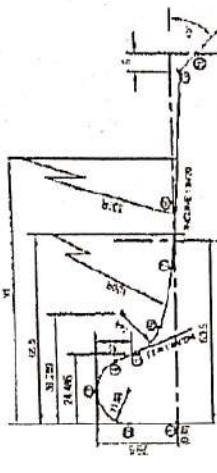
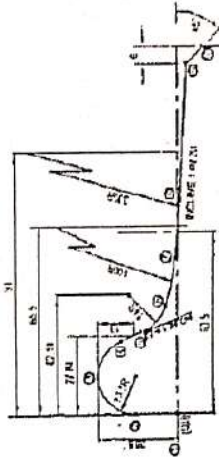


22mm THICK FLANGE



25mm THICK FLANGE

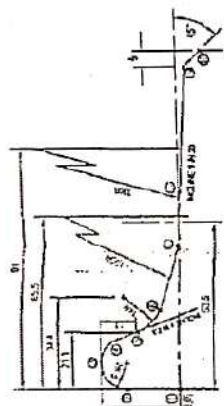


28mm THICK FLANGE

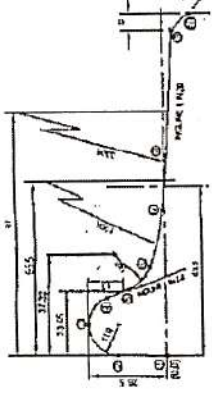
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2	0.000	18.500
3	10.000	24.000
4	10.000	27.500
5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000

NO.	X	Y
1	0.000	0.000
2	0.000	18.500
3	10.000	24.000
4	10.000	27.500
5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000

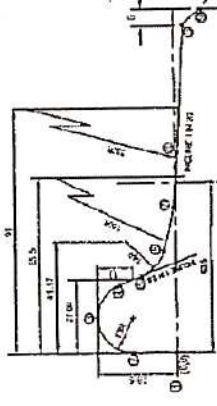
NO.	X	Y
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2	0.000	18.500
3	10.000	24.000
4	10.000	27.500
5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000



22mm THICK FLANGE



25mm THICK FLANGE

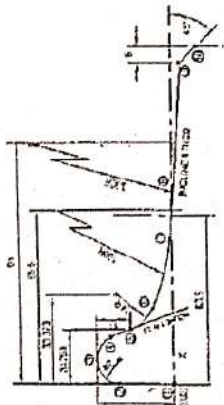


28mm THICK FLANGE

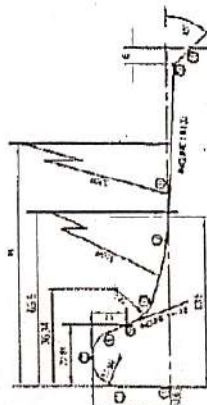
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5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000

NO.	X	Y
1	0.000	0.000
2	0.000	18.500
3	10.000	24.000
4	10.000	27.500
5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000

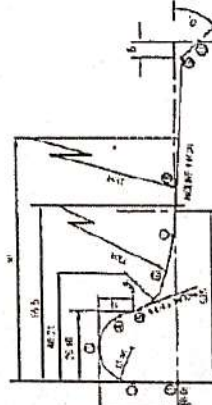
NO.	X	Y
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2	0.000	18.500
3	10.000	24.000
4	10.000	27.500
5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000



22mm THICK FLANGE



25mm THICK FLANGE



28mm THICK FLANGE

NO.	X	Y
1	0.000	0.000
2	0.000	18.500
3	10.000	24.000
4	10.000	27.500
5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000

NO.	X	Y
1	0.000	0.000
2	0.000	18.500
3	10.000	24.000
4	10.000	27.500
5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000

NO.	X	Y
1	0.000	0.000
2	0.000	18.500
3	10.000	24.000
4	10.000	27.500
5	20.000	27.500
6	20.000	24.000
7	10.000	18.500
8	0.000	0.000

FOR WORN WHEEL PROFILE (DRAWING NO. WD-89060)	
INTERMEDIATE PROFILE	
SANCTIONED BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
REVIEWED BY	DATE
APPROVED BY	DATE
B.G. JAIN	WD-89060/S-2

