



POF 1262  
(FOREIGN SUPPLIES)

GOVERNMENT OF PAKISTAN  
PAKISTAN ORDNANCE FACTORIES  
TENDER ENQUIRY

To

Dear Sirs,

Reference: Tender Enquiry NO. 0035/GDL/FP/47 DATED 10-May-2017.  
You are requested to submit quotations for the item(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 11:30 hours on **15-June-2017** and must reach this office on or before 11:00 hours up to due date. The tender received late will not be entertained. You may witness the opening of the tender if you so desire. If a representative is deputed, he should bring a letter of authority from you.
- 1.2 Only one tender should be included in one envelope. The outside of the envelope should be inscribed with:-

Tender Enquiry No: 0035/GDL/FP/47,  
Tender to be opened on: 15-June-2017.  
Address as follows:-

MANAGING DIRECTOR POF GADWAL  
SUB.P.O.26 AREA, WAH CANTT  
DISST. RAWALPINDI (PAKISTAN).

- 1.3 If envelop do not indicate reference of TEs or received late, the same will 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 Enquire. 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 literature / brochures of the offered plant, machinery & equipment, validity date, delivery schedule and signed undertaking given on the schedule to this tender enquiry. It must not indicate price, costs etc. Country of origin should be clearly mentioned.

**Part-II: "Commercial Offer"** It should indicate the commercial terms e.g. price, terms of payment, mode of payment, mode of supply.

Contd... P-2

Each part should be placed in a separate sealed cover. The envelopes should be inscribed with Part-I "Technical Quotation without price" & 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, no intimation will be given to the Tenders.
- 2.6 Conditional offers or alternative offers are likely to be ignored.
- 2.7 Quotations should be based on FOB. 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 Supplier will render necessary information regarding hazardous effects on environment, of the materials/products supplied by them along with shipping/ dispatch documents.
- 2.11 The supplier will furnish a declaration regarding Fees, Commission & Brokerage etc payable by the firm along with shipping 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 each offer should 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
- 3.2 Where consider necessary by the purchaser, the store may be obtained on Warranty / Guarantee subject to inspection on receipt. Rejected store will be removed and replaced with the acceptable stores by the suppliers at his own expense, within a specified time.
- 3.3 **TENDER SAMPLE**  
Where required, offer must accompany tender sample, strictly accordingly to the description & 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 satisfactory supplied the same or similar stores or have submitted an acceptable sample thereof against previous TE.

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

- 4.1 The right to accept or reject any offer in full or in part is hereby reserved. However, rejection grounds shall be intimated to the bidder.

### 4.2 **PERFORMANCE BOND**

- a) The successful bidder will provide Performance Bond at the rate of 10% value of the contract in favour of CMA (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 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, the Purchaser reserves the right to:

- i. Impose penalty @ 1% per month of the value of CDR/BG.  
(Clause-42 (ai) 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 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 contact price of the items and their quantities for each and every 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.

#### 4.4 **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 & 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, where as 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.

#### 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, along with the specifications, drawings etc, if any, enclosed herewith even if you are unable to quote.

**Warning:** In case the firm abstain from making offer or fail to return / acknowledge the tender form by the specified date on three occasions no further tender enquiry be issued to them and their name would be liable to be removed from the approved list

Yours faithfully,

(Muhammad Masood)  
G.M-PP&C POF Gdl  
For Pakistan Ordnance Factories

PAKISTAN ORDNANCE FACTORIES  
SCHEDULE TO TENDER ENQUIRY NO.0035/GDL/FP/47, DATED 10. May.17.

## (1) FOR MATERIALS

(1)	(2)	(3)	(4)	(5)		(6)
Item no.	Description with specs. etc	Unit	Qty	Price per Unit FOB or Free delivery		Delivery Date
				In Figures	In Words	
1	Aluminum Alloy Bar Rectangular Shape Size. 12mm x 9mm x 4 mtr long Spec. ASTM B-221 Condition "O" Equivalent Grade 7075	Kg	163			

(2) For Plant &amp; Machinery:

Specifications:-

(3) Special Conditions. -

(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 1280 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 .....

Signature of the Tenderer.....

Name .....

Position .....

Address .....

