



**Margalla Heavy Industries Limited (Margalla HIL)**

C/o

Commercial Directorate, Heavy Industries Taxila,  
Taxila Cantonment post code 47070, Pakistan

Tel: +9251-9315020

Email: [margallahil@hit.gov.pk](mailto:margallahil@hit.gov.pk)

Ref: 4922/07/Advertise/R&T Cell/M-HIL

27 Aug 2024

To: Public Procurement  
Regulatory Authority (Cabinet Division),  
Federal Bank for Co-operative Building 1<sup>st</sup> Floor  
Sector G-5/2 near SBP, Islamabad.

Director Advertisement (PID)  
Press Information Department,  
Islamabad

Subj: **Amendment in Opening Date**

1. Subject amendment in Tender Inquiry No. **TS544476E** 1528-52/CEO Ofc/Ind-227/Ind-108/TGAGB/M-HIL/Com dated 29 July 2024 published on PPRA website on 31 July 2024 may please be amended as under:-

a. **Amendment in Opening Date of RFQ:-**

**FOR :** 1528-52/CEO Ofc/Ind-227/Ind-108/TGAGB/M-HIL/Com dated 29 July 2024 to be opened on **29 Aug 2024 at 1100 hrs.**

**READ :** 1528-52/CEO Ofc/Ind-227/Ind-108/TGAGB/M-HIL/Com dated 29 July 2024 to be opened on **13 Sep 2024 at 1100 hrs.**

2. All other terms and conditions of our tender inquiry referred above will remain unchanged.

  
Assistant Works Manager  
For CEO Margalla HIL  
(Engr Sajid Ullah Khan)



1  
**Margalla Heavy Industries Limited (Margalla HIL)**

C/O

Commercial Directorate, Heavy Industries Taxila  
Taxila Cantonment Post Code 47070, Pakistan  
Corporate Universal Identification No 0158287  
Tel: +92 51 9315020  
E-mail: margallahil@hit.gov.pk  
Ref: 1528-52/CEO Ofc/RFQ/GUN-Barrels/M-HIL

29 July 2024

To: M/s \_\_\_\_\_  
(All Concerned)

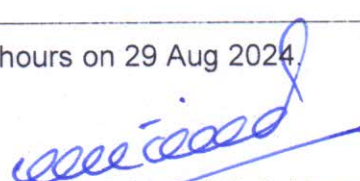
Subject: **REQUEST FOR QUOTATION (RFQ) / PROPOSAL on C&F basis for Tender Inquiry No. 1528-52/CEO Ofc/Ind-227/IT-108/TGAGB/M-HIL/Com dt 25 Jul 2024**

Dear Sir,

1. Margalla Heavy Industries Limited (M-HIL), Taxila subsidiary of Heavy Industries Taxila (HIT) invites proposals from reputable and renowned firms / companies having sound financial background and relevant experience for supplying material for 105mm & 120mm Tank Gun and 155mm Artillery Gun Barrels at M-HIL C/O Heavy Industries Taxila.
2. Request for (Single Stage Two Envelope) proposal document is attached.
3. The quotation / proposal complete in all respect in sealed envelopes should reach following address and be clearly marked as supplying material for 105 mm & 120 mm Tank Gun and 155 mm Artillery Gun Barrels. "Pre-qualified / short listed firms / companies will be asked to provide technical specifications and commercial quotations on which the firms will furnish their proposed solution and financial offers". Address detail on sealed envelopes is as under:-

<b><u>REQUEST FOR QUOTATION / PROPOSAL</u></b>	
	<b><u>REGISTERED</u></b>
TO:	<b>DEPUTY ASSISTANT DIRECTOR MARGALLA HEAVY INDUSTRIES LIMITED, TAXILA</b>
REQUEST FOR PROPOSAL INQUIRY NO:	<b><u>1528-52/CEOOfc/Ind-227/IT-108/TGAGB /M-HIL/Com dt 29 Jul 2024</u></b>
TO BE OPEND ON:	<b><u>29 Aug 2024 AT 1100 HOURS</u></b>
FROM: M/S _____	

4. The proposal shall be opened for acceptance till 1030 hours on 29 Aug 2024.

  
Assistant Work Manager  
Deputy Assistant Director (Procurement)  
(Sajid Ullah Khan)



