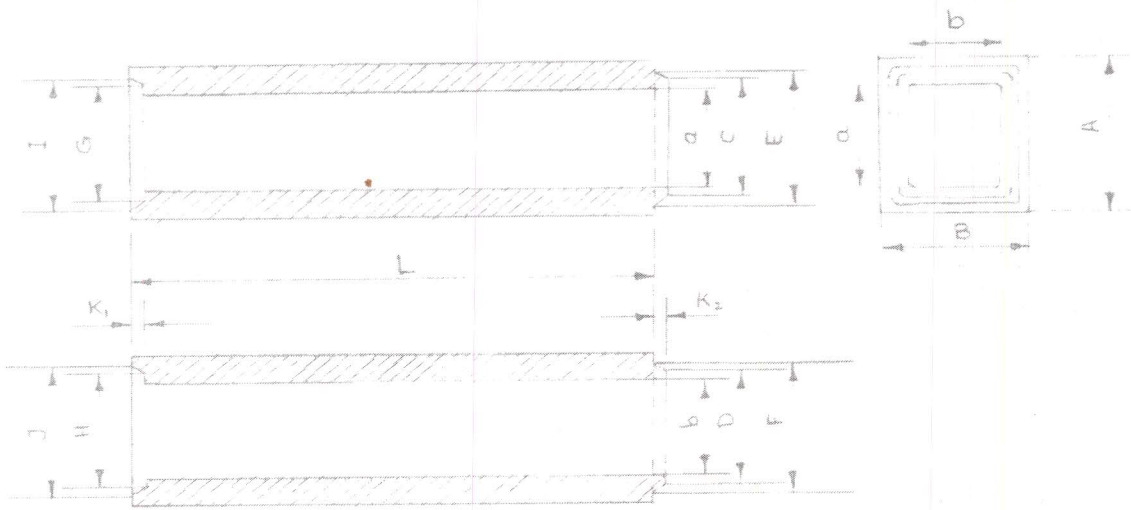


FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

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REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE	ALTERED
01	29.7/92	CHECKED	02	10.6.96	CHECKED	03	08.03.12	CHECKED
SPEC CHANGED			SPEC NO REVISED FOR AA 53304			RE-DRAWN		



1. HIGH HEAT DUTY FIRECLAY

MATERIAL : HIGH HEAT DUTY FIRECLAY
AS PER SPEC NO : AA 53304 TYPE - B

S.No	A	B	a	b	C	D	E	F	G	H	J	J	K ₁	K ₂	L
1	125	105	100	80	110	90	112	92	112	92	114	94	8	7	300
2	100	90	75	65	85	75	87	77	87	77	89	79	8	7	300

SIGN. AND DATE REF. DRG. NO. INVENTORY NO

REMARKS	ITEM NO	DESCRIPTION	STD	MATL. CODE	A/C	UNIT	UNIT Wt.
							QTY.

DEPT. F&P
CODE 204A

UNTO. DIM. GR. 2/M/F

SCALE N.T.S

WEIGHT(KG)

