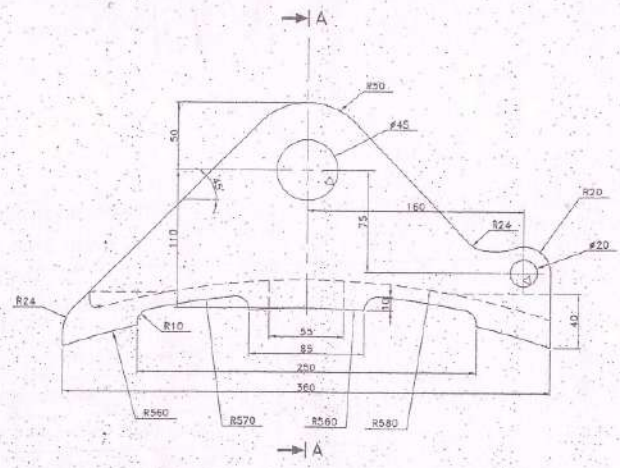
Technical Specification					
S. No.	**Material Code**	**Short Description**	**Long Description**	**UOM**	**Required Quantity**
1	1700175050	LINER PLATE METALLIC CASTSS 1100 55&84PN	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:55&84PN SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 55 & 84 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	12
2	1700175049	LINER PLATE METALLIC CASTSS 1100 56&85PN	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:56&85PN SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 56 & 85 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	72
3	1700175048	LINER PLATE METALLIC CASTSS 1100 57&86PN	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:57&86PN SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 57 & 86 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	36
4	1700175047	LINER PLATE METALLIC CASTSS 1100 58&87PN	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:58&87PN SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 58 & 87 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	12
5	1700175019	LINER PLATE METALLIC CASTSS 1100 5&30 PN	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:5&30 PN SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 5 & 30 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	12
6	1700175018	LINER PLATE METALLIC CASTSS 1100 6&31 PN	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:6&31 PN SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 6 & 31 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	36
7	1700175017	LINER PLATE METALLIC CASTSS 1100 7&32 PN	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:7&32 PN SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 7 & 32 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	12
8	1700175016	LINER PLATE METALLIC CASTSS 1100 111P.N.	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:111P.N. SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 111 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	24
9	1700175015	LINER PLATE METALLIC CASTSS 1100 112P.N.	LINER PLATE METALLIC MATERIAL:CASTSS TEMPERATURE RESISTANCE:1100 DEG CENT SHAPE:112P.N. SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:CAST STEEL LINER PLATE POSITION NO. 112 AS PER DRAWING NO.NMDC/BEC/02/13/01/DE/6625 FOR COKE BUCKETS.	NO	54
10	1700360553	LINER PLATE METALLIC FG200 7.1 P.N	LINER PLATE METALLIC MATERIAL:FG200 (IS 210:2009) SHAPE:7.1 P.N. SURFACE FINISH:CAST FINISH ADDITIONAL INFORMATION:BRAKE SHOES LINNER PLATES POSITION NO. 7.1 AS PER DRAWING NO. NMDC/CO/CDCP/022-01 FOR ELECTRIC LOCO	NO	24

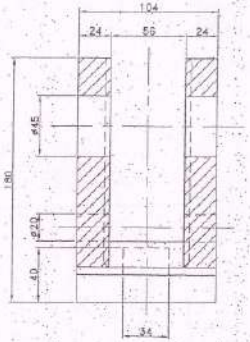
Note:

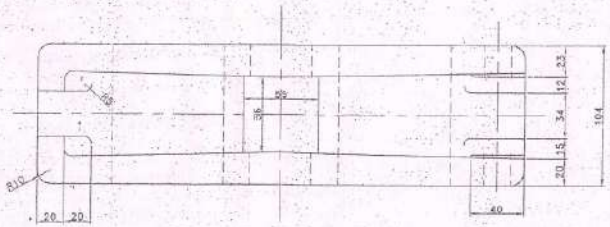
1	Inspection Plan: Physical Inspection will be done at NSL store alongwith Test Certificate supplied by the manufacturer.
2	Sample Required/ Not Required: Not required.
3	Warranty Certificate: The manufacturer is required to submit a warranty certificate for the supplied items.
4	Delivery Details: Within 90 days.
5	Packing Details: The supplied items should be packaged suitably to prevent physical damage and ensure ease of handling. Additionally, proper details should be clearly mentioned on each individual item for identification.
6	PDI/TPI: NA

POS.NO.: 7.3



SECTION A–A





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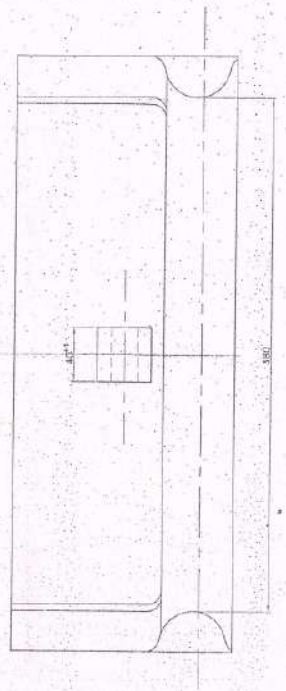