मानिफेस्टेशन इंजीनियर  
Sr Section Engineer  
उदरेण, वाराणसी  
N.R. Varanasi

कोचिंग डिपो अधिकारी  
Coaching Depot Officer  
उदरेण, वाराणसी  
N. R. Varanasi

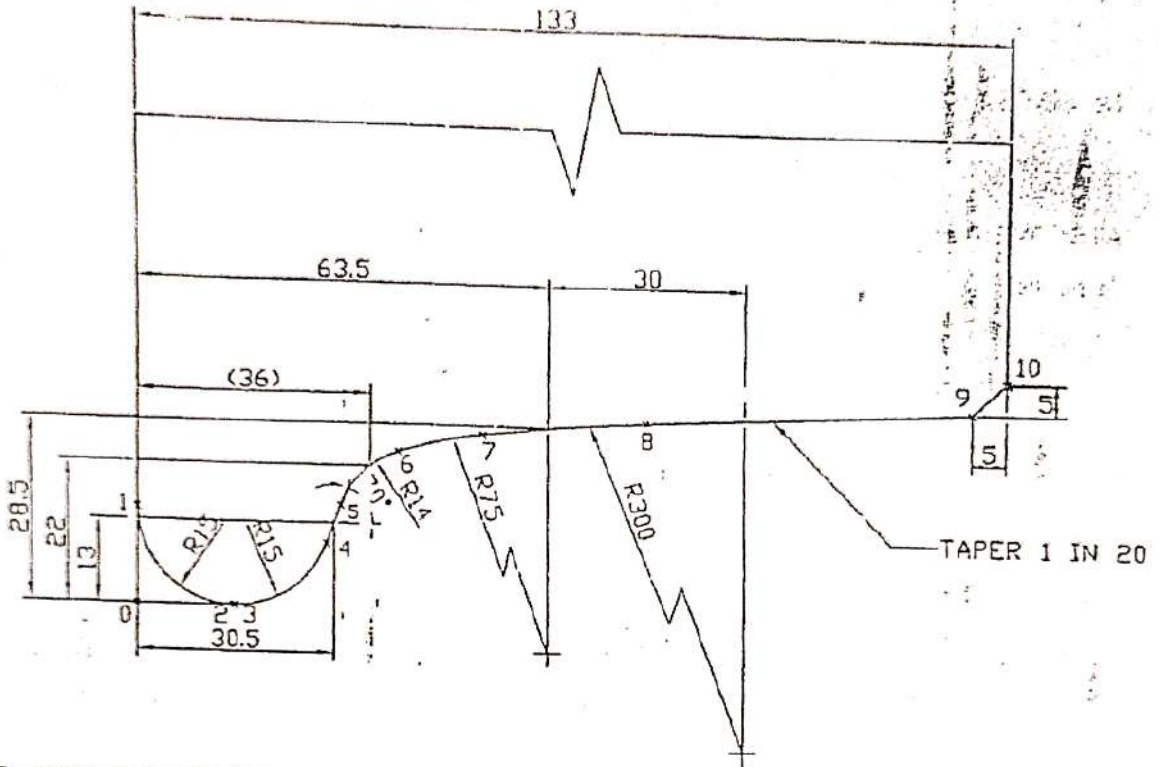
मंडल यांत्रिक अभियंता  
30 रेड, वाराणसी  
Dwl. Mech. Engineer  
N.R. Varanasi

Sr. DME/C & W/LKO.  
वरीं मंडल यांत्रिक अभियंता (कै. वै.)  
मंडल कार्यालय, उदरेण  
हजाराबाग, लखनऊ



c-164

SKVL-526,ALT-NIL



CO-ORDINATES ARE ROUNDED OFF UPTO FOUR DECIMAL PLACE.

Pt.	X	Y
0	0.0000	0.0000
1	0.0000	15.0000
2	15.0000	0.0000
3	15.2653	0.0000
4	29.3607	9.8697
5	31.5714	15.8063
6	40.3571	24.3349
7	53.5000	27.0251
8	78.5187	29.6295
9	128.0000	32.1035
10	133.0000	37.1035

NOTE: WHEEL PROFILE FOR FIELD PERFORMANCE TRIALS ON PROTOTYPE LOCOMOTIVES ONLY.  
ALL DIMENSION ARE IN mm.

Co-ordinates are extracted as per SKVL-526, Alt-nil.