REF. TO ASSY DRG. -NA-

ITEM NO. -NA-

NO. OF ITEMS -NA-

TITLE **SLAG TRAP-1**

DRAWING NO. **4-04-284**

CARD CODE -NA- SHT No. 1 NO OF SHT. 1

DRN. ARPANA *Arpana* 8.03.12

CHD. ABHINAV *Abhinav* 9.03.12 -NA-

APPD. MNA *MNA* 8.03.12

GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER P.S.:HYO230261

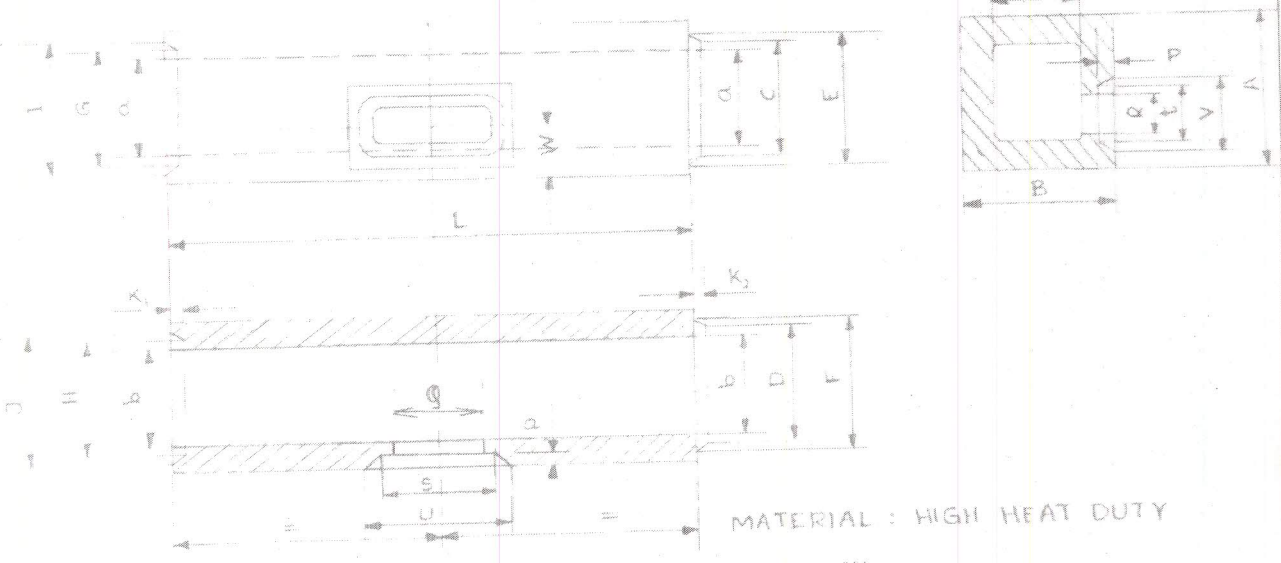
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

REV. DATE ALTERED	REV. DATE ALTERED	REV. DATE ALTERED
01 29/7/92 CHECKED	02 10.6.96 CHECKED	03 08.03.12 CHECKED
SPEC CHANGED	SPEC NO. REVISED FOR AA53304	RE-DRAWN




MATERIAL : HIGH HEAT DUTY FIRE CLAY

- HIGH HEAT DUTY FIRE CLAY
- SPEC. NO. AA53304 TYPE - B

S.No	Q	R	S	t	U	V	W	P
1	50	20	62	32	64	34	25	C
2	50	15	62	32	64	34	25	G

S.No	A	B	a	b	c	D	E	F	G	H	I	J	K ₁	K ₂	L
1	125	105	100	80	110	90	112	92	112	92	114	94	8	7	250
2	100	90	75	65	85	75	87	77	87	77	89	79	8	7	250

