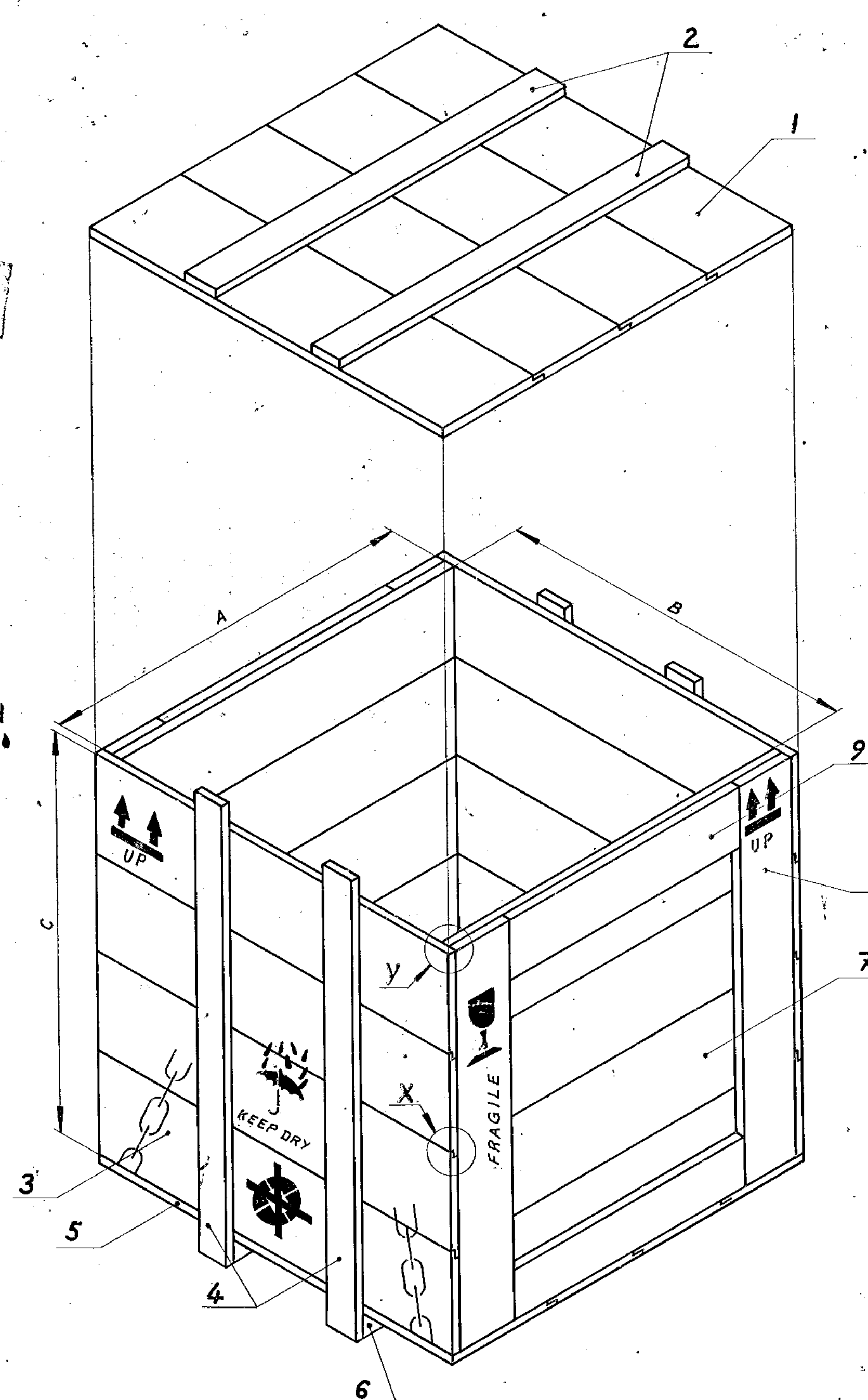


FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

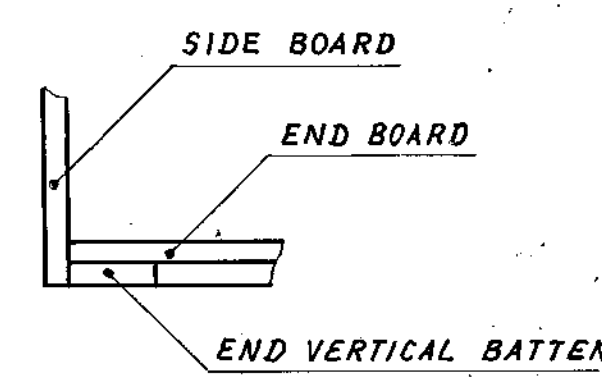
11136-1-V-0000-11266
ON SHEET



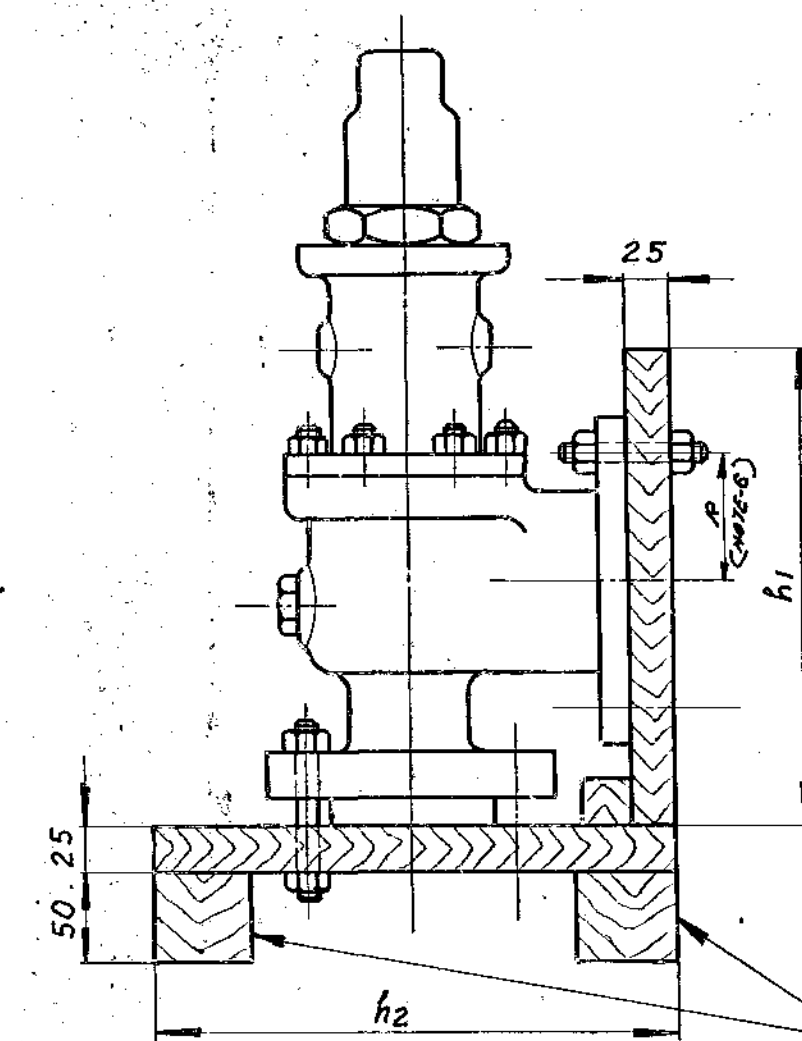
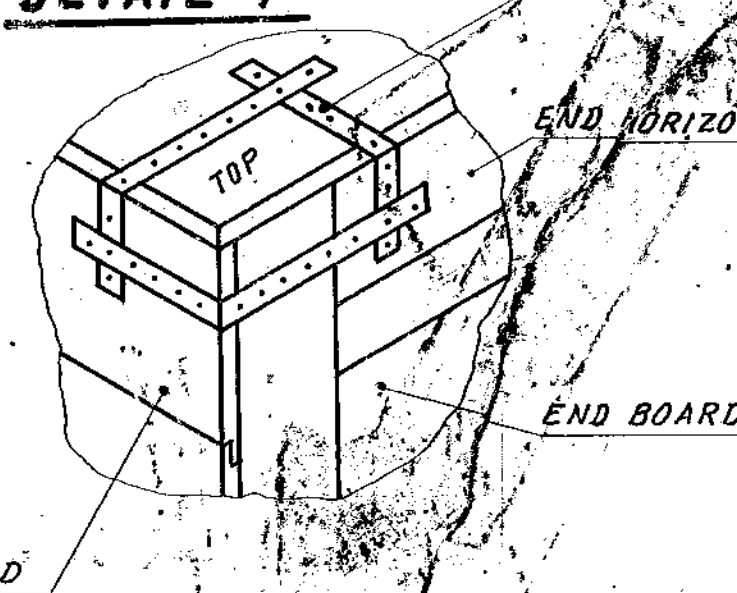
1. TOP BOARD - 25 THICK
2. TOP GIRTH BATTENS - 75 WIDTH X 40 THICK (EQUALLY SPACED)
3. SIDE BOARD - 25 THICK
4. SIDE GIRTH BATTENS - 75 WIDTH X 40 THICK
5. BOTTOM BOARD - 25 THICK
6. BOTTOM GIRTH BATTENS - 75 WIDTH X 75 THICK
7. END BOARD - 25 THICK
8. END VERTICAL BATTENS - 75 WIDTH X 40 THICK
9. END HORIZONTAL BATTENS - 75 WIDTH X 40 THICK

NOTE - THE NUMBER AND WIDTH OF THE SIDE AND END BOARDS SHALL BE DECIDED DEPENDING UPON THE HEIGHT (C)

DETAIL - X



DETAIL - Y



TWO RUNNER PLANS
TO A LENGTH OF 1/2"

FOR FLANGED VALVES

TYPE No.	DIMENSIONS						DRG. No.	QTY.	APPLICABLE TO VALVE TYPE NOS.
	A	B	C	h ₁	h ₂	h ₃			
1	250	250	600	260	240	240	1-V-9001-11136		1905 D, E, F, G - 1906 D, E, F, G - 1910 D, E - 1912 D, E - 1811 F, G, H, J ORIFICES 3X, 6X AND 8X VALVES
2	300	300	700	320	290	290	1-V-9005-11136		1905 H, J - 1906 H, J - 1910 F, G - 1912 F, G - 1914 D, E, F - 1916 D, E, F
3	380	380	880	370	370	370	1-V-9007-11136		1905 K, L, M - 1906 K, L, M - 1910 H, J, K - 1912 H, J, K - 1914 H, J - 1916 G, H - 1918 D, E, F, G - 1811 K, L, M, N ORIFICES 3X, 6X AND 8X VALVES
4	475	475	1125	460	460	460	1-V-9010-11136		1905 N, P - 1906 N, P - 1910 L, M, N - 1912 L, M, N - 1914 K, L, M, N - 1916 J, K, L - 1811 P, Q ORIFICES 3X, 6X AND 8X VALVES
5	510	510	1400	460	500	500	1-V-9012-11136		1905 Q, R - 1906 Q, R - 1910 P, Q, R - 1912 P, Q - 1914 P, 1767, 1738, 39, 47, 48, 49, 57, 58, 59, 65, 66, 75, 75 Q-4, 76, 76 Q-4 FLANGED VALVES
6	570	570	1400	530	560	560	1-V-9014-11136		1905 T - 1906 T - 1910 T - 1912 R, T
7	250	250	880	350	240	240	1-V-7022-11136		1715, 16, 17, 25, 26 FLANGED VALVES
8	380	380	1125	450	370	370	1-V-7013-11136		1718, 19, 27, 28, 29, 35, 36, 37, 45, 46, 55, 56 FLANGED VALVES
9	575	575	1875	650	565	565	1-V-7038-11136		1775 Q-6, 76 Q-6, 77 Q-6, 85, 86, 85, 86, 87, 87 FLANGED VALVES

FOR WELDED INLET VALVES

10	510	510	1400	FOR CRADLE DIMENSIONS REFER DRG NOS. 3-V-2000-10448 & 3-V-2000-10449		1-V-2000-11136		1799 W, 49 W, 59 W, 37 W, 40 W, 55 W, 38 W, 58 W, 50 W
11	575	575	1875	FOR CRADLE DIMENSIONS REFER DRG NOS. 3-V-2000-10448 & 3-V-2000-10449		1-V-2000-11136		1775 QW, 75 W, 05 W, 75 QW-6, 65 W, 65 W, 76 W, 65 W
12	380	380	1125	FOR CRADLE DIMENSIONS REFER DRG NOS. 3-V-2000-10448 & 3-V-2000-10449		1-V-2000-11136		1710 W, 18 W, 18 W, 20 W, 25 W, 26 W, 27 W, 28 W, 29 W, 35 W
13	250	250	880	FOR CRADLE DIMENSIONS REFER DRG NOS. 3-V-2000-10448 & 3-V-2000-10449		1-V-2000-11136		1715 W, 16 W, 17 W
14	675	675	2000	FOR CRADLE DIMENSIONS REFER DRG NOS. 3-V-2000-10448 & 3-V-2000-10449		1-V-2000-11136		1789 W, 65 W

NOTES:

