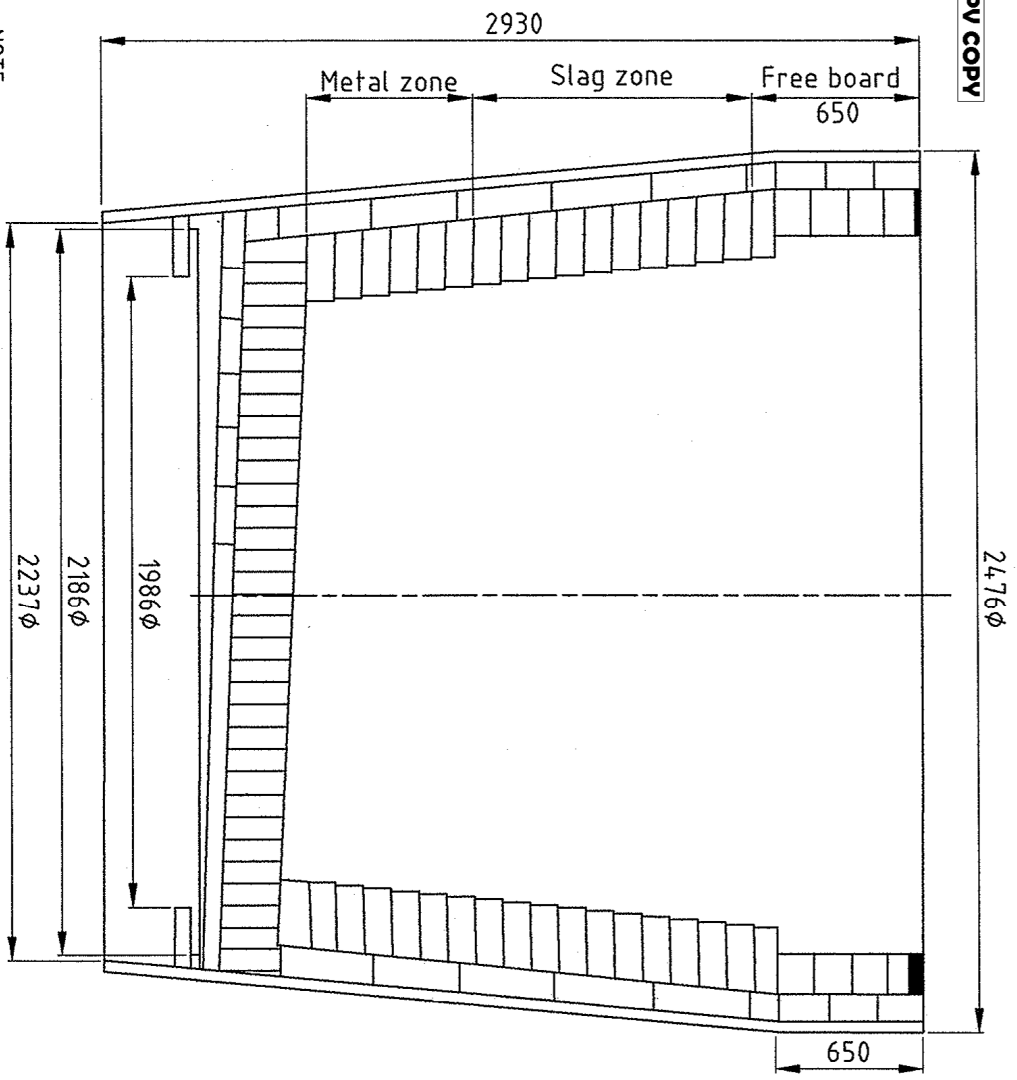


ALL DIMENSIONS ARE IN mm.

PV COPY



NOTE:-
 SET'A - COVERS ALL THE ITEMS FROM SL. NO.1 TO 7
 SET'B - COVERS ALL THE ITEMS FROM SL. NO.3 TO 7

INDEX	DESCRIPTION	OF	AMENDMENTS.	MEMO NO.
R7	SL. NO. 4A, SIZE -160x137x230x100 WAS 160x140x230x100 & 170x124x230x100 WAS 170x130x230x100 SL. NO. 6, SIZE -170x124x230x100 WAS 170x130x230x100 & 160x137x230x100 WAS 160x140x230x100 SL. NO. 7, QTY. 2500 KGS. WAS 1200 KGS.			AMENDMENT DONE REF. MEMO NO. 3408SHR11-12MHT DT. 03-02-2012