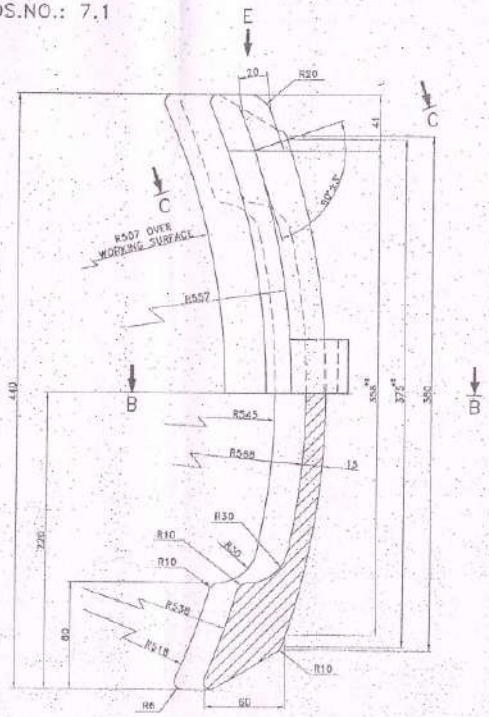

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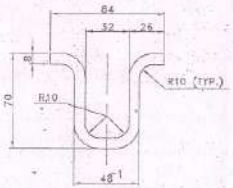

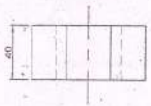

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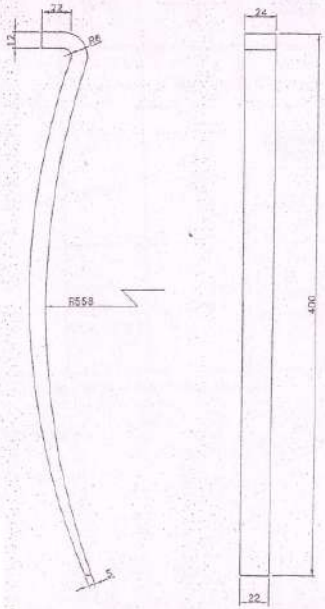

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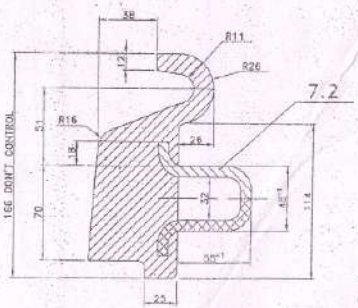
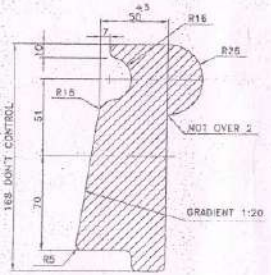
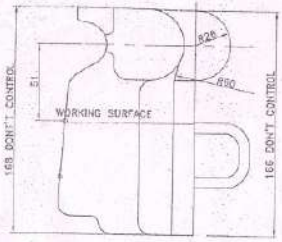


