



POF 1262
(FOREIGN SUPPLIES)

GOVERNMENT OF PAKISTAN
PAKISTAN ORDNANCE FACTORIES
TENDER ENQUIRY

To,

M/s _____

Dear Sirs,

Reference: TENDER ENQUIRY NO. **5167-61-FP-CAPT-SJL** DATED. **09-01-2019**

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 **1030 hrs** on **14-02-2019** and must reach this office on or before **1000 hrs upto 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: **5167-61-FP-CAPT-SJL** DATED. **09-01-2019**

Tender to be opened on: **14-02-2019**

Address as follows: - **BID CENTER NEAR RABTA HALL POF WAH CANTT.**

1.3 If envelope does not indicate reference of TEs 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 tenderers 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 proforma 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.

5. **PERFORMANCE BOND**

(a) The successful bidders will provide Performance Bond at the rate upto 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.

6. **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 upto 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.

7. **PAYMENT**

Payment will normally be made by means of irrevocable letter of credit. Unless otherwise stated 90% payment will be released on submission of Dispatch documents to Bank while balance 10% payment will be released on receipt and acceptance of store by the consignee.

All Bank charges incurred in Pakistan in connection with the establishment of L.C. 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.

8. **SECURITY OF INFORMATION**

The tenderer and his employees must not communicate any information relating to the sale/purchase of stores under this enquiry to any person other than the manufacturer or to any press or agent not authorized in writing by POFs to receive it.

Please return the Schedule to the Tender duly signed by the specified date, alongwith the specifications drawings etc. if any, enclosed herewith - even if you are unable to quote.

9. **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,

(Muhammad Arshad)
Managing Director

Tele:

Fax: 0092-51-9316252

E-mail: -

Cable:

TO BE OPENED ON 14.02-2019

SR. NO.	DESCRIPTION OF STORE	A/U	QTY.	PRICE PER UNIT	DELIVERY DATE/PERIOD
1	Primary Shot Blast Machines for Shells 155mm HE & 155mmBB/HB. 03 off As per Annexure- A (attached).	No.	03		

SPECIAL TERMS & CONDITIONS

- A. Rates quoted should clearly indicate inclusive or exclusive of sales tax otherwise it will be assumed that rates are inclusive of sales tax.
- B. Amount of performance bond and outstanding payment of bill against other contracts shall not be treated as bid money etc.
- C. All manufacturers of taxable goods and importer are required to be registered with the sales tax department and to issue tax invoices in respect of all their sales and all the supplier are advised to provide the sales tax invoices whenever they buy taxable goods from any manufacturer/ importer. The production of these invoices may also be attached when supplies are made by supplier/ contractors. If a supplier claims that he is neither an importer nor a manufacturer and not authorized to issue tax invoices, then he will provide sales tax invoices issued by the concerned registered importer/manufacturer from whom such supplier had procured the goods.
- D. Authorization letter:- Firm will provide authorization from OEM
- E. In case of foreign make units the firm will provide export permit for Pakistan.
- F. In case pre-shipment Inspection /training is required to be carried out prior to shipment Supplier will be bound to bear the charges incurred in Air Traveling to and fro, Boarding/Lodging, Inland TPT charges and general medical to POF team.
- G. Supplier will submit alongwith the offer an undertaking that he will provide spares sufficient for two years on free of cost alongwith the machine and supplier will also ensure availability / supply of spare for the machine being supplied upto a period of 10 years.

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

PLACE-----

DATE-----

SIGNATURE OF THE TENDERER-----

NAME-----

POSITION: -----

ADDRESS: -----

Bid Qualification Criteria - POF Sanjwal

1. Bids must reach in time as per TE opening date & time.
2. Bids money and Tender fee must be attached as mentioned in the TE.
3. Correct nomenclature of the offered goods, quantity, unit rate, drawing & specifications must be clearly mentioned.
4. Bid should be duly signed by the authorized person.
5. Company profile indicating vision, mission, establishment, business details, after sale service, financial health must be attached.
6. Detail of business with POF & POF registration certificate (copy) if registered & the Company / Firm is not in default against any contract with POF.
7. Detail of supply of similar goods to other customers.
8. Delivery period would be clearly mentioned.
9. Performance Bond / CDR (Bank Guaranty) submission confirmation would be mandatory.
10. Confirmation regarding settlement of inspection related issues with the respective inspection agency would have to be made.
11. Export license related a matter is the sole responsibility of supplier & it would not be cause of delay in execution of the contract. Confirmation to this effect has to be made.
12. Confirmation of acceptance of all terms & conditions mentioned in the TE.
13. Proof of ATL, NTN, Professional Tax Certificate & Certificate of registration with FBR.