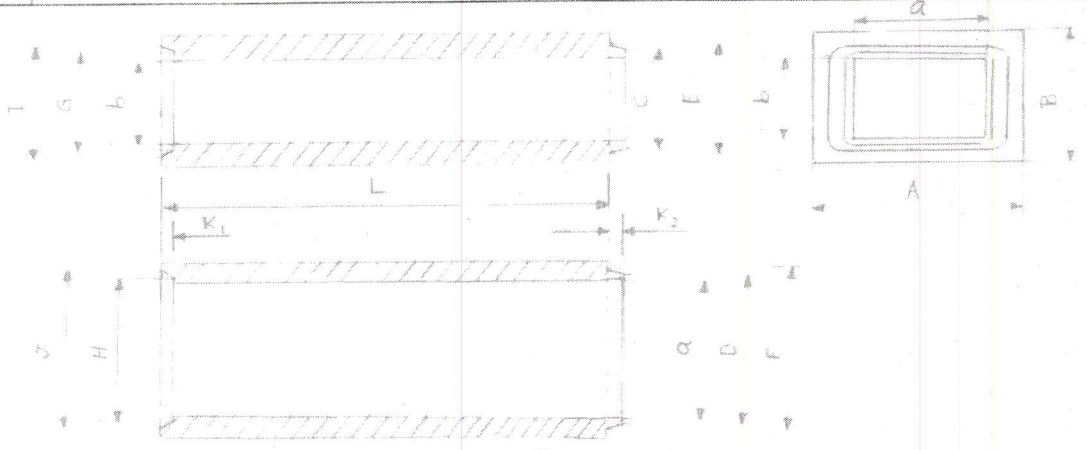
SIGN. AND DATE	REF. DRG. NO.	REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE	A/C	UNIT	UNIT Wt.
						MATL. SPEN.			QTY.
INVENTORY NO.	GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER P.S.HYO230261	 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD			DRN. NAME	SIGN.	DATE	NO. OF VAR.	
		DEPT. F&P	UNTOL. DIM. GR. R/M/P	SCALE N.T.S.	WEIGHT (KG)	REF. TO ASSY DRG. -NA-	ITEM NO. -NA-	NO. OF ITEMS -NA-	
		TITLE	SLAG TRAP III		CARD CODE	DRAWING NO. 4-04-286		REV. 03	
						SHT No. 1	NO OF SHT. 1		

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

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REV. 01	DATE 29.7.92	ALTERED CHECKED	REV. 02	DATE 10.6.96	ALTERED CHECKED	REV. 03	DATE 08.03.12	ALTERED CHECKED
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 E

S No	A	F	a	b	c	d	e	f	g	h	i	j	k ₁	k ₂	L
1.	75	45	50	20	30	60	32	62	32	62	74	64	6	5	200
2.	75	45	50	15	30	60	32	62	32	62	74	64	6	5	200

SIGN. AND DATE REF. DRG. NO. INVENTORY NO.

REMARKS	ITEM NO	DESCRIPTION	STD	MATL. CODE	A	UNIT Wt.	
				MATL. SPEN.	C	QTY.	
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD			DRN.	NAME ARPAND	SIGN. <i>Arpana</i>	DATE 08.03.12	NO. OF VAR.
			CHD.	NAME ABHINAV	SIGN. <i>Abhinav</i>	DATE 08.03.12	-NA-
			APPD.	NAME MNA	SIGN. <i>MNA</i>	DATE 08.03.12	-NA-
DEPT. F&P	UNTOL. DIM. GR. R/M/P	SCALE N.T.S	WEIGHT(KG)	REF. TO ASSY DRG.	ITEM NO.	NO. OF ITEMS	
CODE 204A				-NA-	-NA-	-NA-	
TITLE INGATES				CARD CODE	DRAWING NO.	REV.	
				-NA-	4 - 04 - 287	03	
				SHT No.	1	NO OF SHT. 1	

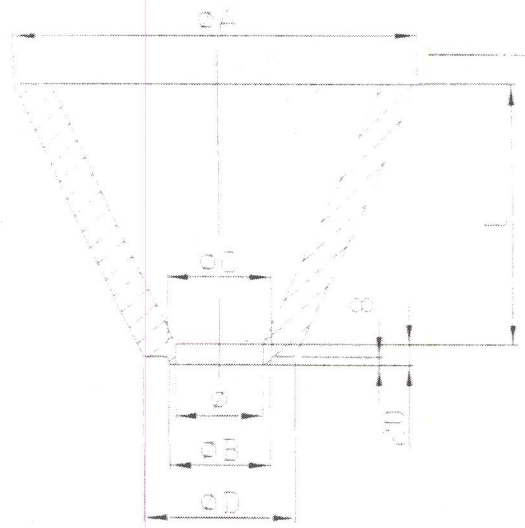
GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER P.S.:HY0230261

