



Government of Pakistan  
PAKISTAN ORDNANCE FACTORIES  
TENDER ENQUIRY

Reference: **TENDER ENQUIRY NO. 2500/FP/CAPT/S.PRESS/BM, Dated 29 -09-2020**

You are requested to submit sealed quotations for the item (s) noted on the Schedule to the Tender. Please note the following instructions for filling the tender:-

1 **SUBMISSION OF TENDER.**

1.1 Tenders will be opened at 1200 hours on **16-11-2020** and must reach **at Bid Centre adjacent to Rabita Hall** at least half an hour earlier than the opening time. The tender received late will not be entertained. You may witness the opening of the tender if you so desired. If a representative is deputed, he should bring a letter of authority from Principal/OEM.

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

Tender Enquiry No: **2500/FP/CAPT/S.PRESS/BM,**

Tender to be opened on: **16-11-2020**

Address as follows:-

**BID CENTRE, ADJACENT TO RABITA HALL**  
**MD-SAA & BM**  
**POFs Wah Cantt.**  
**PAKISTAN.**

1.3 If envelope do not indicate reference of T.E or received late, the same will be returned unopened.

1.4 **Tendering procedure vide PPRA Rule No. 36(b) i.e. Single Stage two envelopes will be applicable.**

**GENERAL INSTRUCTIONS REGARDING PREPARATION OF QUOTATIONS.**

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

**Part I “Technical Offer”:** It should exclusively give technical details and literature/ 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 envelope should be inscribed with: Part I “Technical Quotation without Price” and Part II “Commercial Quotation with Price”.

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

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

2.4 In the event of non-acceptance of offer, no intimation will be given to the bidders.

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

2.6 All spare Parts/tooling/equipments required for overhauling of the Extrusion Press should be supplied at site i.e CPT Wah Cantt basis. All expenses on account of dispatch of goods from company/Supplier ware house to Karachi port/Islamabad Airport, clearance from port authorities and further arrangement for delivery up to POF Wah Cantt will be borne by the OEM/Supplier. 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 separately.

2.7 Submission of the offer through an agent in Pakistan should be avoided. In case it is considered inevitable, the original proforma invoice must invariably accompany the agent’s quotation from the principals/manufacturers.

**2.8 Country of origin and port of shipment must be stated.**

2.9 Declaration form as per **Annex-‘E’** is required to be submitted by the supplier.

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

2.11 If the requisite information is not furnished on the T.E form or offer received is not in conformity with the requirement of T.E, such offer shall be ignored.

### 3 **BID QUALIFICATION CRITERIA.**

#### 3.1

- i. Detail of infrastructure available with the OEM/Supplier. Mention test equipment, standard and qualification criteria.
- ii. Detail of engineering expertise with qualification and experience.
- iii. Standard followed for overhauling/retrofitting of machine e.g. ISO, DIN, BS, ASTM, or other.
- iv. OEM/Supplier's experience on retrofitting/overhauling projects performed in Public Sector Organizations (list of similar projects for the last 05 years be attached).
- v. No. of successful retrofitting project completed by OEM/Supplier in POF.
- vi. OEM/Supplier's capability to perform complete overhauling i.e. mechanical, electrical/electronic, hydraulic, pneumatic etc.
- vii. OEM/Supplier's financial worth & detail of stake holders.
- viii. Detail of firm's foreign principal, level of partnership, authorization/collaboration & suppliers/brands.
- ix. Country of origin of each supplied equipment/part/item/accessories.
- x. Confirmation of firm's capability to import spare parts from OEM/Foreign supplier of genuine parts (mechanical, hydraulic and pneumatic).
- xi. Technical back up support and after sale services (24/7) in Pakistan.
- xii. Reliability of overall machine with regards to control system.

3.2. The right to accept or reject any offer in full or in part, is hereby reserved. However, reasons for rejection of the offers will be intimated, if so desire by the OEM/Supplier.

### 4. **INSPECTION.**

- 4.1 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.
- 4.2 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.

### 5 **PERFORMANCE BOND.**

- a) The supplier will provide a performance bond/bank guarantee to the tune of 10% of total value of contract on the prescribed proforma attached as **Annex 'G'** for satisfactory execution of the order. It shall be covered 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 Bank Guarantee shall be furnished by the Supplier within 45 days from the date of opening of letter of credit (L.C.). The Bank Guarantee will be valid for a period of 12 months after the date of expiry of letter of credit. If delivery period is extended, the Supplier shall arrange the extension of Bank Guarantee within 30 days from the date of amendment of L.C. if the Guarantee is not revalidated the same is liable to be encashed by the CMA (POF) Wah Cantt.

- b) If the Supplier fails to furnish the Bank Guarantee within specified period, the Purchaser reserves the right to: -
- i) Impose penalty @ 1% per month (or part the month) of the total value of CDR / BG, reckoning from the date of expiry of 45 days period (from the date of establishment of LC) recoverable from OEM/Supplier's payment out of LC amount or through direct remittance by OEM/Supplier to POF's account separately. However, PBG will be released to the OEM/Supplier on recovery of penalty amount.
  - ii) Cancel the contract and make other arrangements for purchase of the stores at the risk and expenses of the Supplier.
- c) In the event of un-satisfactory performance or any breach of the contract, Bank Guarantee shall be forfeited by the Purchaser. The Bank Guarantee will be returned to the Supplier by CMA (POF) Wah Cantt on request after its expiry or after satisfactory performance of the contract whichever is earlier.

