

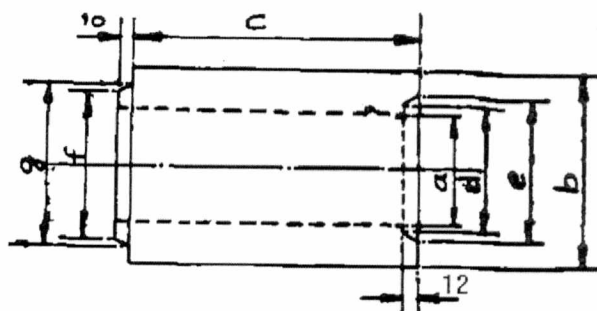
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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

REV. 01	DATE 30/7/72	ALTERED	CHECKED	REV. 02	DATE 31/8/72	ALTERED	CHECKED	ADDITIONAL INFORMATION
Specification changed				SPEC. AA S3304 TYPE-B WAS MP-092				STATUS OF DRAWING
								DISTRIBUTION OF PRINTS

REFRACTORY PIPES							
ITEM No	d	e	f	g	a	b	C
1	51	55	47	50	φ 40	φ 65	200
2	40	44	36	40	φ 25	φ 60	200



1. HIGH HEAT DUTY FIRE CLAY

2. SPEC. NO A A 53304 TYPE-B

SAP Drawing No.	Rev No.
4-39999-40011	02

Drawn on 3.2.72.

85	75	25	27	29	58	59	34	MATL CODE	45	55	58	58	UNIT WT.	85		
REMARKS		ITEM NO.		DESCRIPTION		STD		46	MATL SPECN.	54	A	C	UNIT	06	QTY.	71

CARD TYPE-3 → 28 → 28 → CARD TYPE-1 → 28 → CARD TYPE-2



BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

DRN.	NAME	LU.	SIGN.	DATE
CHD.	S. C. Rao			9.7.87
APPD.	R. V. Iyer			9.7.87

DEPT. P & P	GRADE OF UNTEL. ENG. G I M / P	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	75	77
CODE 204				5-04-011			

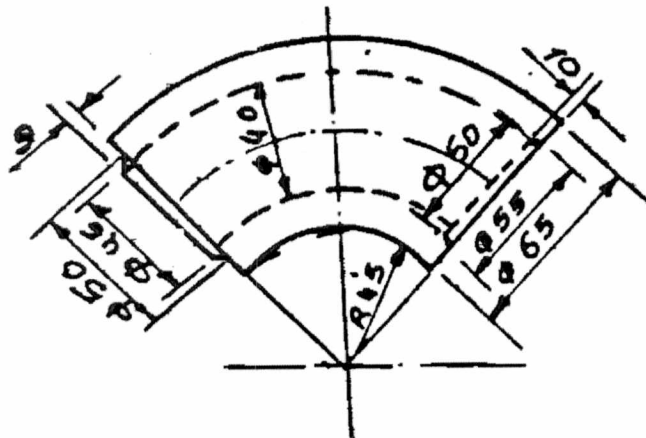
TITLE	1	37	DRAWING NO.	22	23	24
SLEEVES	CARD CODE		4-04-011	REV.		02
SHEET NO.			NO. OF SHEETS			

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN MM)

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REV. 01	DATE 2-2-72	ALTERED <i>[Signature]</i>	REV. 02	DATE 1-2-72	ALTERED <i>[Signature]</i>	ADDITIONAL INFORMATION
CHECKED <i>[Signature]</i>			CHECKED <i>[Signature]</i>			STATUS OF DRAWING
SPEC. CHANGED.			SPEC. NO. AA53304. WAS MP92			DISTRIBUTION OF PRINTS



1. HIGH HEAT DUTY FIRE CLAY.

2. SPEC. NO. AA53304 TYPE B

SAP Drawing No.	Rev No.
4-39999-40013	02

REMARKS		ITEM NO.	DESCRIPTION	STD	MATL. CODE	MATL. SPECN.	UNIT	UNIT WT.	QTY.
CARD TYPE-3		CARD TYPE-1		CARD TYPE-2					
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD				DRN.	NAME G. N. R. S. I. M. L. V.		SIGN.	DATE	
				CHD.					
				APPD.					
DEPT. E&P	CODE 204	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.			ITEM NO.	78.77	REV. 02
TITLE				DRAWING NO.			REV.		
BEND ϕ 40				4-04-013			02		
				SHEET NO.			NO. OF SHEETS		

INVENTORY NO. [REDACTED] **SIGN AND DATE** [REDACTED] **REF. DRG. NO.** [REDACTED]
Subject: Sr. Priority request for crossheads castings - regarding
From: Bapi Raju <bapiraju@bhel.in>

To: ANUPAM DAS <anupamdas@bhel.in>

TO: ANUPAM
GENERAL DIMENSIONAL LIMITS,
CC: SUDHAKAR
WEIGHTS & TOLERANCES AS PER
RATNAM K
P.S: HY0230261

Subhash Chandra Jha <scjha@bhel.in>, D PAVITHRAM, डी पवित्रम <devasari@bhel.in>, VENKATA	REV. O
--	--------

AGRAWAL <abhinav@bhel.in>, RAJEEV KUM
taratnam Sir. We are in urgent need of
closed file.

