

TATA INSTITUTE OF FUNDAMENTAL RESEARCH HYDERABAD

**Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District.
Hyderabad - 500 107, Telangana, India.**

Telephone: +91-40-2020 3020

Website: www.tifrh.res.in

Email: purchasegroup@tifrh.res.in

Date: 22-04-2022

Notice Inviting Tender cum Tender Document (Two Part Public Tender) for the following items:

**Supply, Installation and Commissioning of 5 Axes Universal Type CNC
Machining Centre Along with Tools and Technology Used in the Development
of Desired Components for TIFR Hyderabad.**

As per technical specifications and drawings in Annexure A: Qty. – 1 No.

Public Tender No.	TIFR/PD/CA22-01/22-23/M/001
Published on	23-04-2022
Tender Fees	Rs. 00 (USD 00)
Earnest Money Deposit	Rs.9,00,000/-
Estimated Cost (Estimated cost upto TIFR, Hyderabad inclusive of all applicable charges)	Rs. 4,50,00,000/-
Last Date for Submission of Bid	18-05-2022 up to 13.00 Hrs.
Date of Opening Bids (Part A)	18-05-2022 at 15.00 Hrs.

Both Technical Bid (Part A) and Financial Bid (Part B) to be submitted within the due date and time in separate envelopes and marked on top as Part A and Part B. These two sealed envelopes should be further put in one Master Envelope super scribed with the Tender No., Due Date in Bold Letters.

The Bids should be addressed to the Administrative Officer, Tata Institute of Fundamental Research, Hyderabad, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad- 500 107, Telangana, India.

TIFR Hyderabad reserves the right to accept/ reject any or all tenders either in part or in full without assigning any reasons there for.

Please see attached sheet for conditions of tender.

Note: All future corrigendum/addendum will be published in CPPP/TIFR Hyderabad website only and no separate advertisement will be released for the same.

All prospective bidders are requested to visit our website regularly for any such updates/Corrigendum.

**ADMINISTRATIVE OFFICER
(PURCHASE SECTION)
TIFR, HYDERABAD**

Annexure – A

Eligibility requirements

- (a) The Bidder should be a manufacturer/authorized representative of a manufacturer who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the “Technical Specification”. Such equipment must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least two year as on date of Bid Opening.

- (b) **Mention the class category as only class 1 and class II manufacturers are allowed to quote**

The Class-I & II local supplier should provide a Self-Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC (minimum local content) in technical bid itself. Confirm attachment of Self declaration along with the offer.

Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content:

- 1) Equal to or more than 50% : Class-I Local supplier.**
- 2) More than 20% but less than 50% : Class-II Local supplier.**
- 3) Less than or equal to 20% : Non - Local supplier.**

Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.

- (c) The machine supplied should be a standard product of OEM and standard catalogue to be provided
- (d) The Bidder should furnish the information on all past supplies in Govt. of India/ DAE/ ISRO/ Defense and satisfactory performance in the pro forma (Performance Statement Form)
- (e) Bidders shall invariably furnish documentary evidence (client's certificate) in support of the satisfactory operation of the equipment.
- (f) Details of Service Centers in India and information on service support facilities that would be provided after the warranty period (in the Service Support Form).
- (g) The bidder should confirm that adequate and specialized expertise is already available or will be made available in India for the execution of the contract in India. The service support should be in such a manner that, it is made available within a period of 2 working days in an event of problem or breakdown of machine.
- (h) The manufacturer shall confirm his capability to support the spares, maintenance calibration and after sales service of the complete system after erection & commissioning, during and after the warranty period, either directly or through authorized service representative positioned in India. The supplier should ensure support for a minimum period of 10 years

Technical Specification for Supply, Installation and Commissioning of 5 Axes Universal Type CNC Machining Centre Along with Tools and Technology Used in The Development of Desired Components as per attached Drawings

1	Main features of the Machine
a	Construction Features
	i) CNC 5 Axis Universal Machining Center with built in rotary & tilting table. Swiveling axis integrated in the machine bed and supported on both sides in the machine base. Capable of 5-Side machining & 5-Axis Simultaneous machining
	ii) Portal/Gantry /design preferably with minimum casted body parts and preferably with precision roller linear motion guides.
	iii) FEM optimized structure made of high quality grey cast iron having homogeneous thermal conductivity OR FEM optimized mineral casting structure. Optimum damping property and high rigidity. Welded construction not allowed.
	iv) Machine top open for loading/unloading by overhead crane.
	v) Spindle mounted on ceramic bearing and lubricated by oil-air lubrication system. Else, the bearing should be Grease packed and sealed for Life Time.
	vi) Chip conveyor with chip evacuation trolley. Type to be specified
	Vii) Foot Print of the machine and all its accessories should not be more than 4.5m x 4.5m
b	Miscellaneous Features
	i) Operating Voltage - 415 V, 3 phase, 50 Hertz A/C, Power rating - 60 KVA (Max)
	ii) Separate Centralized Lubrication equipment, Hydraulic equipment, Cooling System for thermal stability, Machining Coolant System, Electrical System and Numerical Control System – Heidenhain TNC 640
	iii) Specify suitable software/hardware safety features to provide protection to the operator and the machine against all possible operational and machinery failures.
	iv) Inbuilt Volumetric Calibration System in machine to be provided to recognize, measure and restore inaccuracies in the machine such as geometry error, positioning error, angular error and straightness error of the linear axes in case of accidents. The system should contain C Bar with calibration balls on magnetic holder and measuring cycle for detecting the positions at a large number of points in the working area and calculation software to that restore volumetric accuracy.
	v) Complete machine enclosure with suitable guard-doors
	vi) Provision for Rigid Tapping.
	vii) Swing type control unit so that operator can view workspace and control unit in all orientations during work.
	viii) Suitable LED lighting arrangement to illuminate working area with anti-stroboscope lights
	ix) Hand held compressed air gun for quick cleaning of workspace