## 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 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; or, to purchase from elsewhere, the unsupplied stores at the risk and cost of the Supplier.

## 7. **PAYMENT.**

Payment to the supplier will be made through irrevocable letter of credit (L.C) as per following terms and conditions:

- i) 20% advance payment will be made for purchasing of tooling/spare parts and equipments against presentation of bank guarantee of equal amount (20% of total contract value) as per prescribed format attached as **Annex 'H'** which shall remain valid for period of 02 months from the date of receipt of all tooling/spare parts and equipments at POF Wah Cantt. The 20% advance bank guarantee shall be released by purchaser immediately after its expiry date.
- ii) 50 % payment will be made on the shipment of the tooling/spare parts and equipments and presentation of shipping documents to the bank.

- iii) Balance payment i.e.30% of contract amount will be released after successful installation, commissioning, trial run / final acceptance test and training of consignee's personnel at POFs Wah Cantt and issuance of final acceptance certificate by the purchaser/consignee in this regard.
- iv) Payment terms will be subject to the acceptance / negotiations with the Supplier.
- v) All Bank charges incurred in Pakistan in connection with the establishment of L.C will be borne by the Purchaser whereas, all Bank charges outside Pakistan incurred in connection with receipt of payment including confirmation of L.C. by the advising Bank/Foreign Bank will be borne by the Supplier.

8. **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.

9. **SECURITY OF INFORMATION.**

The tenderers 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 WIL 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.

10. **WARNING:**

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

**NOTE:**

Offers/Bids through **Email & Fax** are not acceptable. The Offers/Bids must be submitted on OEM/Supplier's original letter head/ pad through **Mail/Air Couriers**.

(Munawar Ahmed)  
**MD-SAA & BM**  
POF WAH CANTT.

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Phone No.	Exchange:	i. 051-9055000 ii. 051-4514000	Direct:	051-905521171
<b>Fax:</b>		i. 051-9271400 ii. 051-9314100	<b>Email:</b>	mdsaa@pof.gov.pk

**Address:** MANAGING DIRECTOR- -SAA& Brass Mills, Pakistan Ordnance Factories,  
Wah Cantt. Pakistan.

**PAKISTAN ORDNANCE FACTORIES WAH CANTT**

SCHEDULE TO TENDER NO. 2500/FP/S.PRESS/BM, Dated: 29-09-2020

**Due on 16-11-2020**

**(1) For Plant & Machinery:**

**“OVERHAULING/RETROFITTING OF EXTRUSION PRESS-CXT  
1250P TO ITS ORIGINAL WORKING CONDITION.”**

**(2) Specifications:-** As per attached ‘Annex-A’

**(3) Special Conditions:**

- The bids must be based on firm prices and not on any price adjustable formula.
- Proforma Invoice of the principal in original signed and stamped by the principal along with authorization certificate in case of any local agent in Pakistan.
- It is not allowed to submit more than one offer through different local agents.
- The Bidder shall submit two (2) copies of the technical bid, one of which shall be marked the “Original “and the other “Copy”. Financial Bid is required in original only.
- The bidder will also provide detail of cases, which are under process with Govt. & Non-Govt. organization of Pakistan. Also intimate the worldwide business detail, experience, and detail of similar plant supplied worldwide.

**(4) Undertaking:**

Should our offer be accepted, we hereby undertake to supply the stores/render the services contracted on the basis of Conditions of Contract embodied in Form POF 1282, and to deposit the 10% 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 \_\_\_\_\_

Income Tax G.I.R. No. \_\_\_\_\_

**TECHNICAL SPECIFICATION & DETAIL OF PLANT / MACHINERY**

1. **NOMENCLATURE: OVERHAULING/RETROFITTING OF THE EXTRUSION PRESS CXT 1250P-C-01-BM TO ITS ORIGINAL WORKING CONDITION.**
2. **SCOPE OF WORK:**
  - i. Technical team of the OEM/Supplier will examine the existing plant and prepare inspection report to identify and establish current working conditions / performance parameters (accuracy level, hydraulic, pneumatic, static, rotary & other installed equipments/units, etc.) of the plant. Inspection report will be finalized / mutually agreed and signed between supplier and the purchaser. **In case of failure in overhauling / retrofitting of the plant, the OEM/Supplier will be bound to retrieve same working condition and performance parameters as agreed in inspection report.**
  - ii. The OEM/Supplier will carry out a complete study of the existing scope of work already described in the attached **Annex “B”**. Subsequently the scope of work will be finalized and mutually agreed between the supplier and the purchaser.
  - iii. All type of testing i.e. non-destructive tests for structures, fatigue, performance for equipments and crack detection for rigid structures etc, required to finalize the inspection report and scope of work for technical proposal, will be performed by the supplier. OEM/Supplier will also carry out testing for measurement of performance parameters of all retrofitted / upgraded / replaced installed equipments/parts assemblies/sub-assemblies of the plant necessarily required during installation and commission to ensure the desired production run stated at clause 14.iii. (Page # 11 of 23)
  - iv. OEM/Supplier will provide quality certificates and testing reports of new equipment and existing plant from their OEMs according to international standards.
  - v. Supplier will share complete project execution plan including details of new parts, assemblies and sub-assemblies to be replaced or rectified.
  - vi. Important features regarding scope of work are attached as **Annex “B”**.
3. **REQUIREMENTS:**
  - All the functions/movements of Extrusion Press from input material to final size should be fully automatic as well as manual.
  - Centralized lubrication.
  - All Electrical / Electronic controls should be PLC based.
  - Operational control should be simple & fully automatic.
  - All Plants/Machinery should be equipped / provided with all safety gadgets/accessories according to latest international safety standards.
  - Noise level: less than 85 db or as per international standards, for all plants/machinery.
  - The Plant should be cost effective and environmental friendly as per international standards.
  - System should be safe to handle spikes and surges. (Transient)
  - A/Cs should be installed in Electrical/Electronic Panels (where necessary).