488, 39419
 W/M/F
 J/G/M/F-1

SL. NO.	LOCATION	SIZE	QTY.	SPECIFICATION.
1	BACK UP Side Wall Bottom	230x114x65	780	Mag Chrome Flad bricks with MgO 45% min., Cr ₂ O ₃ 6% min, AP/Vol 1 22% max., CCS 300 Kg/sq cm min., RUL Fa Deg C 1600 Deg C min, BD 2.85 gm/cc min., Refractoriness SK 38 min, Colour Brownish black
2	BOTTOM	200x75x100 200x150x100	100 200	MgO%= 90%min. in DBM used Al ₂ O ₃ 2% min., R.Carbon 8-10%, B.D. 2.95 gm/cc min., A.P. 4% max., CCS 400 Kg/sq. cm min.
3	METAL ZONE 1 TO 3 LAYER 4 TO 6 LAYER	160x140x200x100 170x130x200x100 160x140x200x100 170x130x200x100	68 70 70	
4A	SLAG ZONE 7 TO 11 LAYERS	160x137x230x100 170x124x230x100	130 120	MgO%= 90%min. in DBM used Al ₂ O ₃ 4% min., R.Carbon 12%, B.D. 2.98 gm/cc min., A.P. 3.5gm/cc max., CCS 450 Kg/sq.cm.min. Hot Modulus of Rapture at 1400 deg/100kg/s/c for half an hour/sq.cm.min.
4B	SLAG ZONE 12 TO 16 LAYERS	170x130x200x100 160x140x200x100	120 130	
5	FREE BOARD 17 TO 21 LAYERS	160x140x125x100 154x146x125x100	179 58	Mag Chrome Flad as per specification given in Sl. no.1
6	SLAG REPAIR	170x130x200x100 160x140x200x100 170x124x230x100 160x137x230x100	120 130 120 130	AS PER SL. NO. 4A & 4B
6A	FREE BOARD REPAIR	160x140x125x100 154x146x125x100	179 58	Mag Chrome Flad as per specification given in Sl. no.1
7	MONOLITHICS	FILLING MASS FOR SIDE WALL GAP.	2500 KGS.	MgO%= 36min., CaO=59%max. SiO ₂ =1.5%max., Fe ₂ O ₃ =10%max. Grading=0-5mm

INDEX	DESCRIPTION	OF	AMENDMENTS.	DATE	NAME
R6	ii) SL. NO. 7, QTY. 1200 KGS. WAS 3000 KGS. - AMENDED REF. MEMO NO. SMR/10-11GENL. DT. 21-12-10 iii) SL. NO. 4A & 4B WAS 4, SLAG ZONE (7 TO 11 & 12 TO 16) LAYERS WAS 7 TO 16 LAYERS iv) SL. NO. 4A LAYERS (7 TO 11) SIZE 160x140x230x100 WAS 160x140x200x100 QTY. 130 WAS 250 AND SIZE 170x130x230x100 QTY. 120 INCORPORATED. v) SL. NO. 4B LAYERS (12 TO 16) SIZE 170x130x200x100 QTY. 120 WAS 195 AND SIZE 160x140x200x100 & QTY. 130 INCORPORATED. vi) SL. NO. 6 & 6A WAS 6, SLAG REPAIR WAS SLAG REPAIR FOR 7-11 LAYER. vii) SL. NO. 6 SLAG REPAIR SIZE 170x130x200x100 QTY. 120 INCORPORATED AND SIZE 170x130x230x100 WAS 160x140x200x100 QTY. 130 INCORPORATED AND SIZE 160x140x230x100 WAS 160x140x200x100 QTY. 130 WAS 125. IN SPECIFICATION AS PER SL. NO. 4A & 4B WAS 4. viii) SL. NO. 6A FREE BOARD REPAIR SIZE 160x140x125x100 QTY. 179 & SIZE 154x146x125x100 QTY. 58 AND SPECIFICATION MAG CHROME FLAD AS PER SPECIFICATION GIVEN IN SL. NO. 1 INCORPORATED ALL ABOVE AMENDMENT DONE AS ADVISED BY W/M/F			18.02.09	
R5	ii) SL. NO. 4A & 4B WAS 4, SLAG ZONE (7 TO 11 & 12 TO 16) LAYERS WAS 7 TO 16 LAYERS iii) SL. NO. 4A LAYERS (7 TO 11) SIZE 160x140x230x100 WAS 160x140x200x100 QTY. 130 WAS 250 AND SIZE 170x130x230x100 QTY. 120 INCORPORATED. iv) SL. NO. 4B LAYERS (12 TO 16) SIZE 170x130x200x100 QTY. 120 WAS 195 AND SIZE 160x140x200x100 & QTY. 130 INCORPORATED. v) SL. NO. 6 & 6A WAS 6, SLAG REPAIR WAS SLAG REPAIR FOR 7-11 LAYER. vi) SL. NO. 6 SLAG REPAIR SIZE 170x130x200x100 QTY. 120 INCORPORATED AND SIZE 170x130x230x100 WAS 160x140x200x100 QTY. 130 INCORPORATED AND SIZE 160x140x230x100 WAS 160x140x200x100 QTY. 130 WAS 125. IN SPECIFICATION AS PER SL. NO. 4A & 4B WAS 4. vii) SL. NO. 6A FREE BOARD REPAIR SIZE 160x140x125x100 QTY. 179 & SIZE 154x146x125x100 QTY. 58 AND SPECIFICATION MAG CHROME FLAD AS PER SPECIFICATION GIVEN IN SL. NO. 1 INCORPORATED ALL ABOVE AMENDMENT DONE AS ADVISED BY W/M/F				
R4	SL. NO. 6 QTY. 100 WAS 125 & 125 WAS 100. AMENDMENT DONE VIDE MEMO NO. SMR/84/DD DT. 18.02.09				
R3	SPECIFICATION OF BILL OF MATERIAL CHANGED. VIDE MEMO NO. SMR/84/MSC/146 DT. 3.5.07				
R2	NO. 7 OF BILL OF MATERIAL CHANGED VIDE MEMO NO. SMR/84/SU/161 DT. 13.3.08				
R1	BILL OF MATERIAL REARRANGED, SPECIFICATION AMENDED & NEW NEGATIVE PREPARED. VIDE MEMO NO. SMR/ 84/ 05/ 65 dt. 14.12.05 & OCL letter no. RS:328/ 120 dt. 2.12.05				

BILL OF MATERIAL

FOR 18/20 TON LADLE

METAL & STEEL FACTORY, ISHAPPORE

DRG. NO. LFVD/1000/30

DATE: 30.4.09
 NAME: KABI

APPROVED: [Signature]