Special Points To be Considered While Preparing Commercial Bid

Commercial offers in the line with the following clarification would be considered acceptable otherwise the same will stand rejected.

- a. FOR/FOB & C&F Cost of Machine alongwith accessories etc.
- b. List & Cost of Tooling.
- c. List & Cost of Spare Parts for two years.
- d. Cost of Training & installation / Commissioning charges.
- e. Acceptance of travelling expenditure of PSI team including boarding / lodging, air ticket, inland traveling charges & 30% DA.
- f. Confirmation regarding terms of payment 70% against shipping documents & 30% after installation & successful commissioning at POF Sanjwal.
- g. Confirmation regarding obtaining of export permit.
- h. Confirmation regarding submission of 10% Performance Bond.



POF 1262-A
(FOREIGN SUPPLIERS)

GOVERNMENT OF PAKISTAN
PAKISTAN ORDNANCE FACTORIES
TENDER ENQUIRY

To

M/s

Dear Sirs,

Reference: TENDER ENQUIRY No. **5167-61-LP-CAPT-SJL** Dated **09-01-2019**.

You are requested to submit quotations for the item(s) noted in the Schedule to the Tender. Offer 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 **1030 hours** on 14-02-2019 at Bid Center near Rabta Hall POF Wah Cantt and must reach this office on or before **1000 hours** upto 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: **5167-61-LP-CAPT-SJL** Dated **09-01-2019**
Tender to be opened on: **14-02-2019**

Address as follows:- **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 Tenderers on their request.
- 2.6 Conditional offers or alternative offers are likely to be ignored.
- 2.7 Quotations should be based on:-
F.O.R. station of Dispatch basis, i.e. delivered free on rail, inclusive of packing and forwarding charges. The stores will be booked under Military Credit Note, to be provided by the purchaser.
and/or
Free delivery at POF's stores at POF Sanjwal
In this case Octori duty will be payable by the supplier.
- 2.8 Taxes and Duties etc. where applicable, must be shown separately, quoting reference to Registration No. in cases of Sales Tax and relevant authority in the case of others. Offer without these clarifications and inclusive of Taxes and Duties may be ignored.
- 2.9 Taxes and duties levied on or after Tender opening date or on or after the date offer was signed and dispatched will be allowed to include in the offered rates.
- 2.10 "Suppliers will furnish a certificate, issued by Excise & Taxation Deptt, that he has cleared all Professional Tax payable by him" offers received without this certificate will be rejected.
- 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 T.E forms or offer received is not conformity with the requirement of the T.E such offer shall be ignore.

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.

4. **TENDER FEE**

The tender must be accompanied by a non-refundable fee by means of a crossed postal order/pay order for Rs 500/- in favour of Director Admin POFs Wah Cantt.

4.1 **TENDER SAMPLE**

Where required, offer must a company tender sample, strictly according to the description and specification 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 sample thereof against previous T.E.

5. **BID MONEY**

- 5.1 Bid Money at the rate of 2% (for registered firms) and 5% (for unregistered firms) of the quoted value should accompany the tender in the shape of Deposit At Call Receipt/Pay Order/Banker's cheque, from a scheduled Bank drawn in favour of General Manager concerned purchase.

Tenders received without Bid Money will be rejected.

5.2 Bid Money of the unsuccessful tenderers will be returned as soon as the scrutiny of the tenders is completed. Bid Money of the successful tenderers will be retained until the contract is finalized. Bid Money will be forfeited in case the quotation is withdrawn before the expiry of its validity date.

5.3 State owned organizations are not required to provide Bid Money.

6. **ACCEPTANCE OF OFFERS**

6.1.1 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.

6.1.2 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.

