



GOVERNMENT OF PAKISTAN  
PAKISTAN ORDNANCE FACTORIES  
TENDER ENQUIRY

To,  
M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sirs,

Reference: **TENDER ENQUIRY NO. 5167-113-FP-CAPT-SJL DATED 26-03-2025**

You are requested to submit quotations for the items(s) noted in the Schedule to the Tender. Offers should be sent duly sealed in an envelope. Please note the following instructions for filling the tender:-

1. **SUBMISSION OF TENDER**

1.1 Tenders will be opened at **1130 Hours** on **22-05-2025** at Room No. 01, Bid Center near Rabta Hall POF Wah Cantt and must reach this office on or before **1100 Hours** up to due date. The tender received late will not be entertained. You may witness the opening of the tender if you so desire. If a representative is deputed, he should bring a letter of authority from you.

1.2 Only one tender should be included in one envelope. The outside of the envelope should be inscribed with:-

Tender Enquiry No: **5167-113-FP-CAPT-SJL**

Tender to be opened on: **22-05-2025**

Address as follows:- **ROOM NO. 01, BID CENTER NEAR RABTA HALL  
POF WAH CANTT**

1.3 If envelope does not indicate reference of TE or received late, the same may be returned un-opened.

2. **GENERAL INSTRUCTIONS REGARDING PREPARATION OF QUOTATIONS**

2.1 For materials, the prices should be filled in column 5 and delivery date in column 6 of the schedule to this Tender Enquiry. The undertaking should be signed at the bottom of the Schedule which shall form the Quotation. You may use a separate sheet if necessary.

2.2 **For Plant and Machinery, you are required to quote in two parts:-**

**Part I "TECHNICAL OFFER"** It should exclusively give technical details and literatures/brochures of the offered plant, machinery and equipment, validity date, delivery schedule and signed undertaking given on the schedule to this Tender Enquiry. It must not indicate price, costs etc.

**Part II "COMMERCIAL OFFER"** It should indicate the commercial terms e.g. price, terms of payment, mode of payment, mode of supply.

Each part should be placed in a separate sealed cover. The envelopes should be inscribed with: Part I **"TECHNICAL QUOTATION WITHOUT PRICE"** and Part II **"COMMERCIAL QUOTATION WITH PRICE."**

2.3 The quotation must remain valid for at least 90 days from the date of opening of tenders.

2.4 The quotation should hold good for any reduced or enhanced quantities without notice.

2.5 In the event of non-acceptance of offer, intimation may be given to the bidders on their request.

2.6 Conditional offers or alternative offers are likely to be ignored.

2.7 Quotations should be based on F.O.B. The consignment will be shipped through Pakistan National Shipping Corporation (PNSC). In case there is no PNSC service in the country of shipping, please quote on C & F basis. The freight should be indicated separately. Insurance premium should not be included in the quoted price. However where insurance is considered necessary, advice to that effect should be given in the quotation.

2.8 Submission of the offer through an agent in Pakistan should be avoided. In case it is considered inevitable, the agent's quotation must invariably be accompanied by the original Performa invoice from the principals/ manufacturers.

2.9 Country of origin and Port of shipment to be stated.

2.10 The offer of principal must clearly indicate whether the rate quoted is inclusive of agent's commission, and if inclusive rate of commission included be specified.

2.11 Suppliers will render necessary information regarding hazardous effects on environment, of the materials/products supplied by them, in their quotations and shipping/Dispatch documents.

2.12 If the requisite information is not furnished on the TE form or offer received is not in conformity with the requirement of the TE, Such offer shall be ignored.

### 3. **INSPECTION**

3.1 Supplies shall be subject to the inspection and acceptance by the competent inspection authority nominated by the Purchaser, who will arrange it at his own cost, inspection facilities such as tools, test equipment, instruments etc will, however, be provided by the Suppliers in accordance with the relevant specifications.

3.2 Where considered necessary by the Purchaser, stores may be obtained on Warranty/Guarantee, subject to inspection on receipt. Rejected stores will be removed and replaced with the acceptable stores by the Supplier at his own expense, within a specified time.

