

TENDER ENQUIRY

NO.	FFW-24-032	Date:	25-Nov-24	Due on :	09-Dec-24
			<p>Please ensure to indicate your offer in this schedule. In case of shortage of space, you may use your letterhead but this schedule is to be returned duly filled in & signed.</p>		

We invite your sealed bid on FOR / FOT Taxila or Free Delivery, HMC, Taxila basis for the supply of following store (s) precisely according to the format depicted below. Bid must reach Procurement Department by 1400 hours for opening in public at 1430 hours on due date.

S. NO.	DESCRIPTION	Unit.	Qty.	Unit Price (Rs.)	Delivery Period
1	High Alumina Roof Bricks (KK-5A), Drg. No. W10-323 D	Nos.	17,000		
2	High Alumina Roof Bricks (KE-5A), Drg. No. W10-320 B	Nos.	18,000		
3	High Alumina Ladle Bricks (C-23), Drg. No. W10-041 A	Nos.	8,500		
4	Ladle Bricks (C-16), Drg. No. W10-046 A	Nos.	2,500		
5	Stopper Rod Sleeve (X4-B)	Nos.	1,200		
6	Stopper End Bricks (S-8), Specifications & Drawings attached	Nos.	1,000		
<p>Note: MTC is essentially required in original. To be packed in Seaworthy export packing on wooden crates.</p> <p>Important Note: 1. The offer shall be quoted on FOR Taxila basis. 2. Delivery Period should be minimum. 3. Quantity can be increased, decreased or deleted after tender opening, if necessary. 4. Validity: The offer validity should not be less than 30 days. 5. Payment: Payment will be made after inspection & acceptance of stores at HMC Taxila.</p>					

NB: For Sales Tax and other Govt. levies please read clause 7 (e) of Terms and Conditions, overleaf.
Terms of Delivery : FOT/FOR Taxila - Free Delivery HMC Taxila.

Your offer No. & date : _____ Valid upto : _____
Additional Requirements : _____

Issued By :

DECLARATION
We certify that we have read the terms and conditions of the tender enquiry over leaf and the same are fully acceptable to us. We further agree to provide performance bond, if required.

Signature _____

Full Name _____

Seal of the Firm _____

Head Procurement Department
Heavy Mechanical Complex, Taxila.

Holder of ASME
Stamp Designator
U, U2, S, PP and
The National Board
NB & R Stamp

Taxila : 47050 Pakistan Phones : (+92-51) 9314262-5 (4 Lines), (+92-51) 9314181-5 (5 Lines)
Fax: (+92-51) 9270203, (92-51) 9314260
Email: hmcengg@hmc.com.pk, marketing@hmc.com.pk & procurement.hmc@gmail.com
Web Site: http:// www.hmc.com.pk

TUV
AUSTRIA
HELLAS
EN 9100:2016
Registration No.
2013113300032

Annex.-A

SPECIFICATION FOR HIGH ALUMINA BRICKS

EAF ROOF & LADLE BRICKS

A. CHEMICAL COMPOSITION

1. Al_2O_3 = > 75 %

B. MECHANICAL PROPERTIES

1. Refractoriness = > 1790-1825 Deg.C

2. Softening temperature
under load 2kg/Cm Sq. = > 1520 Deg.C

3. Porosity % = < 23 %

4. Compression strength at
(room temperature) Kg/ Cm Sq. = > 600

5. Shrinkage after reheating.
1500 deg. C (3 hours) = < 0.5

KK-5
KE-5
OTW-1
W10-361
-C-23
C-18
2-3
X4B

CIF

S.F.

Dasg
-P.P.C.-11

x. Refractory

04 03

Stopper End Brick (S-8)