Signature Not Verified

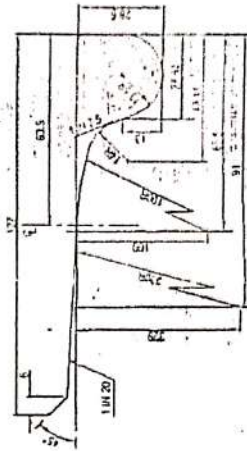
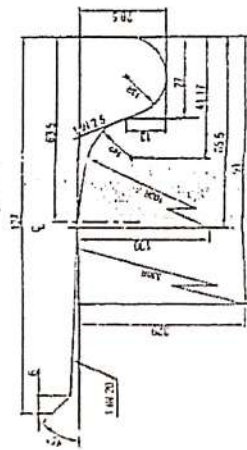
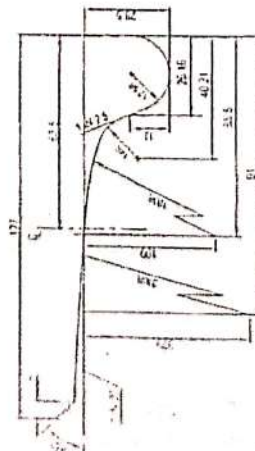
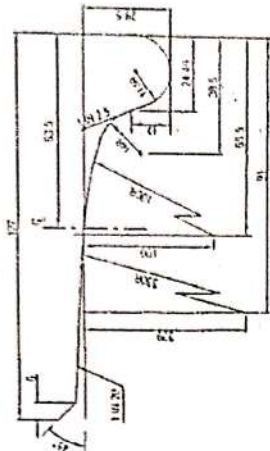
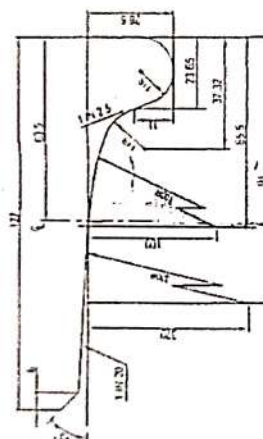
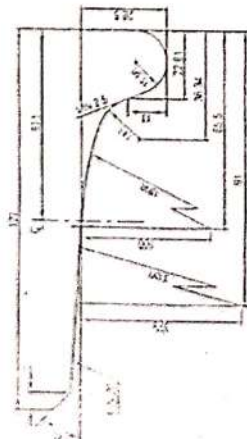
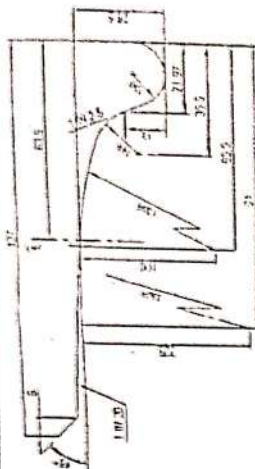
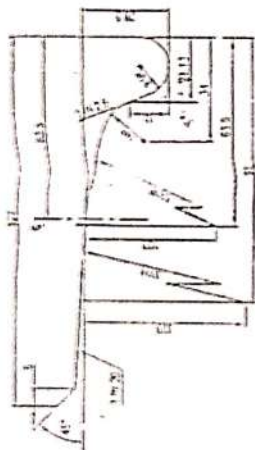
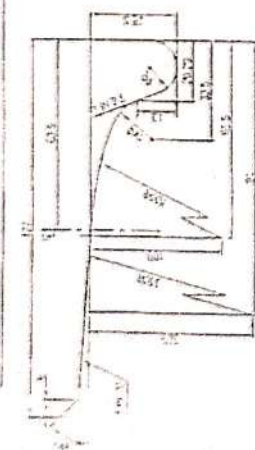
Digitally signed by SHASHI BHUSHAN KUMAR  
Date: 2024.10.10 16:30:54 IST  
Reason: IREPS-CRIS  
Location: New Delhi

मण्डल यंत्रिक आभार  
उ०रे०, वाराणसी  
Divl. Mech. Engineer  
N.R. Varanasi

कोचिंग डिपो अधिकारी  
Coaching Depot Officer  
उ०रे०, वाराणसी  
N. Rly., Varanasi

सीनियर सेक्शन इंजीनियर  
Sr. Section Engineer  
उ०रे० वाराणसी  
N.R. Varanasi





NOTE:-

1. INTERMEDIATE WHEEL PROFILES OF 25mm TO 35mm THICK FLANGE (FIG. 6 TO 9) CAN BE USED FOR THE COACHES TO RUN AT MAXIMUM PERMISSIBLE SPEED OF 110 km/h AND ABOVE.

7. All the intermediate wheel profiles (Fig. 109) can be used for the construction of other type of coaches.

[illegible]

1	550000	INTERMEDIATE WORKS PROJECTS - LESQ 71276 25.77 AND 75.0% TANK FLANGE 1 CONDENSING PHE. LESQ 70212 2.5 INCH FLANGE WOODF. TEMPERATURE OF 165 TO 212 F. DILUTED AND FIG. 1 TO FIG. 9 USED FOR ALL PROJECTS. NOTE 1 24.0% DILUTED
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5500/90 NOMINATING OFFICER'S SIGNATURE  
FIG. 1 TO FIG. 9 ACCEPTED FOR ALL PROFILES NOIE 1

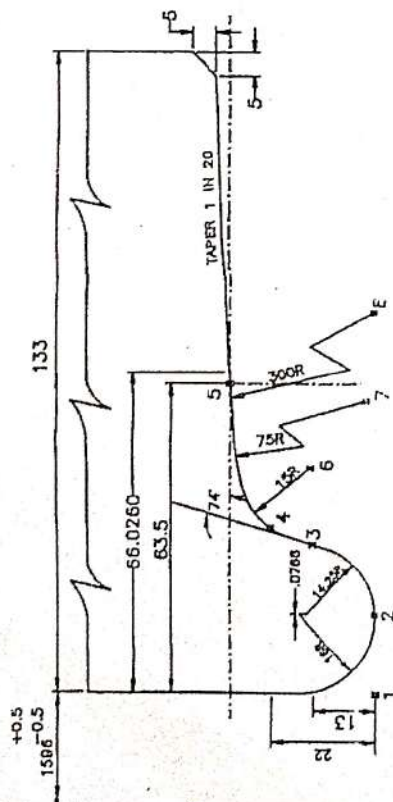
Signature Not  
Verified  
Digitally signed by  
SHASHI BHUSHAN  
KUMAR  
Date: 2024.00.10  
16:30:54 IST  
Reason: IREPS-CRIS  
Location: New Delhi