**Margalla Heavy Industry Limited, Taxila Cantt**

Email Address: margallahil@hit.gov.pk

Phone Number: +92-51-9315020

**REQUEST FOR QUOTATION (RFQ) / PROPOSAL**

**For**

**PROCUREMENT OF TANK GUN BARREL AND ARTILLERY**

**GUN BARRELS (BLANKS)**

## Request for Quotation (RFQ) / Proposal

### Procurement of Tank Gun / Artillery Gun Barrel (Blanks)

**Issued by:** Margalla Heavy Industry Limited, Taxila Cantonment  
**Contractor:** Margalla Heavy Industry Limited, Taxila Cantonment  
**Email Address:** margallahil@hit.gov.pk  
**Phone Number:** +92-51-9315020

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**Subject:** Request for Quotation for Procurement of Tank Gun / Artillery Gun Barrel (Blanks)

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#### 1. Introduction

- 1.1 Margalla Heavy Industry Limited, Taxila Cantonment, Punjab, Pakistan, 47070, an entity of the Ministry of Defence Production, to be referred as the Contractor, is a leading manufacturer of Gun Barrels, specializing in tank and Artillery Gun barrels. We invite internationally reputed vendors to submit their quotations for supplying material blanks for 105 mm & 120 mm tank guns and 155 mm Artillery Gun barrels.
- 1.2 Any party interested in delivering the requisite deliverables, to be referred as the "The Vendor", from hereon/ now onwards will ensure delivery of the barrel blanks encompassing the details enlisted in the ongoing paragraphs/ headings. It is pertinent to mention here that "Required Specifications attached as Appendices to Annexure A to this document" have broadly and flexibly been outlined and may need incorporation of amendments (technical / non-technical) by either of the two parties (the contractor and the vendor) at any stage of the finalization of the agreement with obvious requirement of the concurrence by the both parties. The vendor is expected to evaluate the same and come-up with their preliminary response as per the requisite timeline.

2. **Scope of Supply**

2.2 **Product:** Tank Gun / Artillery Gun Barrel Blanks (Details as Annexure "A")

2.3 **Quantity:**

Ser	Description	Specifications	A/U	Qty Req
1.	105 mm Tank gun barrel blank	Appendix 1 to Annexure A	Nos	88
2.	120 mm Tank gun barrel blank	Appendix 2 to Annexure A		88
3.	155 mm Arty Gun Barrel blank	Appendix 3 to Annexure A		176

3. **Compliance and Certifications.** Vendors must provide the following compliance and certification documents:-

- 3.1 Certificate of Compliance to the requisite specifications.
- 3.2 Test Certificates (applicable destructive and non-destructive testing).
- 3.3 2D drawing of the material blanks.
- 3.4 Warranty certificates of material integrity.
- 3.5 Compliance with standards involved in the design, manufacturing, and qualification of the developed material blanks (the contractor will need copies of the claimed standards as well as certificates of compliance).
- 3.6 ISO 9001:2015.
- 3.7 ISO 14001:2015.
- 3.8 Relevant ASTM Standards.

4. **Quality Assurance**

- 4.1 The steel blanks must meet all specified standards and quality requirements.
- 4.2 Vendors must provide a quality assurance plan and quality control documentation.
- 4.3 Pre-Shipment Inspection (PSI) for each batch will be conducted by a technical team of 3x individuals designated by the contractor at the OEM premises.
- 4.4 Certificate of Compliance (CoC) must be provided with each shipment.
- 4.5 In response to this RFQ, the vendor must submit categorically noncompliance (if any) with the stated condition in the document or its

attached annexures and appendices. Any specification or requirement not categorically claimed non-compliant by the vendor will be considered compliant by default and part of the quotation.

5. **Packaging and Shipping**

- 5.1 The Material blanks must be securely packaged to prevent damage during transit.
- 5.2 Colouring, stenciling, and packaging must adhere to standard NATO and military marking standards, as well as international shipping regulations.
- 5.3 The prices quoted must be in US\$, firm and final on C&F Basis. However, M-HIL has right to open Letter of Credit and subsequent payment in either US\$, Euro or Chinese Yuan (RMB), as per our convenience.
- 5.4 Rates will be quoted in US\$ on C&F Karachi / Islamabad basis. Offer maximum discount while submitting your bid.

6. **Delivery Schedule**

- 6.1 The vendor shall submit to the contractor master delivery plan for the mentioned items along with the earliest possible delivery date of the equipment. Negotiation on the delivery date is possible after official confirmation by the vendor on technical compliance statement on the requisite specifications and associated terms and conditions in this and attached documents (Appendices to Annexure A).
- 6.2 Tentative Delivery Schedule attached as Annexure B.