c	Thermal Stability Features :-
	i) Thermal compensation for machine structure and axes.
	ii) Separate Active cooling system for Main spindle, Ball screw bearings, Linear guideways, feed drives of all axes including A and C axes etc. to ensure maximum thermal stability.
	iii) Electrical control cabinet with built- in air conditioner.
d	Computer Hardware and Connectivity Features:
	i) The machine should have RJ-45 or USB or latest generation connectivity.
	ii) Minimum 130 GB hard disk built-in for storing programs and other machining data.
	iii) Graphic machine diagnosis system for PLCs IP / OP.
	iv) Provision for memory backup in Compact flash card/ USB flash drive
2	<u>Main Technical Specification:</u>
a	Travel/Working Area:
	i) Longitudinal travel – X Axis : 700 - 800 mm.
	ii) Cross travel – Y Axis : 650-700 mm.
	iii) Vertical – Z Axis : 550-600 mm.
b	NC type Rotary Swivel Table
	i) Table Size: \varnothing 650 mm (approx.)
	ii) Loading capacity: 1000kg (or better)
	iii) Table Swivel (A Axis) : ± 115 degree/Swiveling Range: 230 degree (or better)
	iv) A - Axis Swiveling Speed - 20 RPM (or better)
	v) Rotary axis (C Axis) : 360 degree Continuous.
	vi) C Axis Rotary Speed - 50 RPM (or better)
	vii) T Slot : Manufacturer's Standard.
	viii) Torque Swivel Axis (100% Duty Cycle : 5500 Nm or more
	ix) Torque Rotary Axis (100% Duty Cycle : 3500 Nm or more
	x) Holding momentum Swivel Axis (100% Duty Cycle : 5500 Nm or more
	xi) Holding momentum Rotary Axis (100% Duty Cycle : 3500 Nm or more
c	Spindle Specifications
	i) Spindle Power: 25kw @ 100% duty cycle and 35kw @ 40% duty cycle

	Maximum Spindle Speed - 20000 RPM or more
	Torque @ 40% duty cycle - 130Nm (or better)
	Torque @ 100% duty cycle - 85Nm (or better)
	ii) Clamping Taper : HSK-A63.
	iii) Continuous Variable Spindle speed : 50 - 20000 RPM
	iv) Actively Cooled
	v) Bidder to provide Power-Torque diagram and Material Removal Rate (Milling of Steel CK45) along with cutting depth/width, spindle speed, feed and tool details
d	Feed Drive
	i) AC Servo Drive
	ii) Hardened and ground ball screws, THK make or equivalent with accuracy grade C1 or better as per JIS B 1192-1997, in all the three axes. Brand is to be specified.
	iii) Hardened and ground preferably roller type Linear Motion Guideways of Size 45 mm or more in all axes. Brand is to be specified.
	iv) Cutting Feed rate: 0.001 - 40 000 mm/min. (or better)
	v) Rapid feed rate X/Y/Z axes: 40 m/min. (or better)
	vi) Linear Acceleration X/Y/Z axes: 6 m/s ² . (or better)
	vii) Cutting feedrate swivel axis : 7000 degree/min (or better)
	viii) Cutting feedrate rotary axis : 16000 degree/min (or better)
e	CNC System- Apart from standard Heidenhain TNC 640 features the machine should also conform following features :
	i) Number of simultaneously controllable axis: Five + Spindle.
	ii) Machining features:
	a) Fast 3 Axis machining
	b) Machining on 4th axis
	c) Continuous 5-Axis interpolation and spline interpolation.(3 rd Degree)
	iii) Increment input : Min input increment 0.001mm on X, Y & Z axes
	: Min input increment 0.001 degree on A & C axes.
	iv) The control unit should have separate hand held unit with electronic hand wheel for controlling individual axis.
	v) Vendor to provide G-Code Simulation Kit built on the latest NX CAM Version (Post Processor, 3D Model Simulation file, configuration file etc.)
	vi) 21.5" Multi touch / TFT Monitor

f	Measuring System
	i) Linear glass scales for X, Y and Z axes (Heidenhain make or equivalent). Make is to be specified.
	ii) Glass scales/ Direct feedback for both rotary and swivel axes (Heidenhain make or equivalent). Make is to be specified.
g	Coolant Pump
	i) Tank capacity : 500 liters.
	ii) Pressure : 6 Bar.
	iii) Pump discharge : 60-75 liters/min
h	Automatic Tool Changer
	Number of tool pockets : 30 minimum.
	Maximum tool Dia (for occupied adjacent pockets) : 80 mm or more
	Maximum tool Dia (for free adjacent pockets) : 160 mm or more
	Maximum tool weight : 8 kg or more
	Maximum tool Length : 300 mm or more
3	<u>Machine Accuracies:-</u>
	Spindle run-out : Equal or Less than 0.002 mm.
	Positioning accuracy for X/Y/Z axes for entire stroke as per VDI/DGQ 3441 / ISO 230-2: ≤ 0.006 mm
	Positioning Scatter for X,Y & Z axes : 4 microns (or better)
	Positioning accuracy for rotary (C) axis : 6 arc sec (or better)
	Positioning scatter for rotary (C) axis : 4 arc sec (or better)
	Positioning accuracy for swivel (A) axis: 8 arc sec (or better)
	Positioning scatter for swivel (A) axis: 6 arc sec (or better)
	Geometrical tests: As per supplier's test chart (supplier should enclose standard test chart with numerical values and test procedure along with the offer indicating the basic standard adopted for the approval of the purchaser).
	Practical tests: NAS Test for 5 Axes & manufacturer's standard test job for 5-axes machining.
	Accuracy and repeatability test : VDI/DGQ 3441 / ISO 230-2 or equivalent for X, Y and Z axes by LASER interferometer and optical method for rotary axes.

4	<u>Standard accessories</u>
a	Renishaw or Equivalent Touch probe for centering and referencing the work piece, with infrared transmission and integration of probe's coordinates' output with machine's programming software. The probe should be complete with HSK-A63 adapter and standard style.
b	Machine specific machining Simulator for tool path verification
c	Installation accessories like anti vibration pads, hand tools, grease gun etc.
d	Test mandrels for all geometrical tests.
e	All Hand tools and tool box for general operation and servicing of the machine.
f	Electronic hand wheel -1 No.
g	Software package to displays web based the machine live status, allows to analyze the machine run-time, downtime, and alarms in individually configurable dashboards and transparently shows the actual status in the workshop through the subscription to e-mail reports. The Supplied software to be installed on a PC/Server which will be provided by purchaser. The access to the application should be done web based through a web browser
5	The supplier shall furnish the following information along with the quotation
a	Detailed catalogue of the machine and other accessories.
b	Drawings of foundation details, if any. Machine supplier may quote for civil work optionally.
c	Geometrical alignment and practical test chart for the machine offered indicating the guaranteed accuracies.
d	The overall size and weight of the machine
e	Supplier should provide complete PLC listing in English along with comments (Hardcopy + Soft copy).
f	Service manuals and complete electrical diagrams should be provided.
g	Supplier should indicate distinct milestones for stage inspection and final inspection of the machine.
6	Onsite Training
	The supplier shall arrange the CNC-programming & operation training of four persons and the maintenance (mechanical and electronics) training of three persons in TIFR for a period of minimum ten working days during and after the installation and commissioning of the machine
7	Pre-Dispatch Inspection & Testing at Manufacturer's works:
a	Geometrical Accuracies: Machine will be inspected and tested for geometrical accuracies at manufacturer's works and witnessed by our representatives (1/2 persons) as per standard test chart issued by the supplier.
b	Positioning Accuracy and repeatability test: Positioning accuracy and repeatability will be tested as per ISO 230-2 / VDI DGQ 3441 or equivalent by LASER interferometer method and witnessed by our representatives. Supplier has to arrange for necessary equipment.