मण्डल यांत्रिक अभियंता  
उ०रे०, वाराणसी  
Divl. Mech. Engineer  
N.R. Varanasi

कोचिंग डिपो अधिकारी  
Coaching Depot Officer  
उ०रे०, वाराणसी  
N.Rly., Varanasi

सीनियर सेक्शन इंजीनियर  
Sr Section Engineer  
उ०रे० वाराणसी  
N R Varanasi





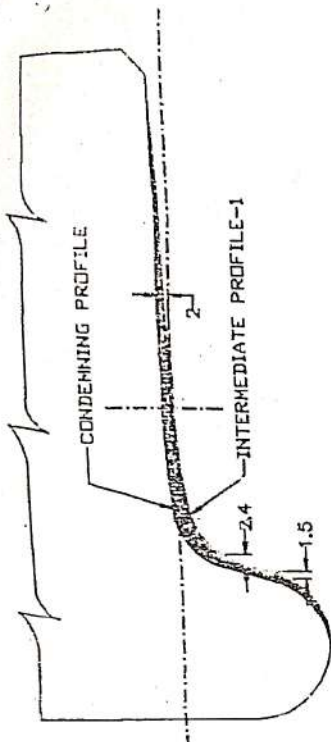
ROOT WEAR = 3.6MM (ROOT MARGIN 2.4MM)  
FLANGE WEAR = 1.50MM (FLANGE MARGIN 1.50MM)  
TREAD WEAR = 2.0MM (TREAD MARGIN 4.5MM)

CO-ORDINATES ARE GIVEN BELOW:—

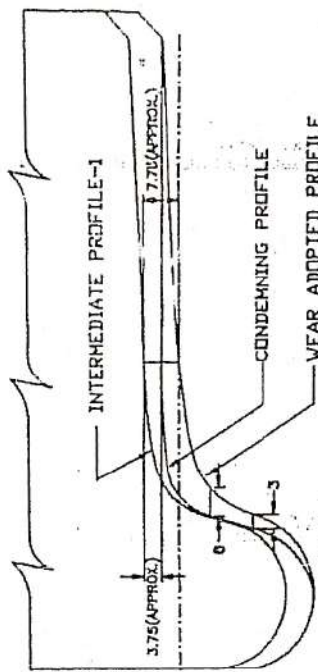
POINT	X	Y
1	00.0000	00.0000
2	16.0000	00.0000
3	30.5415	13.0000
4	33.9362	22.0000
5	63.5000	30.4997
6	46.2828	13.4817
7	80.0363	-44.9207
8	79.7651	-289.0590

**NOTE:—**

THIS PROFILE SHOULD BE ADOPTED DURING THE LAST WHEEL TURNING IF THE WHEEL DIAMETER IS LIKELY TO GO BELOW THE SPECIFIED CONDEMNING DIAMETER WITH ADOPTION OF STANDARD WEAR ADOPTED PROFILE.



DRAWING SHOWING MARGIN OF INTERMEDIATE PROFILE-1 FOR WEARING DURING SERVICE, TO REACH UP TO SPECIFIED CONDEMNING PROFILE EXCLUDING FLAT WEAR.