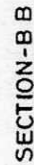
1. THE INSIDE OF ALL SIDES EXCEPT BOTTOM AND TOP SIDES SHALL BE FULLY COVERED BY A SINGLE BITUMINISED PAPER AND SUITABLY FIXED. THE INSIDE OF TOP SIDE SHALL BE FIXED WITH BITUMINISED PAPER AND POLYETHYLENE SHEET. THE POLYETHYLENE SHEET SHALL BE PROTECTING 50mm ON ALL SIDES. AFTER PUTTING THE TOP FOR CLOSING THE CASE, THE PROTECTING POLYETHYLENE SHALL BE SUITABLY TACKED INSIDE SO AS TO PREVENT DIRECT ACCESS OF WATER FROM THE TOP OF THE CASE.
2. THE VALVE ALONG WITH CRADLE ASSEMBLY SHALL BE COVERED BY A POLYETHYLENE SHEET AND THEN PLACED INSIDE THE BOX.
3. PAINT MARKINGS AS SHOWN IN DRAWING ON ALL SIDES OF BOX.
4. WOOD MATERIALS SHALL BE AS PER APPLICABLE STANDARD.
5. CORNER STRAPPING SHALL BE USED ON ALL CORNERS. STRAPS SHALL NOT BE LESS THAN 20 mm WIDE AND 0.8 mm THICK. STRIPS MAY BE PRE PUNCHED OR DRILLED.
6. THE RADIUS 'R' WILL VARY FROM VALVE TO VALVE DEPENDING UPON THE FLANGE R. RATINGS. THE PLANKS HAVE TO BE DRILLED SUITABLY DEPENDING UPON THE FLANGE R. AVAILABLE AND SUITABLE BOLTS AND NUTS ARE TO BE USED FOR FASTENING AS SHOWN.
7. CRADLE ASSY. SHOULD BE AS PER DRG. No. 3-V-0000-13734

04 4-9-76
NOTES UPDATED.
DCKN, SR: 167

		BHARAT HEAVY ELECTRICALS LIMITED BOILER PLANT UNIT, TIRUCHIRAPALLI-620 014	
REV. 01	DATE 10-11-80	ALTERN. 1	CHECKED
TITLE: PACKING BOX FOR SV & SRV		DRAWN: R.L. CHECKED: S.S. APPROVED: D.K.	NAME: S.S. SIGN: S.S. DATE: 15/11/80
DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ±0.15 mm UNLESS OTHERWISE SHOWN NON-MACHINING TOLERANCE ±		CARD CODE: U01	DRAWING NO.: 1.V.0000-11136

REV. 03
DATE 3-6-89
END: **Alkoll**
NOTE-7 ADDED & DIMENSION 100 SELECTED.

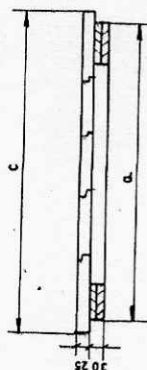
REV. 02
DATE 10-8-89
CHECKED: **16**
TYRE NO. 14 ADDED



ITEM NO	DESCRIPTION	TYPE : 966	TYPE : 1296	TYPE : 1399	TYPE : 1577
04	PLAKS	800X150 X 25 8+8	600X150X 25 10+10	1100X150 X 25 10+10	900X150 X 25 12+12
03	DIAGONAL BRACE	580 X 100X30 2+2	690 X 100 X 30 2+2	960 X 100 X 30 2+2	860 X100 X60 2+2
02	VERTICAL SUPPORT	470 X 100 X 30 3+3	470X100 X 30 3+3	770 X 100X 30 3+3	570 X 100 X 30 3+3
01	HORIZONTAL SUPPORT	960 X 100 X 30 2+2	1260 X 100 X 30 2+2	1360 X 100 X30 2+2	1560 X 100 X 30 2+2

[illegible]

REV 01	DATE	ALTERED :	CHD BY APPRO :	6 7 8 9 10 11 12
25046				
CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.				
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				6 7 8 9 10 11 12
 Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPPALLI - 620014				6 7 8 9 10 11 12
DWG NO 25-11	ALL DIMENSIONS IN MM.	PROJECTION 	SCALE 1:1	WEIGHT (KG) 1:1
DWG CODE	DWG NO	DWG NO	DWG NO	DWG NO
NAME T. XAVIER	DATE 11/05/99	SIGNATURE 	CHECKED M. KALAIARASI	DATE 11/05/99
DESIGNED P. BALAKRISHNAN	DATE 11/05/99	SIGNATURE 	CHECKED M. KALAIARASI	DATE 11/05/99
DRAWING NO : 2-SH-B-001B/B				REV
SIDE SHOOK				6 7 8 9 10 11 12



SECTION - AA

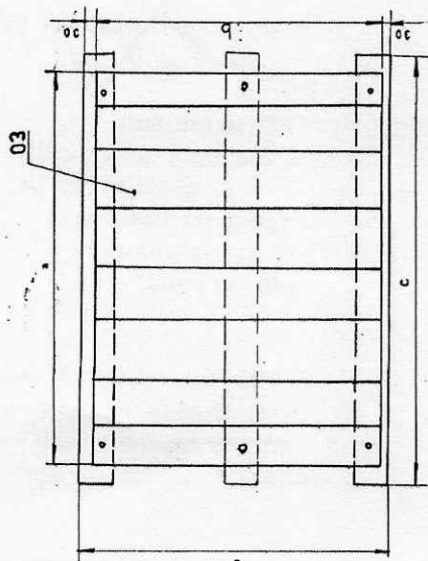
SECTION - B B

ITEM NO.									
04	PLANKS	700 X 150 X 25	5 + 5	700 X 150 X 25	100 X 150 X 25	800 X 150 X 25			
03	DIAGONAL BRACE	620 X 100 X 30	1 + 1	370 X 100 X 30	1060 X 100 X 30	780 X 100 X 30			
02	VERTICAL SUPPORT	470 X 100 X 30	2 + 2	470 X 100 X 30	770 X 100 X 30	370 X 100 X 30			
01	HORIZONTAL SUPPORT	600 X 100 X 30	2 + 2	900 X 100 X 30	900 X 100 X 30	700 X 100 X 30			
				TYPE : 1266	TYPE : 1399	TYPE : 1572			

ITEM NO.	TYPE	966	TYPE: 1206	TYPE: 1969	TYPE 1577
d.	700	700	1000	800	
c	660	960	960	760	
b	670	670	970	770	
a.	600	900	900	700	

REV	DATE	ALTERED :	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																							
REV		DATE		ALTERED :		01		02		03		04		05		06		07		08		09		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
REV		DATE		ALTERED :		01		02		03		04		05		06		07		08		09		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86		87		88		89		90		91		92		93		94		95		96		97		98		99		100	
REV		DATE		ALTERED :		01		02		03		04		05		06		07		08		09		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30		31		32		33		34		35		36		37		38		39		40		41		42		43		44		45		46		47		48		49		50		51		52		53		54		55		56		57		58		59		60		61		62		63		64		65		66		67		68		69		70		71		72		73		74		75		76		77		78		79		80		81		82		83		84		85		86																													

FOR TOLERANCES OF UNTOLERANCED
DIMENSIONS DURING MANUFACTURE
REFER PLANT STD.NO TP 023 0299



	E	150-150	150-150	200-200	200-200
d		650	950	950	760
C		1010	1310	1410	1610
b		600	900	900	700
n		900	1200	1300	1500
mean		TYPE	TYPE	TYPE	TYPE

	BASE	RCSTING BOARD	710 X 100 X 50 ₂	1010 X 100 X 50 ₃	1010 X 100 K 50 ₃	1010 X 100 K 50 ₃
04	BASE PLANKS	500 X 150 X 30 ₆	500 X 150 X 30 ₆	500 X 150 X 30 ₅	900 X 150 X 30 ₅	700 X 150 X 30 ₁₀
03	BASE RANNER	1010 X 100 X 100 ₂	1010 X 100 X 100 ₂	1310 X 100 X 100 ₃	1410 X 100 X 100 ₃	1610 X 100 X 100 ₈₋₅
02	BASE END TRAVES	500 X 70 X 70 ₂	500 X 70 X 70 ₂	900 X 70 X 70 ₂	900 X 70 X 70 ₂	700 X 70 X 70 ₂
01	ITEM NO	DESCRIPTION	TYPE : 966	TYPE : 1296	TYPE : 1399	TYPE : 1577

TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

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REV	DATE	ALTERED :
01		CHO & APPD :

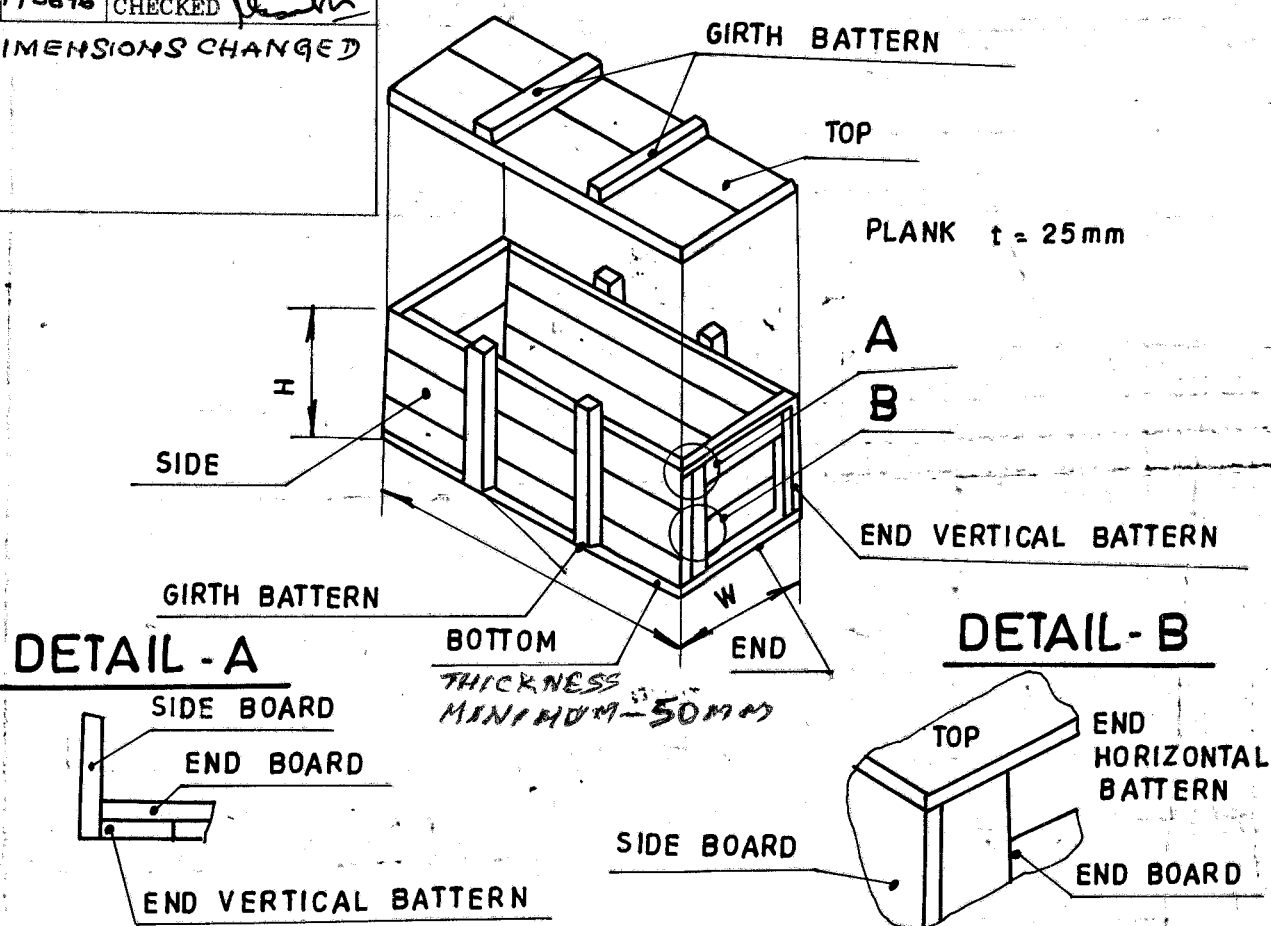
BASE SHOOK

DRAWING NO. :
2 SH B 001 A/B

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REV	DATE	ALTERED	SVS
01	17-06-96	CHECKED	<i>[Signature]</i>
DIMENSIONS CHANGED			

ALL DIMENSIONS ARE IN MILLIMETRES



NOTES:

- 1. L X W X H ARE INNER DIMNS. OF THE BOX.
- 2. GIRTH BATTERNS: ADDL. 2 NOS. FOR BOXES EXCEEDING LENGTH 1000 mm & UPTO 2000 mm.
- 3. GIRTH BATTERNS: ADDL. 3 NOS. FOR BOXES EXCEEDING 2000MM LENGTH.
- 4. BOTTOM RUNNER MINIMUM THICKNESS - 50 mm
- 5. MINIMUM WIDTH OF PLANK - 200 EACH ONLY.