c	Practical Test :
	i) Machining of 2 NAS test Pieces as per submitted drawing using Supplier's material and tool. First test piece as per NAS test chart for selection and proving of tooling and cutting parameters.
	ii) Machining of second test piece as per NAS test chart to prove the accuracy and repeatability using supplier's material.
d	The purchaser shall bear the cost of travel, lodging and boarding of purchaser's personnel
8	Erection & Commissioning
	For erection & commissioning all the support will be arranged by the purchaser. Only supervisory consultancy shall be provided by the supplier.
9	Final acceptance at purchaser's works after commissioning
a	Geometrical Accuracies: Machine will be inspected and tested in the presence of supplier's representative for geometrical accuracies as standard test chart issued by the supplier.
b	Positioning Accuracy and repeatability test: Positioning accuracy and repeatability will be tested in the presence of supplier's representative as per ISO 230-2 / VDI DGQ 3441 or equivalent by LASER interferometer method.
c	Practical Test: Machining of two test pieces as per NAS test chart and manufacturer's standard test specimen to prove the accuracy and repeatability.
10	Warranty:
a	Standard 24 months from date of commissioning of the machine at purchaser's works.
11	Annual Maintenance Contract:
a	AMC charges beyond standard warranty period up to 4th year from the date of commissioning of the machine to be quoted separately
12	General Terms and Conditions
a	As per Tender Document
	Technical Specifications of the Tools and Technology used in the Development of the Desired Components as per Attached Drawings
1	Details of the components
a	Type - 2 different types
b	Quantity - 1 each shall be the party of supply

c	Material - Aluminum Alloy 6061 T6
2	2D Drawings and 3D Models of the components
a	Final 2D Drawings and 3D Models of the 2 components/parts will be supplied by TIFR at the time of Prove Out
3	Material of the components
a	Material of the above mentioned components to be supplied by the bidder during trails and prove out
4	Prove out of the components and maximum number of settings
a	Prove out of the 2 components to done in maximum 4 settings during the commissioning of the machine
5	NC Programs, Jigs and Fixtures
a	NC Programs, Jigs and Fixtures used in the development of the components shall be the part of supply
6	Inspection of the Components
a	Components should conform to the dimensional and form accuracies as per 2D drawings of the Components. CMM inspection of the components will be done at TIFR Mumbai (preferable) or at mutually agreed 3rd party site.

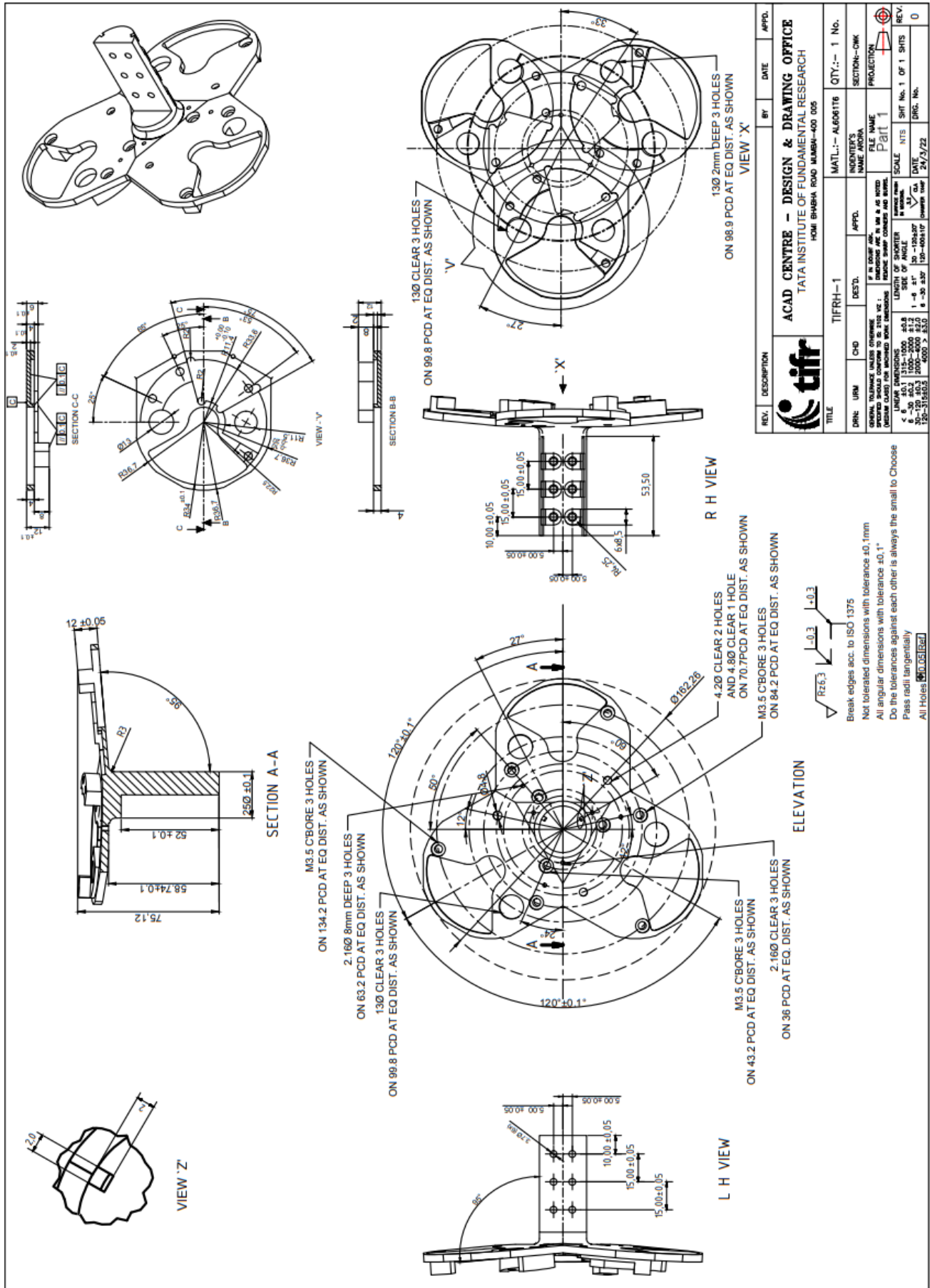
NOTE

- The Technical Bid should include specific answers strictly with respect to our above mentioned Technical Specifications. Deviations if any should be highlighted with clarifications. Otherwise, the Bid will not be taken into consideration.
- The supplier should furnish the quantitative values with respect to specified values in the Technical specification of the quote clearly instead of just mentioning “ Complied “ , “ Agreed” or “ Confirmed “ etc. otherwise the Tender Quote is liable to be rejected