SECTION C–C



VIEW AT E



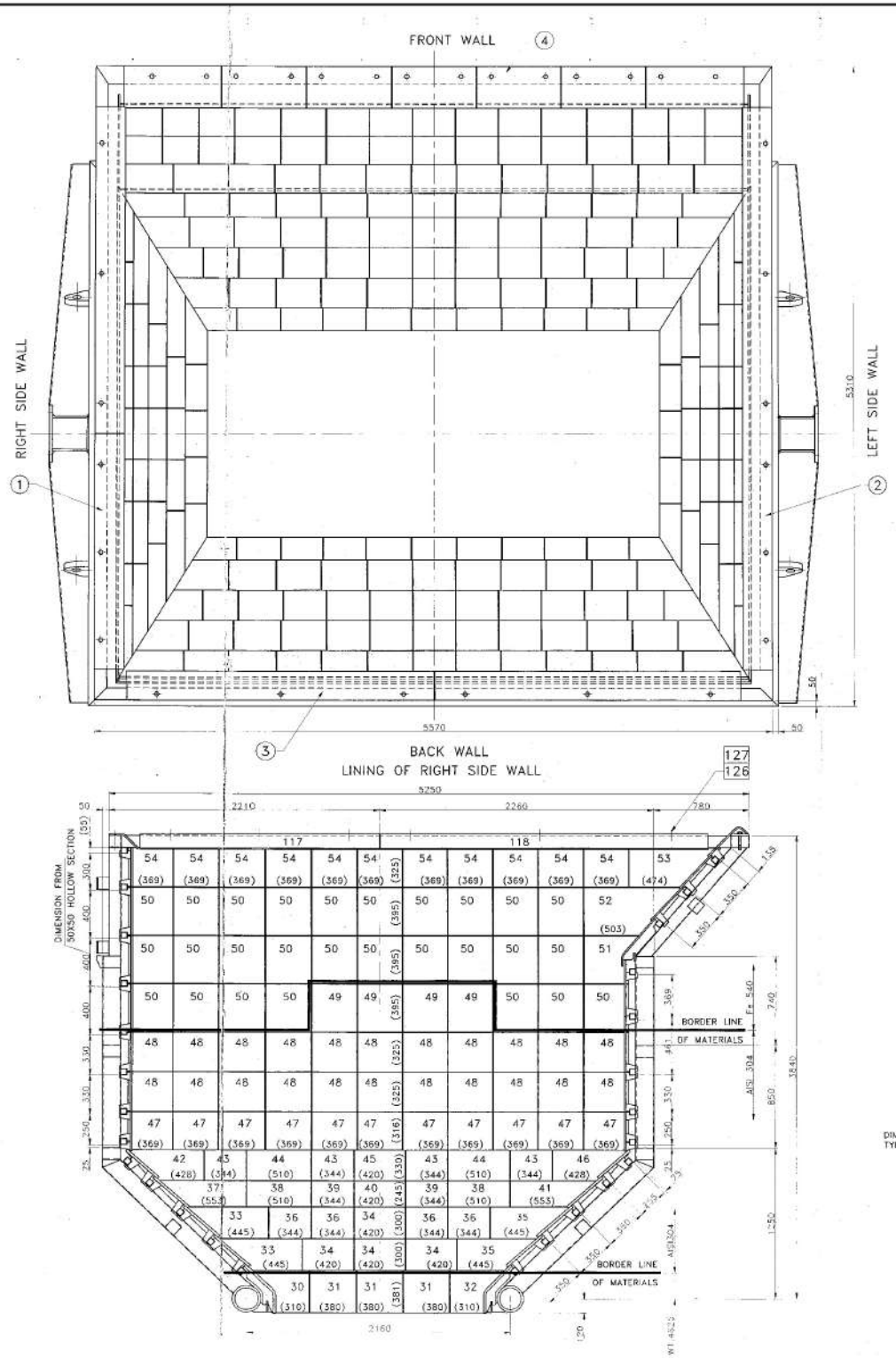
TECHNICAL REQUIREMENT

1. AS CAST DIMENSIONAL TOLERANCE WHERE EVER NOT SPECIFIED TO BE AS PER IS: 5519 CLASS 3^{+2}.
2. ALL NOT MENTIONED FOUNDRY RADII SHOULD BE MADE R3
3. ALL FOUNDRY GRADIENTS ARE MADE NOT OVER 5°.
4. THE PART SHOULD BE THOROUGHLY CLEANED FROM SAND.
5. THE CLEARANCE BETWEEN THE PATTERN MADE BY NOMINAL DIMENSION & OPERATING SURFACE R = 507 MM. OF THE SHOE SHOULD BE IN THE MIDDLE PART 2 MM. & ON THE EDGES UP TO 3MM.
6. TEST THE BRAKE SHOE TO BE KEYED WITH SHOE, THE SHOE SHOULD BE TIGHTLY FITTED TO THE FRAME WORK THE LOCAL GAPS AT THREE POINT SHOULD NOT BE OVER 1 MM.
7. THE PART MATERIAL GRAY CAST IRON Gr. 200 FG IS: 210

SHOE AND BRAKE BLOCK DETAIL

BRAKE SHOES LINNER PLATE

NMDC/CO/CDCP/022-01



66	LINING PLATE	1	24.8	24.8	XX	
67	LINING PLATE	1	24.8	24.8	XX	
68	LINING PLATE	1	27.7	27.7	XX	
69	LINING PLATE	10	20.8	208	XX	
70	LINING PLATE	1	19.8	19.8	XX	
71	LINING PLATE	1	27.7	27.7	XX	
72	LINING PLATE	6	13.4	80.4	XX	
73	LINING PLATE	4	15.7	62.8	XX	
74	LINING PLATE	5	14.9	74.5	XX	
75	LINING PLATE	12	13.3	159.6	XX	
76	LINING PLATE	8	15.7	125.6	XX	
77	LINING PLATE	10	14.9	149	XX	
78	LINING PLATE	18	10.3	185.4	XXX	
79	LINING PLATE	8	12.1	96.8	XXX	
80	LINING PLATE	5	11.4	57	XXX	
81	LINING PLATE	6	8.6	51.6	XXX	
82	LINING PLATE	4	10	40	XXX	
83	LINING PLATE	5	9.5	47.5	XXX	
84	LINING PLATE	1	35	35	X	
85	LINING PLATE	6	33	198	X	
86	LINING PLATE	3	40	120	X	
87	LINING PLATE	1	33	33	X	
88	LINING PLATE	14	22.8	319.2	XX	
89	LINING PLATE	15	21.7	325.5	XX	
90	LINING PLATE	1	28.3	28.3	XX	
91	LINING PLATE	1	28.3	28.3	XX	
92	LINING PLATE	1	23	23	XX	
93	LINING PLATE	1	18.4	18.4	XX	
94	LINING PLATE	1	23	23	XX	
95	LINING PLATE	1	24.8	24.8	XX	
96	LINING PLATE	1	24.8	24.8	XX	
97	LINING PLATE	1	27.7	27.7	XX	
98	LINING PLATE	10	20.8	208	XX	
99	LINING PLATE	1	19.8	19.8	XX	
100	LINING PLATE	1	27.7	27.7	XX	
101	LINING PLATE	6	10.2	61.2	XX	
102	LINING PLATE	4	12	48	XX	
103	LINING PLATE	5	11.3	56.5	XX	
104	LINING PLATE	6	10.2	61.2	XX	
105	LINING PLATE	4	11.9	47.6	XX	
106	LINING PLATE	5	11.3	56.5	XX	
107	LINING PLATE	12	14	168	XX	
108	LINING PLATE	8	16.5	132	XX	
109	LINING PLATE	10	15.6	156	XXXX	
110A	LINING PLATE	10	21.7	217	XXXX	
110B	LINING PLATE	6	22.8	136.8	XXXX	
111	LINING PLATE	4	35	140	X	
112	LINING PLATE	9	38.5	346.5	X	
113	LINING PLATE	1	18.4	18.4	XX	
114	LINING PLATE	8	11.4	91.2	XXX	
115	LINING PLATE	4	13.3	53.2	XXX	
116	LINING PLATE	2	14	28	XXX	
117	LINING PLATE	1	52.2	52.2	XXX	
118	LINING PLATE	1	72.5	72.5	XXX	
119	LINING PLATE	1	52.2	52.2	XXX	
120	LINING PLATE	1	72.5	72.5	XXX	
121	LINING PLATE	2	67.3	134.6	XXX	
122	LINING PLATE	1	36.3	36.3	XXX	
123	LINING PLATE	2	32.1	64.2	XXX	
124	LINING PLATE	3	32.1	96.3	XXXX	
125	LINING PLATE	1	36.3	36.3	XXX	
126	HEX. NUT	32	–	1.9		
127	HEX. SCREW	18	–	7.7		
128	LINING PLATE	4	14.4	57.6	XX	
129	LINING PLATE	10	13.6	136	XX	