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

7. **PERFORMANCE BOND**

(a) The successful bidders shall provide Performance bond at the rate, prescribed by POF Board according to the value of contract which shall not exceed 10% of contract value, in the form of a Deposit At Call Receipt from a scheduled Bank; or, an un-conditional Bank Guarantee valid for 12 months (03 months extendable to 12 months in case of cloth items required by Clothing Fy.) after receipt of store in POFs on a prescribed format. The Performance Bond will be in favour of C.M.A. POF Wah Cantt. It will be returned on satisfactory completion of the contract.

(b) If the Supplier fails to furnish the Performance Bond within the specified time, such failure will constitute a breach of the contract and the Purchaser shall be entitled to make other arrangements for purchase of the stores at the risk and expense of the Supplier.

6.3 Performance Bond from State owned organizations may be waived off at the discretion of the Purchaser.

8. **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 upto 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 the particular stores 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.

1. **PAYMENT**

- a. Payment will be made by the C.M.A (POF) through crossed cheque on receipt/acceptance of stores on our prescribed bill form supported by receipt voucher on part/full supply basis.
- b. Payment of duties /Taxes including professional tax(where applicable) must be supported by proof of having paid these to concerned Govt. Taxation Deptt:

2. **SECURITY OF INFORMATION**

The tenderer and his employees must not communicate any information relating to the sale/purchase of stores under this enquiry to any person other than the manufacturer or to any press or agent not authorized in writing by POFs to receive it.

Please return the Schedule to the Tender duly signed by the specified date, along with the specifications drawings etc. if any, enclosed herewith - even if you are unable to quote.

3. **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 be liable to remove from the approved list.

(Muhammad Arshad)
Managing Director
For Pakistan Ordnance Factories

Tele:

Fax:

Telex:

Cable:

SCHEDULE TO TENDER ENQUIRY NO. 5167-61-LP-CAPT-SJL
TO BE OPENED ON 14.02.2019

DATED: 09.01.2019

SR. NO.	DESCRIPTION OF STORE	A/U	QTY.	PRICE PER UNIT	DELIVERY DATE/PERIOD
1	Primary Shot Blast Machines for Shells 155mm HE & 155mmBB/HB. 03 off As per Annexure- A (attached).	No.	03		

SPECIAL TERMS & CONDITIONS

- A. Rates quoted should clearly indicate inclusive or exclusive of sales tax otherwise it will be assumed that rates are inclusive of sales tax.
- B. Amount of performance bond and outstanding payment of bill against other contracts shall not be treated as bid money etc.
- C. All manufacturers of taxable goods and importer are required to be registered with the sales tax department and to issue tax invoices in respect of all their sales and all the supplier are advised to provide the sales tax invoices whenever they buy taxable goods from any manufacturer/ importer. The production of these invoices may also be attached when supplies are made by supplier/ contractors. If a supplier claims that he is neither an importer nor a manufacturer and not authorized to issue tax invoices, then he will provide sales tax invoices issued by the concerned registered importer/manufacturer from whom such supplier had procured the goods.
- D. Tender fee should be attached with technical offer and bid money should be attached with commercial offer
- E. Authorization letter:- Firm will provide authorization from OEM
- F. In case of foreign make units the firm will provide export permit for Pakistan.
- G. In case pre-shipment Inspection /training is required to be carried out prior to shipment Supplier will be bound to bear the charges incurred in Air Traveling to and fro, Boarding/Lodging, Inland TPT charges and general medical to POF team.
- H. Supplier will submit alongwith the offer an undertaking that he will provide spares sufficient for two years on free of cost alongwith the machine and supplier will also ensure availability / supply of spare for the machine being supplied upto a period of 10 years.

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

PLACE-----
DATE-----

SIGNATURE OF THE TENDERER-----
NAME-----
POSITION: -----
ADDRESS: -----

Bid Qualification Criteria - POF Sanjwal

14. Bids must reach in time as per TE opening date & time.
15. Bids money and Tender fee must be attached as mentioned in the TE.
16. Correct nomenclature of the offered goods, quantity, unit rate, drawing & specifications must be clearly mentioned.
17. Bid should be duly signed by the authorized person.
18. Company profile indicating vision, mission, establishment, business details, after sale service, financial health must be attached.
19. Detail of business with POF & POF registration certificate (copy) if registered & the Company / Firm is not in default against any contract with POF.
20. Detail of supply of similar goods to other customers.
21. Delivery period would be clearly mentioned.
22. Performance Bond / CDR (Bank Guaranty) submission confirmation would be mandatory.
23. Confirmation regarding settlement of inspection related issues with the respective inspection agency would have to be made.
24. Export license related a matter is the sole responsibility of supplier & it would not be cause of delay in execution of the contract. Confirmation to this effect has to be made.
25. Confirmation of acceptance of all terms & conditions mentioned in the TE.
26. Proof of ATL, NTN, Professional Tax Certificate & Certificate of registration with FBR.