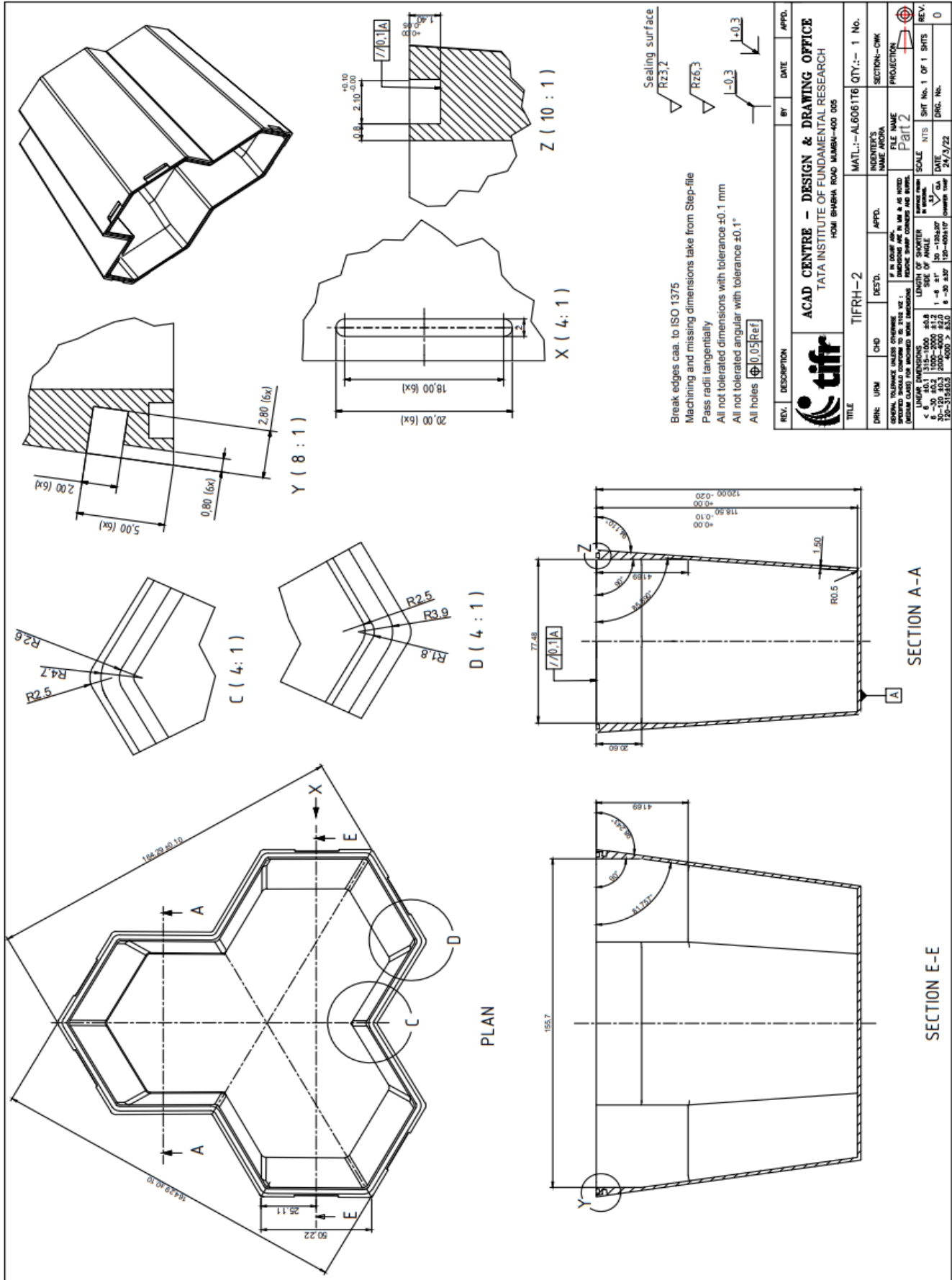
Sample Format

Sr. No	Tender Specification	Bidder's (Name) Reply	Remarks/ Deviations if any
2	<u>Main Technical Specification:</u>		
a	Travel/Working Area:		
	i) Longitudinal travel – X Axis : 700 - 800 mm.	780mm	
	ii) Cross travel – Y Axis : 650-700 mm.	700mm	

Drawing Part-1



Drawing Part-2



NOTE:

*** The bidder should ensure to submit the following along with Technical Bid (Part I)**

1. The bidder should attach the point-by-point technical specification provided in Annexure-A of the tender document (with additional remarks if any) along with the Technical Bid.
2. Bid Security / EMD (Earnest Money Deposit) as per tender.
3. Certificate of Local Content- Attachment of Annexure - B.
4. Audited Annual Turnover Certified by CA - Attachment of Annexure - C
5. Supplier Purchase Order details with copy document along with the bid Attachment of Annexure - D.
6. The suppliers/bidders should submit all the applicable list of documents/enclosures/annexures as mentioned in the tender along with the local content certificate filled form as per annexure – B. The supplier should provide the local content details / local value addition details with the applicable value. TIFR Hyderabad reserves the right to reject any tender (or) all tenders if not submitted along with the documents/enclosures/annexures/certificate of local content.
7. Undertaking by the bidder as per Clause 14 of tender terms and conditions in letter head duly signed and stamped.
8. Undertaking for unconditional acceptance of tenders all terms and condition in letter head duly signed and stamped.

*** Price Bid/Finance Bid (Part II) - As per Annexure – E & F.**

TATA INSTITUTE OF FUNDAMENTAL RESEARCH HYDERABAD

**Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District.
Hyderabad - 500 107, Telangana, India.**

(PURCHASE SECTION)

1. **PART "A" (Technical Bid) consisting of Technical Bid with Commercial Terms and PART "B" (Financial Bid) consisting of only Price** shall be submitted in **separate** sealed envelopes duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Administrative Officer, Tata Institute of Fundamental Research, Hyderabad, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. The envelopes should be clearly marked on top as either PART "A" or PART "B".