NO. POS	DESCRIPTION	QTY	WT IN KG. UNIT	WT IN KG. TOTAL	MATERIAL	REMARKS
1	HOLDER OF LINING – RIGHT	1	320	331	ASSEMBLY	
2	HOLDER OF LINING – LEFT	1	320	331	ASSEMBLY	
3	HOLDER OF LINING – FRONT WALL	1	514	525	ASSEMBLY	
4	HOLDER OF LINING – BACK WALL	1	429	446	ASSEMBLY	
5	LINING PLATE	1	30	30	X	
6	LINING PLATE	3	33	99	X	
7	LINING PLATE	1	30	30	X	
8	LINING PLATE	2	28	56	XX	
9	LINING PLATE	4	20.4	81.6	XX	
10	LINING PLATE	2	28	56	XX	
11	LINING PLATE	4	15.8	62.7	XX	
12	LINING PLATE	1	26.1	26.1	XX	
13	LINING PLATE	2	20.2	40.4	XX	
14	LINING PLATE	2	13.8	27.6	XX	
15	LINING PLATE	1	16.8	16.8	XX	
16	LINING PLATE	1	26.1	26.1	XX	
17	LINING PLATE	1	29.2	29.2	XX	
18	LINING PLATE	4	18.4	73.6	XX	
19	LINING PLATE	2	27	54	XX	
20	LINING PLATE	1	22.4	22.4	XX	
21	LINING PLATE	1	29.1	29.1	XX	
22	LINING PLATE	11	15.2	167.2	XX	
23	LINING PLATE	22	15.6	343.2	XX	
24	LINING PLATE	4	18.9	75.6	XX	
25	LINING PLATE	27	12	324	XXX	
26	LINING PLATE	1	15.3	15.3	XXX	
27	LINING PLATE	1	25.6	25.6	XXX	
28	LINING PLATE	1	19.4	19.4	XXX	
29	LINING PLATE	11	10	110	XXX	
30	LINING PLATE	1	30	30	X	
31	LINING PLATE	3	33	99	X	
32	LINING PLATE	1	30	30	X	
33	LINING PLATE	2	28	56	XX	
34	LINING PLATE	4	20.4	81.6	XX	
35	LINING PLATE	2	28	56	XX	
36	LINING PLATE	4	16.8	67.2	XX	
37	LINING PLATE	1	26.1	26.1	XX	
38	LINING PLATE	2	20.2	40.4	XX	
39	LINING PLATE	2	13.8	27.6	XX	
40	LINING PLATE	1	16.8	16.8	XX	
41	LINING PLATE	1	26.1	26.1	XX	
42	LINING PLATE	1	29.1	29.1	XX	
43	LINING PLATE	4	18.4	73.6	XX	
44	LINING PLATE	2	27	54	XX	
45	LINING PLATE	1	22.4	22.4	XX	
46	LINING PLATE	1	29.1	29.1	XX	
47	LINING PLATE	11	15.2	167.2	XX	
48	LINING PLATE	22	15.6	343.2	XX	
49	LINING PLATE	4	18.9	75.6	XX	
50	LINING PLATE	27	12	324	XXX	
51	LINING PLATE	1	15.3	15.3	XXX	
52	LINING PLATE	1	25.6	25.6	XXX	
53	LINING PLATE	1	19.4	19.4	XXX	
54	LINING PLATE	11	10	110	XXX	
55	LINING PLATE	1	33	33	X	
56	LINING PLATE	6	35	210	X	
57	LINING PLATE	3	40	120	X	
58	LINING PLATE	1	33	33	X	
59	LINING PLATE	14	21.7	303.8	XX	
60	LINING PLATE	15	22.8	342	XX	
61	LINING PLATE	1	28.3	28.3	XX	
62	LINING PLATE	1	28.3	28.3	XX	
63	LINING PLATE	1	23	23	XX	
64	LINING PLATE	2	18.4	36.8	XX	
65	LINING PLATE	1	23	23	XX	

TOTAL WEIGHT: 12090kgs (APPX.)

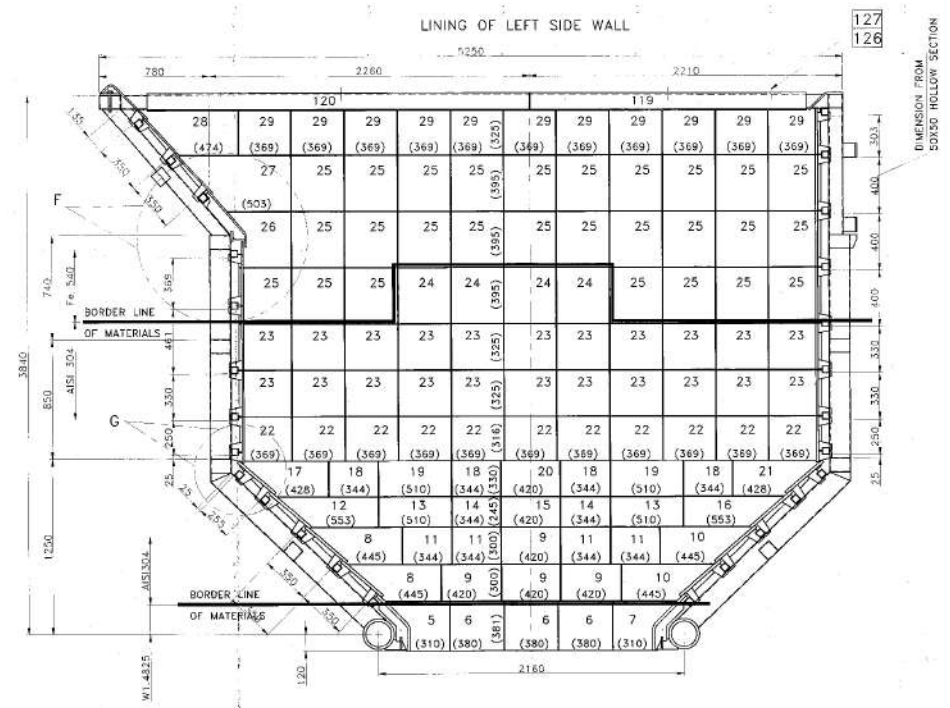
DIMENSIONS IN BRACKETS ARE SIDE LENGTHS OF LINING PLATES.
TYPICAL GAP BETWEEN LINING PLATES IS 4...6mm.