1. Chemical Composition

Al_2O_3 : 58 – 65 %

Fe_2O_3 : 2.5% Max

2. Compressive Strength
(At room temperature)

$\geq 200\text{Kg/cm}^2$ Min

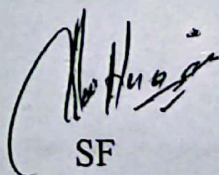
3. Porosity

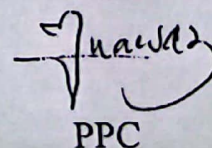
: 20 %

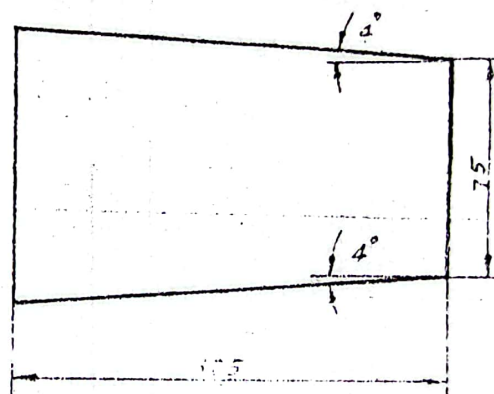
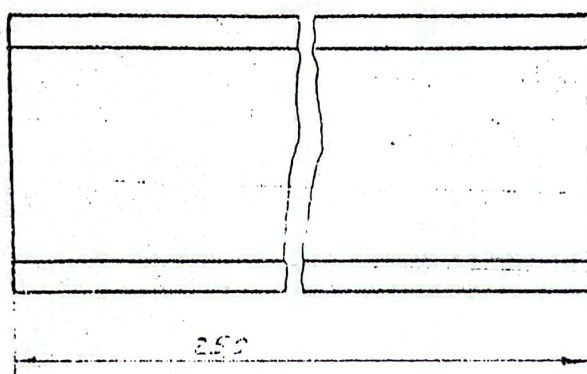
4. Refractoriness

$\geq 1750^\circ\text{C}$ (SK 34)

CIF

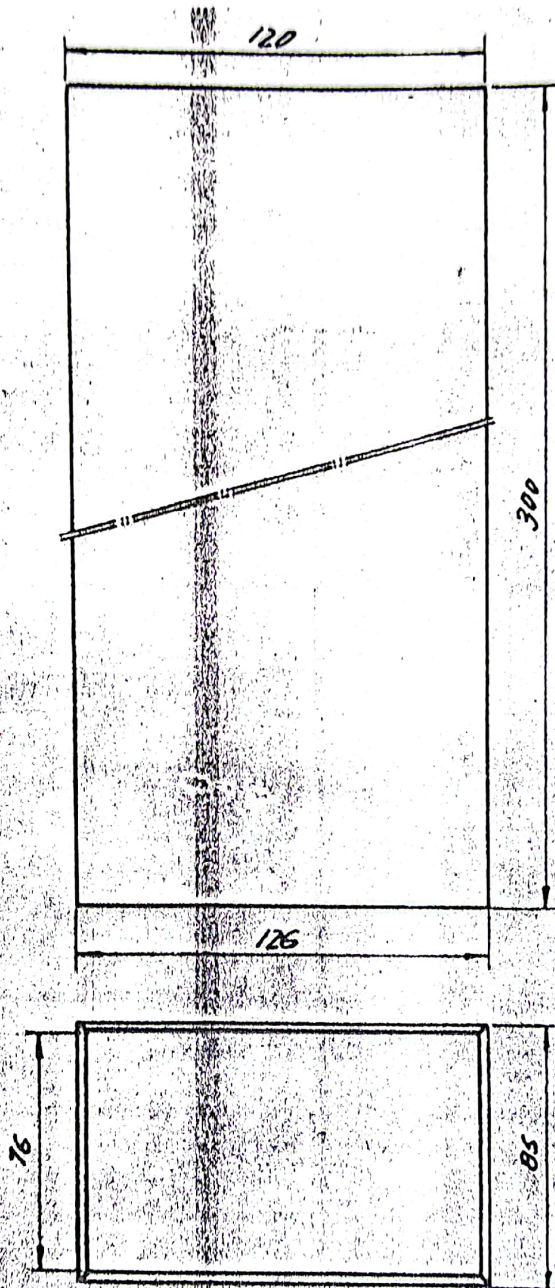

SF


PPC

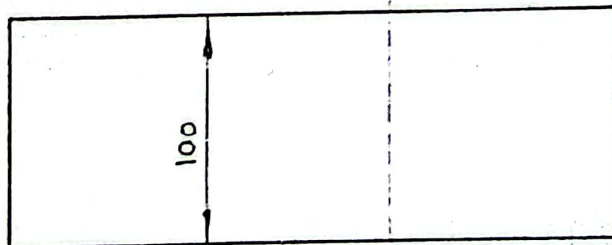
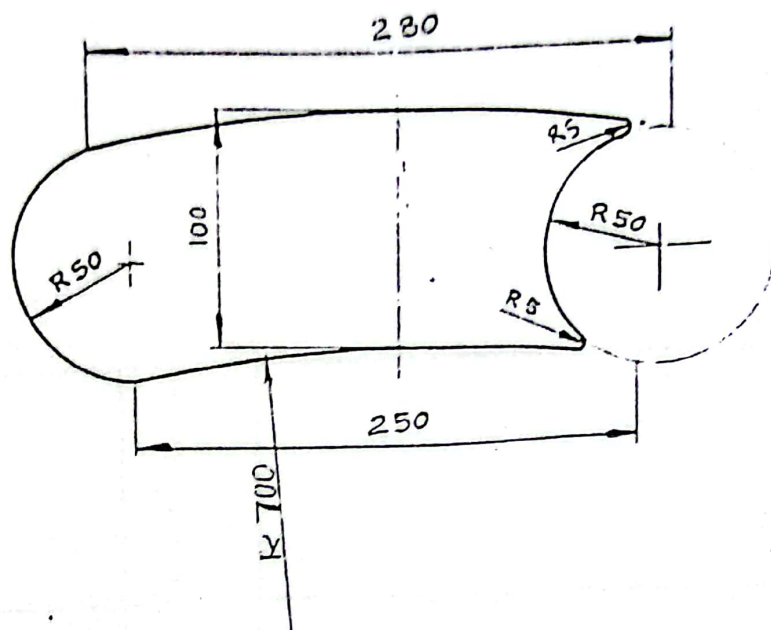