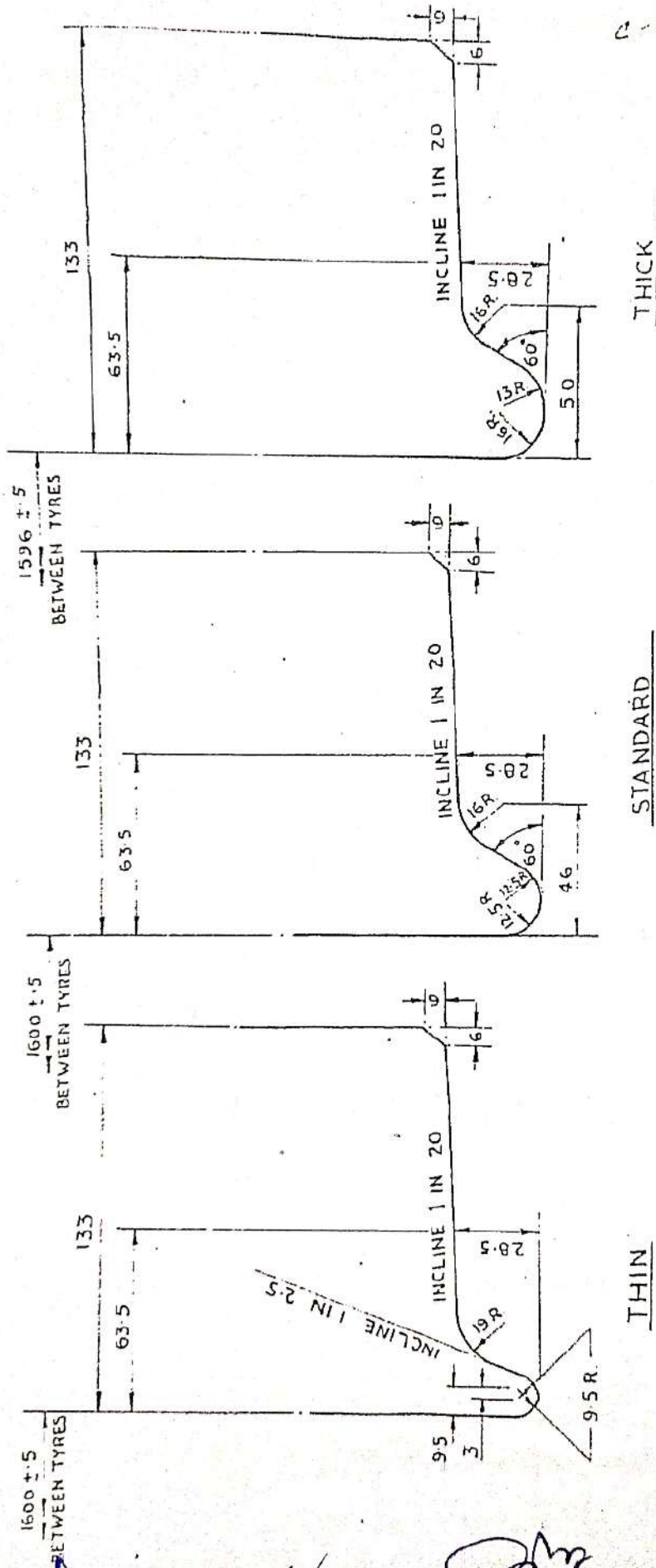
DRAWING SHOWING REDUCTION IN WHEEL DIA.= 3.7500 X 2 = 7.500MM (APPROX.)  
DURING WHEEL TURNING BY USING INTERMEDIATE PROFILE-1 OVER CONDEMNING PROFILE  
HAVING ROOT WEAR = 6MM, FLANGE WEAR = 3MM & TREAD WEAR = 4MM EXCLUDING  
FLAT WEAR.

APPLICABLE FOR B.G. DIESEL AND ELEC. LOCO.	INTERMEDIATE PROFILE-1	
SCALE 1:1	REF. SK.DL-2561	FIRST ISSUE
INDIAN RLYS. DRG. RDSO (MP)	SK.DL-4461	SUPPLEMENT
NO.		REVISION

Sr Section Engineer  
उ०रे० वाराणसी  
N.R Varanasi

मण्डल यांत्रिक अभियंता  
उ०१०, वाराणसी  
Div. Mech. Engineer  
N.R. Varanasi

कोचिंग डिपो अधिकारी  
Coaching Depot Officer  
जबरे, वाराणसी  
N. Rly., Varanasi



# FINISHED IRS TYRE PROFILES FOR 1676 mm GAUGE LOCOS

DRG.NO. C.S.L.-3040

ALT NO. 2

VALID COPY  
AS ON 24/09/2010

Signature Not Verified  
Digitally signed by SHASHI BHUSHAN KUMAR  
Date: 2024.08.16 16:30:54 IST  
Reason: IREPS-CRIS  
Location: New Delhi

मण्डल यांत्रिक अभियन्ता (कै० वैनो)  
3020, वाराणसी  
Div. Mech. Engineer  
N.R. Varanasi