The two sealed covers should be further put in a master cover superscribed with the Tender Enquiry No., Due Date in bold letters, addressed to the Purchase Officer, Tata Institute of Fundamental Research, Hyderabad, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. The sealed master envelop has to be delivered by hand/courier at the security Gate Office of TIFR Hyderabad on or before 13.00 hrs. on the due date specified. The technical bid will be opened at 15.00 hrs. on the due date at Purchase Section, TIFR, Hyderabad. Tenders submitted after 13.00 hrs. on due date will not be considered.

2. **In case the PART "A" and Part "B" bids are not sealed in separate envelopes the tender will be rejected.**
3. The technical bid should not contain any indication of the price. The bidder should take special care not to mention anything related to pricing and costing aspect of whatsoever nature. The technical bid should include/contain only technical specifications, technical literature, drawing, quantity, manufacturing and delivery schedule, mode and terms of payment, mode of dispatch, the quantum and percentage of statutory levies payable by the purchaser as extra and all related commercial terms and conditions for the supply and for the services like erection and commissioning to be rendered by the tenderer. The details of the validity of the tender should also be indicated along with the commercial details.
4. After scrutiny of Technical Bids, Financial bids of only those bidders who are shortlisted on technical basis will be opened at on later date. The opening date, time and venue will be intimated to the technically successful bidder.
5. **All the bidders/contractors should provide Company Authorization Letter duly signed and stamped by Competent Authority to participate in the tender related meetings at TIFR Hyderabad.**
6. **Tender Fee:**

Tender fee of Rs. 00 (USD 00)

7. **Bid Security / EMD (Earnest Money Deposit):**

Earnest Money Deposit (EMD) for Rs. **9,00,000.00/-** in the form of D.D. in favour of "Tata Institute of Fundamental Research", payable at Hyderabad to be enclosed along with the technical Bid (Part - A).

The Bid Security may be accepted in the form of Bank Guarantee from any of the Commercial Banks (or) Fixed Deposit Receipt (FDR) (or) Banker's Cheque from any of the Commercial Banks (or) Insurance Surety Bonds.

The Bid security should remain valid for a period of 45 days beyond the final bid validity period.

EMD shall be interest free and it will be refunded to the unsuccessful bidder without any interest. EMD will be forfeited if the bidder withdraws or amend impairs or derogates from the tender in any respect.

8. The suppliers / bidders whose firms are registered with SSI / MSME / NSIC and having a valid certificate for claiming exemption as per privilege rules of Government of India are exempted from paying Tender Fee and EMD (Earnest Money Deposit).

9. Eligibility Criteria:

9.1 The invitation for bids is open to Original Manufactures (OEM)/Authorized Dealers/Authorized Distributors/Subsidiary Indian Company of the OEM/Indian Agent on behalf of the Foreign Manufacturer or Principals of the tendered equipment. The bidder must be legal entity having a Permanent Account Number (PAN), Certificate of Incorporation and valid GST Registration Certificate is to be submitted.

9.2 The invitation is reserved only for Class "1" and Class "2" Local Suppliers as prescribed in "Public Procurement (Preference to Make in India) order 2017 of GOI, Dept of DIPP" (OM No. P-45021/2/2017-PP(BE-II) dated 04th June, 2020. Necessary certification for local content must be submitted by the prospective bidders strictly as per the Annexure- B attached with the tender document.

9.3 When a firm sends quotation for an item manufactured by some different company, the firm is also required to attach its quotation, the manufacturer's authorization certificate.

9.4 Indian Agent cannot represent two different foreign principles for the same item in one tender.

9.5 Equipment's must be of the most recent series/models incorporating the latest improvements in design.

9.6 That the Bidder will assume total responsibility for fault free operation of equipment, application software, if any, and maintenance during the warranty period and provide necessary maintenance services after warranty period if required.

9.7 Bidders who meet the criteria given above are subject to be disqualified, if they have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure , etc.

9.8 Any additional bid participation criteria/eligibility conditions etc. mentioned in the Technical Specifications sheet will also form part of the Qualification Requirements along with those mentioned in this.

9.9 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this invitation of Bids.

10. Purchase Preference Policies.

10.1 The TIFR Hyderabad intends to give product reservation/purchase/price preference to local suppliers in line with current procurement policies of Govt. of India

10.2 For the above purpose, local supplier means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed in "Public Procurement (Preference to Make in India) order 2017 of GOI, Dept of DIPP" (OM No. P-45021/2/2017-PP(BE-II) dated 04th June,2020. Necessary certification for local content must be submitted by the prospective bidders strictly as per the Annexure - B attached with the tender document.

10.3 Local content means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the items procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

11. Bidders who have not accepted the job/order awarded to them or withdrawn from the tender process OR whose EMD/Security deposit has been forfeited in the past, their bids will not be considered and treated as ineligible / disqualified.

12. Bidders may provide the details of registration at Government e -Marketplace (GeM) product details, confirmation on the product availability (or) non availability in GeM, registered bidder at GeM (or) not.

13. Micro and Small Enterprises (MSEs):

Micro and Small Enterprises (MSE) must, along with their offer, provide proof of their being registered as MSE (indicating the terminal validity date of their registration) for the item tendered, with any agency mentioned in the notification of the Ministry of Micro, Small and Medium Enterprises (Ministry of MSME).

The MSEs are exempted from payment of earnest money and tender fees subject to furnishing of relevant valid certificate for claiming exemption as per privilege rules of Government of India.

The bidder submits registration of Udyog Aadhar Memorandum (UAM) by Ministry of Micro Small and Medium Enterprises (MSME) vendors on Central Public Procurement Portal (CPPP). The bidders who fail to submit UAM number shall not be able to avail the benefits available to MSEs as contained in Public Procurement Policy for MSEs Order 2012 issued by MSME and further applicable Notification / Rule amended from time to time.

14. Requirement from Bidders: Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority as per order issued by the Government of India (Order No. F.No.6/18/2019-PPD) dated 23rd July, 2020.

"Bidder" means any person or firm or company, including any member of consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated herein before, including any agency branch or office controlled by such person, participating in a procurement process.

Necessary certificate/undertaking to be submitted.

15. Quotations must be valid for a period of 180 days from the date of opening the bid prescribed by the Purchaser. A bid valid for a shorter period may be rejected by the Purchaser as non-responsive.
16. Tenders containing correction, overwriting will not be considered. Late or delayed/Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.
17. Tenderer should sign on all the pages of the technical bid and the price bid.
18. All future corrigendum will be published in CPPP/TIFR Hyderabad website only and no separate advertisement will be released for the same.