TYPE NO.	INTERNAL DIMNS.			BATTERNS	MAX. NO OF PLANKS EACH SIDE
	L	W	H		
SPF	320	250	260	75 X 25	2
SPG	320	250	430	75 X 25	2
SPH	430	370	430	75 X 25	2
SPI	1100	400	400	100 X 25	2
SPJ	1000 1500	500	400	150 X 25	2
SPK	2000	500	400	150 X 25	2
SPL	2500	400	400	150 X 25	2
SPM	1600	450	450	150 X 30	2
SPN	3000	400	400	150 X 30	2
SPO	2500	600	500	150 X 30	3

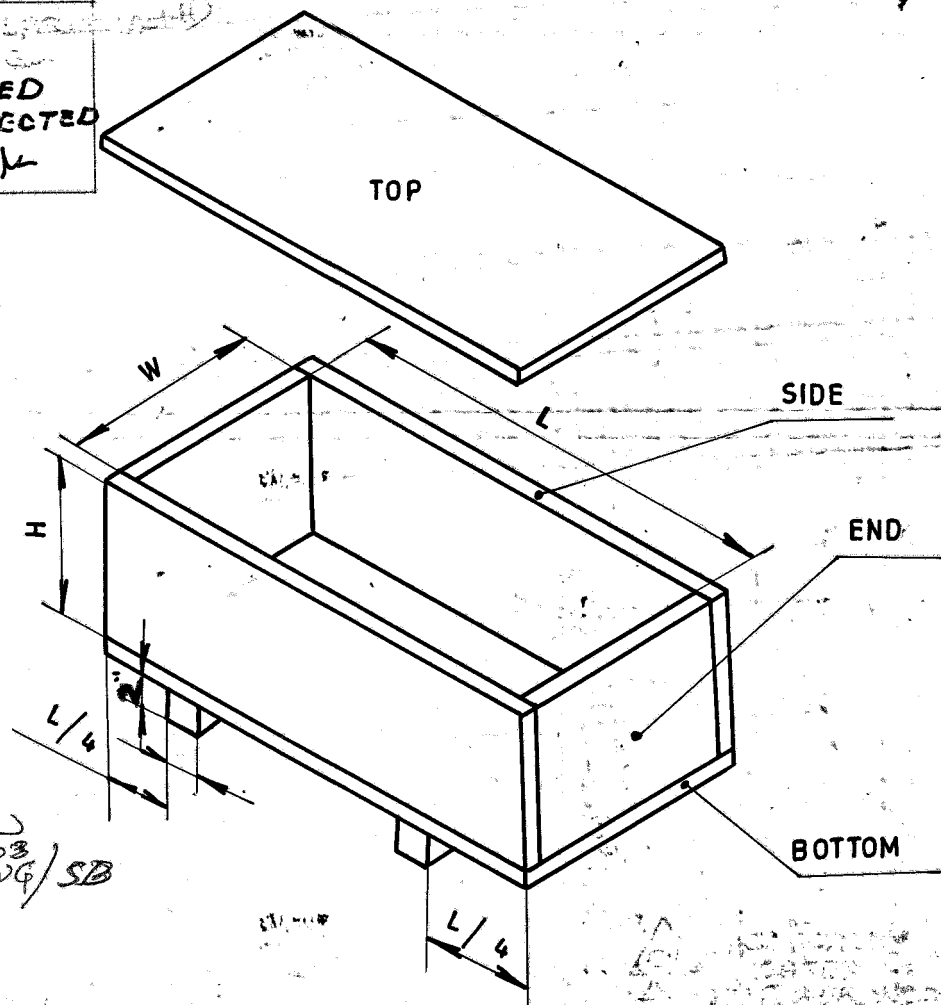
		BHARAT HEAVY ELECTRICALS LTD.		DRN	NAME	SIGN	DATE	NO. OF VAR
		UNIT: HIGH PRESSURE BOILER PLANT.		CHD	D-JAYABALAN	<i>[Signature]</i>	10-06-95	
		TIRUCHIRAPALLI 620014.		APPD	P.P. SELVAM	<i>[Signature]</i>	10-06-95	
DEPT	GRADE OF UNTOL DIM	SCALE	WEIGHT (KG).	REF. TO ASSY. / OLD DRG.		ITEM NO.		NO. OF ITEMS
CODE	C / M / F			4V-4000-07183				
TITLE			APPROVED	CARD CODE	DRAWING NO.		REV	
WOODEN BOX			<i>[Signature]</i> 23/4/03	U 01	40-SPM-SH-00002		01	

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REV	DATE	ALTERED
		CHECKED

ALL DIMENSIONS ARE IN MILLIMETRES

01.170696-SPY INCLUDED
- MATL CORRECTED



APPROVED

23/4/03
Sr Mgr / SHIPPING / SB

TYPE NO.	INTERNAL DIMENSIONS		
	L	W	H
SPA	800	200 200	200 200
SPB	1500	200 200	200 200
SPC	2000	200 200	200 200
SPD	1100	200 200	200 200
SPE	200	200	200
SPY	450	200	200

PLANK THICKNESS (t) = 25 mm

LUG SIZE = 30 mm X 30 mm

WIDTH OF PLANK
MINIMUM 200 mm EACH
HEIGHT MINIMUM 200 mm

VAR NO.	DESCRIPTION	STD	MATL CODE	A	UNIT	UNIT WT.
			MATL SPECN.	C	DI	QTY



BHARAT HEAVY ELECTRICALS LTD.,
UNIT: HIGH PRESSURE BOILER PLANT,
TIRUCHIRAPALLI 620014.

DRN	NAME	SIGN	DATE	NO. OF VAR
CHD	D-JAYABALAN		10-06-95	
APPD	P.P. SELVAM		10-06-95	

DEPT VL	GRADE OF UNTOLD DIM	SCALE	WEIGHT (KG).	REF. TO ASSY. OLD DRG.	ITEM NO.	NO. OF ITEMS
CODE 320	C / M / F	N.T.S	-	4V.MISC-90547		
TITLE				CARD CODE	DRAWING NO.	REV
WOODEN BOX (FOR STEM & SMALL COMPONENTS)				U 01	40-SPM-SH-00001	01

20-SPM-SH-00003
DRAWING NO.

ALL DIMENSIONS ARE IN MILLIMETRES

TYPE	DIMENSIONS			RE MARKS
	A	B	C	
SPQ	710	630	600	1. ALL THE PLANKS ARE TO BE OF GIVEN THICKNESS ONLY, WIDTH OF PLANK 200 MM (MINIMUM) 2. BOTTOM 2 RUNNERS. THICKNESS MINIMUM 50 MM 50 MM THICK MINIMUM
SPR	850	630	670	
SPS	1000	770	670	
SPP	600	500	400	

APPROVED

23/4/03

Sr. Mgr / SWAPPING / SB

NOTES:-

1. SOFT WOOD PLANKS 25
2. END TRAVERS BAR 70X70
3. DIAGONAL BRACE 80 X 30
4. SOFT WOOD BATTERNS 80 X 30
5. RUNNER 100 X 100MM
6. RESTING BEAM 100 X 50 MM.
7. SLING PLATE TO DRG. NO. 40-SPM-SH-00007.
8. SIDE PLATE TO DRG. NO. 40-SPM-SH-00006.
9. THE INSIDE OF ALL SIDES EXCEPT BOTTOM SHALL BE FULLY CURVED BY POLYETHYLENE SHEET SO AS TO AVOID ENTRY OF RAIN WATER.

ALL DIMENSIONS ARE IN MM.

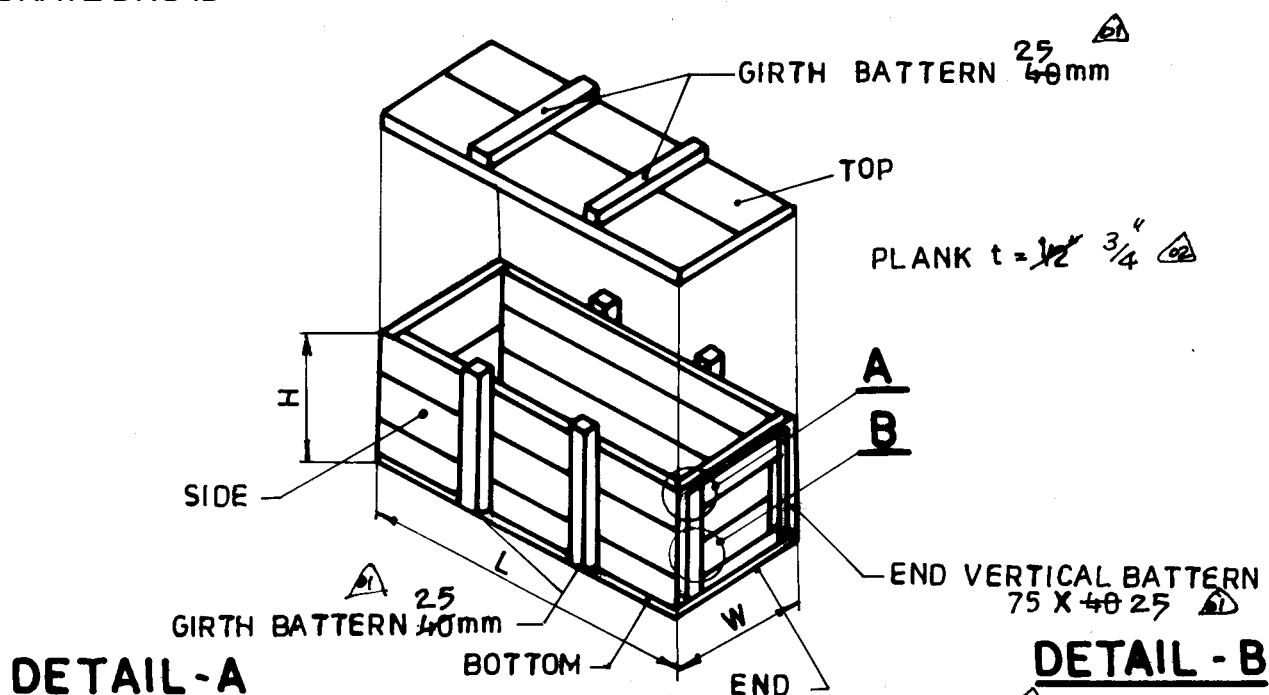
A = LENGTH
B = BREADTH
C = HEIGHT

VAR NO.	ITEM NO.	DESCRIPTION	SIZE/DRAWING NO.	ITEM NO.	MATL CODE	UNIT	UNIT WT.	ZONE
VAR NO.	ITEM NO.	DESCRIPTION	SIZE/DRAWING NO.	ITEM NO.	MATL SPECN	UNIT	QTY.	ZONE
	10	BOLT AND NUT	M12					
	09	POLYETHYLENE SHEET (BLUE)						
	08	SIDE PLATE	40-SPM-SH-00006					
	07	SLING PLATE	40-SPM-SH-00007					
	06	RESTING BOARD	100X40					
	05	RUNNER	100 X 100					
	04	LATERAL PANEL & END PANEL, HORIZONTAL & VERTICAL SUPPORT	100 X 30					
	03	DIAGONAL BRACE	80 X 30					
	02	END TRAVERSE BAR	70X70					
	01	SHEETHING PLANK	150 X 25					

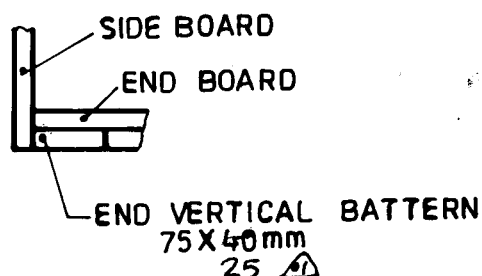
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		05-228/D		BHARAT HEAVY ELECTRICALS LTD.		DRN	NAME	SIGN	DATE	NO. OF VAR.
				UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI-620014.		CHD	D. JAYA BALAN		10.06.95	
DEPT	GRADE OF UNTOLODM	SCALE	WEIGHT (KG.)	APPD	P. P. SELVAM				10.06.95	
CODE	C / M / F				REF. TO ASSY/OLD DRG.					
TITLE		CARD CODE		DRAWING NO.		REV				
BOILER COMPONENT (SPARES) PACKING BOX		U 01		20-SPM-SH-00003 01						

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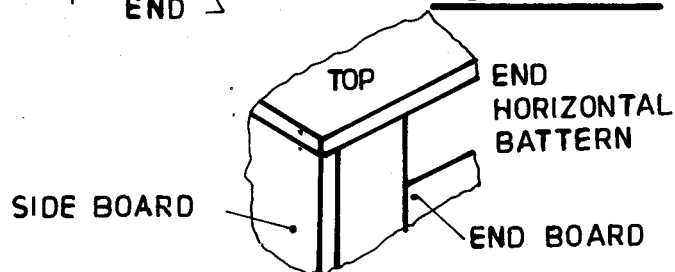
REV	DATE	ALTERED	SVS
01	17.06.95	CHECKED	
ZONE	SPP INCLUDED		



DETAIL - A



DETAIL - B



TYPE NO.	L	W	H	
1A	320	250	260	
1	320	250	430	
2	430	370	430	

NOTES:-

1. ALL DIMENSIONS ARE IN MM.
2. L, W, H ARE INNER DIMENSIONS OF THE BOX.
3. FOR TYPE NO 1A & 1 END VERTICAL BATTEN SHALL BE FLUSH ON BOTH ENDS WITH HARD BOARD TO WRITE THE DESPATCH DETAILS.