### 3.3 **TENDER SAMPLE**

Where required, offer must accompany tender sample strictly according to the description given in Tender Enquiry. Offer not accompanied by tender sample will NOT be entertained excepting the established and reputable firms who have either previously satisfactorily supplied the same or similar stores or have submitted an acceptable samples thereof against previous TE.

### 4. **ACCEPTANCE OF OFFERS**

4.1.1 The procuring agency may reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The procuring agency shall upon request communicate to any supplier or contractor who submitted a bid or proposal, the grounds for its rejection of all bids or proposals, but is not required to justify those grounds.

4.1.2 Procuring agency shall incur no liability, solely by virtue of its invoking sub-rule (1.1) towards suppliers or contractors who have submitted bids or proposals.

4.1.3 Notice of the rejection of all bids or proposals shall be given promptly to all suppliers or contractors that submitted bids or proposals.

#### 4.2 **PERFORMANCE BOND**

(a) The successful bidders will provide Performance Bond at the rate up to 10% of F.O.B. value of contract in favor of the Controller Military Accounts (CMA) POF Wah Cantt. The Performance Bond will be furnished in the form of Deposit at Call Receipt (CDR) from any scheduled Bank in Pakistan or an unconditional bank guarantee on prescribed proforma covered by any scheduled bank in Pakistan. The Performance Bond shall be furnished within 45 days from the date of opening of Letter of Credit. It shall be valid for a period of 12 months after the date of expiry of letter of credit. If the Performance Bond is not furnished within the prescribed time of 45 days, the Purchaser reserves the right to:

i. Impose penalty @ 1 % per month of the value of CDR/BG.

(Clause-4.2 (a i) is not applicable in case of procurement of Plant / Equipment / Machinery items)

OR

ii. Cancel the contract and make other arrangements for purchase of the stores at the risk and expense of the Supplier.

(b) No Performance Bond will be required if the total FOB value of the contract is less than US\$ 50,000 and contract is placed directly on the foreign Supplier.

#### 4.3 **FAILURE TO SUPPLY THE STORES**

All deliveries must be completed by the specified date. If the failure to deliver the stores within the scheduled time should have arisen from "Force Majeure", which the Purchaser may admit as reasonable ground for further time, he will allow such additional time as he may consider to have been required by the circumstances of the case. Otherwise, he will be entitled, at his discretion, to cancel the contract; and/or, claim liquidated damages up to 2% but not less than 1% of the contract price of the items and their quantities for each and every month or part of a month, beyond the specified delivery date, during which these may not be delivered, subject to a maximum of 10% of the total contract value of particular store which remained unsupplied either in part or in full or, to purchase, from elsewhere, the unsupplied stores at the risk and cost of the Supplier.

#### 4.4 **PAYMENT**

All Bank charges incurred in Pakistan in connection with the establishment of LC will be borne by the Purchaser, whereas all Bank charges incurred in connection with drawing of payment including charges for confirmation of LC by the advising Bank/Foreign Bank will be borne by the Supplier.

### 5. **SECURITY OF INFORMATION**

5.1. Bid Security should accompany the tender in shape of deposit at call receipt / Pay Order/ Banker Cheque from scheduled bank drawn in favor of **GM-PPC, POF Sanjwal Cantt.**

5.2 Bid security instrument in original must be provided on the day/date of tender opening in the Bid Center as under:

- a) Registered / Indexed firms including foreign firms – **2 %** of Quoted value subject to maximum ceiling of Rs. **0.5 Mn.**
- b) Registered / Un-Indexed firms including foreign firms – **3 %** of Quoted value subject to maximum ceiling of Rs. **0.75 Mn**
- c) Un-registered Firms including foreign firms - 5% of quoted value subject to the maximum ceiling of Rs. 1.00 Mn.