Roof Brick

					HEAVY FOUNDRY & FORGE TAXILA	
INDEX	ALTERATION		LOCATION	DATE	SIGN.	
MATERIAL	WEIGHT	SCALE	CUSTOMER	DESIGNED		DRAWN
		1:2	GROUP	TRACED		CHECKED
APPLICATION NO			POSITION	APPROVED		DATE
REF. DRG. NO.			ROOF BRICK FOR 3 TONS + 15 TONS E. A. FURNACES		DRG. NO. W 10-323	
KK-5					13/8/80	



DESIGNED BY STEEL FOUNDRY		13.3.2000	HMC	
MADE AS PER SKETCH			FOUNDRY & FORGE WORK	
ALTERATION		DATE	SIGN	TAXILA
DATE	INT.	GROUP	DESIGNED	APPROVED
ROOF BRICK			TRAIN	CHECKED
			TRACED	DATE 30.9.05
			DRG. NO.	WIO 320 B
REF. DRG. NO. KE-5A		NATURE OF PIECE FINISHED		



CUSTOMER:-

GROUP:-

HEAVY FOUNDRY & FORGE
TAXILA

INSULATION TILE

REVISION NO. DATE SIGN.

DESIGNED

APPROVED

SCALE

WEIGHT

MAT.

APPLICATION NO. POSITION

DRAWN

DATE

DRAWING NO.

REF. DRG. NO.

A. KHALIQ

20.4.1977

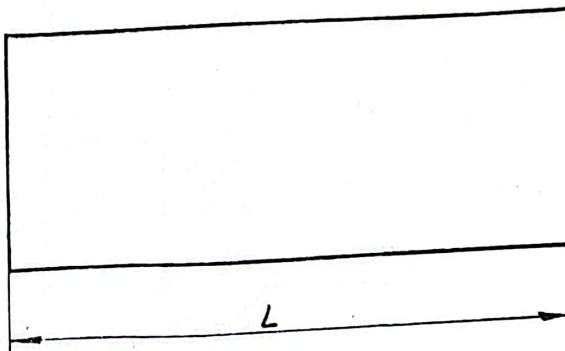
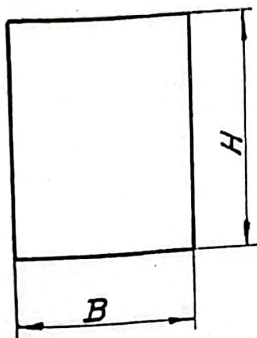
5.7 KG CLAY.