Special Points To be Considered While Preparing Commercial Bid

Commercial offers in the line with the following clarification would be considered acceptable otherwise the same will stand rejected.

- i. FOR/FOB & C&F Cost of Machine alongwith accessories etc.
- j. List & Cost of Tooling.
- k. List & Cost of Spare Parts for two years.
- l. Cost of Training & installation / Commissioning charges.
- m. Acceptance of travelling expenditure of PSI team including boarding / lodging, air ticket, inland traveling charges & 30% DA.
- n. Confirmation regarding terms of payment 70% against shipping documents & 30% after installation & successful commissioning at POF Sanjwal.
- o. Confirmation regarding obtaining of export permit.
- p. Confirmation regarding submission of 10% Performance Bond.

TECHNICAL SPECIFICATION OF PRIMARY SHOT BLAST MACHINE FOR SHELLS
155MM HE & 155MM BB/HB AND OTHER CALIBERS

1. **Nomenclature:**

Primary Shot Blast Machine for Internal Shot Blasting of various Calibers 120mm to 155mm Shell

2. **Technical Requirement of Shot Blasting Machine:**

i.	Production capacity/ with respect of workpiece, diameter of nozzle and pressure	10 to 15 Shells per hour.
ii.	Duration of automatic cycle.	3 to 5 minuts (Time adjustable)
iii.	Air requirment	4.0 m ³ to 7.0 m ³
iv.	Air pressure	5.5 ± 1.5 Bar
v.	Type of grit	Steel grit 1mm to 3mm 500 Br.Hardness
vi.	Grit charge	For one machine approx. 150 to 180 cm ³
vii.	Diameter of nozzle	8 to 10 mm
viii.	Service life the nozzle/ worn out nozzle of rated dia + 20%	500 to 1500 working Hrs

3. **Output of Shot Blasting Machine:**

The output requirement of each Shot Blasting machine will be;

- Production in Single Shift (08 hrs) = 70 to 120 Shells
- Production in 2000 working hrs. = 17500 to 30000 Shells

Detail of various calibres is mentioned as under;

Calibers	Production / Shift (08 Hrs.) (Nos.)	Production / Year (2000 working Hrs) (Nos.)
120mm	120	120 x 250 = 30000
122mm	120	120 x 250 = 30000
125mm	100	100 x 250 = 25000
130mm	80	80 x 250 = 20000
155mm	70	70 x 250 = 17500

4. **Accessories:**

a. Manipulator.

- i. Lifting weight 200 kg
- ii. Clamping Dia. 100 ~ 250mm
- iii. Rotation up to 270°
- iv. Arm Length 1000~2500mm

b. Lubrication system: Automatic lubrication system.

5. **Tooling:**

- a. The Shot Blasting Machines should be supplied duly tooled up for shot blasting of 155mm HE, 155mm BB/HB and other calibers before & after nosing operation, drawings are attached as **Annex-C**.
- b. Flexibility required for tooled up for Shot Blasting of other calibres (120mm, 122mm, 125mm, 130mm).
- c. Tooling/equipment sufficient for two years (4000 working hrs) production must be supplied by the supplier.
- d. Quick change over of tooling is to be ensured

6. **Spares:**

- a. Two years essential maintenance and operation spares i.e. Nozzle bars, Nozzles, pneumatic valves/electromagnetic valves would be supplied.
- b. Detail item wise list would also be provided.
- c. Backup support for provisioning of spares for 15 x years is to be ensured

7. **OOE:**

Operating overall efficiency of the shot blast should be 85%.

8. **Safety:**

- a. All Machinery should be equipped / provided with all safety gadgets / accessories according to latest safety standards.
- b. Noise level: less than 85 db, for all the machinery.