- d) Govt. organization/production units/state owned enterprises/welfare projects of Svcs HQ - Rs 0.50 Mn
- e) Bid money will be returned to unsuccessful (less first three lowest quote firms) bidders on opening of commercial offers.
- f) Bid money will be returned to successful bidders on submission of performance bond/unconditional B.G.
- g) Bids will be conditionally accepted if Bid Money deposited by firms is less than the given amount. However, the firms will be required to deposit additional amount within 10 x days after opening of bids.
- h) Offers received without Bid Security will not be entertained.
- i) Bid money will be forfeited in case the quotation is withdrawn before the expiry of its validity date.

6. **WARNING**

In case the firm abstain from making offers or fail to return/acknowledge the tender form by the specified date on three consecutive occasions, no further tender enquiry may be issued to them and their names would liable to be removed from the approved list.

Yours faithfully,

(Sajjad Safdar Khan)  
**Managing Director**  
**POF Sanjwal**

E-mail: [mdsil@pof.gov.pk](mailto:mdsil@pof.gov.pk)

**Schedule to Tender Enquiry No.** 5167-113-FP-CAPT-SJL **Dated:** 26.03.2025

**To be Opened on** 22 -05 -2025

Sr.#	Description Of Store	A/U	Qty	Price Per unit	Delivery Date/Period
01.	2-Axis CNC Lathe Machine duly tooled Up on various machining operation of body m-82.	Off	05		

## **7. SPECIAL TERMS & CONDITIONS:**

### **7.1 For Foreign Suppliers Only**

- Payment will be released through LC against shipping documents and acceptance certificate by PSI team.
- Firm will provide Performance Bond @10% at FOB value of contract after issuance of LC
- Firm will provide Warranty/Guarantee certificate valid for 12 x months after successful installation/commissioning and FAT of the machine.
- All Chinese and Hong Kong firms are required to quote prices in Chinese Yuan

### **7.2 For Indigenous Suppliers Only:**

- Any eligible indigenous bidder can offer on FOR basis.
- Tender Fee: tender must be accompanied by a non refundable fee by means of cross Pay order of Rs. 500/- in favor of MD POF Sanjwal.
- Bid Money: Bid Money @ of 2% for registered firms and 5% for unregistered firms of the quoted value in the form of CDR in favor of GM PPC POF Sanjwal.
- Tender received without tender fee and bid money shall be rejected.
- Only registered supplier with sales tax and income tax departments who are on active tax payers list (ATL) of FBR are eligible to participate in the bid.
- NTN & PTC certificates duly attested by Gazetted class-1 Officer must be attached with the bid.
- Rates & Taxes must be shown separately otherwise rate will be considered inclusive of taxes.
- Indigenous suppliers are required to quote their prices in PKR.
- 100% Payment will be made after acceptance / FAT of store at POF Sanjwal.

## **8. UNDERTAKING**

Should our offer be accepted, we hereby undertake to supply the stores/render the services contracted on the basis of general conditions of contract embodied in form POF-1281, and to deposit the performance bond within the prescribed time, failing which it will constitute a breach of contract and POF will have the right to purchase the stores/services elsewhere at our risk and cost.

Place \_\_\_\_\_  
 Date \_\_\_\_\_  
 Stamp \_\_\_\_\_  
 Address \_\_\_\_\_

Signature of the Tenderer \_\_\_\_\_  
 Name \_\_\_\_\_  
 Position \_\_\_\_\_

**TECHNICAL SPECIFICATIONS OF 2-AXIS CNC LATHE MACHINE****1. Nomenclature:**

2-Axis CNC Lathe Machine duly tooled up on different operations of **Body (component)**.

**2. Quantity.                      05 off****3. Technical Requirements:**

a. The machines will be tooled up for the manufacturing of Body which is manufactured from pre-formed blanks. List of drawings is attached as Annex C1 to C3.