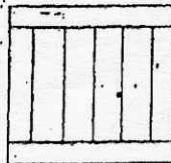
NO. OF PIECES	NAME - DIMENSIONS	SERIAL - PRODUCT	FINAL MATERIAL	INITIAL MATERIAL	SCRAP SORT	NET Wt (kg)	GROSS Wt (kg)	DRAWING NO.	TYPE NO.
REMARKS				TOTAL NET WT (kg)					
SCALE	DRAWN	R.N. R. NATRAJAN 24/10/92		ALTERATIONS	DATE	SIGNATURE	ALTERATION INDEX		
	CHECKED	K.S.S. 24/10/92		40mm To 25mm	26.9.94		01		
	APPROVED	D.K. 26.10.92		PLANK 3/4" WAS 1/2"	01.12.95		02		
	STDS. OFFICER			NOTE 3 ADDED.					
	DATE			TRANS. COPY NO.					
TYPE		GROUP		OLD DRG.		NEW DRG.			
TITLE				DRAWING NO.					
WOODEN PACKING CASE				4-V-4000-07183					



3-SH-B-005

DETAIL OF ALL SIDES PROJECTION

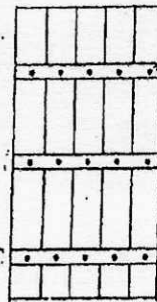
INTERNAL



150 mm x 25 mm

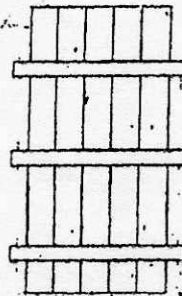
ENDS
2 Nos.

02 100 mm x 30 mm (FOR TOP)
100 mm x 50 mm (FOR BOTTOM)



TOP & BASE

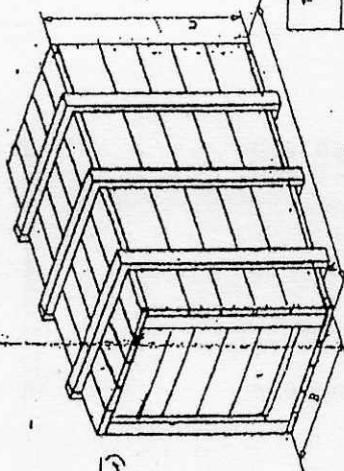
2 Nos.



SIDES

2 Nos.

PRINTED BY



TYPE No.	DIMENS. (mm)		
	A	B	C
15910	1600	900	1000

ITEM NO.	DESCRIPTION	DRAWING NUMBER	UNIT WEIGHT	QUANTITY
03.	NAILS 2 1/2" - 3 1/2"			
02.	BATTENS 100 x 30 / 100 x 50			
01.	BLANKS 25 x 150			

TYPE OF PRODUCT : TYPE 15910 - 1600 x 900 x 1000

CUSTOMER/PROJECT : Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TRUCHIRAPALLI - 620014

DATE : 01/01/00

SCALE : 1:1

WEIGHT (Kg) : 100

REV TO LIST / QD INC

BOILER COMPONENT
BUTTON BOXES

DRAWING NO : 3-SH-B-005

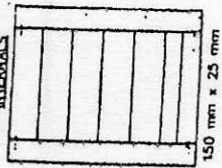
REV

CAUTION: The information on this drawing is the property of Bharat Heavy Electricals Ltd. It must not be used directly or indirectly in any way without the written consent of the company.

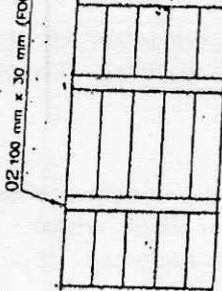
REV	DATE	ALTERED	BY	APPD.
01	01/01/00	END & APPD.		

DRAWING NO.
3-SH-B-004/C

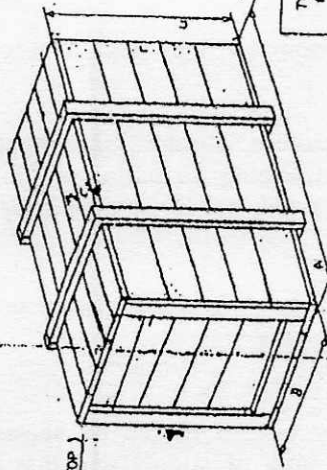
DETAIL OF ALL SIDES PROJECTION
INTERIORS



ENDS
2 Nos.



TOP & BASE
2 No.



PRINTED BY
ORIGIN: GREEN COLOUR

TYPE No.	DIMENSIONS (mm)		
	A	B	C
654	600	500	400
10105	1050	1050	500

ITEM NO.	DESCRIPTION	QTY	DRAWING NUMBER	UNIT WEIGHT	QUANTITY
01.	NAILS 2 1/2" - 10 C				
02.	BATTENS 100 x 30				
03.	BLANKS 25 x 150				

TYPE OF PRODUCT TYPE: 654, 500x300x400
OR NAME OF CUSTOMER/PROJECT: 10105, 1050x1050x500

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TRICHIRAPALLI - 620014

300-004

REV DATE ALTERED: CID & APPD:

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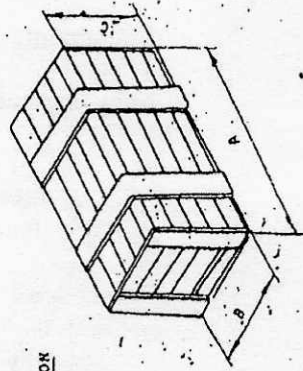
B/400-B-HS-E

02 100MM X 30MM

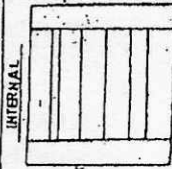
01 150MM X 25MM



TOP & BASE
(2 NOS.)

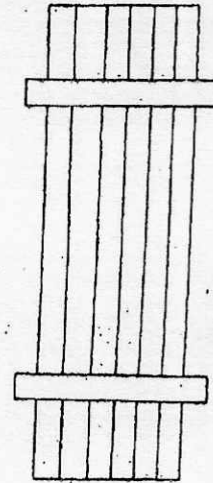


DETAILS OF ALL SIDES PROTECTION



150MM X 25MM

ENDS
(2 NOS.)



SIDES
(2 NOS.)

TYPE NO.	DIMENSIONS (MM)		
	A	B	C
1144	1100	400	400
1122	1100	200	200
634	600	500	400
633	600	300	300
1133	1100	300	300
1155	1100	500	500

ITEM NO.	DESCRIPTION	DRAWING NO.
03	NAILS	2 1/2 - 106
02	BATONS	100 X 30
01	PLANKS	25 X 150

PRINT ISSUED

TYPE OF PRODUCT TYPE 1144 1100 X 400 X 400MM
OR NAME OF 1122 1100 X 200 X 200 MM
CUSTOMER/PROJECT 634 600 X 500 X 400 MM
633 600 X 300 X 300 MM

BHARAT HEAVY ELECTRICALS LTD.
CHD: BICE PRESSURE BOILER PLANT
CHD: THERMO-VALVE-BOILER

DATE 10/10/84
SIGN
CHKD T. KULLAYACHARI
APPD P. PRAKASHAN
ADJ. TO ASST. CHD. DIR.

WEIGHT (KG)
SCALE
UNIT OF MEASUREMENT
C / M / F

TITLE
BOILER COMPONENT
PACKING BOXES

DRAWING NO. 3 SH-B-004/B

CHD CODE U 01

INT 01

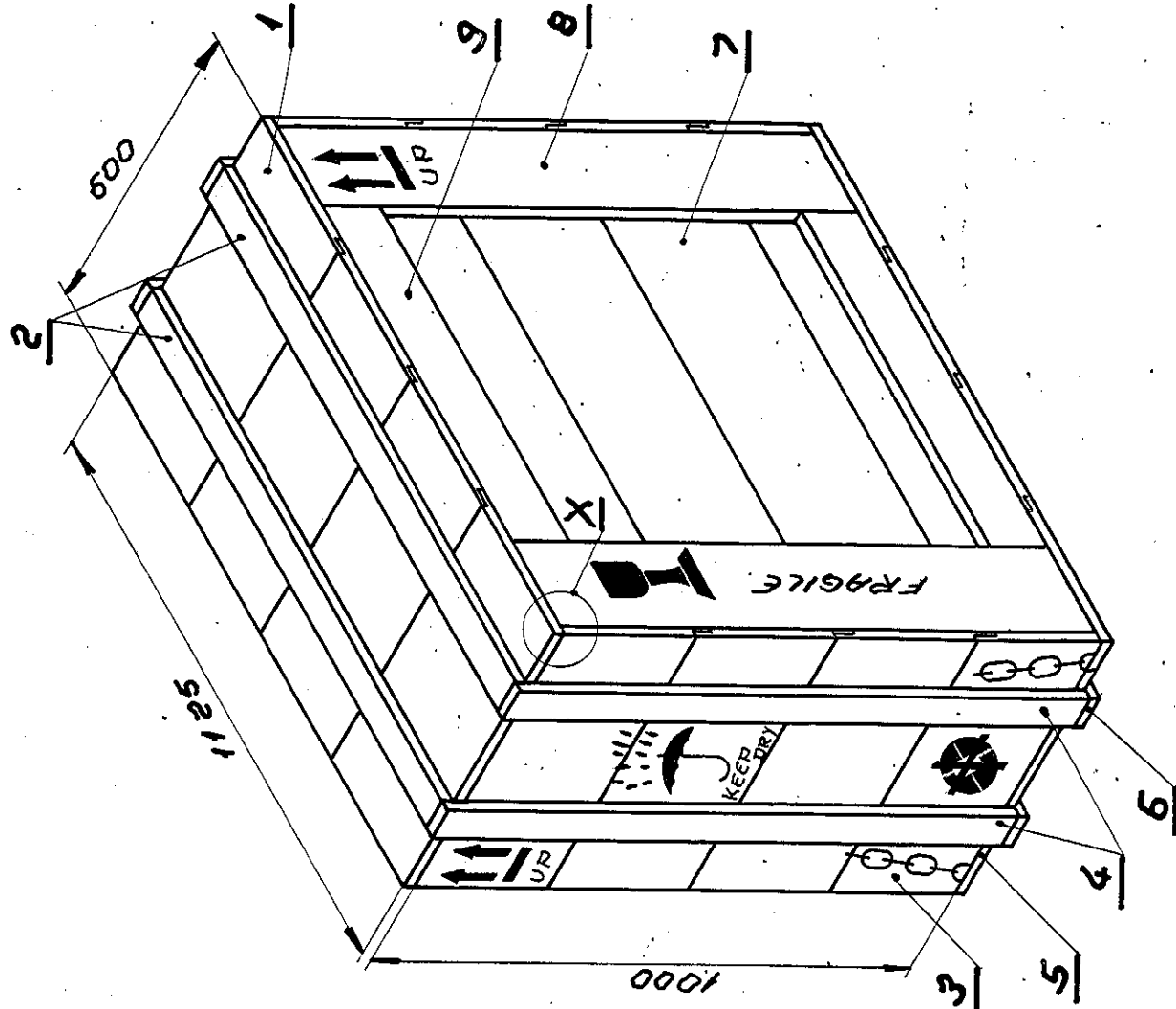
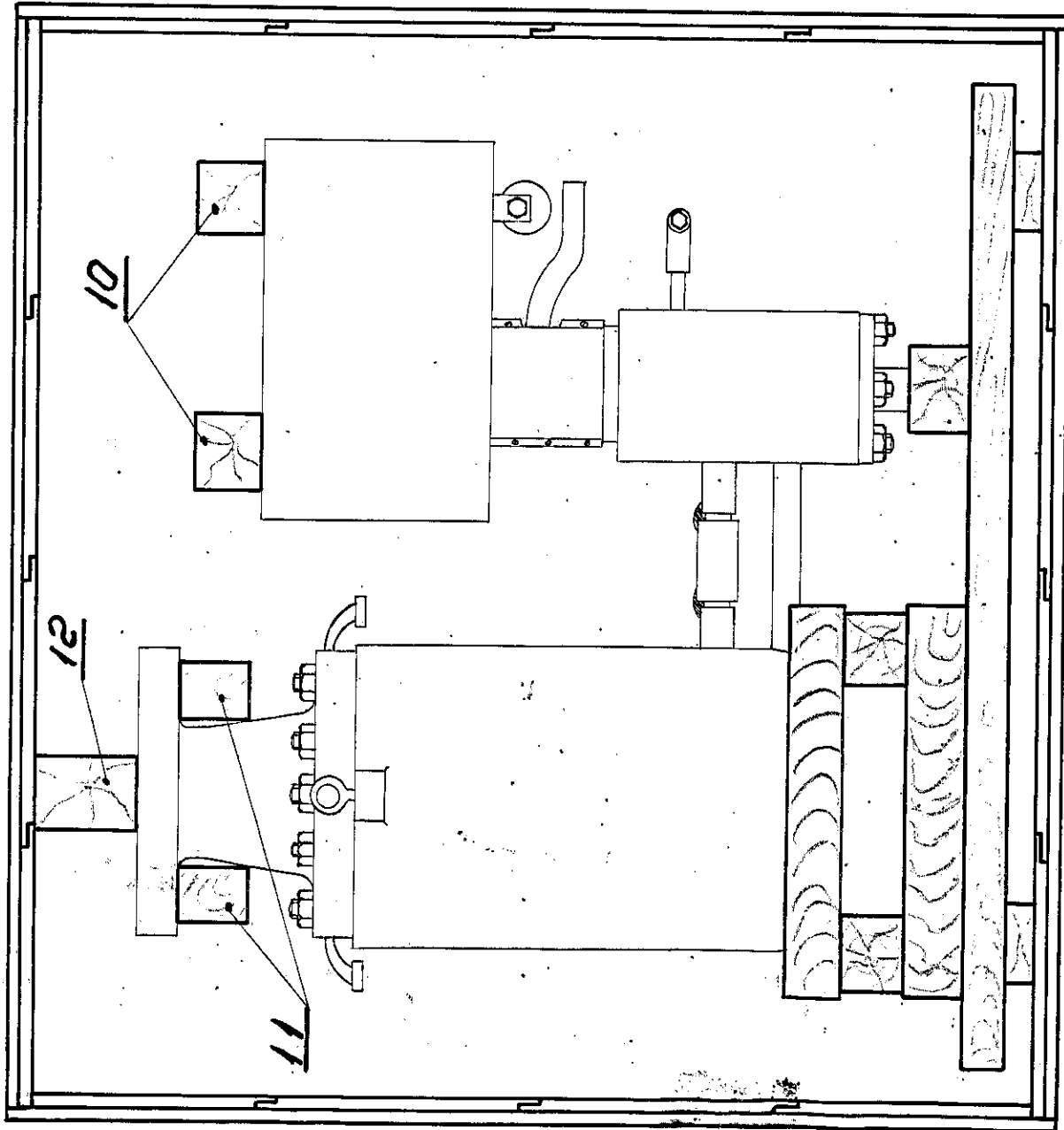
Sheet No.