7. **Pre-shipment Inspection**

- 7.1 Pre-shipment inspection for each batch of delivery will be done by a technical team of 3 x members designated by the contractor at the OEM premises.
- 7.2 The vendor must include the price of pre-shipment inspection including (Return Air Tickets/Boarding/ Lodging /in-land transportation of PSI team) for each batch.
- 7.3 The 3 x members team will inspect the store as per mutually agreed modalities.
- 7.4 Draft Acceptance Test Procedures may be provided with the RFQ.

8. **Evaluation Criteria**

- 8.1 Quotations will be evaluated based on the following criteria:
- 8.1.1 Compliance with specifications and requirements.
  - 8.1.2 Quality and certifications.
  - 8.1.3 Pricing.
  - 8.1.4 Delivery schedule.
  - 8.1.5 Vendor's reputation and past performance.

9. **Terms and Conditions**

- 9.1 Margalla Heavy Industries Limited Taxila, reserves the right to accept or reject any quotation without assigning any reason.
- 9.2 Any deviation from the specified terms and conditions must be clearly stated in the quotation.
- 9.3 All communications and documents related to this RFQ must be submitted via email followed by hard copy.
- 9.4 The offer made by the vendor to this RFQ will be made an official part of the subsequent contract.
- 9.5 The vendor will provide an undertaking at the time of the contract that there will be no issue by the Government of the OEM for export of requisite items to Pakistan.
- 9.6 Partial payment on partial delivery will be part of the contract.
- 9.7 The offer must elaborate the "Warranty Time as well as Terms and Conditions" of the equipment in detail.

10. **End User Certificate (EUC)**

- 10.1 An EUC will be provided (if required) stating reason for the use of the required equipment.

11. **Submission of Quotations**

- 11.1 Quotations must be submitted in English.
- 11.2 All prices must be quoted in US Dollars.
- 11.3 Quotations must include detailed pricing, including unit price, total price, and any applicable taxes or duties.
- 11.4 Quotations must be valid for a minimum of 01 year from the date of issuance of formal quotation by the vendor.
- 11.5 Prices shall remain firm and fixed up to validity period.

11.6 Quotation (Technical and Commercial – Single Stage Two Envelope) in hard as well as soft form (CD) must reach address given below:-

11.6.1 Office of the CEO, Margallah Heavy Industries Limited (M-HIL), Taxila Cantt, Pakistan.

11.6.2 Email ID: margallahil@hit.gov.pk

12. **Submission Deadline.** Quotations must be submitted no 29 Aug 2024 at 10:30 hours.

13. **Contact Information**

For any queries or further information, please contact:

Name: Sajid Ullah Khan

Designation: Deputy Assistant Director (Procurement)

Address: **Commercial Directorate**

Margallah Heavy Industries Limited (M-HIL), Taxila Cantt, Pakistan

Email Address: margallahil@hit.gov.pk

Phone Number: Tel: (051) 9315333 Ext 62925

Fax: (051) 9315029



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**Annexure A**

**Detail of Blanks Required**

<b>Ser</b>	<b>Description</b>	<b>Quantity</b>	<b>Specifications</b>
1.	105 mm TANK GUN BARREL BLANK	88	Appendix I to Annexure A
2.	120 mm TANK GUN BARREL BLANK	88	Appendix III to Annexure A
3.	155 mm Artillery GUN BARREL BLANK	176	Appendix V to Annexure A