All prospective bidders are requested to visit our website regularly for any such updates / Corrigendum. The Purchaser reserves the right to reject the bids if the bids are submitted without taking into account these amendments/clarifications. In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.

19. For Indigenous Items: Offer should be on FOR basis and mentioned separately using different table format showing all the applicable taxes/Duties like GST, Freight & Transportation charges and installation charges etc.
20. The price quoted for Import item must be on following basis:
 - a. Ex-Work/factory duly packed airworthy/seaworthy and of international standard
 - b. FOB/FCA
 - c. CIF Hyderabad, Airport Port (all-inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)

For local item /supply, offer should be on FOR basis (i.e. total landed cost for delivery at TIFR Hyderabad).

The dimension of the item (viz. H, W, L, weight etc.) shall be specifically stated and also mention whether the mode of shipping the item is Airworthiness / Seaworthiness or both. Accordingly the mode of shipment will be decided by TIFR Hyderabad.

Price must be quoted strictly in the Price Bid Format attached herewith as "Part -B" (Financial Bid).

21. Packing:

21.1 The Supplier shall provide packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit

and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

21.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any and in any subsequent instructions ordered by the Purchaser.

21.3 Packing Instructions: Each package will be marked on three sides with proper paint/indelible ink, the following:

- (i) Item Nomenclature
- (ii) Order/Contract No.
- (iii) Country of Origin of Goods
- (iv) Supplier's Name and Address
- (v) Packing list reference number

22. Insurance:

22.1 The Goods supplied under the Contract shall be fully insured against loss or damage Incidental to manufacture or acquisition, transportation, storage and delivery.

22.2 For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "Warehouse to warehouse" (Final destinations) on " All Risks" The Insurance shall be valid for a period of not less three months after installation and commissioning. However, in case of orders placed on EX-Works/FOB/FCA basis, the purchaser shall arrange insurance.

23. Delivery and Documents:

23.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified by the Purchaser in the order within the period. The details of shipping and/or other documents to be furnished the supplier are specified in 23.2.

23.2 Delivery period (As stated in technical specifications).

The delivery is to be strictly made as per the delivery schedule stated in the Purchase Order.

The following documents are to be forwarded earlier to TIFR Hyderabad through email to purchasegroup@tifrh.res.in prior to 48 hours before dispatch of material.

- i) Supplier Invoice showing Purchase Order Number, goods' description, quantity, unit price, Total amount.
- ii) Packing List
- iii) Airway Bill/ Acknowledgement of receipt of goods from the consignee(s) by the Transport with item wise weight, unit of measurement, No of package, package size/Dimension.
- iv) Insurance Certificate if applicable.
- v) Manufacturer's / Supplier's warranty certificate.

- vi) Inspection Certificate issued by the nominated inspection agency, if any, and Certificate of Origin.
- vii) Country of Origin Certificate. (if applicable)
- viii) Product Catalogue/Brochure.
24. The Institute shall be under no obligation to accept the lowest or any other tender received in response to this tender notice and shall be entitled to reject any tender without assigning any reason whatsoever.
25. Order Acceptance: The successful bidder should submit acceptance of Purchase Order immediately (within 15 days) from the date of issue of the Purchase Order failing which it shall be presumed that the vendor is not interested.
26. **Performance Security:** The Successful bidder should deposit @ 3% of Purchase Order value as Performance Security. The Performance Security should be in the form of Demand Draft in favour of "Tata Institute of Fundamental Research" payable at Hyderabad from any of the Commercial Banks (or) Bank Guarantee from any of the Commercial Banks (or) Fixed Deposit Receipt (FDR) (or) Insurance Surety Bonds. The Performance Security @ 3% should be valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. In case Performance Security @ 3% is not provided, then 97% payment only would be released and balance after 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.
27. **Payment Terms for Import Items:** 100% Letter of Credit will be opened. 80% payment shall be made through irrevocable L/C on presentation and receipt of complete, clear shipping documents and balance 20% of the amount shall be released through irrevocable letter of credit after successful installation, commissioning, training and acceptance of the equipment certified by purchaser and on submission of "Performance Security" for an amount equivalent to 3% of the Purchase Order Value.
28. **Payment Terms for Indigenous / Local Supply Items:** 100% payment shall be released after receipt of complete material as per purchase order in a single lot, successful installation, commissioning, Training and acceptance of the equipment at TIFR Hyderabad and on submission of BG @ 3% of the Purchase Order Value.
29. Partial shipment for foreign bids / Partial delivery of material for full INR bids will not be accepted by TIFR Hyderabad.
30. **Pre Inspection Report:** The successful bidder should submit the Pre Inspection Report / Manufacturer's Test Certificate with data sheet to TIFR Hyderabad before dispatch of the material at no extra cost to the purchaser. (if required by TIFR Hyderabad).
31. Partial Shipments are not allowed.
32. Repair / replacement if required any during the warranty period, necessary customs clearance charges / customs duty charges, freight charges for sending back the repair material to supplier and import freight charges of replacement should be borne by the supplier.

33. For Import cases: No Agency commission will be paid as per Govt. of India rules.

34. All bank charges outside India will be to supplier's account only.

35. Taxes: TIFR Hyderabad is exempted from paying of Custom Duty under the notification No.51/96 dated 23.07.1996, Excise Duty under the notification No.10/97 dated 01.03.1997, for all procurements/supply meant exclusively for Educational, scientific and research purpose. Whenever the exemption certificate not honored by the authorities, the applicable duty will have to be paid. Hence Excise & Custom duties, if any, should be shown separately.

TIFR Hyderabad is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 45/2017 (CGST) and 47/2017 (IGST) dated 14th Nov, 2017. The offer should be submitted after fully considering the above notification. No other charges except those mentioned clearly in the bid will be admissible.

GST rule will be applicable with effect from 01.07.2017. The applicable TDS /other charges if any as per GST rule will be deducted as per new GST regime.

TIFR Hyderabad GST NO: 36AAATT3951F2ZG.

Deduction of Indian Income Tax Deduction at Source: The Deduction of Indian Income Tax Deduction at source (TDS) will be deducted as per IT Act. The taxes at the time of actual utilization of service etc. will be deducted if applicable any.

Supplier shall be entirely responsible for all taxes, duties, license fees, road permits, etc., incurred until delivery of the contracted Goods to the purchaser. However, GST in respect of the transaction between the Purchaser and the Supplier shall be payable as agreed, if so stipulated in the order.

