Material Specification

1	HEARTH TOP OUTER CONTOURED BRICK GB – 1 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
2	HEARTH TOP CONTOURED BRICK GB – 2 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
3	HEARTH TOP CONTOURED BRICK GB – 3 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
4	HEARTH TOP CONTOURED BRICK GB – 4 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
5	HEARTH TOP CONTOURED BRICK GB – 5 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(Ms
6	HEARTH TOP CONTOURED BRICK GB – 6 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
7	HEARTH TOP CONTOURED BRICK GB – 7 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles

8	HEARTH TOP CONTOURED BRICK GB – 8 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycl es
9	HEARTH TOP CONTOURED BRICK GB – 9 DRAWING NO.: 3-7-1101-01-10008-REV.01 MATERIAL :- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycl es
10	HEARTH TOP FLAT BRICK FB-1 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19M ax(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
11	HEARTH TOP FLAT BRICK FB-2 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19 Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
12	HEARTH TOP FLAT BRICK FB-3 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
13	HEARTH TOP FLAT BRICK FB-4 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19M ax(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
14	HEARTH TOP FLAT BRICK FB-5 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19 Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
15	HEARTH TOP FLAT BRICK FB-6 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19 Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
16	HEARTH TOP FLAT BRICK FB-7 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % =

	1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C) , 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
17	HEARTH TOP FLAT BRICK FB-8 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19 Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
18	HEARTH TOP FLAT BRICK FB-9 DRAWING NO : 3-7-1101-01-10008-REV.01 Material:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
19	HEARTH TOP FLAT BRICK FB-10 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
20	HEARTH TOP FLAT BRICK FB-11 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
21	HEARTH TOP FLAT BRICK FB-12 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
22	HEARTH TOP FLAT BRICK FB-13 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
23	HEARTH TOP FLAT BRICK FB-14 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
24	HEARTH TOP FLAT BRICK FB-15 DAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 – 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19 Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles

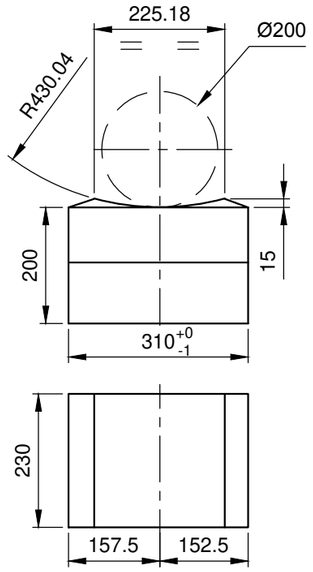
25	HEARTH TOP FLAT BRICK FB-16 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 - 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
26	HEARTH TOP FLAT BRICK FB-17 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 - 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
27	HEARTH TOP FLAT BRICK FB-18 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 - 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
28	HEARTH TOP FLAT BRICK FB-19 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 - 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
29	HEARTH TOP FLAT BRICK FB-20 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1. 5 - 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 19Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles
30	HEARTH TOP FLAT BRICK FB-21 DRAWING No. : 3-7-1101-01-10008-REV.01 MATERIAL:- Al203 % = 80 +/-1.5 Fe203 % = 1.5 - 2.0 PCE SK = 36 Min. RUL Ta deg.C = 1630 Min. PLC % Max = +/- 0.5 @ 1600 deg.C/1Hr. AP % Max = 16 Max(M/C), 1 9Max(H/M) CCS-Kg/sq.cm = 800 Min(M/C), 500 Min(H/M) B.D gm/cc = 2.8 Min(M/C), 2.7 Min(H/M) SPALLING(A/Q) = + 30 Cycles

TECHNICAL DELIVERY CONDITIONS

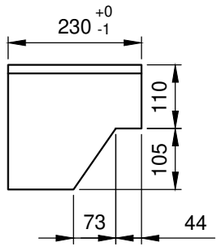
- Materials to be delivered through pallet packing to prevent damages during transit. Acceptance of material is based on condition at receipt only.
- Original Test Certificates for all specifications and Chemical Composition to be produced along with supply. If the submitted specifications do not meet the lab test conducted at BHEL Plant lab (NABL Accredited) or any independent lab, the entire lot is liable to be rejected and is to be taken back by the vendor at his own cost.
- Dimensional reports to be provided by random sampling of 1% of total shaped refractory brick, including weight. Weight of each shaped refractory brick can be referred from the reference drawing No.
- Material Inspection will be carried out by M/S. BHEL Inspector or BHEL authorised third party Inspection at Supplier's works if necessary prior to dispatch of all materials. Relevant parts IS: 1528 will be reference standard during inspection.
- Offer is considered only on free door delivery at SSTP STORES including unloading charges