9. **Misc:**

- a. The Shot blast machines should have environmental friendly systems.
- b. System should be safe to handle spike and surge.(Transient)
- c. A/Cs should be installed in panel/system (where necessary).

10. **Climatic Conditions:**

- a. Temperature:
 - Winter = -5 to + 20 °C
 - Summer = 30 to 50 °C
- b. Relative Humidity = 25 to 90%
- c. Earthquake Value = 7.0 on Richter scale

11. **Utilities Available at Site:**

- a. Electricity 400 Volts, 50 Hz, Three Phases. } $\pm 5\%$ in normal conditions.
- b. Electricity 220 Volts, 50 Hz, Single Phase. } $\pm 10\%$ in contingency conditions
- c. Compressed air pressure 6 bar (Max)

12. **Backup Service Support:**

The supplier shall confirm that after handing over of the shot blast machines there shall be backup support at least 15 years as & 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 the shot blast machines

13. **Terms of Delivery & Packing:**

The shot Blast machines will be delivered as per following terms:

- a. The delivery will be on C & F Karachi basis. Freight may be indicated.
- b. Partial shipment within the delivery period will be permitted.
- c. Sea Worthy packing.
- d. Marking and stencilling as per contractual terms and conditions.
- e. Machine parts would be lettered in English and / or internationally recognized symbols.
- f. Shot blast machines are required to be made ready for PSI within 04 to 06 months after confirmation of Contract order.
- g. Dispatch of all 3 x shot blast machines must be ensured within 01 x month after successful completion of PSI and Training.

14. **Literature:**

Literature must be inclusive but not limited to:

- a. 04 x sets of operating manuals
- b. 04 x sets maintenance manuals
- c. Details of electric schematics
- d. PCBs
- e. Brochures of the offered model

15. **Training**

- a. The supplier will provide training to POF personnel at no additional cost to the extent of 04 men for 02 weeks for Shot Blasting of shells 155mm HE & 155mm BB/HB in the field of machine setting, operating of machine, inspection, mechanical, electrical and electronics maintenance related to machine at supplier's and its sub contractor's premises.
- b. Training expenses of POFs personnel, 04 x men for 02 x weeks in the field of operation, maintenance and inspection of the Shot blast machines at Supplier's premises and other relevant production facilities as well. Expenditure including boarding, lodging, return Air Tickets & Daily allowance etc. will be borne by the Supplier.
- c. During stay on site at Purchaser's works, supplier's engineers shall train the concerned production, maintenance, instruments and Inspection personnel for satisfactory & safe use of shot blast machines.
- d. All expenditures including Boarding/ Lodging, Air travels, medical & daily allowances will be borne by supplier.

16. **Pre-Shipment Inspection:**

- a. Supplies shall be subject to Pre Shipment Inspection (PSI) and acceptance by the competent inspection authority comprising of 02 men for 02 weeks nominated by the Purchaser.
- b. Inspection facilities such as tools, test equipment, instruments etc will, however, be provided by the Suppliers in accordance with the relevant specifications.
- c. The supplier shall inform the purchaser when the shot blast machines are ready for dispatch. The shot blast machines will be subjected to pre delivery inspection and trials at supplier's premises in the presence of rep(s) of Purchaser. The shot blast machines should clear the capacity test of the components as mentioned at Para 3/N.

- d. For PSI, input materials / components qty. **80 Shells** (60 x Shells before nosing and 20 x Shells after nosing) will be made available by the purchaser. These Shells will be available from the stock sent for Operation, accuracy checking & inspection of Centre Lathe Machines after overhauling.
- e. The components produced from the input material provided by the purchaser must clear the visual inspection criteria (**Rust, Pits, Graphite, Scales & other marks**) as per requirement / specifications.
- f. The components produced during pre-shipment trials will be returned to the purchaser with the shot blast machines.
- g. The shot blast machines & equipment will be dispatched only after the supplier's receives the pre-delivery trials acceptance certificate issued by the purchaser certifying that the shot blast machines & equipment have qualified the capacity test and components produced have been passed gauging and visual requirements as per relevant drawings.
- h. Rejected Shot blast machines/equipment will be removed and replaced with the acceptable stores by the Supplier at his own expense, within a specified time. The supplier will render warranty / guarantee certificate.