36. Conversion to Single Currency: To facilitate evaluation and comparison, the Purchaser will convert all bid prices are payable to Indian Rupees established by any bank in India as notified in the Newspapers/banks website on the date of Price/Finance Bid Opening.

37. Evaluation & Comparison of Bids:

37.1 For the bids qualifying for the technical evaluation which have been found to be responsive the evaluation & comparison shall be made as under:

(i) Indigenous Offers: The final landed cost of purchase after all discounts, freight, forwarding, insurance (warehouse to warehouse), custom clearing charges taxes etc. shall be the basis of evaluation.

(ii) Imported Offers:

The CIP/CIF price shall be the basis of evaluation (warehouse to warehouse basis)

(iii) Imported Vs. Indigenous Offers:

The final landed cost (ware house to ware house) of purchase taking into account, freight, forwarding, insurance, taxes etc. (CIF/CIP with custom duty, customs clearance charges,

Bank/LC charges, transportation, delivery up to the site of installation at TIFR Hyderabad as per available records with TIFR Hyderabad for imported goods) shall be the basis of evaluation.

37.2 Conditional tenders/discounts etc. shall not be accepted. Rates quoted without attached conditions (viz. Discount shaving linkages to quantity, payment terms etc.) will only be considered for evaluation purpose. Thus conditional discounted rates linked to quantities and prompt/advance payment etc., will be ignored for determining inter-se position. The Purchaser however reserves the right to use the discounted rate/rates considered workable and appropriate for counter offer to the successful tenderers.

38. Contacting the Purchaser: Any attempt by any Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the bid.

39. Purchaser's Right to Vary Quantities at Time of Award: The Purchaser reserves the right at the time of contract award to increase or decrease the quantity of goods and services originally specified in the schedule of Requirements without any change in unit price or other terms and conditions.

40. Purchaser's Right to Accept Any Bid and to Reject Any or All Bids.

40.1 The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract without there by incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser's action.

40.2 Evidence regarding credibility of stable performance and maintenance service capability must be provided. The purchaser reserves the right to make judgment on this and reject bids that, in the purchaser's view, do not carry sufficient credibility for performance and/or service.

41. Training:

41.1 The Supplier is required to train designated Purchaser's technical and end user personnel to enable them to effectively operate the total equipment.

41.2 The training shall be initially carried out during installation & commissioning for operating and maintaining the system. The specific training on application shall also to be imparted by the supplier. The duration of such training need to be finalized with the end user of the equipment. The supplier has to provide complete training at site for operation (including trouble shooting) of the instrument.

41.3 In case any supplier is not willing to impart such training, the bid shall be treated as non- responsive.

42. Bidders, please provide the PAN No., Bank Details, email ID, Contact person details, GST No etc.

43. The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty. Please mention the Delivery Period Clearly in the Bid, however effort to be taken to deliver the materials at the earliest.

In case of delay in supply on part of the supplier, a penalty @0.5% per week of order value will be charged for delayed period subject to a maximum of 10% order value.

If the delay in the shipment of the ordered materials attributable to the supplier exceeds agreed time period from the date of original agreed upon date of shipment and extended with/without penalty, the TIFR Hyderabad shall have the right to cancel the contract / purchase order and recover the liquidated damages from other dues of the party or by legal means. It will also affect the other/future business dealings with such suppliers.

The same rate of penalty shall be applicable for late installation of the equipment/instrument also.

44. Warranty :

The supplier warrants that the Goods supplied under this contract are new, unused, of the most recent or current models and those they incorporate all recent improvements in design and materials, unless provided otherwise in the contract. The supplier further warrants that all Goods supplied under this contract shall have no defect arising from manufacturing, design, materials or workmanship (except when the design and /or materials is required by the Purchaser's Specification) or from any act or omission of the supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

This warranty shall remain valid (As stated in technical specifications) after the Goods or any portion thereof as the case maybe, have been delivered, installed & commissioned and accepted at the final destination indicated in the contract.

Warranty period shall be (As stated in technical specifications) from date of successful installation of equipment. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier's discretion shall apply making such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the contract at supplier own cost and expense and to carry out further performance tests.

If during the period of warranty any component or spare part is needed to be imported, all associated cost for replacement shall be borne by the supplier including the cost of customs duty, customs clearance charges etc.

45. COMMENCEMENT OF WARRANTY PERIOD: The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation /demonstration at the project site.

46. Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet / literature of the quoted model of the item by the quoting party/manufacturer.

47. Supplier Integrity: The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

48. Force Majeure :

The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

For purposes of this Clause, "Force Majeure" means an event beyond the control of Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, act of God and freight embargoes.

49. Termination for Default

49.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- (i) If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser.
- (ii) If the Supplier fails to perform any other obligation(s) under the Contract.
- (iii) If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

49.2 For the purpose of this Clause:

- (i) "Corrupt practice" means the offering, giving, receiving or soliciting of gratification to influence the action of a public official(s) in the procurement process or in contract execution.
- (ii) "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the purchase, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the purchaser of the benefits of free and open competition;"

50. Resolution of Disputes:

The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the contract.

If, after thirty (30) days from commencement of such informal negotiations, the Purchaser and the Supplier have been unable to resolve amicably a contractual dispute, either party may require that the dispute be referred for resolution to the formal mechanisms. These mechanisms may include, but are not limited to, conciliation mediated by a third party, adjudication in an agreed national (or) international forum, and national or international arbitration.

In case of Dispute or difference arising between the Purchaser and domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director TIFR Hyderabad and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of arbitrator so appointed shall be final, conclusive and binding on all parties to this order.

In the case of dispute between the purchaser and Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub clause above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

51. TIFR Hyderabad reserves the right to ask for or to provide any clarification, changes after the release of this tender. Any changes or clarifications provided by TIFR, Hyderabad may be checked at TIFR Hyderabad website: <https://www.tifrh.res.in/index.php/commercial-tenders>

**ADMINISTRATIVE OFFICER
(PURCHASE SECTION)
TIFR, HYDERABAD**

Annexure - B
Certificate for Local Content

*We [name of manufacturer] hereby confirm in respect of quoted item(s) that Local Content is equal to or more than 50% and come under 'Class-I Local Supplier' Category. As being 'Class-I Local Supplier', we are eligible for Purchase Preference under 'Make in India' Policy vide Gol Order No.P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020)

OR

*We [name of manufacturer] hereby confirm in respect of quoted items(s) that Local Content is more than 20% but less than 50% and come under 'Class-II Local Supplier' Category.

The details of the location (s) at which the local value addition made is /are as under:

1.....

2.....

3.....