Income Tax G.I.R. No.....



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TABLE 1 Chemical Composition Limits<sup>A,B,C</sup>

Alloy	Silicon	Iron	Copper	Manga- nese	Magne- sium	Chromium	Zinc	Vanadium	Titanium	Other Elements <sup>D</sup>		Aluminum
										Each	Total <sup>E</sup>	
1060	0.25	0.35	0.05	0.03	0.03	...	0.05	0.05	0.03	0.03	...	99.60 min <sup>F</sup>
1100	...	0.95 Si + Fe	0.05-0.20	0.05	...	...	0.10	...	...	0.05	0.15	99.00 min <sup>F</sup>
2014	0.50-1.2	0.7	3.9-5.0	0.40-1.2	...	0.10	0.25	...	0.15	0.05	0.15	remainder
2024	0.50	0.50	3.8-4.9	0.30-0.9	1.2-1.8	0.10	0.25	...	0.15	0.05	0.15	remainder
2219	0.20	0.30	5.8-6.8	0.20-0.40	0.02	...	0.10	0.05-0.15	0.02-0.10	0.05 <sup>G</sup>	0.15 <sup>G</sup>	remainder
3003	0.6	0.7	0.05-0.20	1.0-1.5	...	...	0.10	...	...	0.05	0.15	remainder
Alclad	...	3003 Clad with 7072 alloy		...	...	...	...	...	...	...	...	...
3003	...	...	...	...	...	...	...	...	...	...	...	...
3004	0.30	0.7	0.25	1.0-1.5	0.8-1.3	...	0.25	...	...	0.05	0.15	remainder
3102	0.40	0.7	0.10	0.05-0.40	...	...	0.30	...	0.10	0.05	0.15	remainder
5052	0.25	0.40	0.10	0.10	2.2-2.8	0.15-0.35	0.10	...	...	0.05	0.15	remainder
5083	0.40	0.40	0.10	0.40-1.0	4.0-4.9	0.05-0.25	0.25	...	0.15	0.05	0.15	remainder
5086	0.40	0.50	0.10	0.20-0.7	3.5-4.5	0.05-0.25	0.25	...	0.15	0.05	0.15	remainder
5154	0.25	0.40	0.10	0.10	3.1-3.9	0.15-0.35	0.20	...	0.20	0.05	0.15	remainder
5454	0.25	0.40	0.10	0.50-1.0	2.4-3.0	0.05-0.20	0.25	...	0.20	0.05	0.15	remainder
5456	0.25	0.40	0.10	0.50-1.0	4.7-5.5	0.05-0.20	0.25	...	0.20	0.05	0.15	remainder
6005	0.6-0.9	0.35	0.10	0.10	0.40-0.6	0.10	0.10	...	0.10	0.05	0.15	remainder
6005A	0.50-0.9	0.35	0.30	0.50 <sup>H</sup>	0.40-0.7	0.30 <sup>H</sup>	0.20	...	0.10	0.05	0.15	remainder
6080	0.30-0.6	0.10-0.30	0.10	0.10	0.35-0.6	0.5	0.15	...	0.10	0.05	0.15	remainder
6061 <sup>I</sup>	0.40-0.8	0.7	0.15-0.40	0.15	0.8-1.2	0.04-0.35	0.25	...	0.15	0.05	0.15	remainder
6063	0.20-0.6	0.35	0.10	0.10	0.45-0.9	0.10	0.10	...	0.10	0.05	0.15	remainder
6066	0.9-1.8	0.50	0.7-1.2	0.6-1.1	0.8-1.4	0.40	0.25	...	0.20	0.05	0.15	remainder
6070	1.0-1.7	0.50	0.15-0.40	0.40-1.0	0.50-1.2	0.10	0.25	...	0.15	0.05	0.15	remainder
6105	0.6-1.0	0.35	0.10	0.10	0.45-0.8	0.10	0.10	...	0.10	0.05	0.15	remainder
6162	0.40-0.8	0.50	0.20	0.10	0.7-1.1	0.10	0.25	...	0.10	0.05	0.15	remainder
6262	0.40-0.8	0.7	0.15-0.40	0.15	0.8-1.2	0.04-0.14	0.25	...	0.15	0.05 <sup>J</sup>	0.15 <sup>J</sup>	remainder
6351	0.7-1.3	0.50	0.10	0.40-0.8	0.40-0.8	...	0.20	...	0.20	0.05	0.15	remainder
6463	0.20-0.6	0.15	0.20	0.05	0.45-0.9	...	0.05	...	...	0.05	0.15	remainder
7005	0.35	0.40	0.10	0.20-0.7	1.0-1.8	0.06-0.20	4.0-5.0	...	0.01-0.06	0.05 <sup>K</sup>	0.15 <sup>K</sup>	remainder
7072 <sup>L</sup>	...	0.7 Si + Fe	0.10	0.10	0.10	...	0.8-1.3	...	...	...	...	remainder
7075	0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	5.1-6.1	...	0.20	0.05	0.15	remainder
7116	0.15	0.30	0.50-1.1	0.05	0.8-1.4	...	4.2-5.2	0.05	0.05	0.05 <sup>M</sup>	0.15	remainder
7129	0.15	0.30	0.50-0.9	0.10	1.3-2.0	0.10	4.2-5.2	0.05	0.05	0.05 <sup>M</sup>	0.15	remainder
7178	0.40	0.50	1.6-2.4	0.30	2.4-3.1	0.18-0.28	6.3-7.3	...	0.20	0.05	0.15	remainder

