	Yes / No / Explain		
111	VII: 10.0) Delivery terms: VII 10.1)	Free On Road (FOR): LPSC, Bengaluru, Karnataka, India	Yes / No / Explain		
112	VII: 10.2)	In case of order, all items ordered shall be supplied in ONE LOT without any part / short shipment, before the expiry of delivery period.	Yes / No / Explain		
113	VII: 10.3)	Delivery place: LPSC, Bengaluru, Karnataka, India.	Yes / No / Explain		
114	VII: 10.4)	Mode of dispatch	Yes / No / Explain		

115	VII: 10.5)	By road	Yes / No / Explain		
116	VII: 11.0) Delivery Schedule	Delivery schedule shall be within 04 months (nominal) from the date of receipt and acceptance of Purchase Order.	Yes / No / Explain		
117	VII: 12.0) Payment terms:	100% payment shall be made through RTGS within 30 days of receipt, installation, commissioning, training and acceptance of the items at Purchaser's site.	Yes / No / Explain		
118	VII: 13.0) Liquidated damages (LD)	<p>a) Delivery schedule mentioned in the order/contract shall be the essence of the order.</p> <p>b) In case if supplier fail to deliver the item within the time specified or take any extension thereof, LD @ 0.5% (Zero Point Five Percent) of the order value or part thereof of the undelivered item for each completed calendar week of delay shall be recovered from supplier's bill.</p> <p>c) However, total LD shall not exceed 10% (Ten Percent of the Order Value).</p>	Yes / No / Explain		
119	VII: 14.0) Instructions to tenderers VII 14.1	<p>The suppliers shall submit their offers in two parts separately as under:</p> <p>Part-1 : Techno-commercial bid (un-priced)</p> <p>(Price element should not be marked in the Part-1: Technical Bid. If available such offer will not be considered for evaluation)</p> <p>Part-2 : Price bid</p>	Yes / No / Explain		

120	VII: 14.2) PART-1 : TECHNO- COMMERCIAL L BID:	<p>This part should contain:</p> <p>a) Technical details and specifications together with technical catalogues.</p> <p>b) All commercial conditions.</p> <p>c) Deviations, if any, to tender specifications shall be brought out very clearly.</p> <p>d) Unpriced copy of Part-2: Price bid (details without prices).</p> <p>Note :</p> <p>a) Price component shall not be indicated in the Part- 1: Technical bid.</p> <p>b) Techno-commercial bid shall clearly indicate technical details, payment terms, security deposit, performance bank guarantee, liquidated damages, delivery terms, validity of offer, delivery period, AMC details etc.</p> <p>c) Comments like YES, AGREED, WILL BE GIVEN AT THE TIME OF SUPPLY, CONFIRMED, WILL BE COMPLIED etc. are to be avoided where ever numerical values are required to be mentioned.</p>	Yes / No / Explain		
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121	VII: 14.3) Part-2: PRICE BID:	Prices shall be indicated only in Part-2 Price Bid . The price bid shall contain following details: a) Cost for basic machine confirming to technical specification of tender document. b) Break-up cost for essential accessories c) Cost for Kit of maintenance consumables (With itemwise quantity & cost breakup) d) Cost for technical documentation e) Cost for installation, commissioning and training f) Cost for Non-comprehensive Annual Maintenance Contract (AMC) for a period of 3 years after expiry of warranty period	Yes / No / Explain		
122	VII: 15.0) Important instructions VII: 15.1)	Bidder shall furnish details of Supplier's Banker	Yes / No / Explain		
123	VII: 15.2)	The offer shall be valid for a minimum period of 120 days from the tender due date.	Yes / No / Explain		
124	VII: 15.3)	Income tax will be deducted at source, if applicable.	Yes / No / Explain		
125	VII: 16.0) Price comparison:	Price comparison during evaluation of offers will be based on: a)Cost of Basic machine, essential accessories & warranty. b)Installation, commissioning & training charges, packing charges & delivery terms. Note: Cost for optional accessories and maintenance consumables will not be considered for cost comparison.	Yes / No / Explain		

126	Enclosure-1: A: Non-comprehensive annual maintenance contract (AMC) A: 1.0)	The party shall compulsorily undertake non-comprehensive AMC for a period of three (3) years after the expiry of warranty period. The offer shall be in Indian rupees only since the non-comprehensive AMC shall be carried out only by OEM or service provider authorized & trained by OEM. Party shall provide breakup cost for 1st year, 2nd year and 3rd year separately in Part-2: Price bid. The scope shall be one preventive maintenance visits per year and duration shall be of 01 day per visit (minimum). The scope shall also include any number of breakdown visits.	Yes / No / Explain		
127	A: 2.0) Type of contract:	The proposed Annual Maintenance Contract shall be of Non-Comprehensive type	Yes / No / Explain		
128	A: 3.0) Period of contract	The contract shall be valid for a period of 3 years after expiry of standard warranty period. However it shall be open to purchaser to terminate the contract at any time during its currency by giving ONE MONTH notice in writing.	Yes / No / Explain		
129	A: 4.0) Preventive maintenance: a)	a) The authorized & trained Indian service provider shall perform one preventive maintenance visit in one year. Total number of preventive maintenance visits for 3 years shall be 03 visits.	Yes / No / Explain		