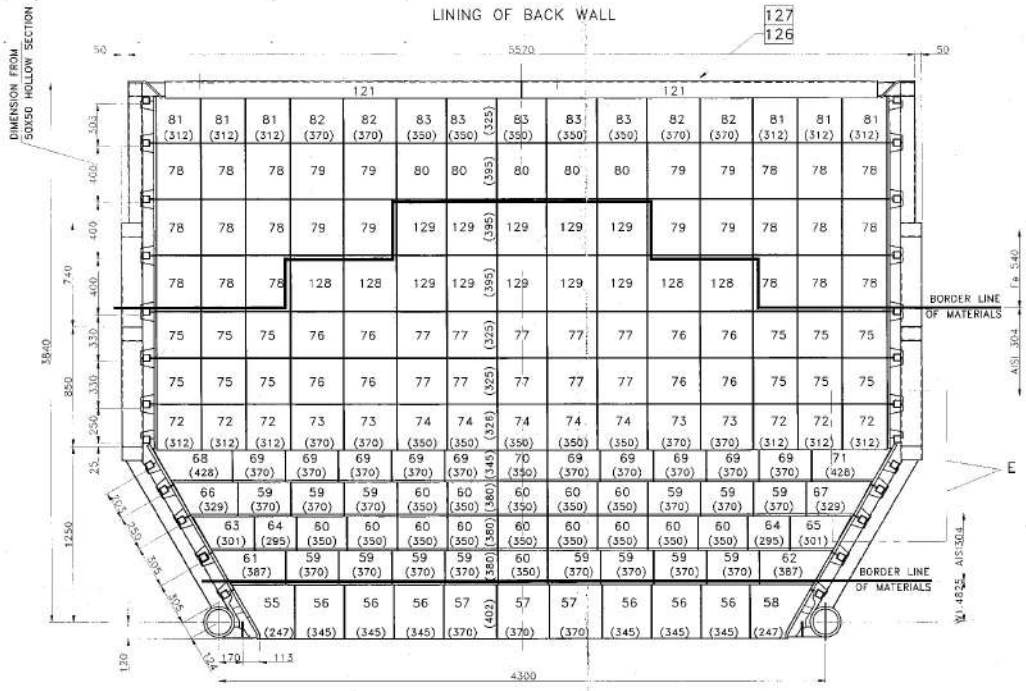
LINING METAERIALS (OR EQUIVALENT AVAILABLE IN INDIA)	
X	: W 1.4825 (GX25CrNiSi 18-9)
XX	: AISI 304
XXX	: Fe 540 IS : 2062
XXXX	: W 1.4828 (X15CrNiSi20-12)