कोचिंग डिपो अधिकारी  
Coaching Depot Office  
उ०रे०, वाराणसी  
पृ. 12 Varanasi

सीनियर सेक्शन इंजीनियर  
Sr Section Engineer  
उ०रे० वाराणसी  
N.R Varanasi

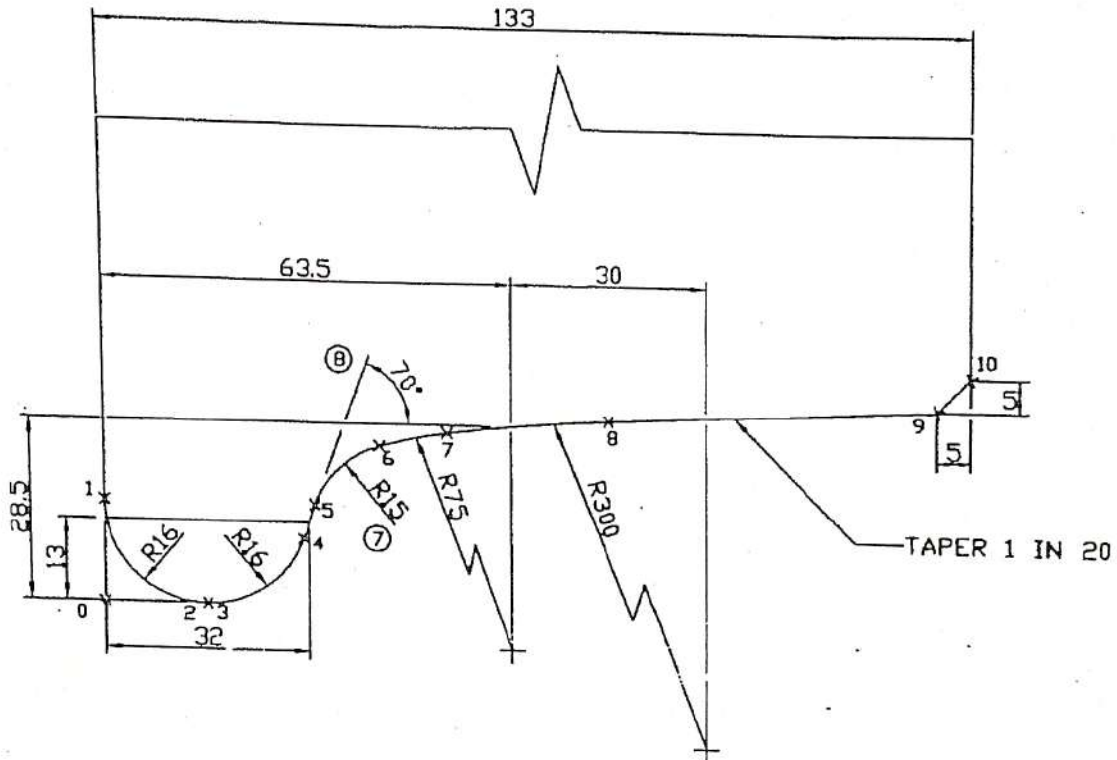


INDIAN RLYS.  
RDSO(MP)

APPLICABLE FOR  
B.G LOCOS.

WEAR ADAPTED WHEEL PROFILE  
FOR DIESEL & ELECTRIC LOCOMOTIVES

C-166



⑥

CO-ORDINATES ARE GIVEN BELOW:-

Pl.	X	Y
0	0.0000	0.0000
1	0.0000	16.0000
2	16.0000	0.0000
3	16.0651	0.0000
4	31.1001	10.5277
5	33.0371	15.8495
6	43.0407	25.1503
7	53.5000	27.3251
8	78.5187	29.6295
9	128.0000	32.1035
10	133.0000	37.1035

⑥

NOTE: GIVEN POINTS CO-ORDINATES ARE ROUNDED OFF UPTO FOUR DECIMAL PLACE.

ALL DIMENSION ARE IN mm.

VALID COPY  
AS ON 24/09/2010

⑥	-	FLANGE ANGLE 70° DECREASED	L2-980	17.11.86
⑦	-	POINT RADIUS CHANGED FROM R17 TO R25 CO-ORDINATES OF THE POINTS 5&6 REVISED ACCORDINGLY.	L2-977	24/- 87.9.85
⑥	-	DRG. REVISED & NOT. ADDED.	DA/2/84	23.8.85
⑤	-	DRG. REVISED	DA/2/83	12.9.85
④	-	DRG. RE-DRAWN	DA/2/82	3.7.85
③	-	DRG. REVISED	DA/2/81	12.9.85
②	-	DRG. REVISED	DA/2/80	12.9.85
①	-	DRG. REVISED	DA/2/79	12.9.85

SCALE 1:1	REF. SK.DL-2504	ALT. 3
DRG. NO. SK.DL-2561	ISSUED BY	SUPERSEDES
DATE	SIGN	DATE

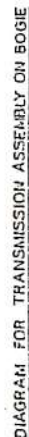
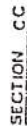
Signature Not Verified  
Digitally signed by SHASHI BHUSHAN KUMAR  
Date: 2024.10.10 16:30:54 IST  
Reason: IREPS-CRIS  
Location: New Delhi

मण्डल यांत्रिक अभियन्ता  
उ०रे०, वाराणसी  
Divl. Mech. Engineer  
N R Varanasi

Coaching Depot Officer  
उ०रे०, वाराणसी  
N Rly, Varanasi

मानद विभाग इंजीनियर  
Sr Section Engineer  
उ०रे० वाराणसी  
N R Varanasi





# INDIAN RAILWAYS

# CENTRAL ORGANISATION FOR MODERNISATION OF WORKSHOPS

PARTICULARS OF WHEEL SETS  
& TRANSMISSION ASS'LY. OF WAG1 &  
WAG4 LOOS -- 1676 GAUGE

NOT TO SCALE  
DIMENSIONS  
IN MM

DRAWING NUMBER  
CDFM0W/UFWL/BG/2007

6 JO &amp; L33:45

Digital signed by  
SHASHI BHUSHAN  
KUMAR  
Date: 2024.10.10  
16:30:54 IST  
Reason: IREPS-CRIS  
Location: New Delhi