*Strike out whichever is not applicable

Date:

Seal & Signature of the Bidder

NOTE:

- Self-certification that the item offered meets the minimum local content (as above) giving details of the location(s) at which the local value addition is made in case the bidder wishes to avail the benefits under the make in India policy, if applicable.
- In cases of procurement for a value in excess of Rs. 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the 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 to avail the benefits under the make in India policy, if applicable.

Annexure – C
Audited Annual Turnover

S.No.	Financial/ Accounting Year	Profit (Rs.)	Loss (Rs.)	Annual Turnover (in INR)
1.				
2.				
3.				

Authorized Signatory with Seal

Note:

This Audited Annual Turnover (Annexure – C) for the last 3 years should be certified by Chartered Accountant (CA) as per the format given above duly signed and stamped by the CA on their letterhead.

Annexure – D

Supply Order details of 5 Axes Universal Type CNC Machining Centre Along with Tools and Technology Used in the Development of Desired Components.

S.No.	Name of the company with full address	Name of the Project	Purchase Order No. & Date	Brief Item Description with Model No.	Item Value in Currency
Signature					
Name					
Designation					
Name of the Company					
Date					
Seal of the Company					

NOTE: Please attach the copy documents / purchase order copy for the above mentioned details.

**Financial Bid for Supply, Installation and Commissioning of 5 Axes
Universal Type CNC Machining Centre Along with Tools and Technology
Used in the Development of Desired Components for TIFR Hyderabad
(Part – B)**

Annexure E

TIFR Hyderabad Enquiry No & Date: _____

Due date: _____

Bidder's Quotation Ref No. & Date: _____

Financial Bid (Bidders must quote their rates using this Format)

S.No.	Item Description as per tender	Make/Brand/ Type	Qty.	Rate per unit (Currency)	Basic Cost of main item (In Currency)
A.	Supply, Installation and Commissioning of 5 Axes Universal Type CNC Machining Centre Along with Tools and Technology Used in The Development of Desired Components (AS PER SPECIFICATIONS AND DRAWINGS in Annexure A)				
B.	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
C.	FOB /FCA Cost (Name of Airport_____)				
D.	CIP/CIF Cost (Up to Hyderabad Airport)(all inclusive i.e. Cost of Goods, Packing, Insurance warehouse to warehouse, Inland Transportation, freight etc.)				

Note:

1. All the column should be appropriately filled and not left blank.
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item. The other charges, taxes, duties etc. to be shown separately.
3. Any accessories, optional items should be shown separately using above format.
4. Use separate sheet for detail description, specification of the item, Price breakup for the item(s) mentioned in technical specification but prices should be quoted in the same format.
5. Prices quoted in Indian Currency should be on F.O.R. basis and mention separately using different table format showing all the applicable taxes/Duties like GST, Freight & Transportation charges and installation charges etc.
Use separate sheet for detail description, specification of the item, Price breakup for the item(s) mentioned in technical specification but prices should be quoted in the same format.
6. TIFR Hyderabad being educational & research institute, discounted price shall be offered.
7. The suppliers/bidders should submit all the applicable list of documents/enclosures/annexures as mentioned in the tender along with the local content certificate filled form as per annexure – B. The supplier should provide the local content details / local value addition details with the applicable value. TIFR Hyderabad reserves the right to reject any tender (or) all tenders if not submitted along with the documents/enclosures/annexures/certificate of local content.

Signature of the Bidder

Name, Address contact no _____

& email id of the bidder/ _____

Company with company's Stamp or Seal _____ **Date:** _____

Financial Bid for Annual Maintenance Contract.

Annexure – F

TIFR Hyderabad Enquiry No & Date: _____

Due date: _____

Bidder's Quotation Ref No. & Date: _____

Financial Bid (Bidders must quote their rates using this Format)

Note: The bidder may mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period.

S.No.	AMC (for item Description as per Tender) after Warranty Period	Rate / Year In INR	Tax (%) or Amount in INR	Total Amount in INR
1.	AMC Charges for 3 rd Year after completion of warranty period			
2.	AMC Charges for 4 th Year after completion of warranty period			

Note:

1. All the column should be appropriately filled and not left blank.
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item.
3. Prices should be quoted in same format.
4. TIFR Hyderabad being educational & research institute, discounted price shall be offered.

Signature of the Bidder

Name, Address contact no _____

& email id of the bidder/ _____

Company with company's Stamp or Seal_____

Date: _____

Place: _____

Annexure - G

PERFORMANCE BANK GUARANTEE FORMAT

In consideration of the TATA INSTITUTE OF FUNDAMNETAL RESEARCH HYDERABAD (hereinafter called "THE TIFR") having agreed under the terms and conditions of Purchase Order No.....

dated.....made between. TIFR...and M/s (hereinafter called "the said Contractor{s}"). For the Purchase Order..... (hereinafter called "the said Purchase Order") having agreed to production of an irrevocable bank Guarantee for Rs. From the contractor(S) for compliance of his obligations in accordance with the terms and conditions in the said Purchase Order , we (indicate the name of the Bank) (hereinafter referred to as "the Bank") hereby undertake to pay to the TIFR an amount not exceeding Rs.(Rs..... only) on demand by the TIFR.

2. *We..... (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the TIFR stating that the amount claimed is required to meet the recoveries due or likely to be due from the said Contractor(s). Any such demand made on the bank shall be However, our liability under this guarantee shall be restricted to an amount not exceeding Rs (Rupees..... only).*

3. *We, the said bank, further undertake to pay to the TIFR any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.*

4. *We... (indicate the name of Bank) further agree that the guarantee herein contained shall remain in full force and effect during period that would taken for the performance of the said Purchase Order and that it shall continue to be enforced till all the dues of the TIFR under or by virtue of the Purchase Order have been fully paid and its claims satisfied or discharged or Purchase Officer on behalf of the TIFR certified that the terms and conditions of the said Purchase Order have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.*

5. We... (indicate the name of Bank) further agree with the TIFR that the TIFR shall have fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Purchase Order or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time to time any of the powers exercisable by the TIFR against the said Contractor(s) and to forbear or enforce any of the terms and condition s relating to the said Purchase Order and we shall not be relieved from or liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance , act of mission on the part of the TIFR or any indulgence by the TIFR to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6 .This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

7. We, (Indicate the name of Bank) lastly undertake not to revoke this guarantee except with the previous consent to the TIFR in writing.

8. This guarantee shall be valid up to unless extended on demand by TIFR. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees..... only) and unless a claim in writing is lodged with us within six months of the date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Signed and sealed

Dated the day of for.....(indicate the name of Bank)