**4. INPUT & SUPPORT MATERIALS:**

Copper, Copper based alloys (round Ingots).

- i) **Ingot Size 150mm:**
  - 150mm  $\pm$  5mm (Dia) X 500mm  $\pm$  10mm (Length)
  - 150mm  $\pm$  5mm (Dia) X 300mm  $\pm$  10mm (Length)
  - 150mm  $\pm$  5mm (Dia) X 250mm  $\pm$  10mm (Length)
  - 150mm  $\pm$  5mm (Dia) X 200mm  $\pm$  10mm (Length)
- ii) **Ingot Size 185 mm:**
  - 185mm  $\pm$  5mm (Dia) X 500mm  $\pm$  10mm (Length)
  - 185mm  $\pm$  5mm (Dia) X 250mm  $\pm$  10mm (Length)
  - 185mm  $\pm$  5mm (Dia) X 200mm  $\pm$  10mm (Length)

**5. ORIGINALLY DESIGNED OUTPUT PRODUCTS PARAMETERS:**

- i. Wire dia 06mm to 18.5mm
- ii. Rod dia 19 to 65mm
- iii. Tube Inner dia=20mm to Outer dia=90mm & wall thick 3mm Min. (Eccentricity  $\pm$  10 %)
- iv. Various type of sections equal to maximum cross-sectional area of rods.

Details of dimensions, tolerances and specifications are attached as **Annex “C”**

**6. OUT PUT CAPACITY:**

No. of Ingots to be Extruded= 320 to 400 Nos. - Based on 8 working hours/Single Shift basis.

**7. DOCUMENTATION:**

- i. Operation, maintenance, service manual in English language 03 x sets (soft + hard copy).
- ii. Complete Electrical, Electronics, Pneumatic and Hydraulics drawings 03 x sets (soft + hard copy).
- iii. In case of alteration/replacement in mechanical parts/unit, OEM/Supplier to ensure provisioning of updated drawings 03 x sets (soft + hard copy).
- iv. **Provision of PLC program with troubleshooting laptop (hp x 360 G5 with Intel Core i9-8950HK)**

**8. SPARE PARTS & TOOLS:**

- i. The Existing tooling of the plant should be used for the production of copper, copper base alloys, Tube, Rods, Wires and Sections as described in clause # 5.
- ii. Operation & Maintenance Spares, sufficient for two years production shall also be supplied by the supplier.
- iii. It shall be guaranteed that spares shall be available for at least 10 years after successful installation / commissioning.

9. **CLIMATIC CONDITIONS:**

- i. Temperature:
  - Winter = - 3 to + 20 °C
  - Summer = 30 to 50 °C
- ii. Relative Humidity = 25 to 90%
- iii. Earthquake Value = 7.5 on Richter scale

10. **UTILITIES AVAILABLE AT SITE:**

- i. Electricity 400 ± 5% Volts, 50 Hz, Three Phase. }
  - ii. Electricity 220 ± 5% Volts, 50 Hz, single Phase. }
  - iii. Compressed air pressure = 6 bar (Max)
  - iv. Natural gas - Available
- } In contingency situation  
fluctuation is ±10 %.

11. **TECHNICAL SUPPORT:**

The supplier shall confirm that after handing over the upgraded system there shall be technical support for at least 10 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 & operation of the machine/Extrusion Press.

12. **TERMS OF DELIVERY:**

**The equipments/tooling and spare parts necessary for Overhauling / Retrofitting. will be delivered by supplier through courier service/by Air/Sea Shipment at purchaser premises before start of refurbishment at his own arrangements.**

- i. **Partial shipments within the delivery period will be permitted.**
- ii. **Machine parts would be lettered in English or internationally recognized symbols.**

13. **TRAINING:**

During stay on site at purchaser's premises, supplier's engineers will train the concerned production, maintenance, programming and instruments personnel on Mechanical, Control, Electrical/Electronic systems and PLC program for satisfactory & safe use and maintenance of plant. **Experts of supplier will train the operators and maintenance staff during installation /commissioning and after final trial run for one month free of cost at their own expenses to enhance competency of workforce.**

