



**GOVERNMENT OF PAKISTAN  
PAKISTAN ORDNANCE FACTORIES  
TENDER ENQUIRY**

To,

M/s \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Dear Sirs,

Reference: **TENDER ENQUIRY NO. 5167-67-FP-CAPT-SJL DATED.11.03.2019**

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 **1200 Hours** on **18-04-2019** at Room No. 01, Bid Center near Rabta Hall POF Wah Cantt and must reach this office on or before **1130 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: **5167-67 -FP-CAPT-SJL**

Tender to be opened on: **18-04-2019**

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 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.

#### 4.2 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.

#### 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 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.

4.4 PAYMENT

Payment will normally be made by means of irrevocable letter of credit. Unless otherwise stated 70% payment will be released on submission of shipping documents while balance 30% payment will be released on successful installation & commissioning of Plant at POF Sanjwal.

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

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.

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,

(Muhammad Arshad)  
Managing Director  
For Pakistan Ordnance Factories

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

Fax:  
Cable:

**SCHEDULE TO TENDER ENQUIRY NO.**

**5167-67-FP-CAPT-SJL**

**POF 1262**

**DATED: 11.03.2019**

**TO BE OPENED ON 18-04-2019**

Sr. No.	Description Of Store	A/U	Qty.	Price Per Unit	Total Price C&F	Delivery Date / Period
1.	Complete Integrated case and Bullet Plant Tooled up for manufacturing of 12.7 x 108mm and 12.7 x 99mm (Brass Cartridge Case) Ammo API / APIT of the following capacity. <b>(Details attached as Annex- A)</b> Primer Manufacturing Line:- <b>(Details attached as Annex-B)</b>	Set	01			

**SPECIAL TERMS & CONDITIONS:**

- a. Payment would be released as per following
  - i. 70% payment will be released on submission of shipping documents.
  - ii. 30% payment will be released on successful installation & commissioning of Plant at POF Sanjwal.
- b. In case pre-shipment Inspection is required to be carried out, Supplier will be bound to bear the charges incurred in air traveling to and fro, boarding/lodging, inland TPT charges, general medical and 30% DA of visiting team.
- c. All Chinese and Hong Kong firms are required to quote prices in Chinese Yuan.

**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 \_\_\_\_\_

Position \_\_\_\_\_

Signature of the Tenderer \_\_\_\_\_

Name \_\_\_\_\_

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.

### **Finished Parts / Store**

The following must be attached with the bid:-

1. It would be confirmed that the drawings & specifications mentioned in the TE would be followed.
2. Specified materials would be utilized.
3. Quality would be as specified.
4. Test data can be made available on request.
5. Any quality issue observed during assembly & use would be addressed.
6. For highlighted quality issues, no rework would be carried out until & unless it is permitted by the buyer.
7. Against reported defects, proper investigation would be carried out and remedial measures notified.
8. Upon request data of similar defects reported in past & remedial measures taken would be presented.
9. No change in design would be carried out.
10. Delivery time would be adhered to.

### **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 along with 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.



**GOVERNMENT OF PAKISTAN  
PAKISTAN ORDNANCE FACTORIES  
TENDER ENQUIRY**

To,

M/s \_\_\_\_\_  
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Dear Sirs,

Reference: **TENDER ENQUIRY NO. 5167-67 -LP-CAPT-SJL Dated 11.03.2019**

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:-

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- 1.1 Tenders will be opened at **1200 Hours** on **18-04-2019** at Room No. 01, Bid Center near Rabta Hall POF Wah Cantt and must reach this office on or before **1130 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- 67 -LP-CAPT-SJL**  
Tender to be opened on: **18-04-2019**  
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 Tenderer 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 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 TE forms or offer received is not 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.

### 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 favor 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 TE.

### 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 favor of General Manager concerned purchase.

**Tenders received without Bid Money shall be rejected.**

5.2 Bid Money of the unsuccessful tenderer will be returned as soon as the scrutiny of the tenders is completed. Bid Money of the successful tenderer 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 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.

6.2 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.

6.3 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

7.1 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 favor of CMA POF Wah Cantt. It will be returned on satisfactory completion of the contract.

7.2 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.

7.3 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.

## 9. PAYMENT

9.1 Payment will be made by the CMA (POF) through crossed cheque on receipt/acceptance of stores on our prescribed bill form supported by receipt voucher on part/full supply basis.

9.2 Payment of duties /Taxes including professional tax (where applicable) must be supported by proof of having paid these to concerned Govt. Taxation Deptt.

10. 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.

11. 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.