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

INVENTORY NO. SIGN AND DATE REF. INVENTORY NO. THE INFORMATION ON THIS DOCUMENT IS PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED



S NO.	Φ	ΦA	ΦB	ΦC	ΦD	E
1	80	360	92	95	136	230
2	90	430	103	107	136	300
3	100	430	116	120	158	300
4	120	430	138	142	175	300
5	150	460	172	175	200	300

TOLERANCE: ±2% OR ±2mm WHICHEVER IS GREATER
 MATERIAL: HIGH HEAT DUTY FIRE CLAY AS PER SPEC NO: AA 53304, TYPE 'B'

REMARKS	ITEM NO	DESCRIPTION	STD	MATL. CODE	A	UNIT	UNIT Wt.
				MATL. SPEN.			C
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD				NAME	SIGN.	DATE	NO. OF VAR.
				DRN. ARPANA K	<i>Arpana</i>	09.09.11	
				CHD. V.L. NATH	<i>V.L. Nath</i>	09.09.11	-NA-
				APPD. M. N. A	<i>M.N.A.</i>	09.09.11	
DEPT. F&P	UNTOL. DIM. GR. R/M/B		SCALE N.T.S	WEIGHT(KG)	REF. TO ASSY DRG. -NA-	ITEM NO. -NA-	NO. OF ITEMS -NA-
CODE 204A	TITLE		CARD CODE -NA-	DRAWING NO. 4-04-898	REV. 00		
REFRACTORY POURING CUP (FOR STEEL CASTINGS)		SHT No. 1	NO OF SHT. 1				

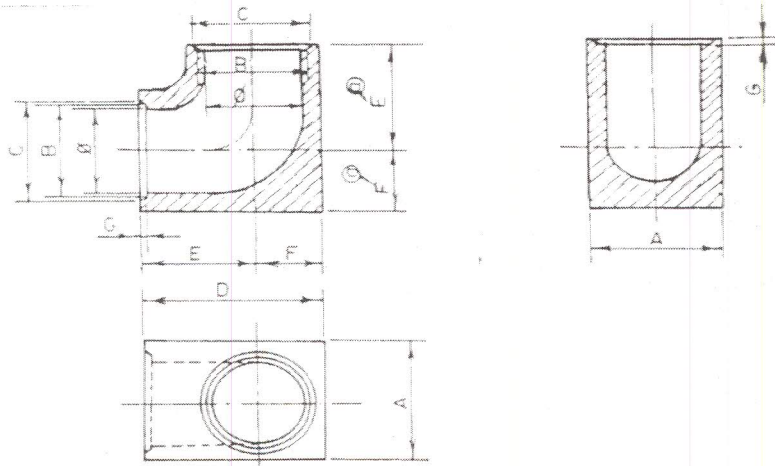
GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER P.S. HY0230261

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)



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REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED



SNO.	Φ	A	B	C	D	E	F	G	(A-Φ)/2	SECTION Cm ²	VOLUME Dm ³
1	80	110	95	97	145	90	55	5	15	50.3	1.003
2	90	125	107	110	163	100	63	7	17.5	63.6	1.466
3	100	140	120	123	175	105	70	7	20	78.5	2.005
4	120	165	142	145	203	120	83	7	22.5	113.1	3.165
5	150	200	175	178	250	150	100	7	25	176.7	5.489

TOLERANCE: ±2% OR ±2mm WHICHEVER IS GREATER
 MATERIAL: HIGH HEAT DUTY FIRE CLAY AS PER SPEC NO: AA 53304, TYPE 'B'