130	A: 4.0) Preventive maintenance: b)	The party shall offer lump sum charges for preventive maintenance of the machine, which shall include charges like, local conveyance, service charges, miscellaneous expense & to and fro charges.	Yes / No / Explain		
131	A: 4.0) Preventive maintenance: c)	c) In case the service engineer is from outstation, the party shall offer lump sum charges for preventive maintenance of the machine, which shall include boarding/lodging, conveyance charges, service charges & miscellaneous expenses including conveyance.	Yes / No / Explain		
132	A: 5.0) Breakdown Maintenance	a) The authorized service provider shall attend to any number of breakdown calls per year, immediately within 48 hours of intimation during the contract period. b) The party shall offer lump sum charges on per man day basis towards breakdown maintenance of the machine which shall include charges like, local conveyance, service charges & any other expense including to and fro charges.	Yes / No / Explain		
133	A: 6.0) Payment terms: A: 6.1)	Preventive Maintenance charges shall be paid yearly basis (once every year) on completion of each satisfactory service.	Yes / No / Explain		
134	A: 6.2)	Income Tax, as applicable shall be deducted at source	Yes / No / Explain		

135	A: 7.0)	The Department shall not be responsible for any injury to Contractor/ supplier's personnel, or damage to his equipment caused at Purchaser's site.	Yes / No / Explain		
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Supporting Documents required from Vendor

1. 1) Documents as per the indent requirements

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Goods and Services Tax (GST): Kindly mention percentage of GST considered in your offer along with HSN Code.	Yes / No / Explain	
2	Delivery Terms: FOR LPSC, Bangalore	Yes / No / Explain	
3	Delivery Period: Delivery schedule shall be within 04 months (nominal) from the date of receipt and acceptance of PO.	Yes / No / Explain	
4	Payment Terms: 100% payment shall be made within 30 days of receipt, Installation, commissioning, training and acceptance of the items at our site.	Yes / No / Explain	
5	Liquidated Damages (LD): If the ordered items are not supplied within the delivery schedule, LD shall be levied from your bill @ 0.5% of the order value per week or 0.5% of the value of the stores for which the delivery is delayed for each week of delay subject to a maximum of 5% of the order value. However, in case of inordinate delay in completion period, LD@10% shall be recovered.	Yes / No / Explain	
6	Warranty: The items shall be warranted for a minimum period of 12 months from the date of supply or acceptance of items at our site which ever is later. Necessary warranty certificate shall be furnished along with the supply.	Yes / No / Explain	
7	Performance Bank Guarantee (PBG): You have to submit PBG towards fulfilment of warranty obligations and performance of the system for 3% of the Order Value from a Nationalized / Scheduled Bank on non-judicial stamp paper of appropriate value valid till the completion of warranty period plus 60 days as per the format provided by Department. (OR) 3% of the Order Value shall be withheld till the completion of Warranty period plus 60 days.	Yes / No / Explain	

8	<p>Security Deposit (SD): You have to furnish a Bank Guarantee from a Nationalized / Scheduled Bank on non-judicial stamp paper of appropriate value for 3% of the order value within 10 days of receipt of order towards the faithful execution of the order valid till the completion of the scope of work as per order plus sixty days (as claim period).</p> <p>SD shall only be applicable for order value above INR 5.00 Lakhs. SD shall be returned to you immediately on execution of the order satisfactorily as per order terms. In case of non-performance / poor performance, the amount shall be withheld.</p>	Yes / No / Explain	
9	<p>SD cum PBG: In case, if parties are unable to provide two separate BGs, i.e. one for SD and one for PBG, they can submit a combined BG for SD & PBG within 10 days of receipt of order for 3% of order value valid till the completion of total contractual obligation (i.e. supply period plus warranty period plus 60 days) as per the format provided by the Department.</p>	Yes / No / Explain	
10	<p>Insurance: Being a Government of India Department, Insurance is not required at our cost. Please ensure the safe delivery of the ordered item with proper AIR / SEA / ROAD worthy packing.</p>	Yes / No / Explain	
11	<p>Address, contact details like Telephone Number, e-mail, etc. on which order to be placed.</p>	Yes / No / Explain	
12	<p>Details of Principal: Address, contact details like Telephone Number, e-mail, etc. (if applicable)</p>	Yes / No / Explain	
13	<p>Bank Details: Bank name, Branch address, Account No., IFSC Code, IBAN Number, SWIFT, etc.</p>	Yes / No / Explain	
14	<p>Local Content (%): Please mention the percentage of Local Content and the location where local value addition takes place (Kindly enclose self-certification document)</p>	Yes / No / Explain	
15	<p>MSE Status: Kindly mention the classification under MSE and submit supporting documentation (if applicable)</p>	Yes / No / Explain	
16	<p>Validity of offer: 120 days (for Two Part Tender) from the date of opening of tender or as specified in the Tender Document.</p>	Yes / No / Explain	