Yours faithfully,

(Muhammad Arshad)  
Managing Director  
For Pakistan Ordnance Factories

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

Fax:  
Cable:

**SCHEDULE TO TENDER ENQUIRY NO. 5167-67-LP-CAPT-SJL DATED 11.03.2019**

**TO BE OPENED ON 18-04-2019**

SR. NO.	DESCRIPTION OF STORE	A/U	QTY	PRICE PER UNIT	DELIVERY DATE/PERIOD
1.	Complete Integrated case and Bullet Plant Tooled up for manufacturing of 12.7 x 108mm and 12.7 x 99mm (Brass Cartridge Case) Ammo API / APIT of the following capacity. <b>(Details attached as Annex- A)</b> Primer Manufacturing Line:- <b>(Details attached as Annex-B)</b>	No.	01		

**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 15 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 risk and cost.

Place \_\_\_\_\_

Signature of the Tenderer \_\_\_\_\_

Date \_\_\_\_\_

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.

### **Finished Parts / Store**

The following must be attached with the bid:-

11. It would be confirmed that the drawings & specifications mentioned in the TE would be followed.
12. Specified materials would be utilized.
13. Quality would be as specified.
14. Test data can be made available on request.
15. Any quality issue observed during assembly & use would be addressed.
16. For highlighted quality issues, no rework would be carried out until & unless it is permitted by the buyer.
17. Against reported defects, proper investigation would be carried out and remedial measures notified.
18. Upon request data of similar defects reported in past & remedial measures taken would be presented.
19. No change in design would be carried out.
20. Delivery time would be adhered to.

### **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 along with 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 PLANT & MACHINERY FOR MANUFACTURING OF 12.7 x 108MM & 12.7 x 99MM (BRASS CARTRIDGE CASE)**

**1. Nomenclature:**

Complete Integrated Plant tooled up for manufacturing of 12.7 x 108mm (Brass Cartridge Case) and 12.7 x 99mm (Brass Cartridge Case) Ammo API/APIT, as per specifications.

**2. Capacity:**

Following capacity would be on annual based 2000 working hrs (08 hrs single shift basis).

- |   |   |                   |
|---|---|-------------------|
| i. Case Line                                | : | (05 Million)      |
| ii. Bullet Line                             | : | (05 Million)      |
| iii. Annealing & Cleaning for Case & Jacket | : | (05 Million each) |
| iv. LAP Line                                | : | (10 Million)      |
| a. Bullet Assembly Line                     |   |                   |
| b. Primer Loading                           |   |                   |
| c. Loading & Assembly                       |   |                   |

**3. Case Line:**

Cupping press and case line capable of producing 12.7 x 108mm & 12.7 x 99mm Brass cartridge case, auto gauging and visual inspection machines / equipment would be included in scope of delivery.

**4. Bullet Line:**

i. **Bullet Jacket:**

Bullet Jacket line comprising of Cupping Press, Drawing, Trimming, Forming Presses / machines.

ii. **Steel Core:**

Steel Core complete manufacturing line including Bar Cutting, Grinding, Turning, Heat Treatment and Oiling

iii. **Lead Wire Extrusion & Lead Sheath Forming:**

Lead melting and extrusion press for wire for lead sheath. Lead sheath forming machine and core inserting machine.

**5. Annealing & Cleaning for Case and Jacket:**

- i. For case line inter stage annealing, pickling and washing and drying plant. Body annealing, Mouth annealing and LTA furnace if required.
- ii. For bullet jacket inter stage annealing, decreasing, washing and drying plant.

**6. LAP Line:**

a. **Bullet Assembly Line:**

Multi Station bullet charging, core pressing (final pressing), tapering, turn over, 1<sup>st</sup> sizing, forming and heading & correcting, Canneluring, final sizing, bullet tumbler, Shellac coating machines, colouring, gauging, weighing and visual inspection machine / equipment.

b. **Primer Loading:**

Feeding and locating of empty caps, Filling of composition, Pre-pressing of composition, Disc placing and Final pressing of composition, Tumbling and Gauging. Detail attached as Annex-B.

c. **Loading & Assembly:**

Primer inserts ringing, varnishing, Loading and assembly plant for 12.7 x 108mm & 12.7 x 99mm ammo. The plant should also include gauging, weighing & visual inspection machines / equipment.

**7. Safety:**

- All Plants/Machinery should be equipped / provided with all safety gadgets / accessories according to latest safety standards.
- Noise level: less than 85 db, for all plants/machinery.
- Loading & Assembly line also must be equipped with vacuum cleaning system to remove powder dust.

**8. Misc:**

- The Plant should be cost effective and environmental friendly.
- System should be safe to handle spikes and surges.(Transient)
- A/Cs should be installed in panel/system (where necessary).