**MATERIAL SPECIFICATION OF 105 MM TANK GUN BARREL BLANK**

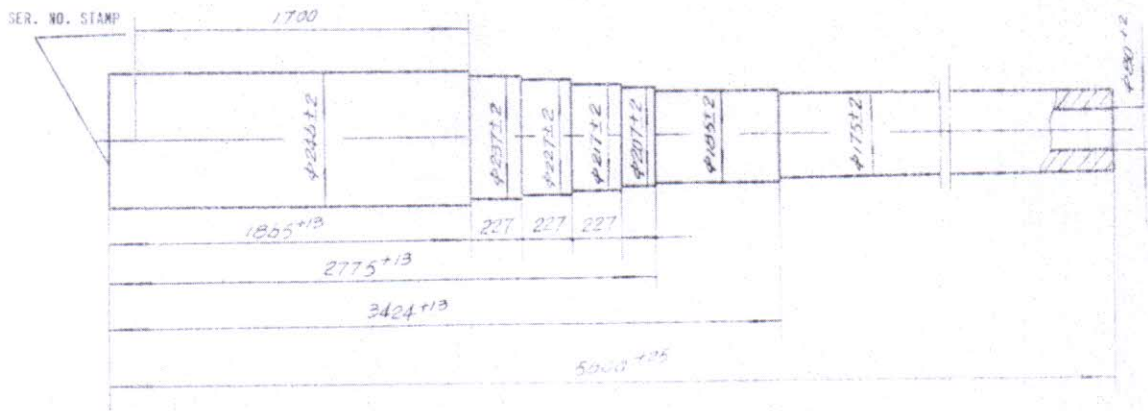
**CHEMICAL COMPOSITION**

<b>MATERIAL</b>	<b>G4335V</b>
C	0.30~0.40
Mn	0.20~0.80
Si	0.10~0.35
S	≤ 0.015
P	≤ 0.015
Cr	0.50 ~1.20
Ni	2.00 ~3.30
Mo	0.40~0.70
V	0.10 ~0.25
Cu	≤ 0.20

**MECHANICAL PROPERTIES**

<b>PROPERTIES</b>	<b>Values</b>
Yield Strength 0.1	1104 ~1241 MPa
Reduction in Area	≥40
Impact Strength (-40C <sup>0</sup> )	≥20.3 J
Hardness HB	350 ~410 HBS

**DRAWING OF 105 MM TANK GUN BARREL BLANK**



1. BENDING OF BORE SHALL NOT EXCEED 3 MM.
2. WALL-THICKNESS AT ANY TRANSVERSE SECTION SHALL NOT EXCEED 2.5 MM.
3. RUN-OUT OF OD AT ANY TRANSVERSE SECTION SHALL NOT EXCEED 8 MM.

**MATERIAL SPECIFICATION OF 120 MM TANK GUN BARREL BLANK**

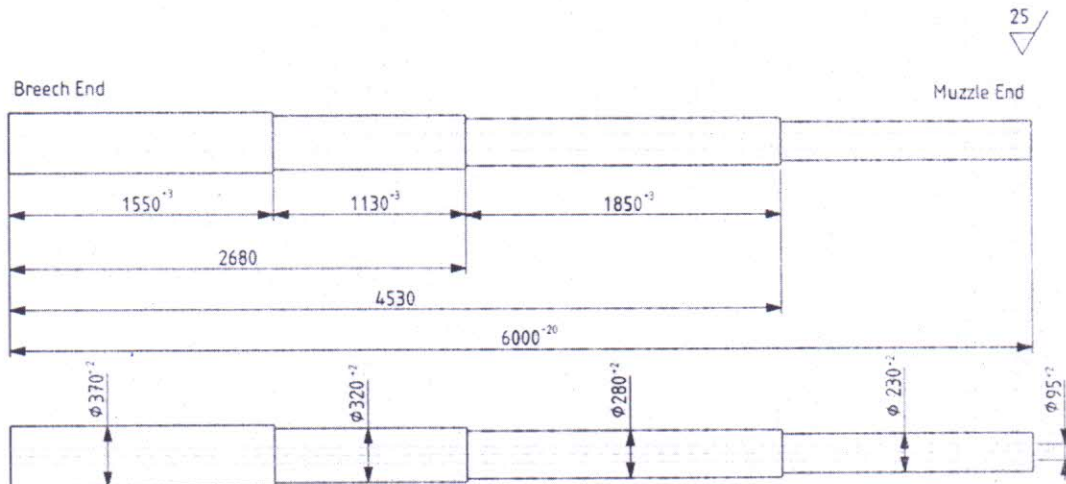
**CHEMICAL COMPOSITION**

<b>MATERIAL</b>	<b>CLARMHBR</b>
C	0.28~0.330
Mn	0.100~0.400
Si	0.100~0.300
S	≤ 0.005
P	≤ 0.007
Cr	1.300~1.700
Ni	3.200~3.800
Mo	0.300~0.500
V	0.160~0.250
Al	≤ 0.020
Cu	≤ 0.150

**MECHANICAL PROPERTIES**

<b>PROPERTIES</b>	<b>Values</b>
Yield Strength	1120~1250 MPa
Tensile Strength	≥1200
Elongation	≥12
Reduction in Area	≥40
Impact Strength (-40C <sup>0</sup> )	≥55 J/cm <sup>2</sup> @+20°C
Hardness HB	370~410 HB