<b>S. No</b>	<b>Operation</b>	<b>Drawing No. Of Input Component</b>	<b>Drawing No. of Output Body Component</b>	<b>Qty of Machines</b>	<b>Output of the machine</b>
i.	Drilling, Facing & Rough Dia Turning	Brass Blanks as per Drg. No. PDO/H/SK/COM-371A <b>(Annex-C1)</b>	PDO/H/COM-984 <b>(Annex-C2)</b>	02	280 Nos. to be produced in single shift of 08 x working Hrs per machine
ii.	Rough Trimming, Drilling, Reaming & Tapping M10.41mm	Brass Blanks as per Drg. No. PDO/H/COM-984 <b>(Annex-C2)</b>	PDO/H/COM-1079 <b>(Annex-C3)</b>	03	128 Nos. to be produced in single shift of 08 x working Hrs per machine

b. The machines required to be tooled up on above components however; machines should be flexible enough to accommodate various types of jobs as per machine capacity / capability. For reference purpose, list of other types of jobs will be shared.

c. Machine should be capable to manufacture various types of components from Brass, Aluminum & Mild Steel.

#### 4. Technical Specifications of Machine:

Sr. #	Features:	Unit	Parameters
a.	<b>Type: Horizontal 2-Axis CNC Lathe Machine</b>		
	<b>Construction:</b> Machine shall have rigid cast iron base.		
	<b>Working Range</b>		
	Maximum Turning Diameter	mm	150
	Integrated Bar Feeder		Not Required
	Maximum Turning Length	mm	200
	Maximum Swing Over Bed	mm	400
	Standard Collets for Gripping	mm	To suit the components as per drawings attached
	X-Axis Stroke	mm	180
	X-Axis Rapid	mtrs/min	30
	Z-Axis Stroke	mm	200
	Z-Axis Rapid	mtrs/min	30
b.	<b>Main Spindle</b>		To suit Ø250 three jaws Chuck for external gripping
	<b>Spindle Type</b>		Belt Driven with External Motor
	<b>Spindle Bore</b>		45mm
c.	<b>Main drive</b>		20-25 KW, AC servo or variable frequency motor, speed : 0 to 4000 RPM
d.	<b>Turrets</b>		01
	Number of tool stations on single turret		8 min
e.	<b>Bed Structure</b>		
	45° Slant Bed		
f.	<b>Coolant system</b>		
	Automatic Coolant system is required with machine.		
g.	<b>Lubrication System</b>		
	Automatic Lubrication System is required with machine.		
h.	<b>Hydraulic Clamping System – Standard Equipment</b>		
	Collets – 03 x Nos. additional Required		As per our Requirement for Body (component)
	Three Jaws Chuck for external gripping – Additional Required		03 x Nos.
	Holders & related equipment Different Types		VDI-40
i.	<b>Frame</b>		Horizontal
j.	<b>Automatic Chip Conveyor</b>		Required
k.	Overall Equipment Efficiency (OEE).		not less than 90%

#### 5. CNC Control:

- SIEMENS Latest controller version with diagnostic display & PLC alarm history for trouble shooting available with backup in Pakistan.
- Simultaneous operation of X-axis and Z-axis.
- **Universal Serial Bus (USB)** supported and externally programmable.
- Data transfer feature, Ethernet feature, MMC Card ports enabled.
- Touch Screen Operator Panel & keyboard.
- All motors must have IP52 or better rating.

6. **Essential Characteristics of Machine:**

- Automatic lubrication system.
- High pressure coolant supply
- Pneumatic unit for compressed air
- Neat cutting oils (Straight Oils)
- Refrigerant based Cooling system for hydraulic units, spindle, pumps, control cabinets and electric cabinets.
- Built-in voltage stabilization.