<sup>A</sup> Limits are in weight percent maximum unless shown as a range, or stated otherwise.

<sup>B</sup> Analysis shall be made for the elements for which limits are shown in this table.

<sup>C</sup> For the purpose of determining conformance to these limits, an observed value or a calculated value obtained from analysis shall be rounded to the nearest unit in the last right-hand place of the figures used in expressing the specified limit, in accordance with the rounding-off method of Practice E 29.

<sup>D</sup> Others includes listed elements for which no specific limit is shown as well as unlisted metallic elements. The producer may analyze samples for trace elements not specified in the specification. However, such analysis is not required and may not cover all metallic Others elements. Should any analysis by the producer or the purchaser establish that an Others element exceeds the limit of Each or that the aggregate of several Others elements exceeds the limit of Total, the material shall be considered nonconforming.

<sup>E</sup> Other Elements—Total shall be the sum of unspecified metallic elements 0.010 % or more, rounded to the second decimal before determining the sum.

<sup>F</sup> The aluminum content shall be calculated by subtracting from 100.00 % the sum of all metallic elements present in amounts of 0.010 % or more each, rounded to the second decimal before determining the sum.

<sup>G</sup> Zirconium, 0.10-0.25 %. The total for other elements does not include zirconium.

<sup>H</sup> Manganese plus chromium shall total 0.12-0.50.

<sup>I</sup> In 1985 the requirements for 6062 were combined with those for 6061 by revising the minimum chromium from "0.15 %" to "0.04 %." This action cancelled alloy 6062.

<sup>J</sup> Bismuth and lead shall be 0.40-0.7 % each.

<sup>K</sup> Zirconium 0.08-0.20 %. The total for other elements does not include zirconium.

<sup>L</sup> Composition of cladding alloy applied during the course of manufacture. Samples from finished tube shall not be required to conform to these limits.

<sup>M</sup> Gallium 0.03 % max.

### H35.2 Dimensional Tolerances for Aluminum Mill Products<sup>3</sup>

#### 2.4 Federal Standard:

Fed. Std. No. 123 Marking for Shipment (Civil Agencies)<sup>11</sup>

#### 2.5 Military Standard:

MIL-STD-129 Marking for Shipment and Storage<sup>11</sup>

#### 2.6 Military Specification:

MIL-H-6088 Heat Treatment of Aluminum Alloys<sup>11</sup>

### 3. Terminology

#### 3.1 Definitions:

3.1.1 *extruded bar*—an extruded solid product that is long in relation to cross section, which is square or rectangular (excluding plate and flattened wire) with sharp or rounded corners or edges, or is a regular hexagon or octagon, and in which at least one perpendicular distance between parallel faces is 0.375 in. or greater.

3.1.2 *extruded rod*—an extruded solid product 0.375 in. or greater in diameter that is long in relation to cross section.