FIRST ANGLE PROJECTION (ALL DIMENSIONS IN MILLIMETRES)

DRAWING No.
2-V-7503-10122

CAUTION

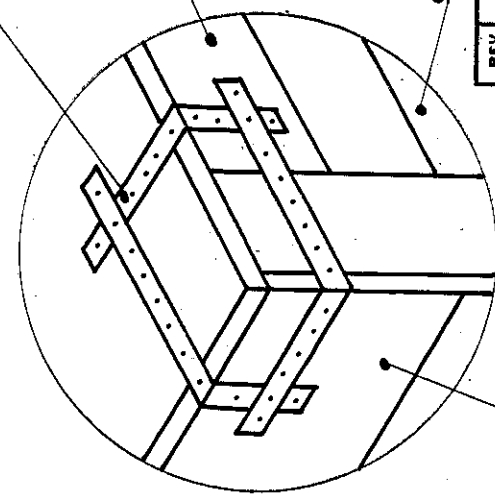
THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.



1. TOP BOARD - 25 THICK
2. TOP GIRTH BATTENS - 25 WIDTH X 40 THICK (EQUALLY SPACED)
3. SIDE BOARD - 25 THICK
4. SIDE GIRTH BATTENS - 25 WIDTH X 40 THICK
5. BOTTOM BOARD - 25 THICK
6. BOTTOM GIRTH BATTENS - 25 WIDTH X 25 THICK
7. END BOARD - 25 THICK
8. END VERTICAL BATTENS - 25 WIDTH X 40 THICK
9. END HORIZONTAL BATTENS - 25 WIDTH X 40 THICK
10. PLANK SIZE 25 X 25 X 470
11. PLANK SIZE 50 X 25 X 470
12. PLANK SIZE 20 X 120 X 470

NOTE: THE NUMBER AND WIDTH OF THE SIDE & END BOARDS BE DECIDED DEPENDINGS UPON THE HEIGHT.

CORNER STRAPPING (NOTE-5)



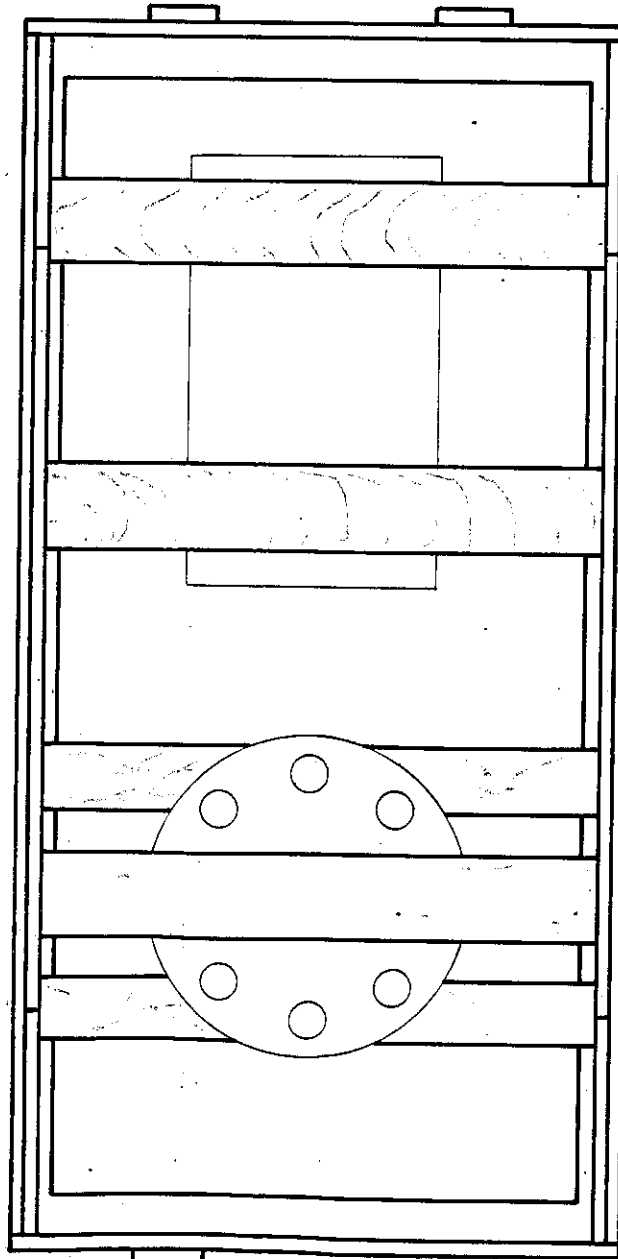
DETAIL - X

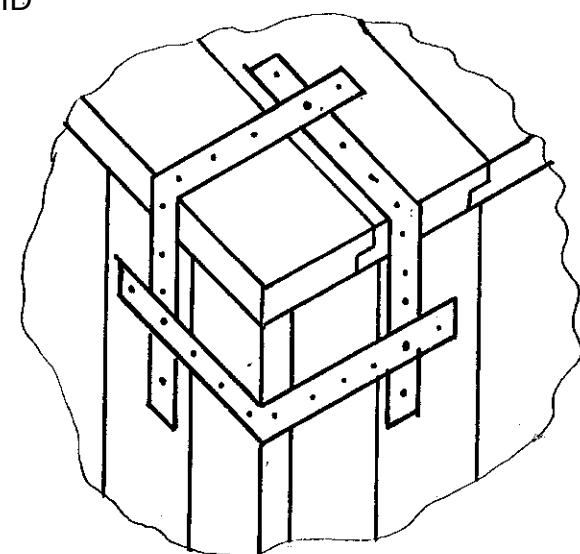
NOTES:-

1. THE INSIDE OF ALL SIDES EXCEPT BOTTOM & TOP SIDE SHALL BE FULLY COVERED BY A SINGLE BITUMINISED RASER AND SUITABLY FIXED. THE INSIDE OF TOP SIDE SHALL BE FIXED WITH BITUMINISED RASER AND POLY ETHYLENE SHEET. THE POLY ETHYLENE SHEET SHALL BE PROJECTING 50MM ON ALL SIDES. AFTER PUTTING THE TOP FOR CLOSING THE CASE, THE PROJECTING POLY ETHYLENE SHALL BE SUITABLY TACKLED INSIDE SO AS TO PREVENT DIRECT ACCESS OF WATER FROM THE TOP OF THE CASE.
2. THE VALVE ALONG WITH CRADLE ASSEMBLY SHALL BE COVERED BY A POLY ETHYLENE SHEET AND THEN PLACED INSIDE THE BOX.
3. PAINT MARKINGS AS SHOWN IN DRG ON ALL SIDES OF BOX.
4. WOOD MATERIALS SHALL BE AS PER BRS-015501 OR IS-1503-1967
5. CORNER STRAPPING SHALL BE USED ON ALL CORNERS. STRAPS SHALL NOT BE LESS THAN 20MM WIDE AND 0.8MM THICK. STRAPS MAY BE PRE RUNCHED OR DRILLED.