**DRAWING OF 120 MM TANK GUN BARREL BLANK**



1. Bending of Bore Shall not exceed 3mm (Measure after every 500mm)
2. Wall Thickness Variation shall not exceed 2.5mm at any section
3. Radial Runout of Outer dia shall not exceed 3mm at any section

**MATERIAL SPECIFICATIONS OF 155 MM ARTILLERY GUN  
BARREL BLANK**

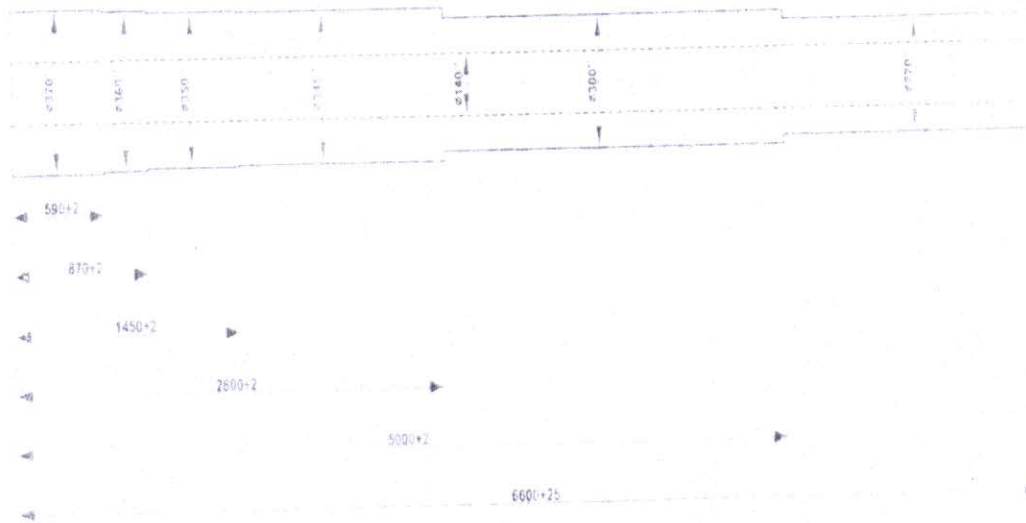
**CHEMICAL COMPOSITION**

<b>Steel Making Process</b>	<b>E.F.V.D</b>
<b>Elements</b>	<b>Percentage Composition</b>
C	0.32 – 0.34
Si	0.10 Max
V	0.10 – 0.25
Cr	1.40 – 1.70
Mn	0.25 Max
Ni	3.00 – 3.60
Mo	0.75 – 1.05
P	0.01 Max
S	0.005 Max

**MECHANICAL PROPERTIES**

<b>Property</b>	<b>Values</b>
Yield Strength @ 20°C	>1100 Mpa
Tensile Strength @ 20°C	1200 - 1350 Mpa
Elongation A5	>12%
Reduction of Area Z%	>45
KCV Charpy Impact	@ T=-40°C >30J
KCU	@ T=+20°C F.I.O (target >=60J/cm <sup>2</sup> )

**DRAWING OF 155 MM ARTILLERY GUN BARREL BLANK**



TECH REQUIREMENTS: BENDING OF BORE SHALL BE LEAST 0.1MM  
WALL THICKNESS VARIATION SHALL NOT EXCEED 0.1MM  
RADIAL RUN OUT OF  $\phi 300$  SHALL NOT EXCEED 0.1MM

Tentative Delivery Sch

<b>Ser</b>	<b>Type of Barrel Blank</b>	<b>Del Sch</b>
1.	105 mm Tk gun barrel blank for Tk M60.	21 blanks - 8 months from the date of signing of contract 28 blanks - 17 months from the date of signing of contract 39 blanks - 29 months from the date of signing of contract
2.	155 mm Arty gun barrel blank for M198 towed Arty gun.	16 blanks - 8 months from the date of signing of contract 23 blanks - 17 months from the date of signing of contract 31 blanks - 29 months from the date of signing of contract 18 blanks - 41 months from the date of signing of contract
3.	155 mm Arty gun barrel blank for SP M109A2.	03 blanks - 8 months from the date of signing of contract 28 blanks - 41 months from the date of signing of contract 30 blanks - 53 months from the date of signing of contract 27 blanks - 65 months from the date of signing of contract
4.	120 mm Tk gun barrel blank for Tk M1A2S.	03 blanks - 8 months from the date of signing of contract 36 blanks - 41 months from the date of signing of contract 40 blanks - 53 months from the date of signing of contract 09 blanks - 65 months from the date of signing of contract