


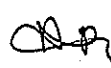
**RAIL COACH FACTORY, KAPURTHALA**

**Document no. EDML068,Rev-A**

1. Firm shall supply Set of Diffusers for Day coach for Senegal Railways with dimension and quantity as below.

Item. No.	Description	Drawing No.	Qty
1.	Diffuser (L=988.5MM)	FD76004, Item-1	1
2.	Diffuser (L=958MM) With out perforation	FD76004, Item-2	4
3.	Diffuser (L=958MM)	FD76004, Item-3	1
4.	Diffuser (L=1257.5MM)	FD76004, Item-4	1
5.	Diffuser (L=1257.5MM)	FD76004, Item-5	1
6.	Diffuser (L=596.5MM) With out perforation	FD76004, Item-6	1
7.	Diffuser (L=1257.5MM)	FD76004, Item-7	1
8.	Diffuser (L=958MM)	FD76004, Item-8	1
9.	Diffuser (L=988.5MM)	FD76004, Item-9	1
10.	Diffuser (L=700MM) With out perforation	FD76004, Item-10	10

2. The above dimensions are tentative and actual length shall be cut as per prototype approval on one coach. However, overall length of complete set shall remain same.
3. The holes for ventilation should be suitably formed/ machined to avoid any bad look.
4. The location of diffuser in coach shall be per drawing no. FD76005. The complete set should exactly fit as per this for which validation shall be done on one coach before commencing bulk supply.