C-23

CHECKED

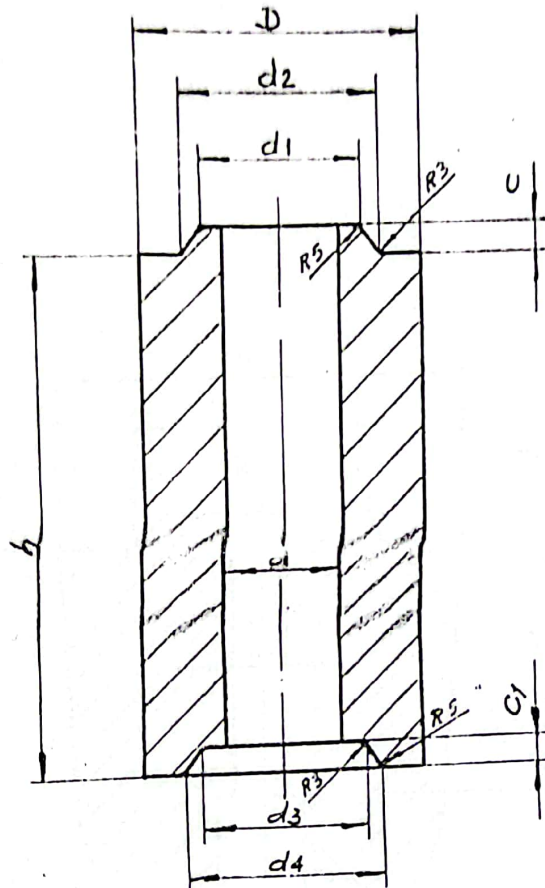
NATURE OF PIECE

W10-041



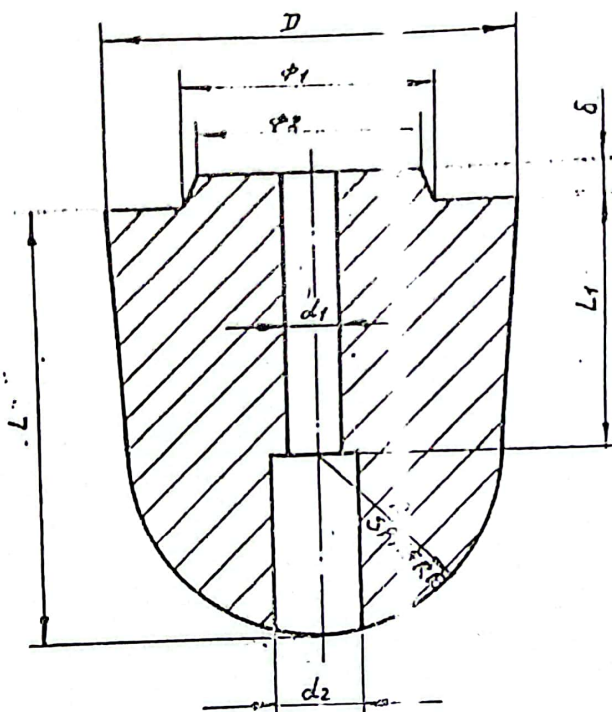
C-16	250	100	80	4.3
A ₆ -4	250	140	80	5.9
A ₆ -1	300	140	80	7.2
Ref. Drg No.	L	H	B	Wt.

CUSTOMER:-			GROUP:-		HEAVY FOUNDRY & FORGE TAKILAR		
			LADLE BOTTOM BRICK				
A	13.3.2000	<input checked="" type="checkbox"/>	DESIGNED	APPROVED	SCALE	WEIGH	MAT.
REVISION	DATE	SIGN					
APPLICATION NO.		POSITION	DRAWN	DATE	DRG. NO.		
REF. DRG. NO.			CHECKED	23.7.80	W10-046		
C-16, A ₆ -4, A ₆ -1.				NATURE OF PIECE	A		



DRAWING NO.	SIZE mm.									WEIGHT
	h	D	d	d1	d2	d3	d4	C	C1	kg
X-1	200	100	40	63	67	67	72	10	12	2.8
X-2	200	125	48	75	81	79	86	14	16	4.5
X-4 A	300	145	54	82	88	86	93	14	16	9.0
A1-3	300	165	54	82	88	86	93	14	16	10

CUSTOMER:-			GROUP-LADLE BRICKS		HEAVY FORGE & FORGE TANKS		
A			SLEEVE BRICK				
REVISION	DATE	SIGN.	DESIGNED	APPROVED	SCALE	WEIGHT	MAT.
	13.3.2000						
APPLICATION NO.	POSITION	DRAWN	DATE	DRG. NO.			
REF. DRG. NO.		CHECKED	10.7.1980	W10-045 A			
A1-3	X-1, 2 & 4		NATURE OF PIECE				



△ R67.5 IS ADDED IN S-8

* $AO_2 O_3 = 55\% \text{ Min.}$

Fix Carbon = 5~8%

A2-5	140	125	81	75	23	36	75	12	57.5	2.7
S-8	160	145	88	82	20	30	95	12	67.5	4.5
Cn-11	160	145	88	82	20	31	80	14	67.5	4.5
A2-1	160	165	88	82	23	35	85	14	67.5	5
Ref. Drg. No.	L	D	ϕ_1	ϕ_2	d_1	d_2	L1	δ	R	Wt.

CUSTOMER:-			GROUP:-		HEAVY FOUNDRY & LARGE TAXILA		
A			STOPPER END (PIN TYPE)				
REVISION	DATE	SIGN.	DESIGNED	APPROVED	SCALE	WEIGHT	MAT.
APPLICATION NO.	POSITION	DRAWN	CHECKED	DATE	DAS. NO.		
REF. DRG. NO.				22.7.1980	1710-031A		
A2-5, S-8, Cn-11, A2-1			NO. OF PIECE				