17	Non Comprehensive AMC: Non Comprehensive AMC for the entire system for a period of 3 years after the completion of the warranty period as per Clause No. 1 of Enclosure-1, which is mandatory for evaluation of bid.	Yes / No / Explain	
18	Preventive maintenance: Once in One year as per Enclosure, Clause No. 4	Yes / No / Explain	
19	Break down Maintenance: Break down shall be attended immediately within 48 hours.	Yes / No / Explain	
20	Payment terms for AMC: Maintenance charges shall be paid yearly basis (once every year) on completion of each satisfactory service.	Yes / No / Explain	
21	Income Tax, as applicable shall be deducted at source	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	Precision Lathe: Supply, installation, commissioning & training of 2 nos of High precision manual tool room lathes with accessories. The detailed technical specification is enclosed in Annexure-1. The Essential accessories are given below.	2.00 Lot		-		
2	Precision Lathe: 3 axes Digital Read Out (DRO) for longitudinal travel, cross travel & top slide travel	2.00 Sets		-		

3	Precision Lathe: Coolant system	2.00 Sets		-		
4	Precision Lathe: Chips sieve	2.00 Nos.		-		
5	Precision Lathe: Rear sheet metal guard	2.00 Nos.		-		
6	Precision Lathe: Cam lock high precision 3 Jaw scroll chuck of dia 125 mm (nominal) with one set of forward & reverse jaws	2.00 Sets		-		
7	Precision Lathe: Soft jaws for above high precision 3 Jaw scroll chuck of dia 125 mm	20.00 Sets		-		
8	Precision Lathe: Cam lock high precision 4 jaw independent chuck of dia 125mm (nominal) with one set of forward & reverse jaws	2.00 Sets		-		
9	Precision Lathe: Lever operated collet chuck for head stock(W25)	2.00 Sets		-		
10	Precision Lathe: Draw in collets (dia 0.5 mm to 25.0mm in steps of 0.5 mm) (nominal)	2.00 Sets		-		

11	Precision Lathe: Quick change tool post MULTIFIX - A	10.00 Nos.		-		
12	Precision Lathe: Foundation & Leveling elements	2.00 Sets		-		
13	Precision Lathe: Change gears	2.00 Sets		-		
14	Precision Lathe: Milling attachment with integrated motor along with necessary driving device / plate, pressure regulator, collets (1 to 13mm in steps of 1mm, 1.5mm and 2.5mm), and suitable frequency converter and mounting elements.	2.00 Sets		-		
15	Precision Lathe: Dividing head / attachment for W25	2.00 Nos.		-		
16	Precision Lathe: Live and dead centers for headstock & tailstock	2.00 Sets		-		
17	Precision Lathe: Auto transformer with suitable capacity for the machine	2.00 Sets		-		
18	Precision Lathe: Drill Chuck keyless (1-13mm) (nominal)	8.00 Nos.		-		

19	Precision Lathe: Standard tool holders (Size-12mm x 12mm size)	10.00 Nos.		-		
20	Precision Lathe: Suitable reduction bushes for tailstock Mo.2 / Mo.1	2.00 Nos.		-		
21	Precision Lathe: Machine lamp	2.00 Nos.		-		
22	Precision Lathe: Test mandrel	2.00 Nos.		-		
23	Precision Lathe: Live centers	8.00 Nos.		-		
24	Precision Lathe: Kit of Maintenance consumables	2.00 Sets		-		
25	Precision Lathe: Technical documentation	2.00 Sets		-		
26	Precision Lathe: Installation commissioning & Training charges	2.00 Nos.		-		
27	Precision Lathe: Non comprehensive annual maintenance charges for a period of 3 years after expiry of warranty with GST@18%	2.00 Sets		-		
28	Precision Lathe: Additional charges if any	2.00 Nos.		-		

Common charges (Applicable for all items)

P & F Charges	
Freight if any (Value)	
Installation & Configuration	
Other Costs, if any (Value)	
Taxes, if any (Percentage)	