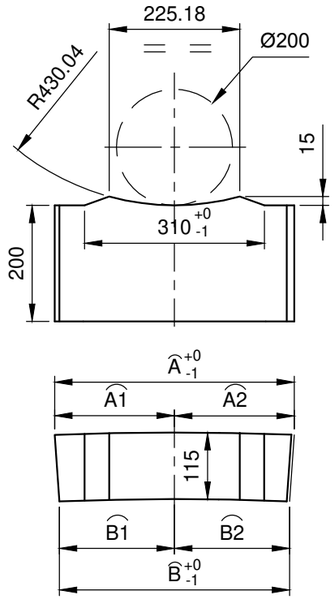
ALL DIMENSIONS ARE IN MILLIMETRES

DRAWING NO: 3-7-1101-01-10008

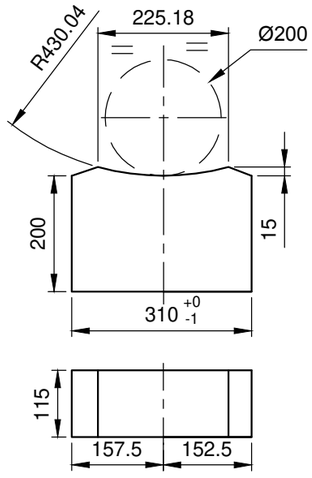


ITEM NO: 1 (OUTER)

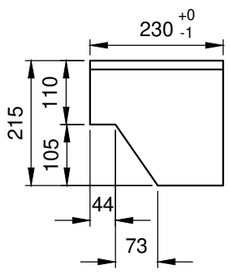


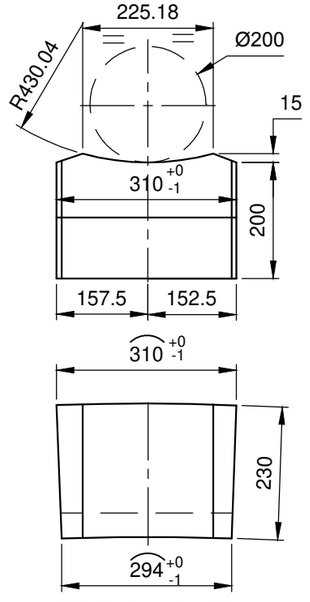


ITEM NO: 3b TO 3g (MIDDLE)



ITEM NO: 3a (MIDDLE)





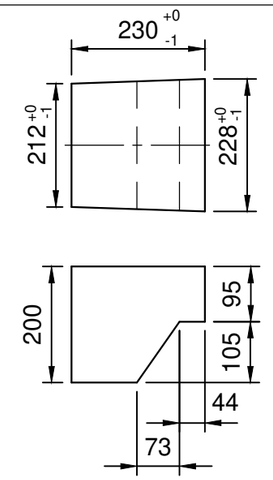
ITEM NO: 2 (INNER)

GROOVED BRICKS (GB)

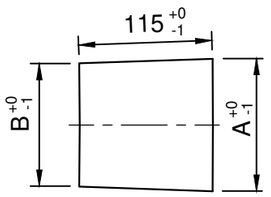
ITEM NO IN ASSY	DIMENSION A	A1	A2	B	B1	B2	QTY (in Nos)	UNIT wt
1	As per Drawing						90	35.17
3a	As per Drawing						1800	20.02
3b	359	179.5	174.5	351	175.5	170.5	90	22.25
3c	351	175.5	170.5	343	171.5	166.5	90	21.24
3d	343	171.5	166.5	335	167.5	162.5	90	20.53
3e	335	167.5	162.5	327	163.5	158.5	90	20.25
3f	327	163.5	158.5	319	159.5	154.5	90	20.35
3g	319	159.5	154.5	311	155.5	150.5	90	21.39
2	310	155	150	294	147	142	90	40.15

FLAT BRICKS (FB)

ITEM NO IN ASSY	DIMENSION A	B	Quantity (in Nos)	UNIT wt
3i	As per Drawing		90	22.30
3j	212	204	90	12.92
3k	204	196	90	12.42
3l	196	188	90	11.92
3m	188	180	90	11.43
3n	180	172	90	10.93
3o	172	164	90	10.43
3p	164	156	90	9.94
3q	156	147	90	9.41
3r	147	139	90	8.88
3s	139	131	90	8.38
3t	131	123	90	7.89
3u	123	115	90	7.39
3v	115	107	90	6.89
3w	107	99	90	6.40
3x	99	90	90	5.87
3y	90	82	90	5.34
3z	82	74	90	4.84
3aa	74	66	90	4.35
3bb	66	58	90	3.85
3cc	58	50	90	3.35