7. **Software:**

- Initialization Features:** With automatic bootable system. Software operable on licensed MS Windows Operating System
- Backup:** Software and data programme may be stored on flash drive / Hard disk. System shall have minimum 40 GB hard disk for storing programs and other machining data. The supplier shall confirm that after Installation of Machine, there shall be back up support for 15 years as & when required by the purchaser. Complete software backup/clone after FAT.
- Reloading:** All features & instructions for reloading of software backup need to be documented. Compatible programmer for uploading and downloading of all kinds of software data backup in/from Machine Control.
- Calibration:** Calibration procedures along with parameters must be well defined and also available in Hard & Soft form.
- Up gradation:**
  - The purchaser shall be kept informed regarding latest advancement in the related technology for further improvement in the production and operation of machine.
  - Free online remote support may be needed for up-gradation of machine.
  - Free of cost software upgrade & downloadable via internet.
  - Software should be compatible with latest & upcoming versions of Windows and connectivity with laptop via Ethernet & USB.
  - Remote diagnostic system for trouble shooting.
- Password up to manufacturing level is essentially required.

8. **Accessories & Additional Requirements:**

- Coolant attachment with pump and feed line to the tool holders.
- Flush cycle for chip and swarf removal from clamping fixture and machine bed.
- Coolant oil solution with water solvent.
- Automatic centralized lubrication system.



- e. Working Area light
- f. Universal vices.
- g. Full enclosure guards.
- h. 01 x laptop with preloaded licensed machine software and all type of backups.
- i. Isolation transformer suitable for machine.
- j. System should be safe to handle spike and surge. (Transient).
- k. The supplier will provide complete tool kit with instruments for electrical, Instrument & mechanical maintenance of machine (01x with each machine).
- l. Complete set of measuring instruments be provided along with machine. That must include set of internal & external micrometres (metric), set of vernier callipers, dial indicators along with magnetic stands (0.001mm) etc (01x with each machine).
- m. A detailed foundation plan and design will be provided by the supplier.

**9. Applicable Standards:**

- For Machine accuracies, latest issued standards are enforced at the time of placing order, shall govern various aspects of the work, as mentioned at Para 4/N.
- Facilities for inspection such as tools, test equipment, instruments etc would be provided by the suppliers in accordance with the relevant specifications.

i.	ISO 230-1-2012	Geometric accuracy of machine
ii.	ISO 230-2-2012/2014	Determination of accuracy and repeatability of position
iii.	VDI-DGQ 3441	
iv.	ISO 230-5:2000	Noise emission
v.	ISO 841:2001 (E)	Dealing with coordinates X,Y,Z
vi.	ISO 16090-1:2022	Safety requirements and protective measure

**10. Tooling:**

- a. The CNC Lathe Machines should be supplied duly tooled up on Body (component) along with jigs & fixtures as per Para 3/N (drawings attached).
- b. Tooling/equipment sufficient for three years production (6000 working hrs) must be supplied by the supplier. Detailed item wise list would be provided.
- c. Quick change over of tooling is to be ensured.
- d. Detail item wise list is to be provided along with unit rates in commercial offer.
- e. Supplier will provide the life cycle graph of tooling
- f. Requirement of 01 x additional set of Jigs & fixtures with each machine

**11. Spares:**

- a. Backup support for provisioning of spares for 15 x years.
- b. Electrical, Mechanical and Electronic spare parts for two years essential maintenance and operation (will be used after warranty guarantee) are to be supplied.
- c. Detail item wise list is to be provided along with unit price in commercial offer.

**12. Documentation / Literature & Backup:**

Literature must be in English language inclusive but not limited to:

- a. 04 x sets of operating manuals.

- b. 04 x sets maintenance manuals including; Details of electric schematics, flow diagrams of hydraulic and pneumatic systems, electrical and mechanical laying diagrams.
- c. All machine installation drawings are required including but not limited to civil foundation drawings, electrical power source and cable layout, compressed air lines.
- d. Spare part list would be provided along with specification and OEM order code.
- e. Final and complete Part Programs print out.
- f. PLC listing with comments should be provided.
- g. Complete description of CNC Program codes.
- h. Compatible programmer for uploading and downloading of all kinds of software data backup in/from Machine Control.
- i. Details of hydraulics & Pneumatic system by addressing under mentioned parameters are required;
  - Hydraulic pump: Type & Capacity features
  - Coolant pump: Type , Capacity & other features
  - Lubrication unit: Type, Capacity & other features
  - Hydraulic & Pneumatic valves: Type & its Features
  - Clamping cylinder for spindle & tailstock: Type & its Features
  - Pressure switches: Type & its Features
  - Hydraulic pipes for tailstock and steady: Type & its Features