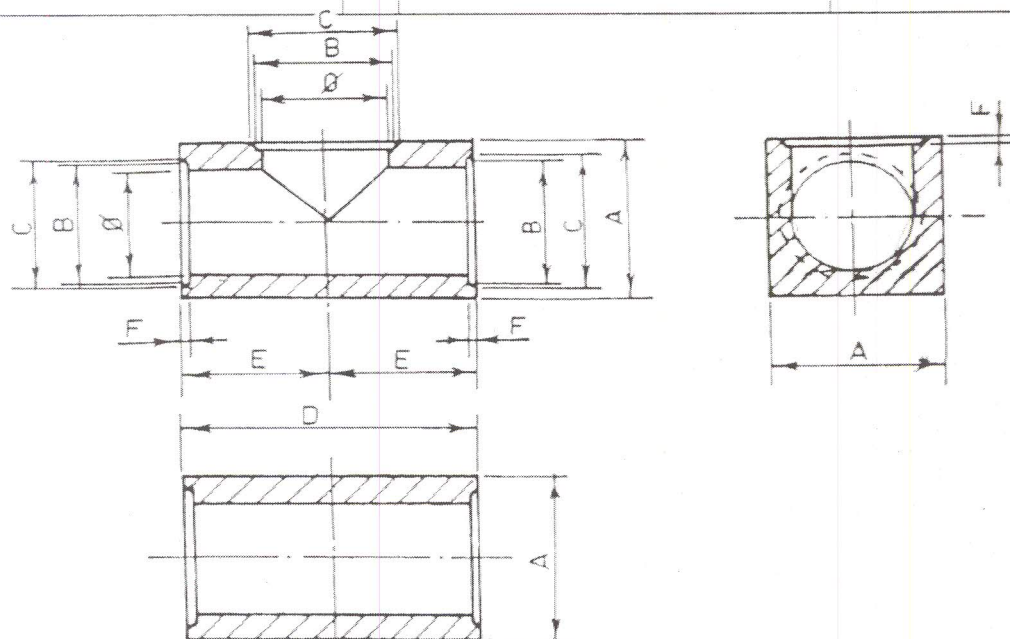
SIGN. AND DATE	REF. DRG. NO.	REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE	A	UNIT Wt.	
						MATL. SPEN.	C	QTY.	
INVENTORY NO.	GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER P. S. HY0230261	 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD				NAME	SIGN.	DATE	NO. OF VAR.
		DEPT. F&P	UNTOL. DIM. GR. R/M/B	SCALE N.T.S.	WEIGHT(KG)	DRN. ARPAVA K	<i>[Signature]</i>	09.09.11	
		CODE 204A				CHD. V.L.NATH	<i>[Signature]</i>	09.09.11	-NA-
TITLE					APPD. M.N.A	<i>[Signature]</i>	09.09.11		
					REF. TO ASSY DRG. -NA-			ITEM NO. -NA-	NO. OF ITEMS -NA-
					DRAWING NO. 4-04-901				REV. 00
					CARD CODE -NA-				
					SHT No. 1			NO OF SHT. 1	

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)


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REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED



S NO.	Φ	A	B	C	D	E	F	(A-Φ)/2	SECTION CM ²	VOL. DM ³
1	80	110	95	97	180	90	5	15	50.3	1.17
2	90	125	107	110	200	100	7	17.5	63.6	1.672
3	100	140	120	123	210	105	7	20	78.5	2.211
4	120	165	142	145	240	120	7	22.5	113.1	3.43
5	150	200	175	178	300	150	7	25	176.7	5.588

TOLERANCE: ±2% OR ±2mm WHICHEVER IS GREATER
MATERIAL: HIGH HEAT DUTY FIRE CLAY AS PER SPEC NO: AA 53304, TYPE 'B'

REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE	A	UNIT Wt.
				MATL. SPEN.	C	QTY.
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD	DRN.	NAME	SIGN.	DATE	NO. OF VAR.	
	CHD.	ARPANA K	<i>[Signature]</i>	09.09.11		
	APPD.	V. L. NATH	<i>[Signature]</i>	09.09.11	-NA-	
DEPT F&P	UNTOL. DIM. GR.	SCALE	WEIGHT(KG)	REF. TO ASSY DRG	ITEM NO.	NO. OF ITEMS
CODE 204A	Ø/M/P	N.T.S		-NA-	-NA-	-NA-
TITLE				DRAWING NO.	REV.	
REFRACTORY TEES (FOR STEELM CASTINGS)				4-04-902	00	
			SHT No.	NO OF SHT.		
			1	1		