मण्डल यांत्रिक अभियन्ता  
उ०रे०, वाराणसी  
Divl. Mech. Engineer  
N.R. Varanasi

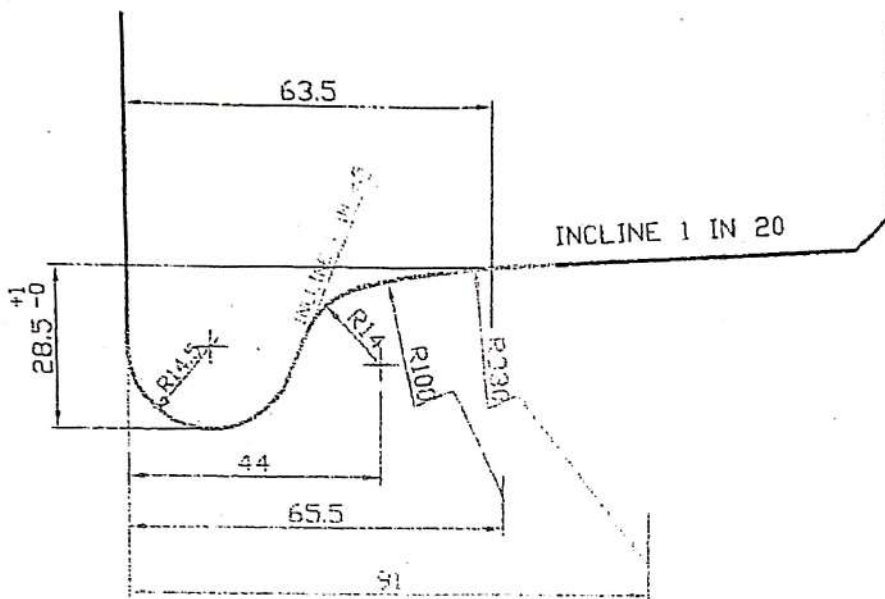
कोचिंग डिपो अधिकारी  
Coaching Depot Officer  
पृष्ठ 7 का 12  
N. Rly., Varanasi

सीनियर सेक्शन इंजीनियर  
Sr Section Engineer  
उ०रे० वाराणसी  
N R Varanasi









<b>INDIAN RAILWAYS</b> CENTRAL ORGANISATION FOR MODERNISATION OF WORKSHOPS		NAME AND DESIGNATION	SIGNATURE AND DATE
		DRAWN	H.L. VINDCHA SSE/DRG 26/04/07
		CHECKED	ARVIND SHARMA SSE/MECH. 26/03/07
		APPROVED	H.K. GARG Dy CHE-II 28/03/07
NOT TO SCALE	WORN WHEEL PROFILE FOR CARRIAGE & WAGON STOCK -1676 GAUGE		DRAWING NUMBER COFMDOW/UFWL/BG/2007 SHEET 5 OF 7
DIMENSIONS IN mm			

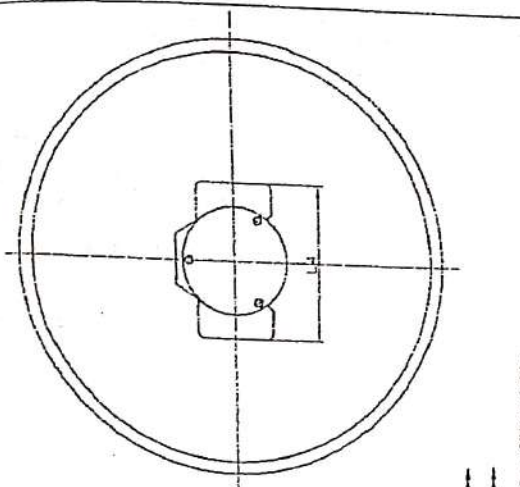
Signature Not Verified  
 Digitally signed by SHASHI BHUSHAN KUMAR  
 Date: 2024.10.08 16:30:54 IST  
 Reason: IRE PS-CRIS  
 Location: New Delhi

मण्डल यांत्रिक अभियन्ता  
 उ०रे०, वाराणसी  
 Divl. Mech. Engineer  
 N.R. Varanasi

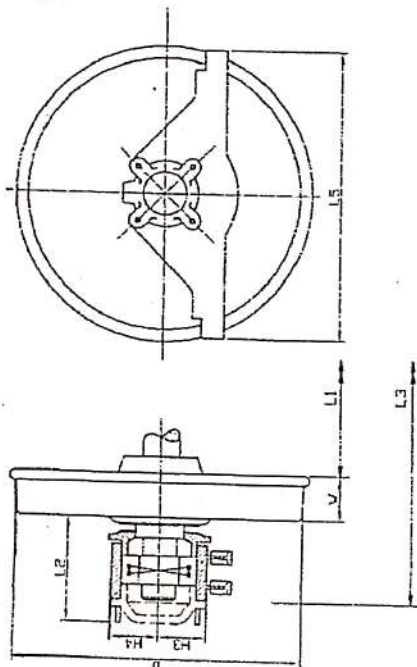
कोचिंग डिपो अधिकारी  
 Coaching Depot Office  
 उ०रे०, वाराणसी  
 N. Rly., Varanasi