#### 14. INSTALLATION, COMMISSIONING AND TRIAL PRODUCTION RUN:

- i. The equipment of the machine shall be installed by the supplier at purchaser's premises in presence of purchaser's engineers and technicians/operators.
- ii. Supplier will provide machine accuracy data/ standards used to check a complete assembled plant during commissioning. Supplier will carryout performance and geometrical tests of plant after complete assembly of new equipment according to specifications/ standards to check performance and plant accuracy.
- iii. The plant shall be commissioned and trial production shall be carried out by supplier's engineers. Purchaser shall provide required number of technicians and operators for the commissioning and trial production of the plant. Trial production run will be carried out on following terms and conditions.
  - a. Production of wire/coils for 04 x working days (8 x hours/day), No. of Ingots to be Extruded = 320 to 400 No of ingots (8 x hours/day).  
Sizes ranging from 06.0 mm to 18.5 mm.
  - b. Production of Rods for 04 x working days (8 x hours/day), No. of Ingots to be Extruded = 320 to 400 No of ingots (8 x hours/day).  
Sizes ranging from 19.0 mm to 65.0 mm
  - c. Production of Tubes for 04 x working days (8 x hours/day), No. of Ingots to be Extruded = 320 to 400 No of ingots (8 x hours/day).  
Sizes ranging from Tube Inner dia=20mm to Outer dia=90mm & Wall thick 3.0mm Min.  
(Input material/Ingot sizes are already mentioned at Sr. 4 (i and ii))
- iv. All the products manufactured during trial production run must qualify the quality standards/tolerances as mentioned in clause # 5 and **Annex - C**.
- v. **If the OEM/Supplier fails to achieve successful Overhauling / Retrofitting of plant, the OEM/Supplier will be bound to return the machine/Extrusion Press on existing status/working conditions as chalked out before dismantling. In case, the OEM/Supplier fails to return the plant at existing status/working conditions, then the plant will be repaired from any other source and all expenditure in this regard will be borne by the OEM/Supplier.**
- vi. 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, hotel expenditures air travel and daily allowances of the engineers/ technicians will be borne by the supplier. However Local transportation, pick & drop from and to airport will be arranged by the purchaser.
- vii. The supplier is to indicate the time schedule with activity charts for the completion of whole project.
- viii. Oil and process lubricants for 1<sup>st</sup> time and for one year production will be provided by the supplier free of cost.

#### 15. FINAL ACCEPTANCE TEST

Final acceptance test will be performed at purchaser's premises. This test will be carried out with the technical assistance of the supplier and will comprise successful manufacturing of jobs/ parts according to drawings / POFs specification.

The jobs/ parts manufactured after Overhauling / Retrofitting. should confirm to the standards/criteria laid down in relevant drawings/Spec. The machine/press should maintain the quality/ accuracy after the Overhauling.

- 15.1 Acceptance certificate will be issued by the purchaser, certifying that the plant & equipment have qualified dimensional, gauging, visual and other relevant tests of jobs / parts. Detail of final acceptance test is mentioned in **Annex D**.
- 15.2 Where considered necessary by the purchaser, the stores may be obtained on warranty / Guarantee, subject to inspection on receipt. Rejected stores will be replaced with the acceptable stores by the Supplier at his own expense within specified time. The supplier will render warranty guarantee certificate.
- 15.3 In case of failure in overhauling/retrofitting of the plant by the OEM/Supplier. OEM/Supplier will be bound to restore the press to its previous working parameter/condition as describe in clause # 2.i. All the expenditure will be borne by OEM/Supplier in such case.
- 15.4 If specified Overhauling/retrofitting of the plant could not be achieved within stipulated time period after the effective date of contract, the supplier's experts will stay, at supplier's cost until the completion of Overhauling, provided such delays will be attributable to supplier.
- 15.5 During stay on site at purchaser's premises, supplier's engineers shall train the concerned production, maintenance, instruments and Inspection personnel for satisfactory & safe use of equipment.
- 15.6 Delay penalty 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 30% payment connected with final acceptance/production run.

**16. WARRANTY GUARANTEE:**

- i. The machine equipment's 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 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 Performa attached as **Annex-"F"** as soon as stores have been dispatched/ delivered. This Warranty/Guarantee shall be binding on the Supplier for a period of 24 months reckoning from the date of commissioning of the machine.
- ii. 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.
- iii. The supplier shall warrant 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.

**SCOPE OF WORK****EXTRUSION PRESS SKODA CXT-1250P**

<b>MECHANICAL/HYDRAULIC</b>					
<b>S.No.</b>	<b>PART DESCRIPTION</b>	<b>SIZE</b>	<b>QTY</b>	<b>CURRENT STATUS</b>	<b>WORK REQUIRED</b>
1.	Thrust Rod	--	01	Variation in Wall thickness of tubes due to misalignment	Re-alignment
2.	Piercing Ram	--	01		
3.	Container	--	01		
4.	Die Holder	--	01		
5.	Billet Loader	--	01		
6.	Piercing Ram	Dia: 320 mm	01	Oil leakage	Repairing/ Replacement
7.	Main ram	Dia:750 mm	01	Oil leakage/ Scratches	
8.	Main Ram Packing	--	01 set		Replacement
9.	Piercing Ram Packing	--	01 set		
10.	Draw Back Packing	--	04 set		
11.	Excentra Pump	--	02		Replacement/Overhauling
12.	Base Slide Plates of Container	Drg. No. HY002791	02		Replacement/Repairing
13.	Base Slide Plates of Main Ram	Drg. No. HY002791	02		
14.	Hydraulic Cylinder of Saw	Press saw Drg. No. HY 002727	02		Replacement
15.	All DCVs of Main Hydraulic station	Single Solenoid DCVs	25		
		Double Solenoid DCVs	06		
16.	Die Holder Bushes	Rotary Die Head Drg. No.002760			
17.	Low Pressure Pumps (Gear Pump) G6 & G7	Flow Rate: 63 Ltr/Min	02		Replacement/Overhauling