GENERAL DIMENSIONAL LIMITS,
FITS & TOLERANCES AS PER
P.S: HY0230261

INVENTORY NO

SIGN AND DATE

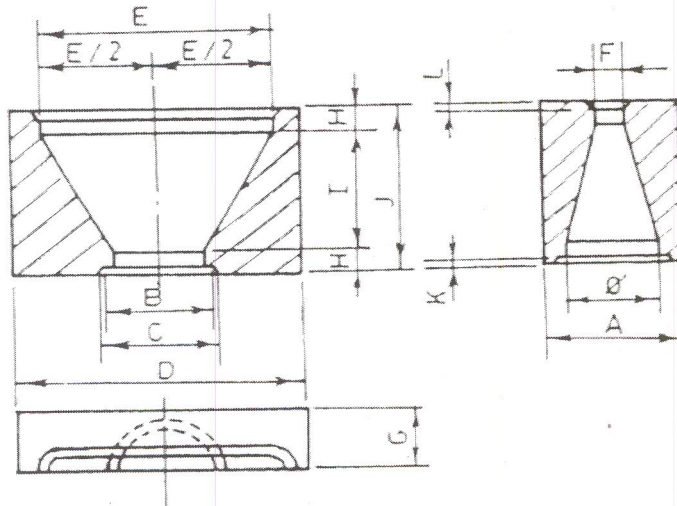
REF. DRG. NO.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)


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REV.	DATE	ALTERED	REV.	DATE	ALTERED
		CHECKED			CHECKED



S NO.	Φ	A	B	C	D	E	F	G	H	I	J	K	L	AREA Cm ²	VOL. Dm ³	WT. Kg	TO BE USED BY
1	80	110	95	97	246	200	30	55	20	120	160	5	10	58.1	3.298	6.266	STEEL FOY
2	90	125	107	110	260	210	36	6.25	22	131	175	7	12	73	4.413	9.385	"
3	100	140	120	123	270	220	43	70	22	136	180	7	15	90.6	5.174	9.83	"
4	120	165	142	145	300	240	56	82.5	25	150	200	7	18	128	7.967	15.137	"
5	150	200	175	178	350	270	78	100	30	175	235	7	20	198	11.734	22.29	"

TOLERANCE: ±2% OR ±2mm WHICHEVER IS GREATER
 MATERIAL: HIGH HEAT DUTY FIRE CLAY AS PER SPEC NO: AA 53304, TYPE 'B'

REMARKS	ITEM NO.	DESCRIPTION	STD.	MATL. CODE	A/C	UNIT	UNIT Wt.
				MATL. SPEN.			QTY.
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		DRN. ARDANA K	SIGN. <i>[Signature]</i>	DATE 09.09.11	NO. OF VAR.		
		CHD. V.L. NATH	SIGN. <i>[Signature]</i>	DATE 09.09.11	-NA-		
		APPD. M.N.A	SIGN. <i>[Signature]</i>	DATE 09.09.11	-NA-		
DEPT. F&P	UNTOL. DIM. GR. Ø/M/P	SCALE N.T.S.	WEIGHT(KG)	REF. TO ASSY DRG. -NA-	ITEM NO. -NA-	NO. OF ITEMS -NA-	
CODE 204A							
TITLE REFRACTORY INGATE (FOR STEEL CASTINGS)				CARD CODE -NA-	DRAWING NO. 4-04-904		REV. 00
				SHT No. 1	NO OF SHT. 1		

GENERAL DIMENSIONAL LIMITS, FITS & TOLERANCES AS PER P.S:HY0230261

SIGN. AND DATE REF. DRG. NO. INVENTORY NO.