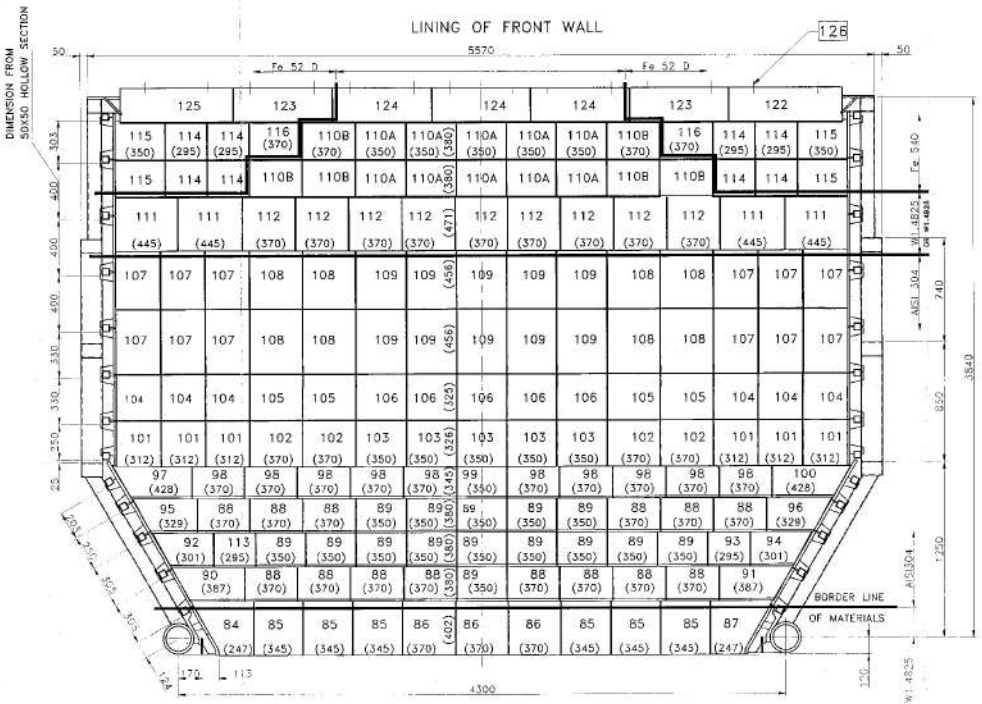
REF. DRG NO.-NMDC/BEC/02/13/01/DE/6625

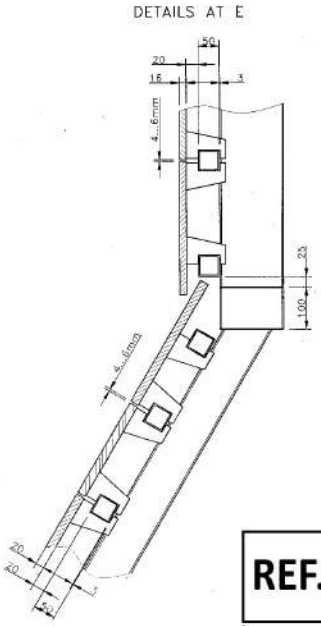
COKE BUCKET LINNER PLATES

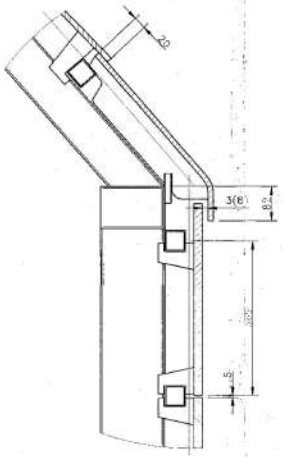
NMDC/CO/CDCP/021-01

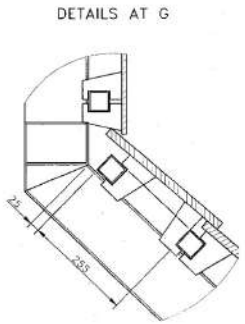








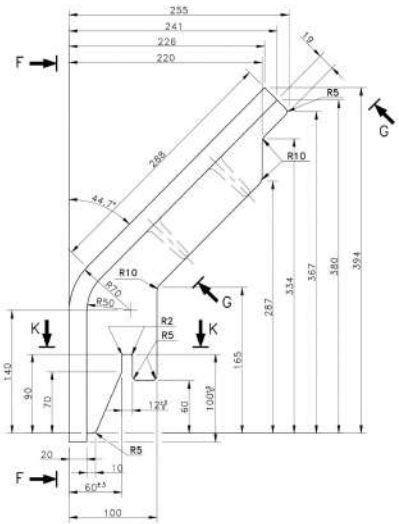


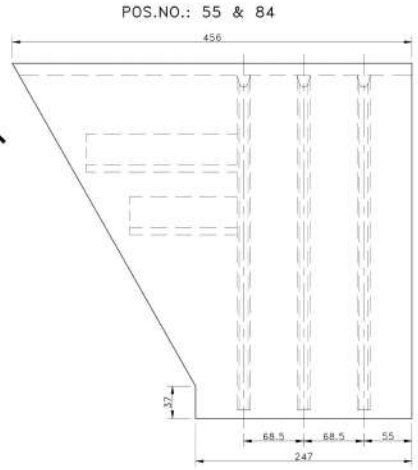


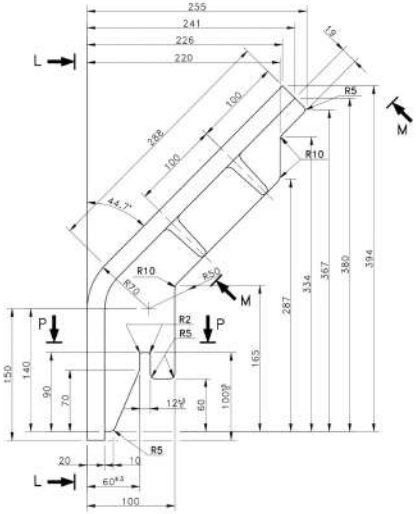
REF. DRG NO.-NMDC/BEC/02/13/01/DE/6625

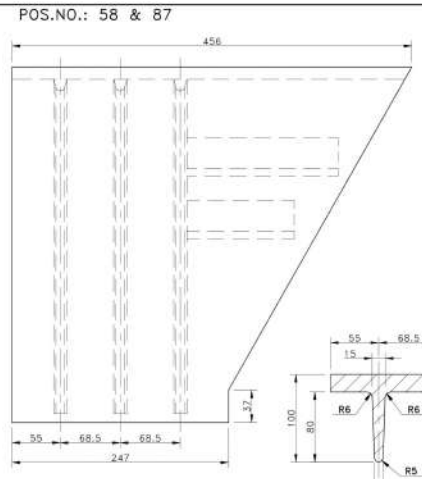
COKE BUCKET LINNER PLATES

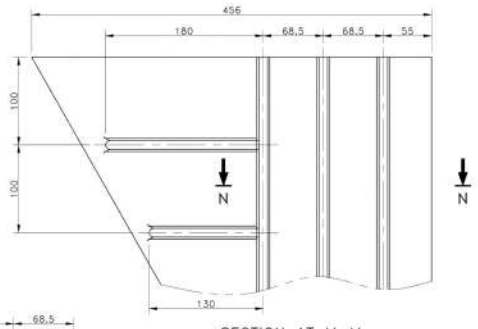
NMDC/CO/CDCP/021-02