EDML068	A	28.02.2006			1 of 1
Document no.	Rev.	Date	SE/CAD-IV	DY.CEE/D&D	Sheet

1	2	3	4	5	6	7	8	9	10	11	12	13
AL.T. NO. ALT. DATE ZONE									ALTERATIONS		AUTHORITY	
NIL									NIL		NIL	

Ø5 HOLES FOR VENTILATION

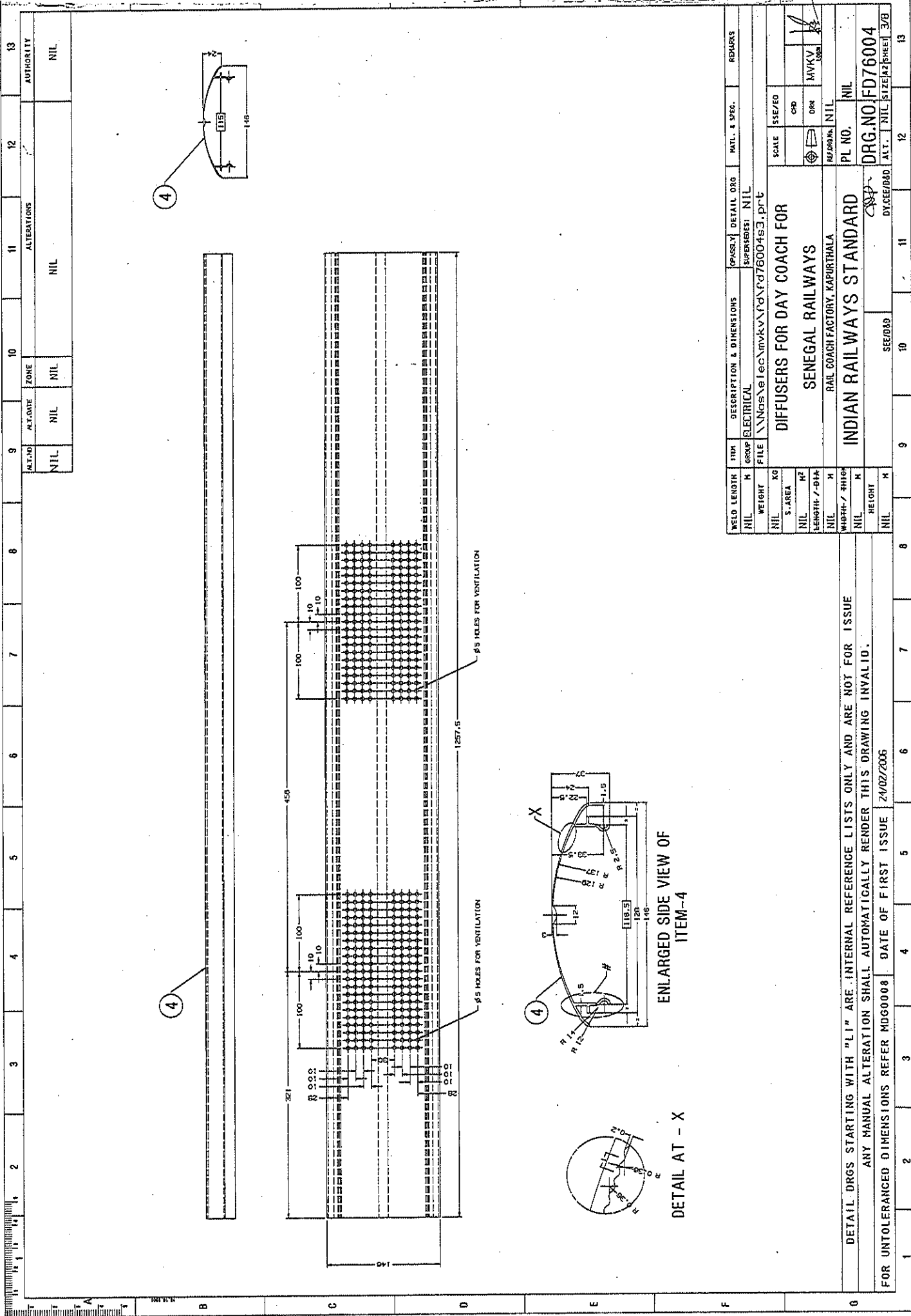
ENLARGED SIDE VIEW OF ITEM-3

DETAIL AT - X

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	Q/PASST	DETAIL DRG	NTEL. & SPEC.	REMARKS
NIL	H	ELECTRICAL				
WEIGHT	FILE	SUPERSEDES: NIL				
NIL	KG	\\nasxetec\mvkv\FD76004S2.prt				
S. AREA	DIFFUSERS FOR DAY COACH FOR					
NIL	SENEGAL RAILWAYS					
NIL	RAIL COACH FACTORY, KAPURTHALA					
WIDTH / THICK	INDIAN RAILWAYS STANDARD					
NIL	PL. NO. NIL					
HEIGHT	DRG. NO. FD76004					
NIL	DY. CEE/DAD					
	SEE/DAD	10	11	12	13	

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE  
 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.  
 FOR UNTOLERANCED DIMENSIONS REFER MCG0008 DATE OF FIRST ISSUE 24/02/2006

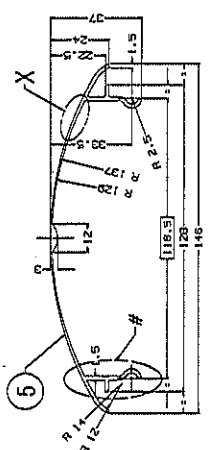
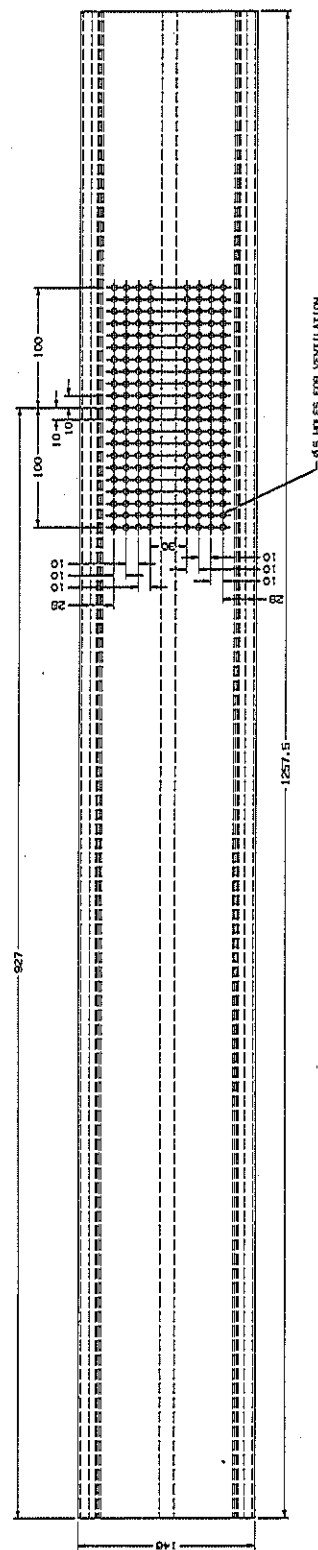
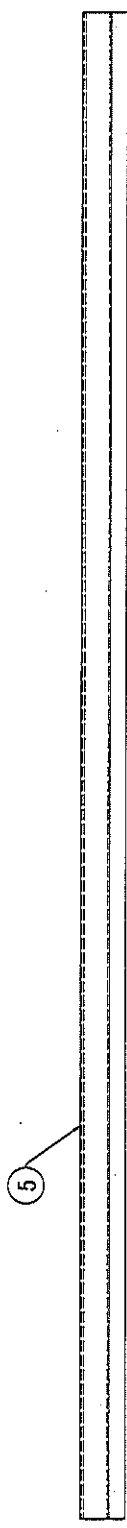
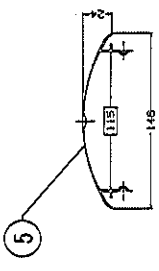


ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	11	12	13	AUTHORITY
NIL	NIL	NIL	NIL				NIL

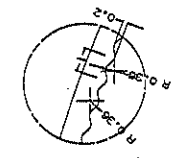
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	CROSSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	K	ELECTRICAL	SUPERSIDES	NIL		
WEIGHT	GROUP	FILE	DRG.NO\FD\76004s3.prt			
NIL	XG	\\nasve\ec\mkv\vdv\76004s3.prt	SCALE			
S. AREA	M <sup>2</sup>	SENAGAL RAILWAYS				SR
LENGTH / DIA	M	RAIL COACH FACTORY, KAPURTHALA				DRN
WIDTH / HEIGHT	M	INDIAN RAILWAYS STANDARD				REP
HEIGHT	M	PL NO. NIL				MVKV
		DRG.NO\FD\76004				1000
		SEE/030	9	10	11	12
			8	7	6	5
			4	3	2	1

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE  
 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.  
 FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 24/02/2006

1	2	3	4	5	6	7	8	9	10	11	12	13
ALT. NO.		ALT. DATE		ZONE		ALTERATIONS		AUTHORITY				
NIL		NIL		NIL		NIL		NIL				



ENLARGED SIDE VIEW OF  
ITEM-5



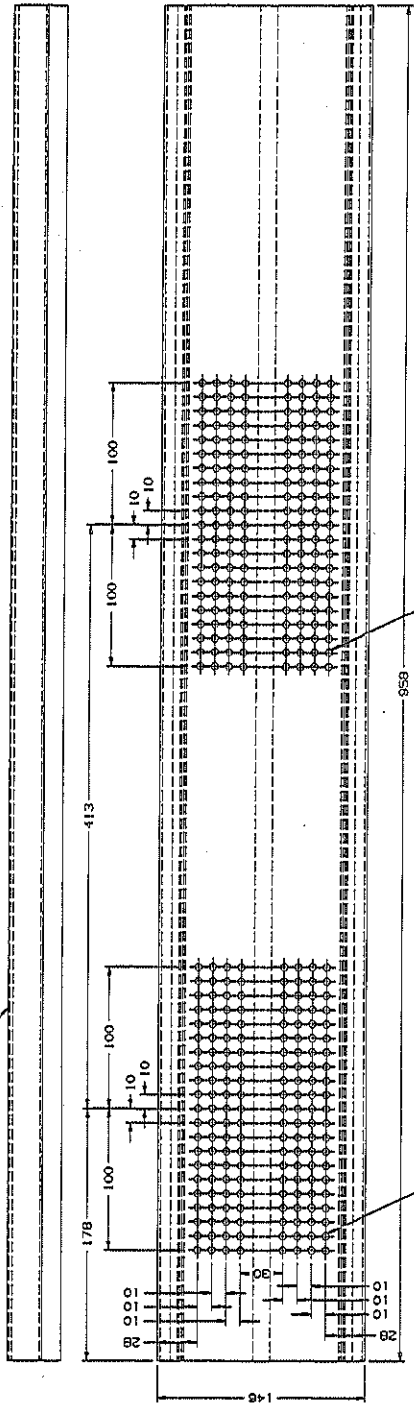
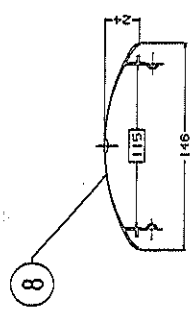
DETAIL AT - X