18.	Container Liners	Bore Size: 155 & 185 mm	04		Replacement
19.	Container Sleeves	--	04		
20.	Billet loaders sliding plates	Drg. No. HY 002785	02 set		Replacement/Repair
21.	Hydraulic cylinders of Billet Loader	Drg. No. HY 002785	02		
22.	Auxiliary Pump	Hydraulic Power Unit 16 Ltr/Min. Pressure: 32 Mpa (TGL10868)	02		Replacement/Overhauling
23.	Hydraulic Cylinders of Auxiliary Press	Drg. No. HY003429	01		Replacement
24.	Filling Valve	HY 001970/a	01		
25.	Pressure Switches Assembly	002028/3	03		
26.	Pressure Gauges	104803/1	13		
27.	Mandrel Cooling System	002740/1	01		Replacement/Overhauling
28.	Speed Indicator	Hy 003581	02		Replacement
29.	Pad Shifting System	--	02		Replacement/Overhauling
30.	Hydraulic piping of Hydraulic station	--	--		Replacement
31.	Hydraulic piping of Auxiliary Station	--	--		
32.	Hydraulic piping of Billet Loading station	Drg. No. HY 002785	--		

<b>ELECTRICAL / ELECTRONICS</b>					
<b>S.No.</b>	<b>PART DESCRIPTION</b>	<b>Location</b>	<b>QTY</b>	<b>CURRENT STATUS</b>	<b>WORK REQUIRED</b>
1.	Control system based on logic cards (Relay Logic).	--	--	Logic Cards and control instruments repaired multiple times	Existing obsolete control system should be replaced with PLC based system including all control instruments.
2.	Coiler /unloading unit	--	01	Synchronization problem	
3.	Induction furnace	--	03	Induction coils repaired multiple time	Replacement
4.	Three Phase Motor 300 KW.	Double Excentra Pump Drive	01	--	Replacement

5.	Three Phase Motor 160 KW.	Single Excentra Pump Drive	01	--		
6.	Three Phase Motor 22 KW.	Excentra Filling Pump Drive	01	--		
7.	Three Phase Motor 22 KW.	Oil Cooling Pump Drive	01	--		
8.	Three Phase Motor 11 KW.	Low Pressure Pump 6 Drive	01	--		
9.	Three Phase Motor 11 KW.	Low Pressure Pump 7 Drive	01	--		
10.	Three Phase Motor 11 KW.	Low Pressure Pump 8 Drive	01	--		
11.	Three Phase Motor 10 KW.	Repumping Pump Drive	01	--		
12.	Three Phase Motor 10 KW.	Adjusting Nuts Drive	01	--		
13.	Three Phase Motor 1.1 KW.	Lubrication Set 80 TI-N Drive	01	--		
14.	Three Phase Motor 0.55 KW.	Closing Valve Drive	01	--		Replacement
15.	Three Phase Motor 2.2 KW.	Piercing Cooling Pump Drive	01	--		
16.	Three Phase Motor 2.2 KW.	Draw in Pump Drive	01	--		
17.	Three Phase Motor 18.5 KW.	Press Saw Drive	01	--		
18.	DC Motor 13 KW, 440V, 33A (Separate Excitation 220/110V, 3-6A)	Winder Drum Drive	01	--		
19.	DC Motor 3.3 KW, 440V, 9A (Separate Excitation 220/110V, 1.65-2.3A)	Run Out Conveyer Drive	05	--		
20.	Three Phase Motor 0.75 KW.	Chip Transport Device Drive	01	--		
21.	Three Phase Motor 1.5 KW.	Press Saw Exhausting Drive	01	--		

**NOTE:**

Any other work required for overhauling of Press may be added as per recommendations of OEM/Supplier.

**Details of products required to be manufactured with sizes and tolerances. Products manufactured during final trial run must qualify the quality standards mentioned below.**