**9. Input & Support Materials:**

Plant should be capable of producing Ammo/Component using following materials as per attached specifications.

- i. Brass disc 70/30 as per specification DEF-STAN-95-9 / issue-2 type A.
- ii. Gilding Metal clad strip (GMCS) in coils as per specification DEF-STAN-95-11/1.
- iii. Steel Rod Round for Steel Core.
- iv. Lead Antimony Alloy to Spec. PB1-4(GB469-64).
- v. Primer:
  - 12.7 x 108mm (Berdan Type)
  - 12.7 x 99mm (Boxer Type)
- vi. Propellant. Single base cylindrical type.

**10. Tooling:**

- i. The plant should be supplied tooled up for production of 12.7 x 108mm Ammo API/APIT components.
- ii. Flexibility for tooled up for production of 12.7 x 99mm.
- iii. Tooling sufficient for 02 x years (4000 working hrs) production.
- iv. Quick change over of tooling is to be ensured.

**11. Spares:**

- i. 02 x years essential maintenance and operation spares.
- ii. Backup support for provisioning of spares for 15 x years.

**12. Climatic Conditions:**

- a. Temperature:
  - a. Winter = -5 to + 20 °C
  - b. Summer = 30 to 50 °C
- b. Relative Humidity = 25 to 90%
- c. Earthquake Value = 8.5 on Richter scale

**13. Utilities Available at Site:**

- a. Electricity 400 Volts, 50 Hz, Three Phase. } ± 10% in contingency conditions.
- b. Electricity 220 Volts, 50 Hz, single Phase.
- c. Steam 05 bar.
- d. Compressed air pressure = 6 bar (Max).
- e. Natural gas – Available.

**14. Backup Service Support:**

The supplier shall confirm that after handing over of the plant there shall be backup support at least 15 x 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 plant.

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

The goods will be delivered as per following terms:

- i. The delivery will be on C & F Karachi basis. Freight may be indicated.
- ii. Partial shipment within the delivery period will be permitted.
- iii. Sea Worthy packing.
- iv. Marking and stencilling as per contractual terms and conditions.

**16. Training:**

- i. The supplier will provide training to POF personnel at no additional cost to the extent of 35 men months (including project monitoring team) for 12.7 x 108mm & 12.7 x 99mm Ammo Manufacturing Plant in the field of tool setting, operating of machine, inspection/proofing, mechanical, electrical and electronics maintenance related to machine at supplier's and its sub contractor's premises and other relevant production facilities as well.
- ii. All expenses of **35 Buyer's personnel** including Air travel from and to Pakistan, boarding, lodging medical and inland travel will be at the supplier's account. Daily Allowance of **35 Buyer's personnel** will also be borne by the supplier.
- iii. During stay on site at purchaser's works, supplier's engineers shall train the concerned maintenance, instruments, production, tool designing and inspection/proofing personnel for satisfactory & safe use of plant/equipment.

**17. Pre-Shipment Inspection:**

- i. Supplies shall be subject to Pre Shipment Inspection (PSI) and acceptance by the competent inspection authority comprising of 10 men months nominated by the purchaser.
- ii. Inspection facilities such as tools, test equipment, instruments etc will, however, be provided by the Suppliers in accordance with the relevant specifications.
- iii. The supplier shall inform the purchaser when the plant/machines are ready for dispatch. The plant/machines will be subjected to pre delivery inspection and trials at supplier's premises in the presence of rep(s) of purchaser. The plant/machines should clear the capacity test of the components as mentioned below within the specified time (08 hours single shift basis):

**12.7 x 108mm & 12.7 x 99mm Ammo**

<i>Case</i>	-	<i>20,000 per day for 06 working days</i>
<i>Bullet</i>	-	<i>20,000 per day for 06 working days</i>
<i>Loading &amp; Packing</i>	-	<i>40,000 per day for 03 working days</i>

- iv. For PSI, input materials/components/gauges will be provided by the purchaser except filled primer and propellant which will be arranged by the supplier. The components produced from the input material provided by the purchaser must clear the gauging, visual and proofing requirements as per relevant specifications. The components/webbing produced during pre-shipment trials will be returned by weight to the purchaser with the Plant.
- v. The plant/machines & equipment will be dispatched only after the supplier's receives the pre-delivery trials acceptance certificate issued by the purchaser

certifying that the plant/machines & equipment have qualified the capacity test and components produced have been passed gauging, visual, proofing and other relevant tests as laid down in the relevant specifications.

- vi. Rejected Plant / 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 as per Annex-D.