**13. Site Conditions & available Services:**

- a. Temperature:
  - Winter = 0 to + 20 °C
  - Summer = + 20 to 55 °C
- b. Relative Humidity = 25 to 90%
- c. Earthquake value will be mentioned if the OEM requires vibration free foundation
- d. Electricity 400 Volts, 50 Hz, Three Phases. }  $\pm 05 \%$  in normal conditions.
- e. Electricity 230 Volts, 50 Hz, Single Phase. }  $\pm 10 \%$  in contingency conditions
- f. Compressed air pressure 5 to 6 bar (Max)

**14. First Filling of Lubrication:**

- a. The oil and process lubricants required for capacity run, FAT and onwards for one-year production shall be supplied by the supplier at no additional cost.

**15. Safety:**

- a. The Machine should be equipped / provided with all safety gadgets / accessories.
- b. Noise level must be less than 85 db, for each machine.
- c. The equipment should be earthed (less than 1 $\Omega$ ).
- d. Full door with sliding door interlock and large safety glass windows with optimum accessibility for operator and maintenance staff low wear laminated glass should be provided as safety glass panes.
- e. All motors should be equipped with standard safety protections and fulfill IP52 or above ratings.

#### **16. Operation Cycle Time:**

- 280 Nos. of **Body as per drawing No.** PDO/H/COM-984 to be produced in single shift of 08 x working Hrs per machine
- 128 Nos. of **Body as drawing No.** PDO/H/COM-1079 to be produced in single shift of 08 x working Hrs per machine
- Overall Equipment Efficiency (OEE) not less than 90%.

#### **17. Backup Service Support**

The Supplier shall confirm that after installation of CNC lathes Machines, there shall be backup support at least 15 years as and when required by the purchaser. In addition, the purchaser shall be kept informed regarding latest advancement in the related technology for further improvement in the production and operation of machines.

#### **18. Training:**

- a. The supplier will provide training to POF personnel at no additional cost to the extent of 10 men for 03 weeks in the field of machine setting, operating of machine, inspection, mechanical, electrical & electronics maintenance, instruments and software related to machine at supplier's or its sub contractor's premises.
- b. Training will be imparted to the officials in parallel to the PSI of the machine.
- c. Expenses related to POFs personnel on training at Supplier's premises including boarding, lodging, return Air Tickets & Daily allowance etc. will be borne by the purchaser.

#### **19. Pre-Shipment Inspection:**

- i. Supply of machines shall be subject to Pre-Shipment Inspection (PSI) and acceptance by the designated 03 x officers for 03 x weeks in parallel to Training team.
- ii. The supplier shall provide Assembly & Test protocol during PSI including assembly of Control panel, Pneumatic system, Hydraulic system and electrical components.
- iii. The machine will be inspected as per standard mentioned in Para 4/N. However, the inspection facilities such as tools, test equipment, instruments etc would be provided by the supplier in accordance with relevant standard / specifications.
- iv. The machine will be subjected to pre-delivery inspection for accuracy test at Supplier's premises in the presence of rep(s) of Purchaser. **The machine should clear the capacity test** for the manufacturing of components mentioned in **Para-3/N (a) and Para16/N.**
- v. **During PSI 5000 x components will be machined** as per components drawings. There should be no stoppage of machine, and machined component should conform in relevant gauges.
- vi. The components produced from the input material must clear the dimensional inspection and visual requirements as per relevant drawing and following criteria:

- i. Visual Inspection: Components produced would have conformity as per drawings.
- ii. Dimensional Inspection: Components would have to qualify in dimensions as per relevant drawings.
- iii. Critical inspection: **05 x Components** produced would be selected for critical inspection to ensure the dimensions as per relevant drawings.
- vii. **Brass Blanks & required Gauges** for PSI will be provided by purchaser. Finished components shall be returned by the supplier.
- viii. Tooling & lubricants used during PSI will be provided by Supplier.
- ix. Rejected machine/ equipment will be removed and replaced with the acceptable one by the Supplier at his own expense, within a specified time. The supplier will render warranty / guarantee certificate as per **Annex "D"**.
- x. Expenses of POFs personnel at Supplier's premises including boarding, lodging, return Air Tickets & Daily allowance etc. will be borne by the purchaser.
- xi. The machine & equipment will be dispatched only after the receipt of pre-delivery trials acceptance certificate from purchaser, certifying that the machines & equipment have qualified the function / quality test and components produced have been passed in gauges as per requirement.

## **20. Installation & Commissioning:**

- a. Upon delivery, all packages will be inspected for damages and appropriate reports prepared. All packages, upon opening at purchaser premises will be inspected by reps of both purchaser and supplier. On written authority, the purchaser is entitled to open and inspect the packages without the seller's rep being present. If at the time of taking delivery, from the carrier's or on receipt at purchaser premises, the supplies are found to suffered loss / damage. It will be decided by mutual consent of both the parties (i.e reps of purchaser and supplier) as to the nature, mode and extent of making good the deficiency. Any shipment containing quantities less than that shown, in the related shipping documents will be made good by the supplier.
- b. The machines shall be commissioned and trial production of the machines shall be carried out by supplier's engineers. However, Purchaser shall provide required number of operators and technicians for the commissioning and trial production of the machine.
- c. The supplier is to indicate the total man-weeks of his engineers / technicians required for installation, commissioning and trial production of the machine. Terms and conditions are to be stated clearly. All expenses, including boarding & lodging, air travel and daily allowances of the engineers / technicians are to be borne by the supplier. Local transportation shall be arranged by the Purchaser.
- d. The supplier is to indicate the time schedule for the completion of whole project.
- e. Machine layout diagram will be provided by the firm well before shipment of machine.
- f. The oil and process lubricants required 1<sup>st</sup> time to run the machines for one year shall be supplied by the supplier.

## 21. Final Acceptance Test (FAT):

- i. Final acceptance test will be performed at purchaser premises. This test will be carried out with the technical assistance of the supplier and will comprise successful production of acceptable quality of components as per Specified drawings, visual inspection and specified gauges.
- ii. **Machine Capacity Run:** Machine will be given **capacity run for 14 days** in customer premises. Output of machine (**Qty. 5400 Nos. components**) in terms of production capacity & quality will be checked as mentioned in operation cycle. The components produced from the input material must qualify all the specified gauges as per drawing requirements. Any rejection or production failure due to non-qualification of components or machine failure, FAT will be restarted.
- iii. The components so produced should conform to the standards / criteria laid down in the drawings mentioned by measurement and visual inspection. If the specified production of the machine is not achieved within stipulated period after the effective date of contract, the supplier experts will stay at suppliers cost till the production has been achieved provided such delays are attributable to supplier. Components produced from the input material provided by the purchases must clear the following criteria.  
Visual Inspection: Components produced would have conformity as per drawings.  
Dimensional Inspection: Components would have to qualify in dimensions as per relevant drawings.  
Critical inspection: 15 x Components each from Operation (i) and (ii) produced would be selected for critical inspection to ensure the dimensions as per relevant drawings.
- iv. The supplier experts will stay, at supplier cost till the production has been achieved provided such delays are attributable to supplier. Supplier experts should stay for 01 week after successful FAT to look after / handle the machine problems at supplier's expense.
- v. Tooling, Spares and Process lubricants consumed during trial production run will be in addition to the original contracted/ supplied quantities by the supplier.
- vi. Delay penalty will also be imposed @ 2% per month or not more than 10% of contracted value for the delayed dispatch to Purchaser and installation & commissioning of machine, achievement of production run of the machine beyond the schedule date of final acceptance and will be deducted from balance 30% payment.