<b>Sizes with specifications for 155 mm Container</b>						
<b>Sr. #</b>	<b>Size</b>	<b>Specification of Ingots</b>	<b>Sr. #</b>	<b>Size</b>	<b>Specification of Ingots</b>	<b>Container size</b>
<b>Coils</b>			<b>Round Rod</b>			
1.	6.0mm ± 0.08mm	BS-2874, CZ-122 BS-2874, CZ-124 Def-stan 95-9/II Def-stan 13-95/I BS-2874, CZ-122 BS-1036 YB-457-64 (H-68) BS-2874, CZ-122 IU-921211 Def-stan 95-9/II	1.	18mm ± 0.15mm	BS-2874, CZ-121 BS-2874, CZ-122	155mm
2.	8.20mm ± 0.08mm		2.	18.5mm ± 0.16mm		
3.	9.20mm ± 0.08mm		3.	18.30mm ± 0.16mm	YB-457-64 (H-68) BS-2874, CZ-122	
4.	10.20mm ± 0.15mm		4.	19.80mm ± 0.16mm		
5.	10.70mm ± 0.15mm		5.	20.64mm ± 0.16mm	BS-2874, CZ-124	
6.	11.20mm ± 0.15mm		6.	21.10mm ± 0.16mm		
7.	12.30mm ± 0.15mm		7.	23.8mm ± 0.16mm	BS-2874, CZ-124 YB-451-64	
8.	14mm ± 0.15mm		8.	24mm - 0.16mm	BS-2874, CZ-122	
9.	15.25mm ± 0.15mm		9.	25.4mm + 0.16mm		
10.	15.50mm ± 0.15mm		10.	27mm ± 0.16mm	BS-2874, CZ-124	
11.	16.25mm ± 0.15mm		11.	28.2mm ± 0.16mm		
12.	17.25mm ± 0.15mm		12.	32mm ± 0.2mm		
<b>Sr.#</b>	<b>Special Section/Profile Rods</b>	<b>Specification of Ingots</b>	13.	33.3mm ± 0.2mm	BS-2874, CZ-122 IU-921211	
1.	Rotor SK/T-297	BS-2874, CZ-124 BS-2874, CZ-121 BS-2874, CZ-122 IU-921211	14.	36.5mm ± 0.2mm		
2.	Rotor SK/T-526		15.	38mm ± 0.2mm		
3.	Shutter 26/T-17342		16.	38.1mm ± 0.2mm		
4.	Shutter 26/T-17343		17.	39.6mm ± 0.2mm	BS-2874, CZ-121 (4Pb) IU-921211	
<b>Sr.#</b>	<b>Hexagonal Size</b>	<b>Specification of Ingots</b>	18.	40mm ± 0.2mm	BS-2874, CZ-122 IU-921211	
1.	11.11mm(A/F) ± 0.05mm	BS-2874, CZ-124	19.	45mm ± 0.2mm		
2.	16mm(A/F) ± 0.05mm	BS-2874, CZ-121 BS-2874, CZ-122	20.	50.8mm ± 0.37mm		
3.	18.05mm(A/F) ± 0.05mm	IU-921211	21.	55mm ± 0.37mm		



4.	25mm(A/F) $\pm$ 0.05mm		22.	65mm $\pm$ 0.42mm		
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**Tubes**

Sr. #	Size	Specification of Ingots	Eccentricity	Container size
1.	Outer Dia = 31 mm Inner Dia = 21.5 mm $\pm$ 0.1 mm Length of Extruded tube = 12 to 14 ft	Def-stan 13- 95-9/I Def-stan 95-9/II MIL-T-13322	10 $\pm$ %	155mm
2.	Outer Dia = 34 mm Inner Dia = 21.5 mm $\pm$ 0.1 mm Length of Extruded tube = 12 ft to 14 ft			
3.	Outer Dia = 43 mm Inner Dia = 36 mm $\pm$ 0.1 mm Length of Extruded tube =14 ft to 18 ft			
4.	Outer Dia = 48 mm Inner Dia = 40 mm $\pm$ 0.1 mm Length of Extruded tube = 12 ft to 14 ft			

**Sizes with specifications for 185 mm Container**

**Tubes**

Sr. #	Size	Specification of Ingots	Eccentricity	Container size
1.	Outer Dia = 58 mm Inner Dia = 50 mm $\pm$ 0.1 mm Length of Extruded tube = 14 ft to 18 ft	Def-stan 13- 95/I Def-stan 95-9/II MIL-T-13322	10 $\pm$ %	<b>185 mm</b>
2.	Outer Dia = 61 mm Inner Dia = 50 mm $\pm$ 0.1 mm Length of Extruded tube = 14 ft to 18 ft			
3.	Outer Dia = 85mm Inner Dia = 75 mm $\pm$ 0.1 mm Length of Extruded tube = 14 ft to 18 ft			

<b>Sizes for 155 mm Container</b>				<p>1.Manufactured product must qualify dimensional, gauging, and visual inspection tests.</p> <p>2.Production of wire/coils for 04 x working days (8 x hours/day), No. of Ingots to be Extruded = 320 to 400 No of ingots (8 x hours/day).</p> <p>3. Production of Rods for 04 x working days (8 x hours/day), No. of Ingots to be Extruded = 320 to 400 No of ingots (8 x hours/day).</p> <p>4.Production of Tubes for 04 x working days (8 x hours/day), No. of Ingots to be Extruded = 320 to 400 No of ingots (8 x hours/day).</p> <p>5.Allowable Rejection 02 %.</p>
<b>S.r</b>	<b>Dia to be extruded in coil form</b>	<b>Specification of Ingots</b>	<b>Size of Ingots</b>	
1.	6.0mm ± 0.08mm	Def-stan 95-9/II	150mm ± 5mm (Dia) X 500mm ± 10mm (Length)	
2.	17.25mm ± 0.15mm	Def-stan 13-95/I BS-2874, CZ-122		
<b>S.r</b>	<b>Dia to be extruded in straight Rod form</b>	<b>Specification of Ingots</b>	<b>Size of Ingots</b>	
1.	18.5mm ± 0.16mm	BS-2874, CZ-122 IU-921211	150mm ± 5mm (Dia) X 500mm ± 10mm (Length)	
2.	50.8mm ± 0.37mm		or 150mm ± 5mm (Dia) X 250mm ± 10mm(Length)	
<b>S.r</b>	<b>Dia to be extruded in straight Tube form</b>	<b>Specification of Ingots</b>	<b>Size of Ingots</b>	
1.	Outer Dia = 31 mm Inner Dia = 21.5 mm ± 0.1 mm Length of Extruded tube = 12 to 14 ft ( Max Eccentricity 10 ± % )	Def-stan 13- 95-9/I Def-stan 95-9/II MIL-T-13322	150mm ± 5mm (Dia) X 200mm ± 10mm (Length)	
2.	Outer Dia = 48 mm Inner Dia = 40 mm ± 0.1 mm Length of Extruded tube = 12 ft to 14 ft ( Max Eccentricity 10 ± % )		150mm ± 5mm (Dia) X 250mm ± 10mm (Length)	
<b>Sizes for 185 mm Container</b>				
<b>S.r</b>	<b>Dia to be extruded in straight Tube form</b>	<b>Specification of Ingots</b>	<b>Size of Ingots</b>	
1.	Outer Dia = 85mm Inner Dia = 75 mm ± 0.1 mm Length of Extruded tube = 14 ft to 18 ft ( Max Eccentricity 10 ± % )	Def-stan 13- 95/I	185mm ± 5mm (Dia) X 250mm ± 10mm(Length)	