WELD LENGTH	FILE	DESCRIPTION & DIMENSIONS	DETAIL DRG	MAT. & SPEC.	REMARKS
NIL	ELECTRICAL	SENEGAL RAILWAYS	NIL		
WEIGHT	FILE	INDIAN RAILWAYS STANDARD	PL NO.		
NIL		RAIL COACH FACTORY, KAPURTHALA	DRG.NO		
S. AREA			ALT.		
NIL			SIZE		
LENGTH / DIA			SHEET		
NIL					
WIDTH / HEIGHT					
NIL					
HEIGHT					
NIL					

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.  
FOR UNTOLERANGED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 21/02/2006

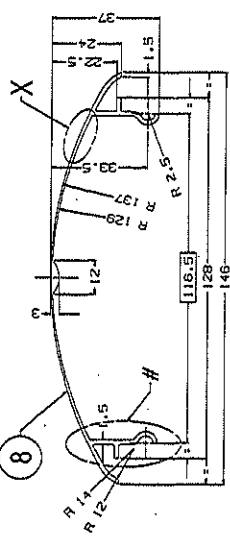
1	2	3	4	5	6	7	8	9	10	11	12	13																																																																		
<table border="1"> <tr> <td>ALT. NO.</td><td>ALT. DATE</td><td>ZONE</td><td colspan="2">ALTERATIONS</td><td>AUTHORITY</td> </tr> <tr> <td>NIL</td><td>NIL</td><td>NIL</td><td colspan="2">NIL</td><td>NIL</td> </tr> </table>											ALT. NO.	ALT. DATE	ZONE	ALTERATIONS		AUTHORITY	NIL	NIL	NIL	NIL		NIL	13																																																							
ALT. NO.	ALT. DATE	ZONE	ALTERATIONS		AUTHORITY																																																																									
NIL	NIL	NIL	NIL		NIL																																																																									
<table border="1"> <tr> <td>ITEM</td><td>DESCRIPTION &amp; DIMENSIONS</td><td>DRAWING SHEET NO.</td><td>DETAIL DRG</td><td>INTL. &amp; SPEC.</td><td>REMARKS</td> </tr> <tr> <td>H</td><td>ELECTRICAL</td><td>7076004S5.prt</td><td>NIL</td><td></td><td></td> </tr> <tr> <td>FILE</td><td colspan="5">\\ngs\elec\m\k\va\7076004S5.prt</td> </tr> <tr> <td>WELD LENGTH</td><td colspan="5">DIFFUSERS FOR DAY COACH FOR</td> </tr> <tr> <td>WGT</td><td colspan="5">SENEGAL RAILWAYS</td> </tr> <tr> <td>AREA</td><td colspan="5">RAIL COACH FACTORY, KAPURTHALA</td> </tr> <tr> <td>LENGTH</td><td colspan="5">INDIAN RAILWAYS STANDARD</td> </tr> <tr> <td>HEIGHT</td><td colspan="5">PL NO. NIL</td> </tr> <tr> <td>PL NO.</td><td colspan="5">DRG. NO. FD76004</td> </tr> <tr> <td>SCALE</td><td colspan="5">SEE/D&amp;O</td> </tr> <tr> <td>DATE</td><td colspan="5">23/02/2006</td> </tr> </table>													ITEM	DESCRIPTION & DIMENSIONS	DRAWING SHEET NO.	DETAIL DRG	INTL. & SPEC.	REMARKS	H	ELECTRICAL	7076004S5.prt	NIL			FILE	\\ngs\elec\m\k\va\7076004S5.prt					WELD LENGTH	DIFFUSERS FOR DAY COACH FOR					WGT	SENEGAL RAILWAYS					AREA	RAIL COACH FACTORY, KAPURTHALA					LENGTH	INDIAN RAILWAYS STANDARD					HEIGHT	PL NO. NIL					PL NO.	DRG. NO. FD76004					SCALE	SEE/D&O					DATE	23/02/2006				
ITEM	DESCRIPTION & DIMENSIONS	DRAWING SHEET NO.	DETAIL DRG	INTL. & SPEC.	REMARKS																																																																									
H	ELECTRICAL	7076004S5.prt	NIL																																																																											
FILE	\\ngs\elec\m\k\va\7076004S5.prt																																																																													
WELD LENGTH	DIFFUSERS FOR DAY COACH FOR																																																																													
WGT	SENEGAL RAILWAYS																																																																													
AREA	RAIL COACH FACTORY, KAPURTHALA																																																																													
LENGTH	INDIAN RAILWAYS STANDARD																																																																													
HEIGHT	PL NO. NIL																																																																													
PL NO.	DRG. NO. FD76004																																																																													
SCALE	SEE/D&O																																																																													
DATE	23/02/2006																																																																													
<p>DETAIL DRGS STARTING WITH "L1" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE          ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.          FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 23/02/2006</p>																																																																														