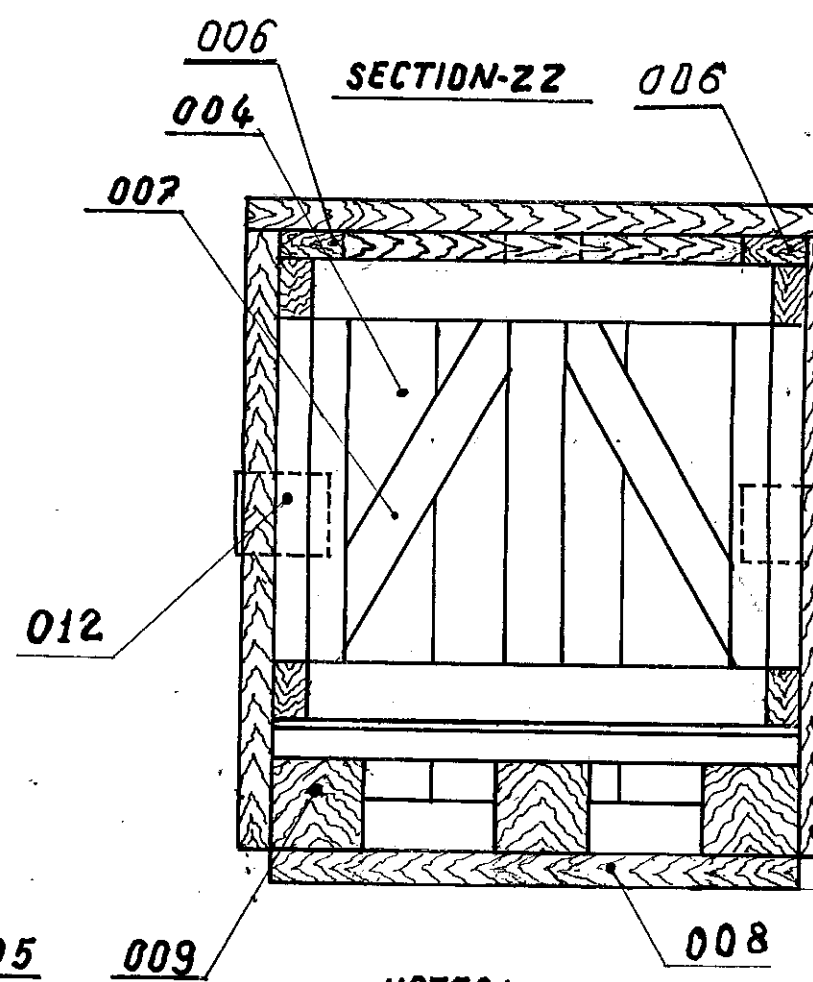
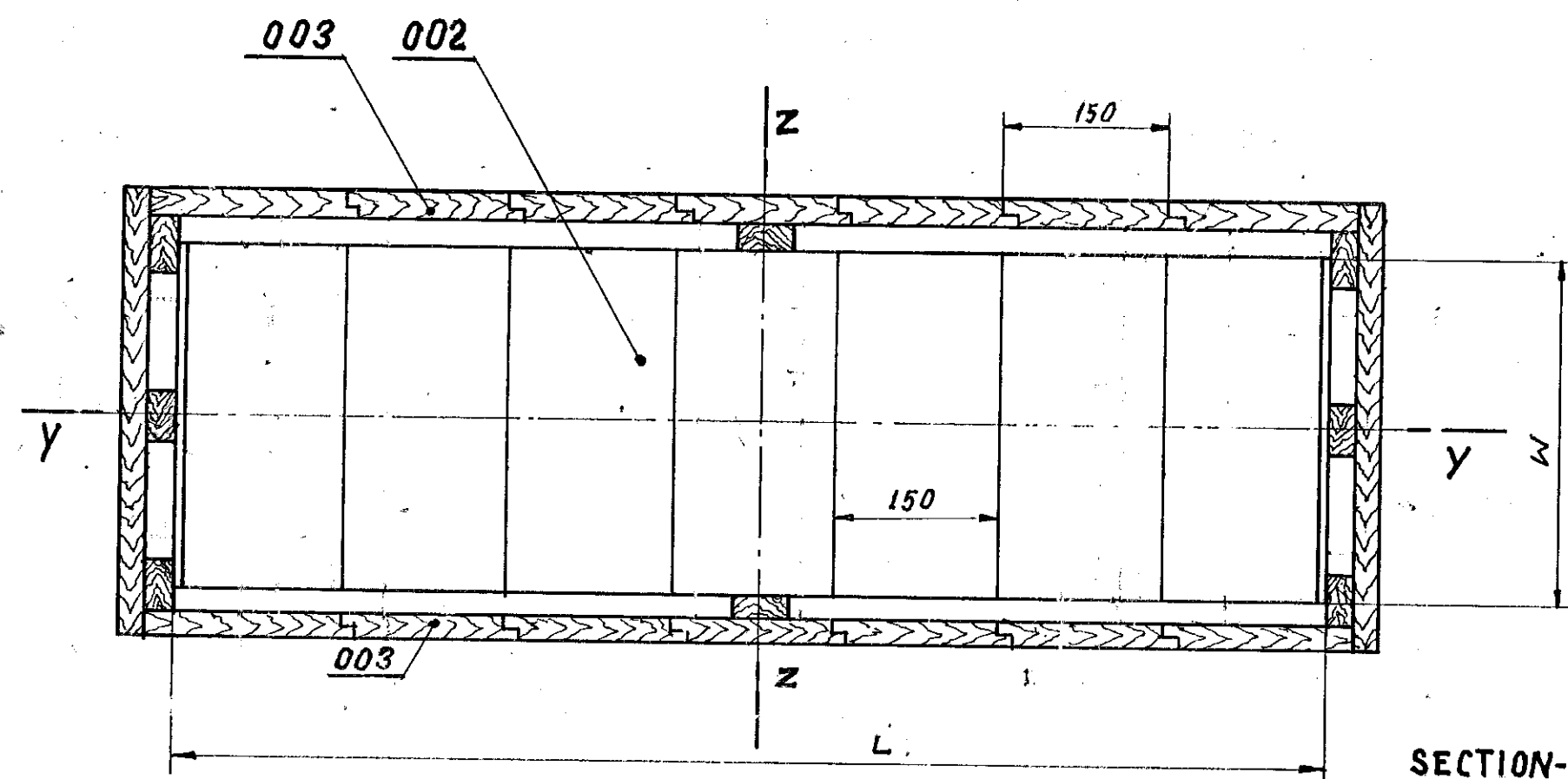
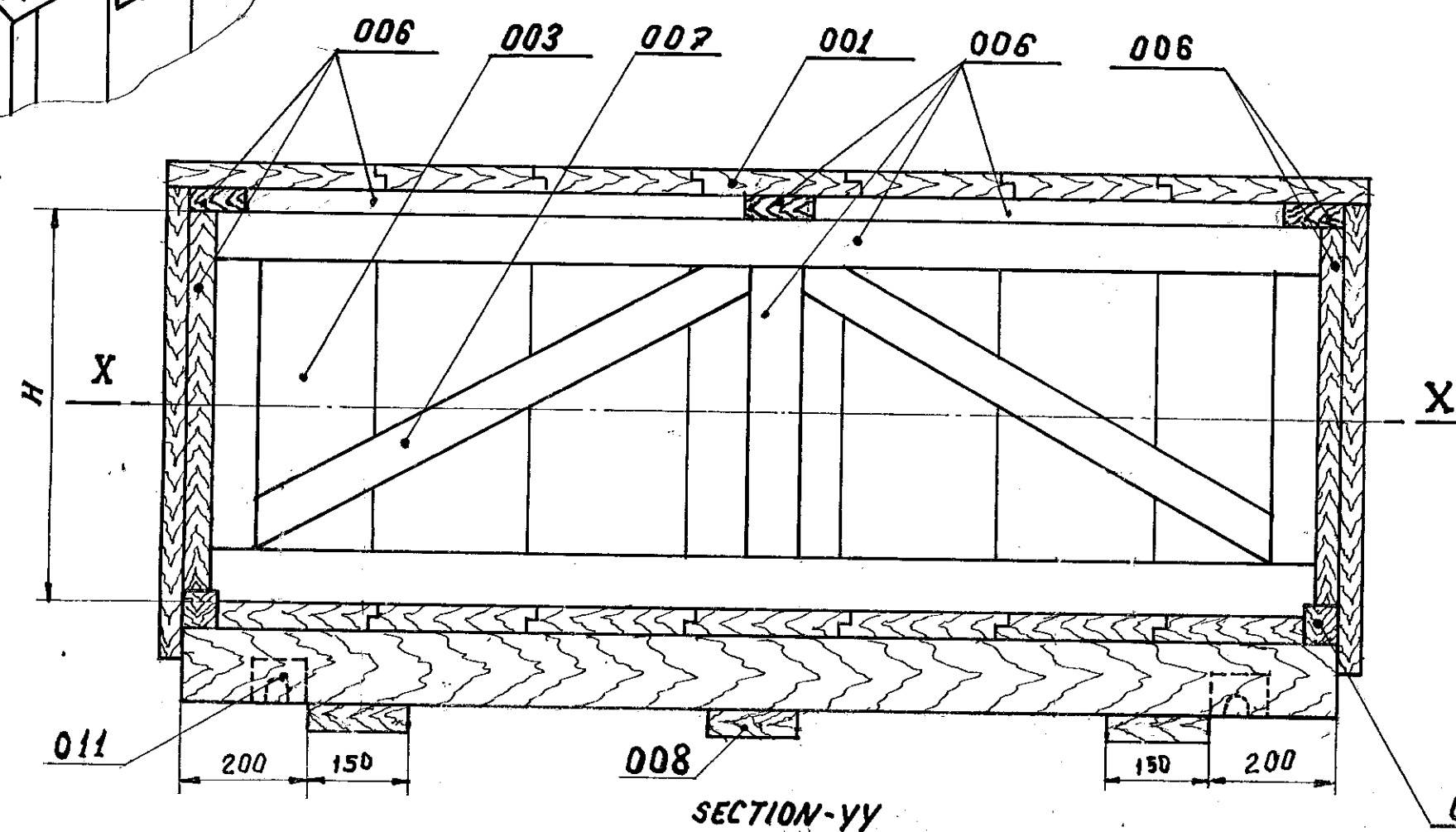
ITEM NO.	DESCRIPTION	STD	DRAWING NO.	ITEM NO.	MATL CODE	UNIT WT	QTY
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12				12			

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		MICROFILMED ON		ROLL ISSUES		DATE	
Bharat Heavy Electricals Ltd., BOILER PLANT UNIT TIRUCHIRAPALLI-620 014		K. P. LEON		V. PERUMAL		J. ARUNAN	
DEPT		SCALE		WEIGHT (kg)		DRAWING NO.	
C/M/F		—		3-V-7503-10463		2-V-7503-10122	
REV		DATE		ZONE		CARD CODE	
01						U 01	
ALTERED		CHECKED		TITLE		PACKING BOX FOR ERP	
						1538 V1	





CORNER STRAPPING
(SEE NOTE-3)



ITEM No	TYPE	DIMENSIONS			COMP. CODE	APPROX. LOAD TO BE CARRIED
		L	W	H		
296	BOX TYPE NO. 51	2775	850	680	200150320000	850 KG
297	BOX TYPE NO. 52	2000	950	740	200151000000	1000 KG
298	BOX TYPE NO. 53	1600	1120	700	200151010000	650 KG
299	BOX TYPE NO. 54	2500	2000	1200	200151060000	2000 KG
300	BOX TYPE NO. 55	2900	1900	1400	200151070000	2000 KG

301	BOX TYPE NO. 56	3000	1000	900	200151090000	1300 KG
302	BOX TYPE NO. 57	3200	2200	950	200151100000	1250 KG
303	BOX TYPE NO. 58	2200	1100	750	200151110000	800 KG
305	BOX TYPE NO. 59	2900	1950	850	200151160000	
306	BOX TYPE NO. 60	2300	2200	1200	200151150000	

- 001 TOP BOARD : 25 MM THICK.
- 002 BOTTOM BOARD : 25 MM THICK.
- 003 SIDE BOARD : 25 MM THICK.
- 004 END BOARD : 25 MM THICK.
- 005 END TRAVERSE BAR : 75 X 50
- 006 ALL SIDE GRITH BATTENS : 100X25
- 007 ALL DIAGONAL BRACES : 100 X 25
- 008 RESTING BEAMS : 150 X 50
- 009 RUNNERS : ~~150 X 100~~ 100 X 100
- 010 SUPPORTS : ~~150 X 225~~
- 011 SLING PLATE (MS SHEET)
- 012 SIDE PLATE (MS SHEET)
- * ALL WOODS SHOULD BE OF QUALITY WOOD.

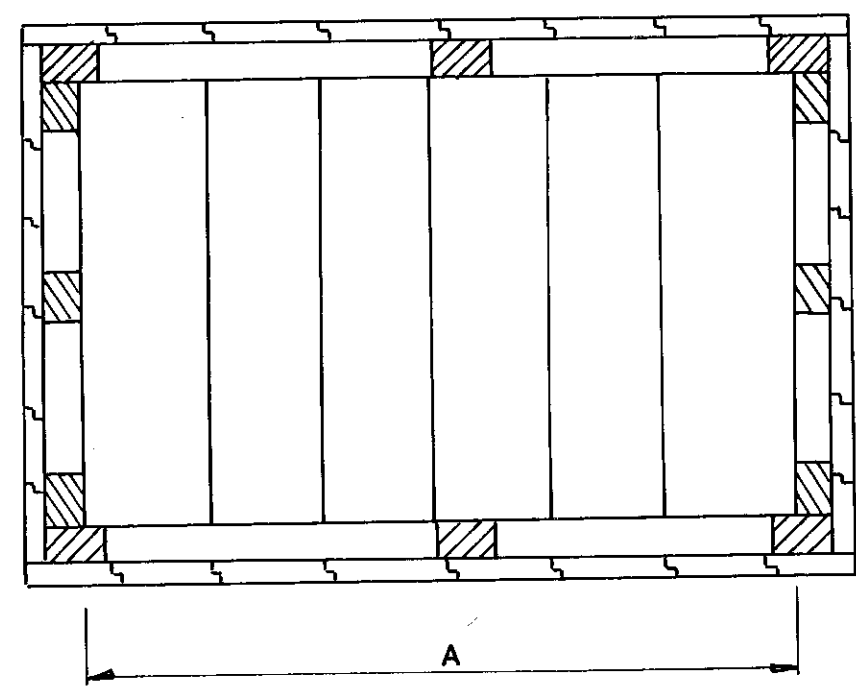
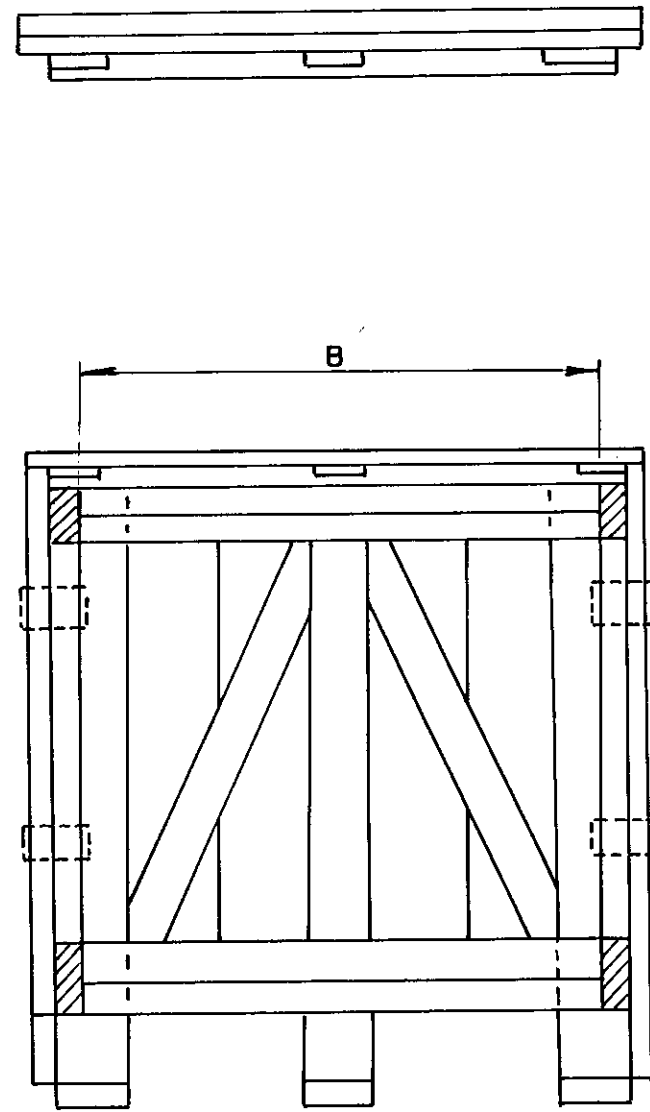
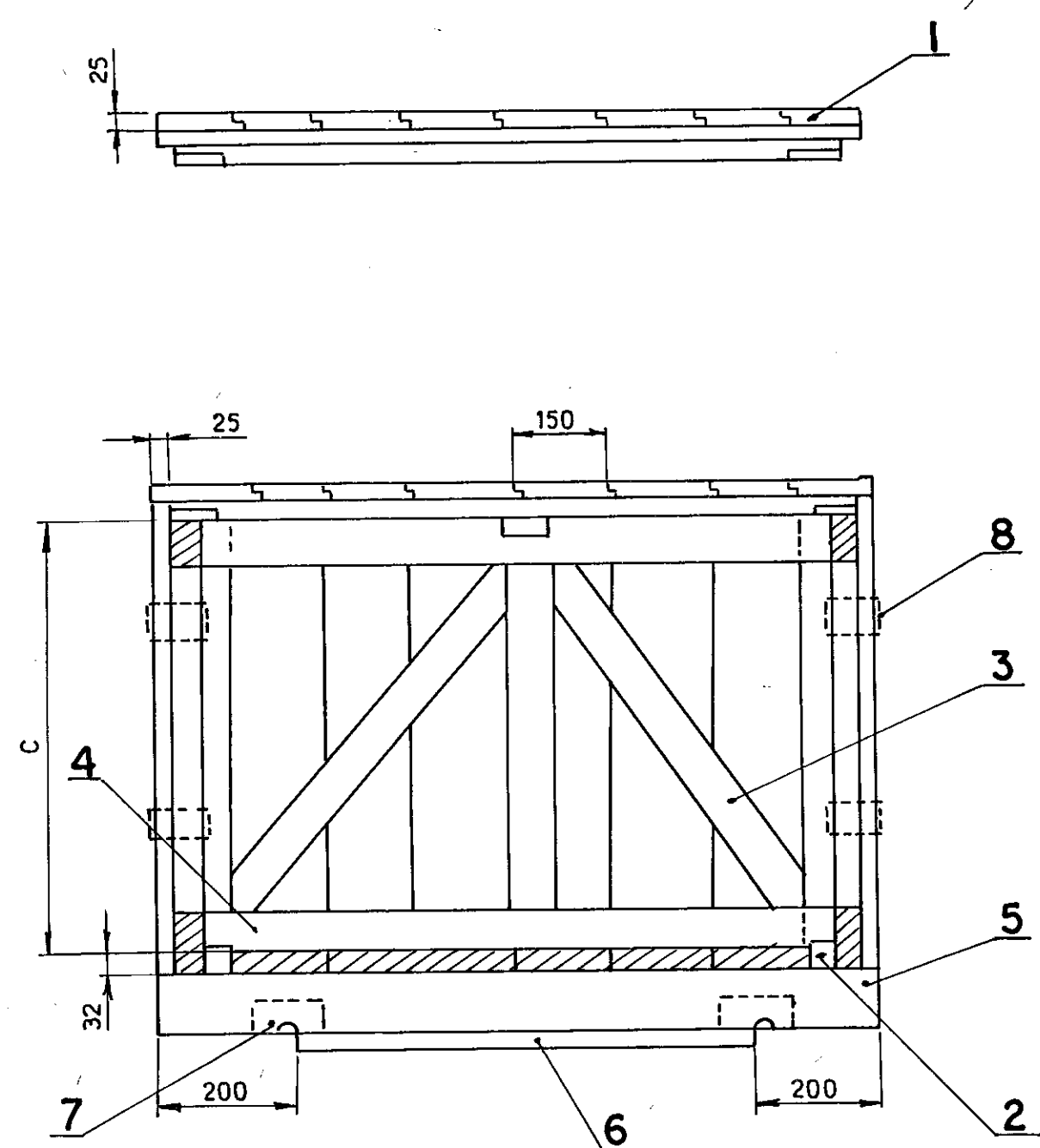
NOTES:-