## 22. Payment Terms & Conditions:

Payment terms & conditions are negotiable. Payment will be released through LC against shipping documents including acceptance certificate by PSI team, 10% performance bond at FOB value of contract and warranty/ guarantee certificate valid for 12x months after successful installation & commissioning of the machine. The general conditions of performance bond and payment are as under: However, firm has to provide following documents for release of payment as per accepted.

### a. **Performance Bond:**

- i. The Supplier shall provide a Bank Guarantee to the tune of 10% of total FOB value of the contract on the prescribed Proforma for satisfactory execution of the

contract. It shall be issued by any scheduled bank in Pakistan. The Bank Guarantee shall be endorsed in favor of CMA (POF) Wah Cantt, who is the Accounts Officer specified in the contract. The CMA (POF) Wah Cantt shall have the like power of seeking encashment of the Bank Guarantee as if the same has been demanded by the Purchaser himself. **The Performance Bank Guarantee shall be furnished by the Supplier within 45 days from the date of opening of Letter of Credit. The validity of Bank Guarantee to be 12 months from completion of successful installation and commissioning.**

- ii. If delivery period is extended, the Supplier shall arrange the extension of Bank Guarantee within 30 days from the date of amendment of LC. If the guarantee is not revalidated the same is liable to be en-cashed by the CMA (POF) Wah cantt.
- iii. If the supplier fails to furnish the Bank Guarantee within specified period, the Purchaser reserves the right to cancel the contract and has the right to purchase the stores at the risk and expenses of the supplier.
- iv. On satisfactory performance of the contract, the Bank Guarantee shall be returned to the supplier by CMA Wah Cantt after 12 months from FAT i.e. after completion of warranty / guarantee period. In the event of unsatisfactory performance or any breach of the contract, Bank Guarantee shall be forfeited by the Purchaser.

b. **Payment:**

Payment will normally be made by means of irrevocable letter of credit. Unless otherwise stated 70% payment may be released on submission of despatch documents to Bank along with pre-shipment inspection acceptance certificate from the purchaser. Remaining 30% payment will be released after installation, commissioning and satisfactory completion of trial run of the machines at purchaser premises against the final acceptance test certificate issued by the Purchaser.

All Bank charges incurred in Pakistan in connection with the establishment of LC will be borne by the Purchaser whereas all Bank charges incurred in connection with drawing of payment including charges for confirmation of L.C. by the advising Bank/Foreign Bank will be borne by the Supplier.

**23. Delivery Schedule:**

- a. Delivery period 06x months after establishment of LC.
- b. Delivery of machine will be made on C&F basis.

**24. Warranty Guarantee:**

- a. The CNC Lathe machines and accessories shall be accepted on Supplier's Warranty / Guarantee with regard to quality and quantity subject to these being technically checked/tested and accounted for on arrival at Consignee's warehouse in the presence of supplier's rep (if desired by supplier) at their cost.
- b. The supplier shall render Warranty / Guarantee certificate in duplicate to the Purchaser on the enclosed Performa attached as "**Annex-D**" as soon as stores have been dispatched/delivered. This Warranty / Guarantee shall be binding on the Supplier for a period of 12 months reckoning from the date of the successful completion of FAT of the machines.
- c. In case the stores on checking / test after receipt at Consignee's warehouse are found not conforming strictly to the relevant specification and other particulars

are found damaged during transit, the Supplier shall Immediately replace the rejected/damaged stores by acceptable stores, free of cost, and without any obligation to the Purchaser. Rejected / damaged stores shall be disposed off by the Supplier under his own arrangements.

- d. The supplier shall warranty the good quality of all equipment supplied against all defects or failures due to faulty design, material, or workmanship.
- e. The supplier shall also provide Guarantee for meeting the requisite quality and quantity of products. In case of any deficiency in term of quality or quantity of products, all related expenditure to fulfill commitment shall be borne by the supplier.

**25. Country of Origin:**

- a. Europe, UK, USA, Japan, Turkiye and South Korea or any other country having license from OEM of these origins for machine manufacturing.

**26. Colour:**

- a. Preferably RAL-6011 (Reseda green)