1	2	3	4	5	6	7	8	9	10	11	12	13
N.T.NO		ALT. DATE		ZONE		ALTERATIONS		MATERIAL & SPEC.		REMARKS		
NIL		NIL		NIL		NIL		NIL		NIL		



Ø5 HOLES FOR VENTILATION

Ø5 HOLES FOR VENTILATION



ENLARGED SIDE VIEW OF ITEM-8

DETAIL AT - X

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	DETAIL DRG.	MATL. & SPEC.	REMARKS
NIL	GROUP	ELECTRICAL	NIL		
WEIGHT	FILE	\\nos\elec\mvkv\dr\76004s6.prt	REVISED:		
NIL	SCALE		ISSUED		
S-AREA			COO		
NIL			DRN		
LENGTH / Ø / R			REFRANK		
NIL					
WIDTH / #HOLE					
NIL					
HEIGHT					
NIL					

DIFFUSERS FOR DAY COACH FOR		PL. NO.	NIL
SENEGAL RAILWAYS		DRG. NO	IFD76004
RAIL COACH FACTORY, KAPURTHALA		DATE	24/02/2005
INDIAN RAILWAYS STANDARD		ALT.	NIL
BY: CEE/DAD		SIZE	A2
SEC/DAD		SHEET	5/8

DETAIL DRGS STARTING WITH "L1" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE  
 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 24/02/2005

1	2	3	4	5	6	7	8	9	10	11	12	13
ALTD		ALT. DATE		ZONE		ALTERATIONS		AUTHORITY				
NIL		NIL		NIL		NIL		NIL				

DETAIL AT - X

ENLARGED SIDE VIEW OF ITEM-9

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	GROSSLY	DETAIL DRG	MAT. & SPEC.	REMARKS
NIL	H	ELECTRICAL	SUPERSEDES:	NIL		
HEIGHT	FILE	\\nos\elec\mvk\1\CON\76004s7.prt				
NIL	KG					
S. AREA						
NIL	M <sup>2</sup>					
LENGTH / DIA						
NIL	M					
WIDTH / THICK						
NIL	M					
HEIGHT						
NIL	M					

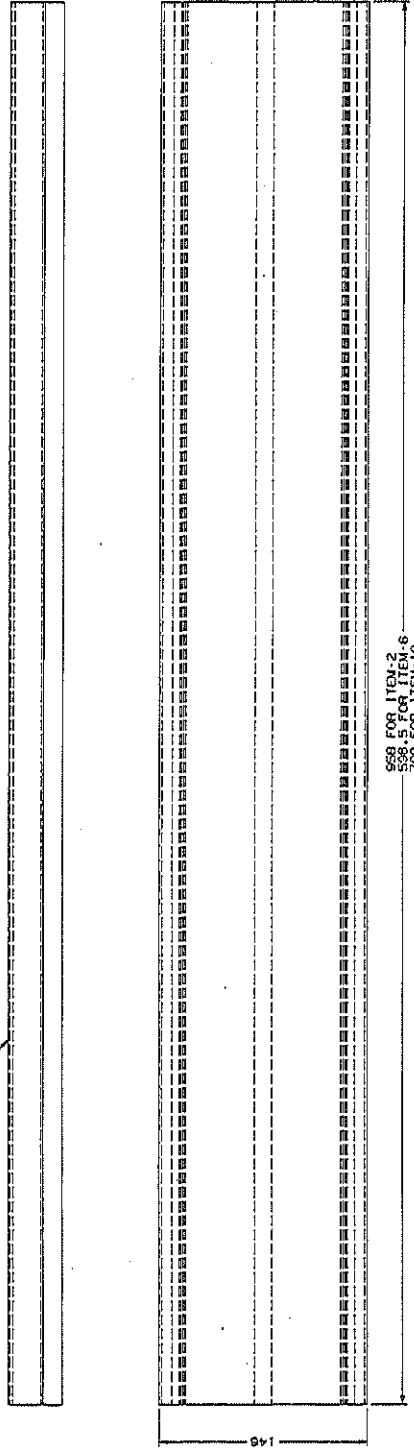
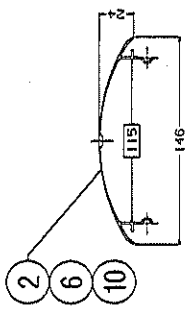
SCALE	SSS/ED	CHD	OPN	MVKV	LODR
REVISION	NIL				
PL NO.	NIL				
DRG. NO.	DRG.NO\FD76004				
DATE	24/02/2006				
DATE OF FIRST ISSUE	24/02/2006				
DATE OF FIRST ISSUE	24/02/2006				