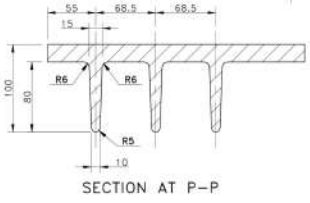


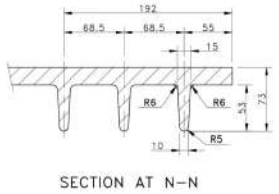


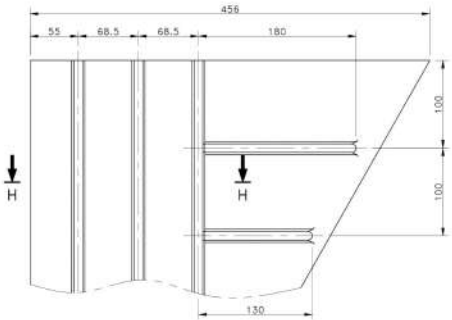


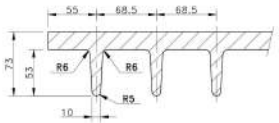


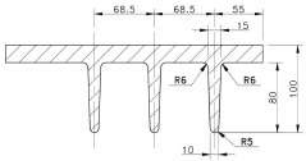


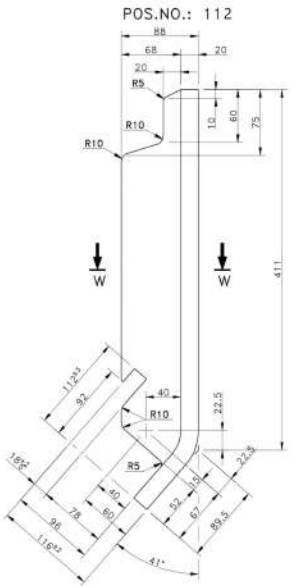


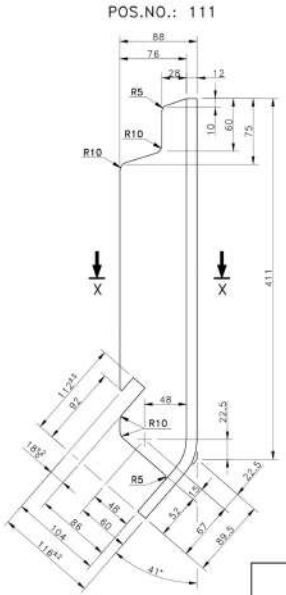


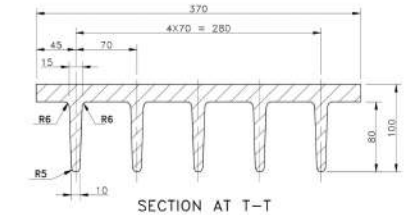


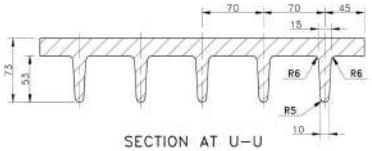


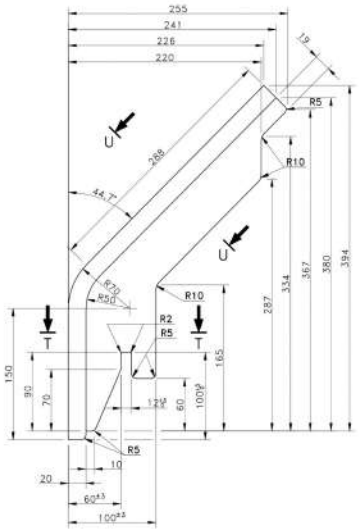


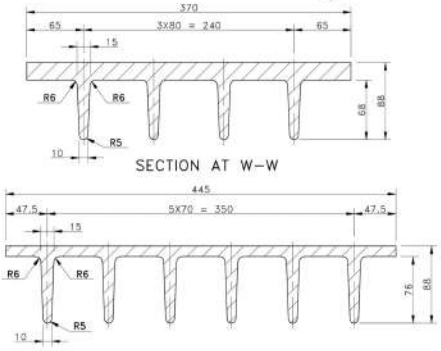










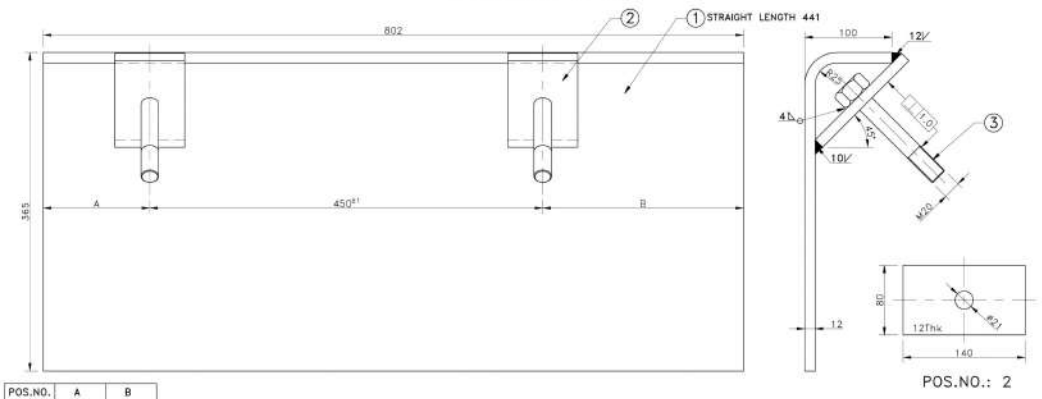


REF. DRG NO.-NMDC/BEC/02/13/01/DE/6625

COKE BUCKET LINNER PLATES