GENERAL DIMENSIONAL LIMITS,
FITTS & TOLERANCES AS PER
IS: HY0230261

[illegible]

HYDERABAD
BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

- Paper
 - Eggs - Oilrigs
 - BHEL
 - C. PURA
 - M.

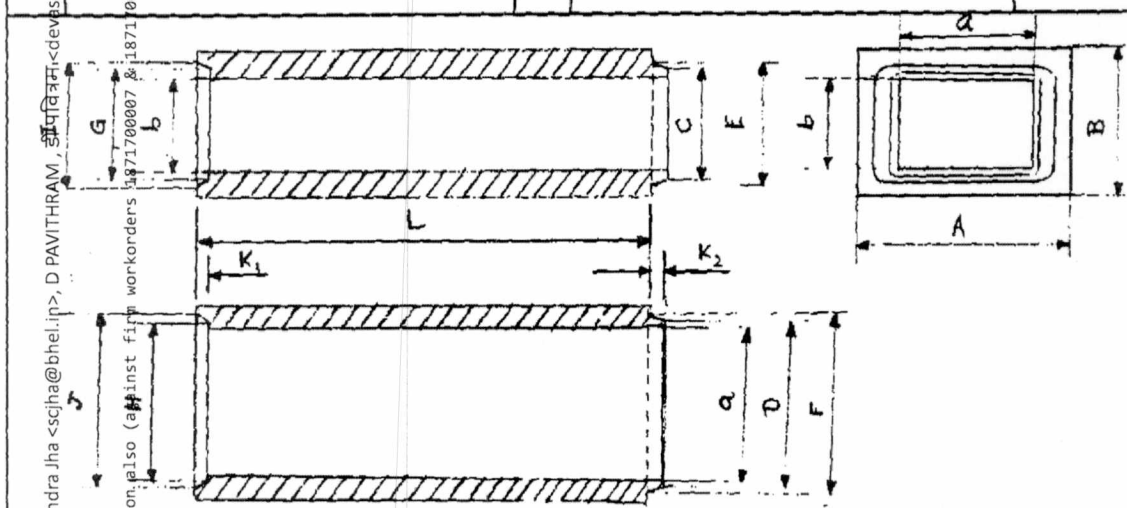
Attachments:

Casting Requirement Details-1.xls 	DESCRIPTION HEAVY ELECTRICAL HYDERABAD
	SCALE N.T.S.

	NAME	SIGN.	DATE	NO.OF VAR.
DRN.	ARPANA	<i>Asala</i>	08.03.12	
CHD.	ABHINAV	<i>Abhinav</i>	08.03.12	-NA-
APPD.	MNA	<i>MNA</i>	08.03.12	
HT(KG)	REF. TO ASSY DRG.		ITEM NO.	NO.OF ITEMS
	-NA-		-NA-	-NA-

CARD CODE	DRAWING NO.		REV.
	4 - 04 - 287		03
-NA-	SHT No. 1	NO OF SHT. 1	

FIRST ANGLE PROJECTION				(ALL DIMENSIONS ARE IN mm)			
REV.	DATE	ALTERED		REV.	DATE	ALTERED	
01	29.7.92	CHECKED	16.5 KB	02	10.6.96	CHECKED	03
SPEC CHANGED				SPEC NO. AA53304 ADDED			
RE-DRAWN							



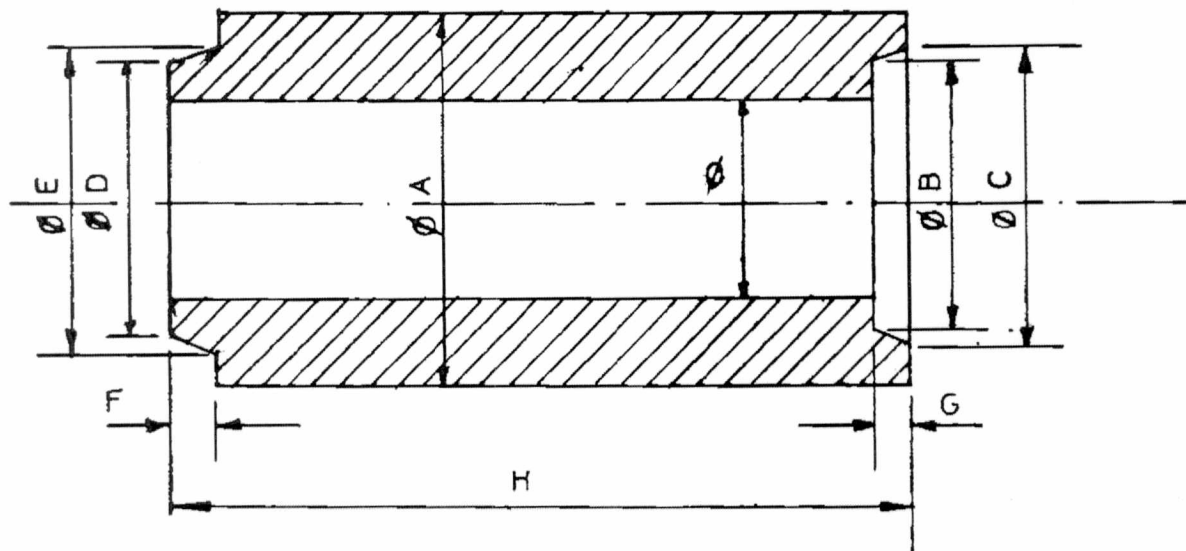
1. HIGH HEAT DUTY FIRE CLAY | MATERIAL HIGH HEAT DUTY FIRE CLAY AS PER
SPEC NO AA53304 TYPE B