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE  
 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.  
 FOR UNTOLERANCED DIMENSIONS REFER MDG0008

	1	2	3	4	5	6	7	8	9	10	11	12	13
	ALTERATIONS												
	NIL												
	AUTHORITY												
	NIL												
	ZONE												
	ALL												
	NIL												

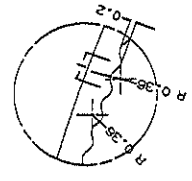
10 6 2

2 6 10



568 FOR ITEM-2  
588-5 FOR ITEM-6  
700 FOR ITEM-10

10 6 2



ENLARGED SIDE VIEW OF  
ITEM-2, 6 & 10

- #7. ITEM SHALL BE SUITABLE FOR CLAMPING WITH BRACKET FOR DIFFUSER TO PART TO ENSURE TO GOOD MAKE/BRAKE OPERATIONS.
8. DIFFUSER SHALL BE MADE FROM "LEXAN-900" POLYCARBONATE GRAINS OF SE PLASTICS ONLY AND SHALL BE TRANSPARENT WITH LIGHT TRANSMITTANCE OF >80%. PERFORMANCE IN VOICE TO BE SUBMITTED.
9. DIFFUSER SHALL BE FREE FROM SCRATCHES, AIR BUBBLES AND HOLES ETC.
4. ALL COMPONENTS SHALL BE INJECTION MOLDED/EXTRUDED ONLY.
3. ALL ITEMS TO BE FIRE RETARDANT.
2. FRAMED DIMENSIONS SHALL BE STRICTLY ADHERED TO.
1. ALL DIMENSIONS IN MM.

NOTE-

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.

FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 19/01/2005

10	DIFFUSER (L-700MM)	10	NIL	POLYCARBONATE	NIL
9	DIFFUSER (L-598.5MM)	1	NIL	POLYCARBONATE	NIL
8	DIFFUSER (L-558MM)	1	NIL	POLYCARBONATE	NIL
7	DIFFUSER (L-1257.5MM)	1	NIL	POLYCARBONATE	NIL
6	DIFFUSER (L-596.5MM)	1	NIL	POLYCARBONATE	NIL
5	DIFFUSER (L-1257.5MM)	1	NIL	POLYCARBONATE	NIL
4	DIFFUSER (L-1257.5MM)	1	NIL	POLYCARBONATE	NIL
3	DIFFUSER (L-558MM)	1	NIL	POLYCARBONATE	NIL
2	DIFFUSER (L-558MM)	4	NIL	POLYCARBONATE	NIL
1	DIFFUSER (L-568.5MM)	1	NIL	POLYCARBONATE	NIL

WELD LENGTH	NIL	DESCRIPTION & DIMENSIONS	DETAIL DRG
WEIGHT	NIL	ELECTRICAL	REMARKS
RIL	NIL	FILE	DRG NO
S. AREA	NIL	SCALE	DATE
LENGTH / DIA	NIL	SCALE	DATE
RIL	NIL	SCALE	DATE
WEIGHT / HGT	NIL	SCALE	DATE
RIL	NIL	SCALE	DATE
WEIGHT	NIL	SCALE	DATE
RIL	NIL	SCALE	DATE

DIFFUSERS FOR DAY COACH FOR		PL NO.	NIL
SENEGAL RAILWAYS		DRG NO	FD76004
RAIL COACH FACTORY, KAPURTHALA		ALT.	NIL
INDIAN RAILWAYS STANDARD.		SIZE	B7/B
DATE OF FIRST ISSUE	19/01/2005	DATE OF FIRST ISSUE	19/01/2005