NMDC/CO/CDCP/021-03

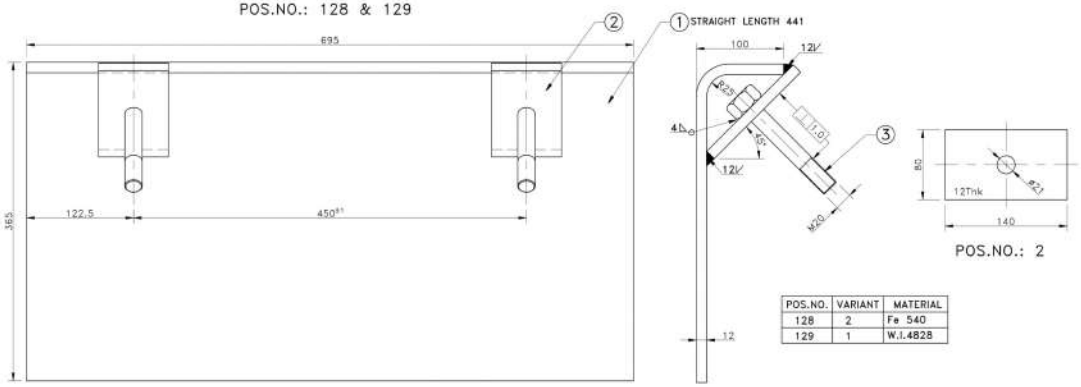
POS.NO.: 127 & 130



POS.NO.	A	B
127	122	(230)
130	(230)	122

POS.NO.: 2

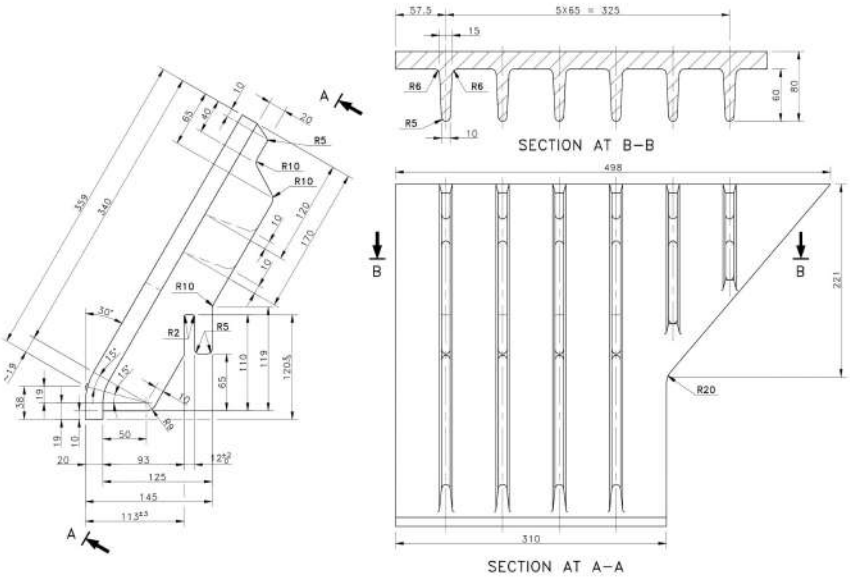
POS.NO.: 128 & 129



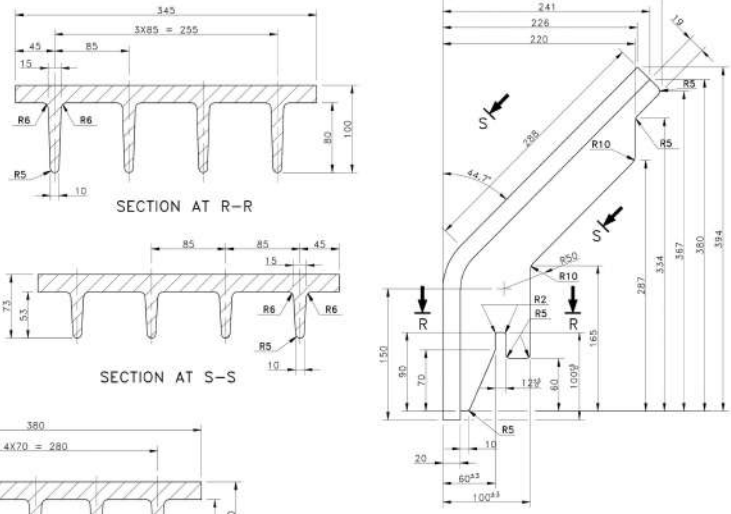
POS.NO.: 2

POS.NO.	VARIANT	MATERIAL
128	2	Fe 540
129	1	W.I.4828

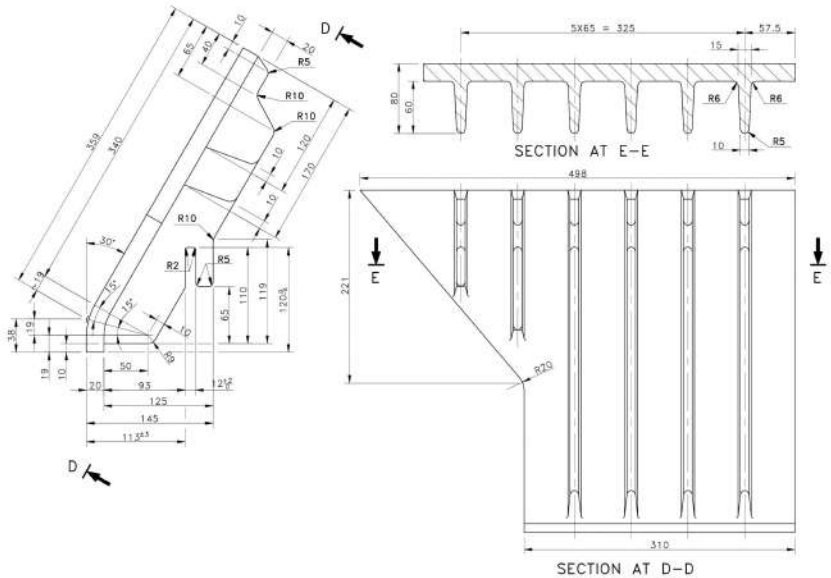
POS.NO.: 5 & 30



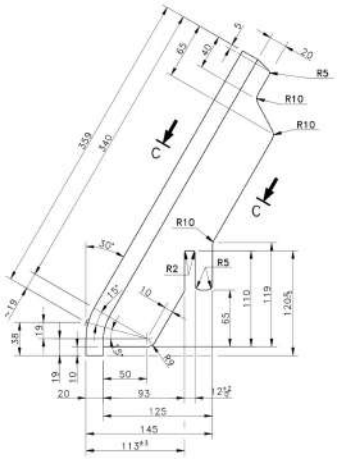
POS.NO.: 56 & 85



POS.NO.: 7 & 32



POS.NO.: 6 & 31



ALL DIMENSIONS ARE IN mm.

REF. DRG NO.-NMDC/BEC/02/13/01/DE/6625

COKE BUCKET LINNER PLATES

NMDC/CO/CDCP/021-04