- THE INSIDE OF ALL SIDES EXCEPT BOTTOM AND TOP SIDE SHALL BE FULLY COVERED BY A SINGLE BITUMINISED PAPER AND SUITABLY FIXED. THE INSIDE OF TOP SIDE SHALL BE FIXED WITH BITUMINISED PAPER AND POLYETHYLENE SHEET. THE POLYETHYLENE SHEET SHALL BE PROJECTING 50 MM ON ALL SIDES. AFTER PUTTING THE TOP FOR CLOSING THE CASE, THE PROJECTING POLYETHYLENE SHALL BE SUITABLY TACKED INSIDE SO AS TO PREVENT DIRECT ACCESS OF WATER FROM THE TOP OF THE CASE.
- TO INDICATE TOP SIDE OF BOX PAINT SUITABLY BY MARKING. (PREFERABLY BY UMBRELLA MARKING (6"X6") ON ALL 4 SIDES OF THE BOX.
- CORNER STRAPPING SHALL BE USED ON ALL CORNERS. STRAPS SHALL NOT BE LESS THAN 20 MM WIDE AND 0.8 MM THICK. STRAPS MAY BE PRE PUNCHED OR DRILLED.
- THE NUMBER AND WIDTH OF THE SIDE AND END BOARDS SHALL BE DECIDED DEPENDING UPON THE HEIGHTS.
- COMPONENTS LIKE SLIP, TUBING, HANGER, FASTENERS, RJ GASKETS, PR. GAUGES ETC. ARE TO BE PACKED SEPARATELY IN A BOX AND PLACED INSIDE THE MAIN BOX.
- SECURE THE ASSEMBLIES WITH ENOUGH SIDE SUPPORTS TO AVOID MOVEMENTS OF ASSEMBLIES DURING TRANSIT AND ALSO SECURE SUITABLY TO AVOID VERTICAL MOVEMENT.

BHARAT HEAVY ELECTRICALS LTD.,
BOILER PLANT UNIT, TIRUCHIRAPALLI-14

FIRST ANGLE	SCALE	DRAWN	1:3	TOTAL NET WT. (KG)
CHECKED	DATE	APPROVED	DATE	TYPE
ALL DIMENSIONS IN MILLIMETRES			DATE	NEW / OLD DRG. NO.
CAUTION				
THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD., BOILER PLANT UNIT, TIRUCHIRAPALLI-14 AND SHALL NOT BE USED WITHOUT THEIR EXPRESS WRITTEN PERMISSION IN ANY FORM OR PART THEREOF FOR ANY OTHER PURPOSE THAN FOR WHICH IT IS SENT TO YOU.				
TITLE FOR OIL FIELD EQUIPMENTS				
PACKING BOX				
DRAWING NO.				REVISION
2-V-4600-03636				08

DCN NO OF 011	ALTD: GHD	REV: 05	DATE: 4.8.88	ALTD: K. S. Sankar	REV: 03	DATE: 26.11.87	ALTD: K. S. Sankar	REV: 01	DATE: 28.4.86
REV: 08	1. IN BOX NO 57 H DIMN 950 WAS 850	REV: 06	2. RUNNERS (ITEM NO 009) 100X100 WAS 150X100	REV: 04	3. GRITH BATTENS ADDED AT THE CENTRES OF THE TOP BOARD.	REV: 02	4. BOX TYPE NO. 54 & 55 ADDED.	REV: 01	5. BOX TYPE NO. 56, 57 & 58 ADDED.



LEGEND

A = LENGTH
B = BREATH
C = HEIGHT

SL NO	DRG. NO.	TYPE	DIMENSIONS			MATL - CODE
			A	B	C	
1	2 - V - 0001-05780	8	1200	1200	900	20 015 092
2	2 - V - 0002-05780	11	2500	850	800	20 015 093
3	2 - V - 0003-05780	12	2000	1500	1200	20 015 094
4	2 - V - 0004-05780	16	3000	1000	1000	20 015 096
5	2 - V - 0005-05780	17	2600	1500	1600	20 015 097
6	2 - V - 0006-05780	29	3600	1100	1100	20 015 102

NOTES FOR PACKING:-

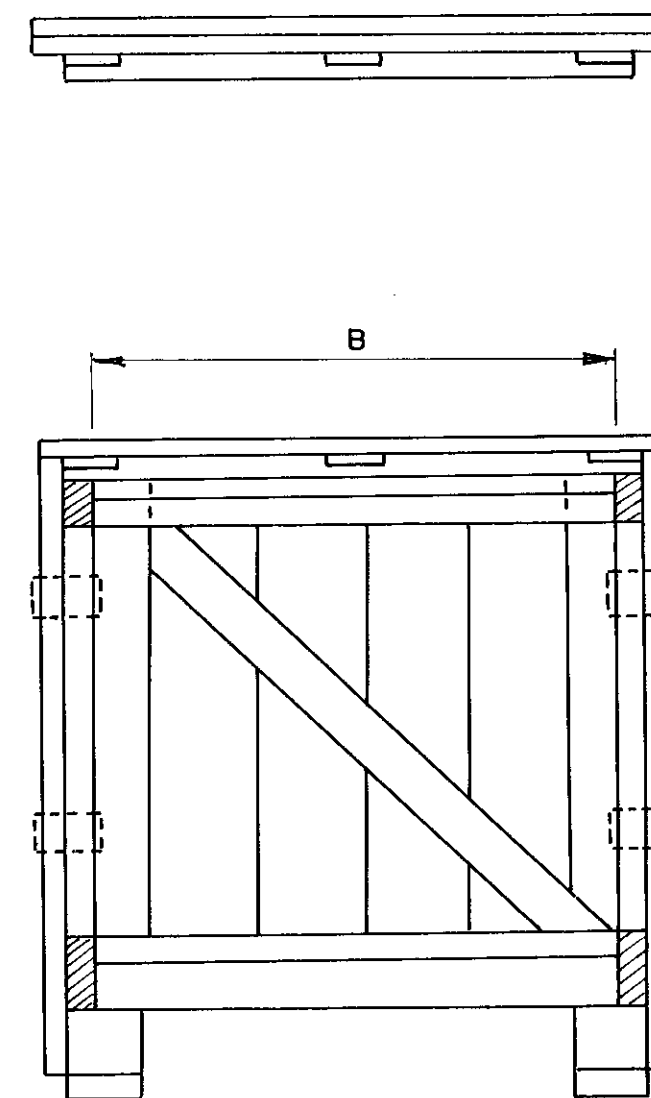
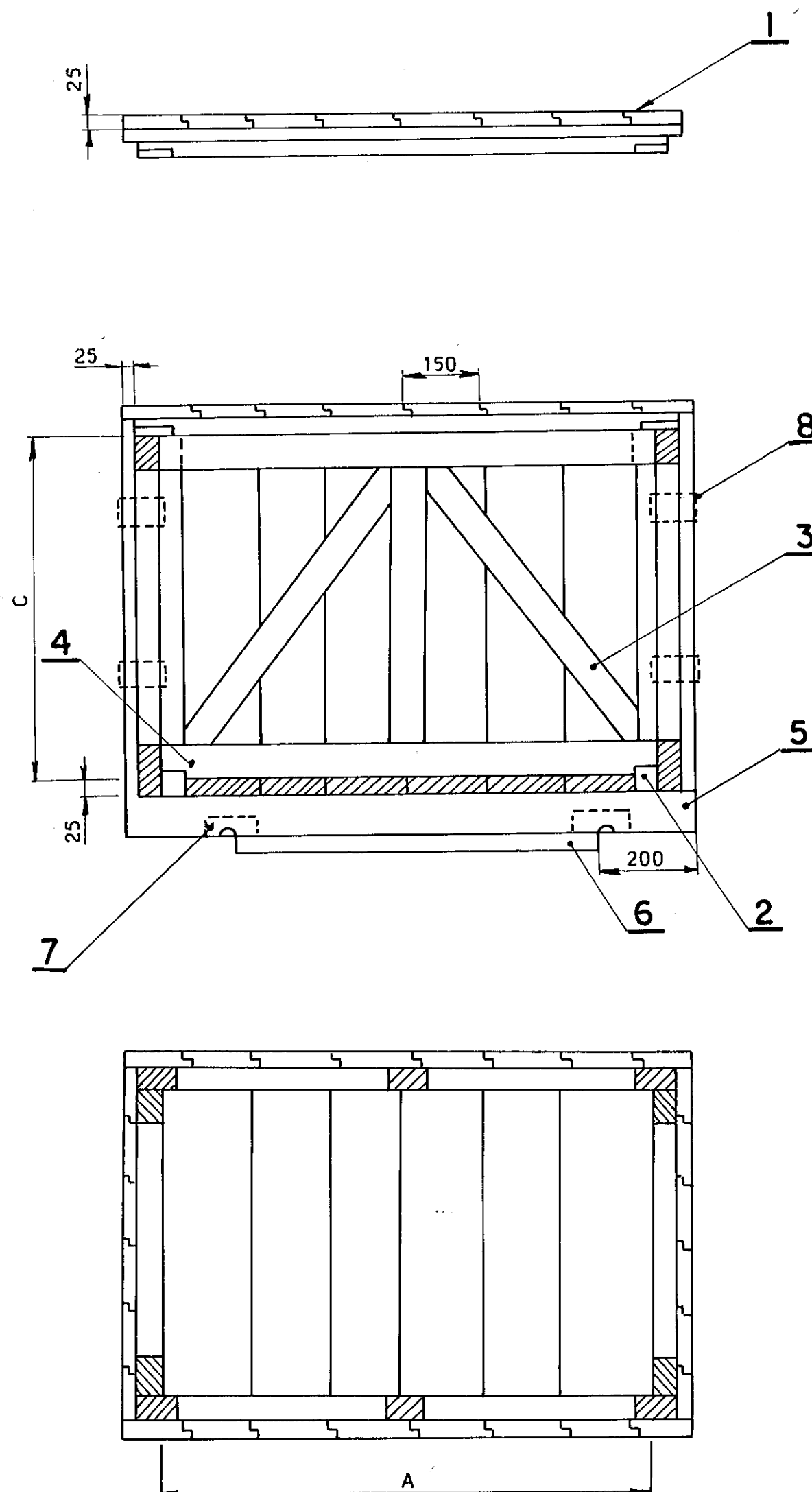
1. THE INSIDE OF ALL SIDES EXCEPT BOTTOM SHALL BE FULLY COVERED BY POLYETHYLENE SHEET SO AS TO AVOID ENTRY OF RAIN WATER.
2. SECURE THE ASSEMBLIES WITH ENOUGH SIDE SUPPORTS TO AVOID MOVEMENT OF ASSEMBLIES DURING TRANSIT.