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

- i. The plants shall be installed by the supplier. Needed manpower and services will be provided by POF.
- ii. The plant shall be commissioned and trial production of the plant 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 plant.
- iii. The supplier is to indicate the total man-weeks of his engineers / technicians required for installation, commissioning and trial production of the plant. 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.
- iv. The oil and process lubricants required 1<sup>st</sup> time for the plants for one year shall be supplied by the supplier.

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

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 12.7 x 108mm ammo at the quoted capacity as mentioned below within the specified time:

##### **12.7 x 108mm Ammo**

<i>Case</i>	-	<i>20,000 per day for 25 working days</i>
<i>Bullet</i>	-	<i>20,000 per day for 25 working days</i>
<i>Loading &amp; Packing</i>	-	<i>40,000 per day for 12 working days</i>

- i. The ammo so produced should conform to the standards / criteria laid down in the specification.
- ii. If the specified production of the plant 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 03 months after successful trial run to look after / handle the plant problems at supplier's expense.
- iii. The tooling and process lubricants consumed during trial production run will be borne by the supplier.
- iv. Delay plenty will also be imposed @ 1 % per month of contracted value for the delayed period of achievement of production run of the plant beyond the schedule date of final acceptance and will be deducted from balance 20% payment connected with production run.
- v. In case the plant 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. Literature:** Literature must be in English language inclusive but not limited to:

- i. 04 x sets of operating manuals.
- ii. 04 x sets maintenance manuals.
- iii. Details of electric schematics.



- iv. PCBs.
- v. Brochures of the offered model.

**Annex-B**

**TECHNICAL SPECIFICATION OF PLANT FOR ENHANCEMENT OF CAPACITY UP  
TO 10 M FOR PRIMER**

Requirements for primer manufacturing line are as under:

**Nomenclature**

Plant comprises of equipment, machines & accessories to prepare Primer composition PH-1, primer charging and loading.

- 2. **Capacity.**  
10 million per annum based on single shift 2000 hr (40,000 Components/  
hrs shift). 08
- 3. **Technical Requirement.**
  - a. **Detail of PH-1 composition is as follows:-**
    - i. Lead Styphnate            41 %
    - ii. Barium Nitrate            42 %
    - iii. Tetrazine                 2 %
    - iv. Lead per oxide            5 %
    - v. Calcium Silicide         10 %The above is prepared by dry method.
  - b. **Equipment for Preparation of Composition.**  
Equipment required for preparation of above composition at the rate of 8.5 Kg per  
day/8 hr by dry method as per detail given below would be required:-
    - i. Weighing Scales ( Electronic)
    - ii. Antistatic Kits
    - iii. Auto mixing Machine/apparatus for above ingredients
    - iv. Sieving and Grinding Machine for Barium Nitrate
  - c. **Equipment for Preparation of Lead Styphnate.**  
Equipment requirement for preparation of Lead Styphnate @ rate 2.5 Kg per day/8 hr  
would be needed:
    - i. Weighing scales (Electronics).

- ii. Measuring Vessels with stirrer for preparation of pre solutions.
  - iii. Measuring vessel for lead nitrate solution.
  - iv. Water jacketed Pan with Stirrer and temperature control gauge with accessories for preparation of Lead Styphnate from pre solutions.
  - v. Vacuum pump for water sucking from Wet Lead Styphnate
  - vi. Microscope
  - vii. Water Distillation unit.
- d. **Equipment for Drying & Sieving of Lead Styphnate.**  
Equipment requirement for Drying and Sieving of Lead Styphnate is appended below:
- i. Drying and sieving unit with accessories
  - ii. Antistatic Kits and trays for placing of Lead Styphnate.
- e. Equipment for neutralization/disposal of Lead Styphnate contaminated water/waste as per requirement.
- f. **Charging of Primer Cup**  
Equipment for charging of Primer Cup with Composition as per detail mentioned below:
- i. Shellacking apparatus for Primer Cup internally.
  - ii. Dryer (for Drying of shellacked primers).
  - iii. Dryer (for Drying of shellacked Tin foil sheet).
  - iv. Press (Tin foil Disc Cutting)
  - v. Primer Holding Plates.
  - vi. Filling Apparatus (Composition in Primer Cups at the rate of 0.110 g to 0.125 g per primer)
  - vii. Press with punches and Punch Holding Device  
(For pre- pressing composition in cups)
  - viii. Press with punches and Punch Holding Device.  
(For final pressing and assembly of Disc with filled cup)
  - ix. Ejection apparatus.
  - x. Tumbling Machine.
  - xi. Equipment for measuring/Gauging Crown of composition.

POF has sufficient capacity for production of Tetrazine and Styphnic Acid so separate plant for the same is not required.