17. **Technical Support**

The supplier shall confirm that after handing over of the shot blast machine there shall be technical support for at least 15 years as and when required by the purchaser. In addition, the purchaser shall keep informed regarding latest advancement in the related technology for further improvement in the production and operations of the shot blast machines.

18. **Installation, Commissioning and Trial Production Run**

- a. The Shot blasting machines shall be installed by the supplier. Needed manpower and services will be provided by POF.
- b. The shot blast machines shall be commissioned and trial production of the machines shall be carried out by supplier's engineers. Purchaser shall provide required number of operators and technicians for the commissioning and trial production of the shot blast machines.
- c. The supplier is to indicate the total man-weeks of his engineers / technicians required for installation, commissioning and trial production of the shot blast machines. 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. The supplier is to indicate the time schedule for the completion of whole project.
- d. The oil, process lubricants and Steel Shots required 1st time for the shot blast machines for one year shall be supplied by the supplier.

19. **Final Acceptance Test (FAT)**

- a. 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 155 mm ammo Shell and other calibers Shells.

- b. The output of each Shot Blasting Machines should meet the criteria as mentioned at Para 3/N. Each Shot Blasting Machines will be trial run for 14 days. The input materials shall be supplied by Purchaser. Detail are as under;

Calibers	Production/ shift 08 Hrs. (Nos.)	Production in 14 days (Nos.)
120mm/122mm	120	120 x 14 = 1680
125mm	100	100 x 14 = 1400
130mm/155mm	70	70 x 14 = 980

- c. The components produced from the input material provided by the purchaser must clear the visual inspection criteria i.e. **(Rusts, Pits, Graphite, Scales & other marks)**. If the specified production of the shot blast machines is not achieved within stipulated period after the effective date of contract, the supplier experts will stay, at supplier cost till the production has been achieved provided such delays are attributable to supplier. Supplier men should stay for 01 week after successful trial run to look after / handle the shot blast machines problems at supplier's expense.
- d. The Spares, Process lubricants and Steel Shots consumed during trial production run will be borne by the supplier. Delay penalty will also be imposed @ 2 % per month of contracted value for the delayed period of achievement of production run of the shot blast machines beyond the schedule date of final acceptance and will be deducted from balance 30% payment connected with production run.
- e. In case, the shot blast machines could not be commissioned by the OEM, the same will be commissioned by utilizing local available expertise at the risk and cost of the OEM.

20. **Acceptance of Offers:**

- a. The right to accept or reject any offer in full or in part is hereby reserved.

b. **Performance Bond:**

The successful bidder will provide Performance Bond at the rate of 10% of F.O.B. value of the contract in favour of CMA (Store) POF Wah Cantt. The Performance Bond will be furnished in the form of Deposit at Call Receipt 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 period of 24 months after the date of expiry of letter of Credit.

If the Performance Bond is not furnished within the a/m prescribed time, the Purchaser reserves the right to cancel the contract and has the right to take risk purchase action.

c. **Payment:**

Payment will normally be made by means of irrevocable letter of credit. Unless otherwise stated 50% payment may be released on submission of despatch documents to Bank along with pre-shipment inspection acceptance certificate from the purchaser while balance 20% payment will be released on receipt of shot blast machines & inspection at site. Remaining 30% payment will be released after installation, commissioning and satisfactory completion of trial run of the shot blast 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.

d. **Arbitration:**

All matters of dispute or difference, except regarding rejection of stores by the inspector and/or cancellation of contract by the purchaser arising out of this agreement between the parties hereto, the settlement of which is not otherwise specially provided for in this agreement, shall be referred for adjudication to two arbitrators, one to be named by each party, who before entering upon the reference shall appoint an umpire by mutual agreements, and if they do not agree a judge of superior court shall appoint the umpire, the arbitration proceedings shall be held in Pakistan under the Pakistan law. The arbitration awards shall be un-spoken.

21. **Warranty Guarantee:**

- a. The shot blast 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 ware-house in presence of supplier's rep (if desired by supplier) at their cost. The supplier shall render Warranty / Guarantee certificate in duplicate to the Purchaser on the enclosed Preformed 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 successful commissioning of the shot blast.
- b. 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.
- c. The supplier shall warranty the good quality of all equipment supplied against all defects or failures due to faulty design, material, or workmanship.
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.