## **DECLARATION**

\_\_\_\_\_ [the Seller/Supplier] hereby declares its intention not to obtain or induce the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing, [the Seller/Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[The Seller/Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[The Seller/Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [the Seller/Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in any amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [the Seller/Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

WARRANTY/GUARANTEE CERTIFICATE

Firm’s Name \_\_\_\_\_.

Contract No. \_\_\_\_\_ Date \_\_\_\_\_.

1. We hereby Guarantee that the goods supplied against the above contract are in all respect in accordance with the relevant specification and terms of the contract and that the material used, whether or not of our manufacture, are in accordance with the latest approved standard specifications complete, are of good workmanship/quality throughout, and that we shall replace free of cost, every article or part thereof which before use or in use, shall be found defective, or not within the limits and tolerance of specification requirements, or in any way not in accordance with the terms of the contract.

2. In case of our failure to replace the defective stores free of cost within the period specified by the Purchaser, we will refund the relevant cost.

3. The Warranty/Guarantee will remain valid for **24 months** after the receipt of products/stores by the consignee and after successful installation & commissioning of the equipment/plant & machinery.

Signature \_\_\_\_\_

N a m e: \_\_\_\_\_

Status in the Firm: \_\_\_\_\_

Dated: \_\_\_\_\_

**BANK GUARANTEE FOR PERFORMANCE ON JUDICIAL STAMP PAPER  
OF RS. 100/- OR AS SUITABLE TO THE AMOUNT OF B.G.**

- i) Contract No. \_\_\_\_\_ date \_\_\_\_\_
- ii) Name of Firm/Contractor \_\_\_\_\_
- iii) Address of Firm/Contractor \_\_\_\_\_
- iv) Name of Guarantor \_\_\_\_\_
- v) Address of Guarantor \_\_\_\_\_
- vi) Amount of Guarantee Rs. /F.E. \_\_\_\_\_  
( \_\_\_\_\_ )  
(in words)
- vii) Date of Expiry of Guarantee \_\_\_\_\_

To: The President of the Islamic Republic of Pakistan through the Controller of  
Military Accounts (CMA), POF Wah Cantt.

Sir,

1. Whereas your goodself have entered into Contract No. \_\_\_\_\_

dated: \_\_\_\_\_ with Messrs \_\_\_\_\_

(Full Name and Address)

hereinafter referred to as our customer and that one of the conditions of the Contract is the  
submission of unconditional Bank Guarantee by our customer to your good self for a sum of  
Rs. \_\_\_\_\_ Rupees/FE (as applicable) \_\_\_\_\_

2. In compliance with this stipulation of the contract, we hereby agree and undertake as under:-

- a. To pay to you unconditionally on demand and/or without any reference to our Customer  
an amount not exceeding the sum of Rs. \_\_\_\_\_  
(Rupees or F. E (as applicable) \_\_\_\_\_) as would be mentioned  
in your written Demand Notice.
- b. To keep this Guarantee in force till \_\_\_\_\_
- c. That the validity of this Bank Guarantee shall be kept one clear year a head of the  
original/extended delivery period or the warrantee of the stores which so ever is later in  
duration on receipt of information from our Customer i.e. M/s \_\_\_\_\_ or

from your office. Claim, if any must be duly received by us on or before this day. Our liability under this Bank Guarantee shall cease on the closing of banking hours on the last date of the validity of this Bank Guarantee. Claim received thereafter shall not be entertained by us whether you suffer a loss or not. On receipt of payment under this guarantee, this documents i.e. Bank Guarantee must be clearly cancelled, discharged and returned to us.

- d. That we shall inform your office regarding termination of the validity of this Bank Guarantee one clear month before the actual expiry date of this Guarantee.
- e. That with the consent of our customer you may amend/alter any term/clause of the contract or add/delete any term/clause to/from this contract without making any reference to us. We do not reserve any right to receive any such amendment / alternation or addition/deletion provided such like actions do not increase our monetary liability under this Bank Guarantee which shall be limited only to Rs. \_\_\_\_\_ Rupees \_\_\_\_\_)
- f. That the Bank Guarantee herein before given shall not be affected by any change in the constitution of the Bank or Customer/Seller or Vendor.
- g. That this is an unconditional Bank Guarantee, which shall be encashed on sight on presentation without any reference to our Customer/Seller or Vendor.