3.1.3 *extruded profile*—a hollow or solid extruded section, long in relation to its cross-sectional dimensions, whose cross section is other than that of wire, rod, bar, or tube.

<sup>11</sup> Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

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TABLE 2 Continued

Temper	Specified Section or Wall Thickness, in.	Area, in. <sup>2</sup>	Tensile Strength, ksi		Yield Strength (0.2 % offset), ksi		Elongation in 2 in. or 4 × Diameter, min, % <sup>E,F</sup>
			min	max	min	max	
Alloy 6063							
O	all	all	...	19.0	...	...	18
T1	up through 0.500 0.501-1.000	all	17.0	...	9.0	...	12
		all	16.0	...	8.0	...	12
T4, T42 <sup>K</sup>	up through 0.500 0.501-1.000	all	19.0	...	10.0	...	14
		all	18.0	...	9.0	...	14
T5	up through 0.500 0.501-1.000	all	22.0	...	16.0	...	8
		all	21.0	...	15.0	...	8
T52	up through 1.000	all	22.0	30.0	16.0	25.0	8
T6, T62 <sup>K</sup>	up through 0.124 0.125-1.000	all	30.0	...	25.0	...	8
		all	30.0	...	25.0	...	10
Alloy 6066							
O	all	all	...	29.0	...	18.0	16
T4, T4510, <sup>J</sup> T4511 <sup>J</sup>	all	all	40.0	...	25.0	...	14
T42 <sup>K</sup>	all	all	40.0	...	24.0	...	14
T6, T6510, <sup>J</sup> T6511 <sup>J</sup>	all	all	50.0	...	45.0	...	8
T62 <sup>K</sup>	all	all	50.0	...	42.0	...	8
Alloy 6070							
T6, T62	up through 2.999	up through 32	48.0	...	45.0	...	6
Alloy 6105							
T1	up through 0.500	all	25.0	...	15.0	...	16
T5	up through 0.124 0.125-1.000	all	38.0	...	35.0	...	8
		all	38.0	...	35.0	...	10
Alloy 6162							
T5, T5510, <sup>J</sup> T5511 <sup>J</sup>	up thru 1.000	all	37.0	...	34.0	...	7
T6, T6510, <sup>J</sup> T6511 <sup>J</sup>	up thru 0.249	all	38.0	...	35.0	...	8
	0.250-0.499	all	38.0	...	35.0	...	10
Alloy 6262							
T6 T6510 <sup>J</sup> T6511 <sup>J</sup>	all	all	38.0	...	35.0	...	10
Alloy 6351							
T1	up through 0.499	up through 20	26.0	...	13.0	...	15
T11	up through 0.749	all	26.0	...	16.0	...	16
T4	up through 0.749	all	32.0	...	19.0	...	16
T5	up through 0.249	all	38.0	...	35.0	...	8
	0.250-1.000	all	38.0	...	35.0	...	10
T51	0.125-1.000	all	36.0	...	33.0	...	10
T54	up through 0.500	all	30.0	...	20.0	...	10
T6	up through 0.124	all	42.0	...	37.0	...	8
	0.125-0.749	all	42.0	...	37.0	...	10
Alloy 6463							
T1	up through 0.500	up through 20	17.0	...	9.0	...	12
T5	up through 0.500	up through 20	22.0	...	16.0	...	8
T6	up through 0.124	up through 20	30.0	...	25.0	...	8
	0.125-0.500	up through 20	30.0	...	25.0	...	10
Alloy 7005							
T53	0.125-1.000	up through 25	50.0	...	44.0	...	10
Alloy 7075 <sup>a</sup>							
O	all	all	...	40.0	...	24.0	10
T6, T62 <sup>K</sup>	up through 0.249	all	78.0	...	70.0	...	7
	0.250-0.499	all	81.0	...	73.0	...	7
T6510 <sup>J</sup>	0.500-1.499	all	81.0	...	72.0	...	7
	1.500-2.999	all	81.0	...	72.0	...	7
T6511 <sup>J</sup>	3.000-4.499	up through 20	81.0	...	71.0	...	7
	4.500-5.000	over 20 through 32	78.0	...	70.0	...	6
		up through 32	78.0	...	68.0	...	6