S.No	A	B	a	b	C	D	E	F	G	H	I	J	K ₁	K ₂	L
1.	75	45	<u>50</u>	<u>20</u>	30	60	32	62	32	62	34	64	6	5	200
2.	75	45	<u>50</u>	<u>15</u>	30	60	32	62	32	62	34	64	6	5	200

SAP Drawing No.	Rev No.
4-39999-40287	03

1 of 1

14-Aug-17 3:32 PM



Sap Drg. No.	Rev No.
4-39999-40616	03

S NO	ϕ	ϕA	ϕB	ϕC	ϕD	ϕE	F	G	H	$\frac{\phi A - \phi}{2}$	Sec Cm ²	W.t Kgs
1	40	65	50	52	48	50	6	7	200	12.5	12.6	0.699
2	50	75	62	64	60	62	6	7	200	12.5	19.7	0.904
3	60	85	72	74	70	72	7	8	300	12.5	28.3	1.61
4	75	100	87	89	85	87	7	8	300	12.5	44.2	1.97

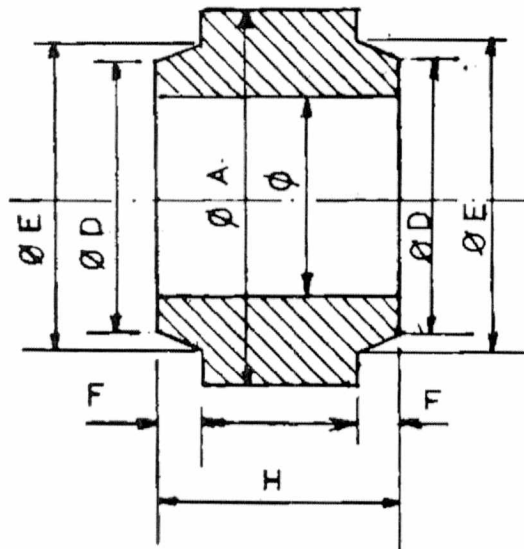
Matl :- 1. HIGH HEAT DUTY FIRECLAY

2. SPEC. No: A A 53304 TYPE B

3. ALL DIM. ARE IN MM ONLY.

SAP Drawing No.	Rev No.
4-39999-40616	03

QTY	DESCRIPTION	RAW MAT DIMENSION	MATERIAL CODE	NT. WT	DRAWING NO.	ITEM NO.
			MATERIAL SPECN	GR. WT		
REMARKS				TOTAL NET WT (KG)		
REV	DATE	ALTERED CHECKED	TYPE	GROUP	BHARAT HEAVY ELECTRICALS LTD. HYDERABAD.	
01: wt added at 9/3/91					TITLE SLEEVE	
02: Drg. M. Faced and 91-003 & 4 added on 9-8-92					 TD - 181 REV - 0	
03: Spec. AAS3304					 4-04-616 REV: 03	
OLD DRAWING NO.		SCALE				



S.No	Ø	ØA	F	ØD	ØE	H	$\frac{ØA-Ø}{2}$	Sec Cm	Wt Kgs
1	40	65	6	48	50	50	12.5	12.6	0.159
2	50	75	6	60	62	50	12.5	19.7	0.254
3	60	85	7	70	72	50	12.5	28.3	0.268
4	75	100	7	85	87	50	12.5	44.2	0.328

Matl : 1. HIGH HEAT DUTY FIRECLAY
 2. SPEC-NO A-A 53304 TYPE B
 3 ALL DIM ARE IN MM ONLY.

SAP Drawing No.	Rev No.
4-39999-40615	03

QTY	DESCRIPTION	RAW MAT DIMENSION	MATERIAL CODE	NT. WT	DRAWING NO.	ITEM NO.
			MATERIAL SPECN	GR. WT		
REMARKS					TOTAL NET WT (KG)	
REV	DATE	ALTERED CHECKED	TYPE	GROUP	BHARAT HEAVY ELECTRICALS LTD. HYDERABAD.	
01	Wt. added on 9-3-91				TITLE	
02	Sl. no 3 & 4 added and Refraced on 8/4/91				CONNECTION	
03	Spec. AAS3304 added on 14-2-97				TD-181 REV-0	
DEPT		OLD DRAWING NO.	SCALE	4-04-615		
				REV: 0.3		