ITEM NO	DESCRIPTION	SIZE (MM)	MATERIAL
1	SOFT WOOD PLANKS	25X150	WOOD
2	END TRAVERS BAR	50X50	WOOD
3	DIAGONAL BRACE	75X25	WOOD
4	SOFT WOOD BATTERNS	75X25	WOOD
5	RUNNERS	100X100	WOOD
6	RESTING BEAM	150X75X50 (FOR TYPE 8, 11 & 12) 100 X 50 (FOR TYPE 16, 17 & 29)	WOOD
7	SLING PLATE	-	M.S. SHEET
8	SIDE PLATE	-	M.S. SHEET

★ 3 NOS TO BE PROVIDED

NO. OF PIECES	DESCRIPTION	SEM. PRO/SEQ. NO	INT. MAT/ SEQ. NO.	FINAL MATERIAL	SCRAP SORT	NET WT.(KG)	GROSS WT.(KG)	DRAWING NO.	ITEM NO
BHARAT HEAVY ELECTRICALS LTD., BOILER PLANT UNIT, TIRUCHIRAPALLI-14									
FIRST ANGLE	SCALE	DRAWN	E.C.D.I.D.		TOTAL NET WT.(KG)				
	NTS	CHECKED	R.L. Q.A.F.		TYPE				
		APPROVED	M.R.K. M.						
ALL DIMENSIONS IN MILLIMETRES				DATE	14/12/24		NEW / OLD DRG. NO. 2-SH.BW. 023		
CAUTION THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD., BOILER PLANT UNIT, TIRUCHY-14 AND SHALL NOT BE USED WITHOUT THEIR EXPRESS WRITTEN PERMISSION IN ANY FORM OR PART THEREOF FOR ANY OTHER PURPOSE THAN FOR WHICH IT IS SENT TO YOU.					PACKING BOX (VALVES)				
DRAWING NO. 2 - V - 0000-05780					REVISION 0				

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT SCPI/RIP



LEGEND :-
A - LENGTH
B - BREADTH
C - HEIGHT

SL NO.	DRG. NO.	TYPE	DIMENSIONS			MATL. CODE
			A	B	C	
1	2-V-0001-05779	3	670	670	470	20 015 030
2	2-V-0002-05779	4	710	630	600	20 015 080
3	2-V-0003-05779	5	850	630	670	20 015 081
4	2-V-0004-05779	6	1000	770	670	20 015 082
5	2-V-0005-05779	7	1100	430	670	—
6	2-V-0006-05779	9	1250	570	1100	20 015 083
7	2-V-0007-05779	10	1300	770	1050	20 015 084
8	2-V-0008-05779	13	1700	600	700	20 015 086
9	2-V-0009-05779	14	1850	1050	1250	20 015 095
10	2-V-0010-05779	15	2000	800	800	20 015 088
11	2-V-0011-05779	5A	900	450	950	20015210

ITEM No	DESCRIPTION	SIZE (MM)	MATERIAL
1	SOFT WOOD PLANKS	25X150	WOOD
2	END TRAVERS BAR	50 X 50	WOOD
3	DIAGONAL BRACE	75X25	WOOD
4	SOFT WOOD BATTERNS	75X25	WOOD
★ 5	RUNNERS	70X70 (FOR TYPE 3, 4, 5, 5A, 6, 7, 9, 13) 100X100 (FOR TYPE 10, 14, 15)	WOOD
6	RESTING BEAM	150 X 75X50	WOOD
7	SLING PLATE	—	M.S. SHEET
8	SIDE PLATE	—	M.S. SHEET

NOTES FOR PACKING: ★ 2 NOS TO BE PROVIDED

1. THE INSIDE OF ALL SIDES EXCEPT BOTTOM SHALL BE FULLY COVERED BY POLYETHYLENE SHEET SO AS TO AVOID ENTRY OF RAIN WATER.

2. SECURE THE ASSEMBLIES WITH ENOUGH SIDE SUPPORTS TO AVOID MOVEMENT OF ASSEMBLIES DURING TRANSIT.

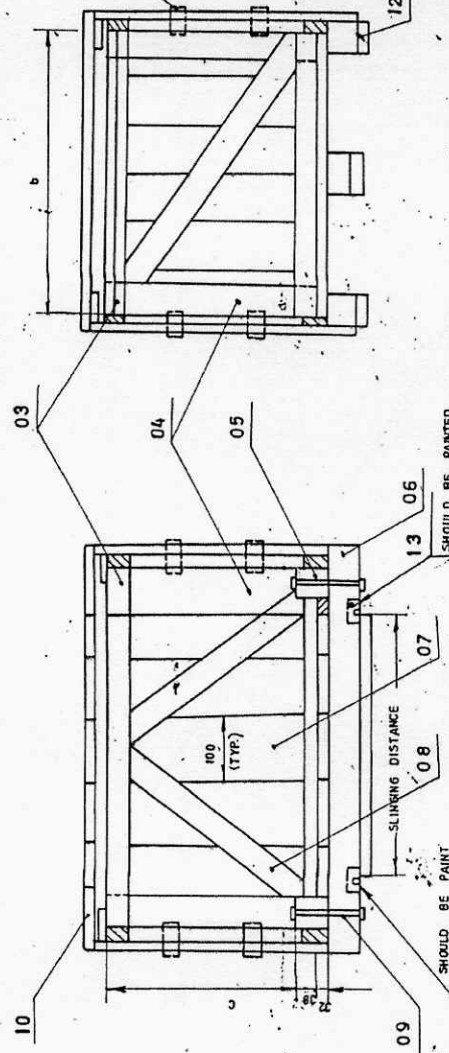
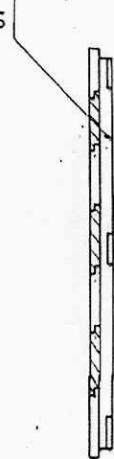
NO. OF PIECES	DESCRIPTION	SEM. PRO/SEQ. NO.	INT. MAT/SEQ. NO.	FINAL MATERIAL	SCRAP SORT	NET WT.(KG)	GROSS WT.(KG)	DRAWING NO.	ITEM NO.
BHARAT HEAVY ELECTRICALS LTD., BOILER PLANT UNIT, TIRUCHIRAPALLI-14									
FIRST ANGLE	SCALE	DRAWN	EC010	TOTAL NET WT.(KG)					
	NTS	CHECKED	R.L. [Signature]	TYPE					
		APPROVED	M.R.K. [Signature]						
ALL DIMENSIONS IN MILLIMETRES				DATE	14/12/96	NEW / OLD DRG. NO.		2-SH-BW-0229	
CAUTION				TITLE					
THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD., BOILER PLANT UNIT, TIRUCHY-14 AND SHALL NOT BE USED WITHOUT THEIR EXPRESS WRITTEN PERMISSION IN ANY FORM OR PART THEREOF FOR ANY OTHER PURPOSE THAN FOR WHICH IT IS SENT TO YOU.				PACKING BOX (VALVES)					
33-114				DRAWING NO.				2-V-0000-05779	
				REVISION				02.	

REV	DATE	ALTD. BY	REV.	DATE	ALTD. BY	REV.	DATE	ALTD. BY
0		CHD-8.	02	16.5.96	CHD&APPD: [Signature]	01	01.12.95	ALTERED P.R.K. [Signature] CHECKED SCS [Signature]
			DIMNS. IN SL. NO. 11 900, 450 & 950 WERE 800, 400 & 900 RESPECTIVELY			RUNNER SIZE CHANGED. FOR TYPE NO: 10/14 & 15 REQUEST FROM SHIPPING.		

20000 - 1R3 - HS - 2 - SH - CRT - 00002

FOR DETAIL DRG. PL. REFER

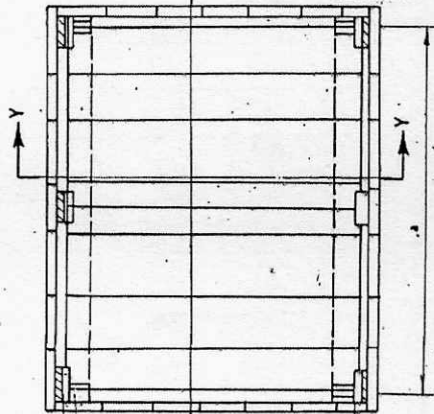
- TOP - 2 - SH - B - 001/B.
- BOTTOM - 2 - SH - B - 001 A/B.
- SIDE - 2 - SH - B - 001 B/B.
- END - 2 - SH - B - 001 C/B.



SECTION - YY

1. END SHOOK IS TO BE FIXED WITH BASE 1/4" NAILS @ GAUGE.
2. ALL OTHER NAILING SHOULD BE 2 1/2" - 10 GAUGE FOR ASSY.
3. CORNER PLATE AND SLING PLATE IS TO BE FIXED WITH 2" NAILS @ 12 GAUGE.
4. TYPE 966 BOX HAVE 2 RUNNERS IN THE BASE.

SECTION - XX



5. ALL SHOOKS SHOULD BE FIXED WITH POLYTHENE SHEET TO PROTECT FROM RAIN/WATER

A

TYPE	a	b	c
1577	1500	700	700
1399	1300	900	900
1296	1200	900	600
966	900	600	600

11

15	SLINGING DISTANCE SHOULD BE PAINTED	850
14	CAPACITY K6	2000
13	SLING PL. 150 X 75 X 0.5mm SHOULD BE PAINTED	4 NOS
12	RESTING BOARD	40 X 100
11	SIDE PLATE SHOULD BE PAINTED X NAILS 2"	150 X 25
10	THICKNESS OF SHEATHING PLANK	150 X 25
09	BOLT SIZE	M 12 6 NOS
08	DIAGONAL BRACE	30 X 100
07	INTERMEDIATE VERTICAL SUPPORT	30 X 100
06	RUNNER	100 X 100 3 NOS
05	BASE END TRAVERSE BAR	70 X 70 2 NOS
04	LATERAL PANEL AND END PANEL VERTICAL SUPPORT	30 X 100
03	LATERAL PANEL AND END PANEL HORIZONTAL SUPPORT	30 X 100
01	TOP LONGITUDINAL BEAM	3 NOS. 30 X 100

TYPE OF PRODUCT
OR NAME OF ALL DIMENSIONS SHOWN FOR TV-1296 BOX

CUSTOMER/PROJECT

DATE OF ISSUE

DATE OF REVISION

DESIGNER

CHECKED

APPROVED

WEIGHT (KG)

SCALE

BOILER COMPONENT
PACKING BOX

DRAWING NO.
2-SH-CRT-00002 B

Size A2

DETAILS OF WOODEN BOX DIMENSIONS, WEIGHT AND VOLUME								
BOX	BOX WT	INSIDE DIMENSION IN MM			OUTSIDE DIMENSION IN MM			VOLUM IN
TYPE	(KG)	LENGTH	BREADTH	HEIGHT	LENGTH	BREADTH	HEIGHT	CUBIC Mtr.
1A	10	320	250	260	450	300	280	0.038
1	15	320	250	430	450	370	580	0.097
2	25	430	370	430	570	490	590	0.165
3	65	670	670	470	770	770	700	0.415
4	75	710	630	600	810	730	840	0.497
5	95	850	630	670	950	730	900	0.624
6	100	1000	770	670	1100	870	915	0.876
7	80	1100	430	670	1200	520	900	0.562
8	170	1200	1200	900	1300	1300	1150	1.944
10	155	1300	770	1050	1400	860	1320	1.589
11	225	2500	850	800	2600	950	1050	2.594
12	305	2000	1500	1200	2100	1600	1400	4.704
14	260	1850	1050	1250	1950	1150	1480	3.319
15	180	2000	800	800	2100	900	990	1.871
16	345	3000	1050	1000	3100	1220	1250	4.728
17	470	2600	1500	1600	2700	1600	1830	7.906
29	390	3600	1100	1100	3700	1220	1350	6.094
21	25	250	250	600	380	380	770	0.111
22	30	250	250	880	380	380	1040	0.150
23	25	300	300	700	425	425	850	0.154
24	45	380	380	880	510	510	1050	0.273
27	80	570	570	1400	700	700	1560	0.764
28	105	575	575	1875	710	710	2040	1.028
62	130	600	1125	1000	700	1325	1200	1.113
63	55	800	370	750	900	500	800	0.360
51	260	2775	850	680	2870	950	950	2.590
52	255	2000	950	740	2100	1050	1050	2.315
53	220	1600	1120	700	1700	1220	980	2.033
54	490	2500	1900	1200	2600	2000	1450	7.540
55	525	2900	1900	1400	3000	2000	1650	9.900
56	370	3000	1000	900	3100	1100	1200	4.092
57	450	3200	2200	850	3300	2300	1100	8.349
58	325	2200	1100	750	2300	1200	1050	2.898
60	485	2300	2200	1200	2350	2300	1500	8.108
61		675	675	2000				
304 MM=1 FEET								