ITEM NO: 3i (OUTER)



ITEM NO: 3j TO 3cc (MIDDLE)

Material for GB & FB :

	Al_2O_3 %, min	: 80
:	Fe_2O_3 %, max	: 1.5 - 2
	B.D ,gm/cc	: 2.7
	C.C.S ,kg/cm^2	: 600
	A.P % ,gm/cc	: 8.22
	PLC % ,max	: 1.5@1600°C/2Hrs
	PCE ,S.K min	: 37
	R.U.L.ta°C ,min	: 1550

NOTES:

1. The Refractories shall be of Homogeneous texture and free from cracks, voids and other flaws. It shall be evenly burnt throughout and shall have sufficiant mechanical strength and no soft corners.
2. All Corners to be minimum 3mm. Radii,Unless otherwise stated.
3. Tolerance on size +0 -1

REF: ASSY DRG NO. : 1-7-1101-02-10074

REV	DATE	
01	7.2.2015	ALTERED SSN.Kumar/K.Nr CHECKED R.K.Singh APPROVED G.Loganathan

CONTOUR RADIUS R430.04 ADDED
BRICK HEIGHT 215 WAS 250
(BASED ON USER'S REQUIREMENT)

ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE / MATL SPEC	UNIT WT / QTY

EQPT: ROTARY HEARTH FURNACE

Bharat Heavy Electricals Ltd
SEAMLESS STEEL TUBE PLANT
TIRUCHIRAPALLI – 620014

	NAME	SIGNATURE	DATE
DRN	SSN.KUMAR	SSN.Kumar	2.2.11
CHD	R.RAGUVEER	R.Raguveer	2.2.11
APPD	G.LOGANATHAN	G.Loganathan	2.2.11

DEPT	GRADE OF UNTOL. DIM		SCALE	WEIGHT (Kg)	REF TO ASSY DWG NO	ITEM
SSTP	¢/M/F		1:10	70822		–
CODE 456	IS: 2102				REF TO OLD DWG NO	

TITLE: RHF -HEARTH TOP LAYER CONTOURED REFRACTORY BRICKS

CARD CODE: U 01

DRAWING NO : 3-7-1101-01-10008

REV: 01

A3–SIZE

ANNEXURE-I

SL NO	PRE QUALIFICATION REQUIREMENT	VENDOR'S COMMENTS
1	Vendors shall be Manufacturer of Refractory bricks containing alumina minimum 55%. The vendor shall be in the field of refractory manufacturing for a minimum period of 5 years from the date of tender. Udyam certificate/registration certificate to indicate the experience in refractory manufacture for past 5 years or more to be provided.	
2	Vendor should have supplied similar Refractory shape bricks containing alumina minimum 55% to projects with operating temperatures exceeding 1500°C within the past 5 years. The proof of such supply (Executed Purchase Order Copy along with TDS (Tax Deducted at Source) certificate issued by the organization or Form 26 AS or Bank statement for transaction of payment for completion of supply), along with technical specifications of the supplied bricks to be provided as proof of experience and shall be submitted with the offer.	
3	The vendor shall submit detailed technical specification of Refractory bricks containing alumina minimum 55%, and of their make, equivalent to BHEL required specification.	
	COMMON FOR ALL	
4	If the submitted specifications of vendor supplied material do not match the lab test of supplied bricks conducted at BHEL Plant lab (NABL Accredited) or any independent lab, the entire lot is liable to be rejected and is to be taken back by the vendor at his own cost within 3 months, failing which the material will be disposed off by BHEL.	
5	Offers not meeting the above requirements shall be liable for rejection. Kindly submit only one OR two relevant document related to Pre-Qualification requirement of previous supply. Avoid sending multiple documents which is liable for rejection.	

ANNEXURE -II

SL NO	Documents requirements	VENDOR'S COMMENTS
1	Signed copy of technical specification and drawing with organization seal/stamp	
2	Executed Purchase Order Copy of Refractory bricks containing alumina minimum 55%, Form 26 AS or Bank statement for transaction of payment for completion of supply to meet the requirements in Annexure I Sl No 2A. Copy of the tax invoice / Delivery challan from the customer for the purchase order should be submitted as the documentary proof	
3	Filled in & signed copy of Annexure I - PQR details with organization seal /stamp	
4	Filled in & signed copy of Annexure B & C (BHEL Technical Cum Commercial Terms And Conditions)for Indigenous Vendor with organization seal / stamp	
5	The vendor shall submit detailed technical specification and MSDS of bricks of their make, equivalent to or better than BHEL required specification.	