### **GUARANTOR**

Dated: \_\_\_\_\_

\_\_\_\_\_  
Bank Seal and Signatures

**BANK GUARANTEE FOR ADVANCE PAYMENT ON JUDICIAL STAMP PAPER  
OF RS.100 OR AS SUITABLE TO THE AMOUNT OF BG**

- i) Contract No. \_\_\_\_\_ Date: \_\_\_\_\_
- ii) Name of Firm/Contractor \_\_\_\_\_
- iii) Address of the Firm/Contractor \_\_\_\_\_
- iv) Name of Guarantor \_\_\_\_\_
- v) Address of Guarantee \_\_\_\_\_
- vi) Amount of Guarantee \_\_\_\_\_
- vii) Date of Expiry of Guarantee \_\_\_\_\_

To The President of Islamic Republic of Pakistan, through the Controller of Military Accounts, (POF) Wah Cantt.

Sir,

1. We understand that you have entrusted into contract with Messrs: - \_\_\_\_\_

(Full Name & Address)

(hereinafter referred to as our customer) and that one of the condition of the contract is submission of Bank Guarantee for a sum of (Foreign Currency) against advance payment and at the request of customer and in consideration therefore, we hereby agree and undertake as under:-

- a) To pay to you on demand and without any question and /or without any reference to our customer an amount not exceeding the sum of (Foreign Currency) (In words) as mentioned in your written demand notice.
- b) The validity period of this guarantee is upto\_\_\_\_\_.
- c) Claims, if any, must be duly received by us on or before this day. Our liability under this guarantee will cease upon the close of Banking business hours on this date. Claims received thereafter will not be entertained by us whether or not you have suffered any loss. On receipt of payment under this guarantee, this guarantee must be duly cancelled, discharged and returned to us.
- d) Subject to, and within the validity period mentioned in clause (b) above, you may, without reference to us, vary or amend any terms of the contract, and we waive our right to receive any notice of such amendment or to the guarantee of time or indulgence, or forbearance, as may be mutually agreed between you and our customer.
- e) Our liability hereunder shall not be discharged on account of your forbearing to the contractor nor shall we claim any right of surety ship in respect of any security which you might be having in respect of the contract.

- f) If delivery as per schedule of installment supply is not adhered to by the contractor, the buyer's paying authority shall have the right of demanding encashment of the guarantee proportionate to the value of such installment supply having not been made, with interest thereon at the bank rate for the period the supply of any installments is delayed.
- g) The maximum liability under this guarantee shall be reduced proportionately by the sum/sums deducted by you from the invoices raised by our customer of the liquidation of the said advance.
- h) This guarantee within the validity period shall not be affected by any change in the constitution of the Bank, or of the contractor and of the successor and assignees of the bank.
- i) That this is an unconditional bank guarantee which shall be encashed on sight on presentation without any reference to our customer/seller or vendor.

(Guarantor)  
( ) Bank Ltd.  
Bank Seal and Signature.



**DOMESTIC AND FOREIGN SCHEDULED COMMERCIAL BANKS**

Being regulated by State Bank of Pakistan.

**I. NATIONALISED SCHEDULED BANKS**

1. First Women Bank Limited.
2. Habib Bank Limited.
3. National Bank Limited.

**II. DE-NATIONALISED SCHEDULED BANKS**

4. Allied Bank of Pakistan Limited.
5. Muslim Commercial Bank Limited.
6. United Bank Limited.

**III. SPECIALIZED SCHEDULED BANKS**

7. Zari Taraqiati Bank Limited.
8. Industrial Development Bank of Pakistan
9. Punjab Provincial Co-Operative Bank Limited.

**IV. PRIVATE SCHEDULED BANKS**

10. Askari Commercial Bank Limited.
11. Bank Al-Falah Limited.
12. Bolan Bank Limited.
13. Bank Al-Habib Limited.
14. Mashreq Bank Pakistan Limited.
15. Meezan Bank Limited
16. Faysal Bank Limited
17. KASB Bank Limited
18. Metropolitan Bank Limited
19. NDLC-IFIC Bank Limited
20. Prime Commercial Bank Limited
21. PICIC Commercial Bank Limited
22. Saudi-Pak Commercial Bank Limited
23. Soneri Bank Limited
24. Union Bank Limited

**V. PROVINCIAL BANKS (NOW SCHEDULED BANKS)**

25. The Bank of Khyber
26. The Bank of Punjab

**VI. FOREIGN BANKS**

27. ABN Amro Bank N. V.
28. Al-Baraka Islamic Bank B.S.C. (E.C).
29. American Express Bank Limited
30. Bank of Tokyo Mitsubishi Limited.
31. Bank of Ceylon
32. Credit Agricole Indosuez (The Globe French Bank)
33. Citibank N.A.
34. Deutsche Bank AG.
35. Doha Bank
36. Habib Bank AG Zurich.I
37. Hong Kong & Shanghai Bank Corporation Limited.
38. Oman International Bank S.O.A.G.
39. Rupali Bank Limited.
40. Standard Chartered Bank.