संरचनात्मक अभियन्ता  
 उ०रे० वाराणसी  
 Sr Section Engineer  
 उ०रे० वाराणसी  
 N.R. Varanasi





EMUs & GOODS STOCK



COACHING STOCK

TYPE OF STOCK	D I M E N S I O N S										
	L1	L2	L3	L4	L5	H1	H2	H3	H4	V	D
COACHING	MAX 1600 <sup>±20</sup>	425	2547	300	1020	137	175	255	172	130 <sup>±2</sup> DR	1090
	MIN FOR EMUs & 1600 <sup>±2</sup>	360	2286	304	920	130	145	188	148		780
GOODS	MAX 1600 <sup>±2</sup>	423	2597	410	-	200	200	-	-	128 <sup>±4</sup> DR	1090
	MIN FOR OTHER STOCK	299	1964	293	-	120	150	-	-		813

INDIAN RAILWAYS CENTRAL ORGANISATION FOR MODERNISATION OF WORKSHOPS		SIGNATURE AND DATE	21/03/07
		NAME AND DESIGNATION	MLV/MECH/SSC/SSC
		DATE	21/03/07
		DESIGNED BY	21/03/07
		CHECKED	21/03/07
		APPROVED	21/03/07
NOT TO SCALE		DRAWING NUMBER	
DIMENSIONS IN mm		COFMDW/UFVL/BG/2007	
		SHEET 3 OF 7	

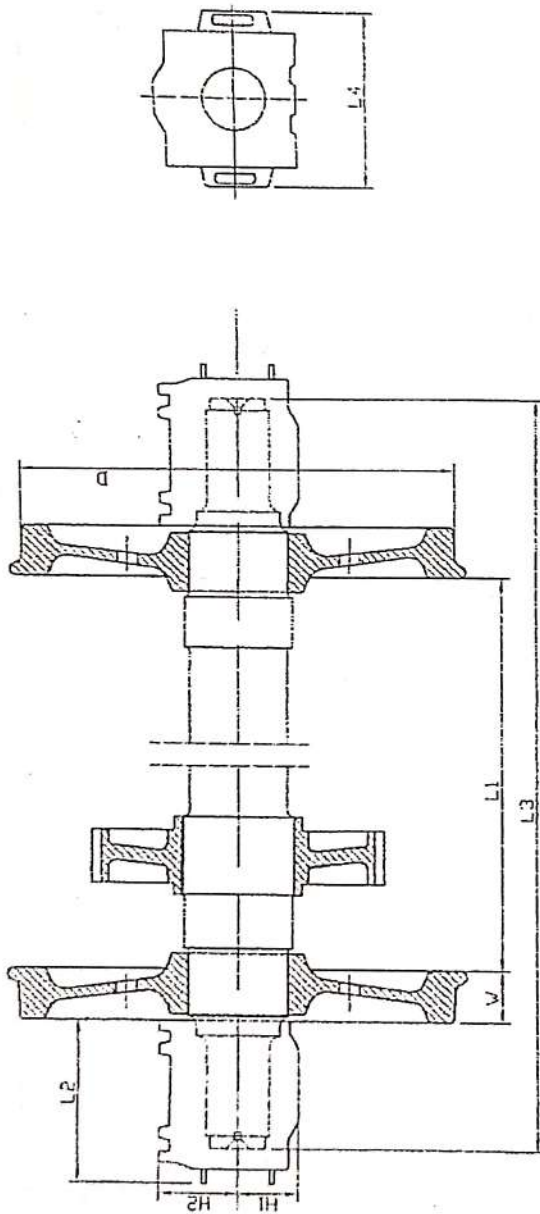
5635

Signature Not Verified  
Sr. DME/G & W /LKO.  
Digitally signed by SHASHI BHUSHAN KUMAR  
Date: 2024.10.10 16:30:54 IST  
Reason: IREPS-CRIS  
Location: New Delhi

कोचिंग डिपो अधिकारी  
Coaching Depot Office:  
उ०रे०, वाराणसी  
Divl. Mech. Engineer  
N.R. Varanasi

सीनियर सेक्शन इंजीनियर  
Sr Section Engineer  
उ०रे० वाराणसी  
N.R. Varanasi





D I M E N S I O N S									
	L1	L2	L3	L4	H1	H2	W	D	
MAX.	1500 <sup>+0.5</sup> <sub>-2</sub>	418	2604	404	355	215	133 <sup>+15</sup>	1220	
MIN.	1596 <sup>+0.5</sup>	396	1889	381	152	162		889	

INDIAN RAILWAYS		SIGNATURE AND DATE	
CENTRAL ORGANISATION FOR MODERNISATION OF WORKSHOPS		DESIGNED BY	28/10/20
		CHECKED BY	28/10/20
		APPROVED BY	28/10/20
DRAWING NUMBER		COP NOV/UF WL/BG/2007	
PARTICULARS OF WHEEL SETS OF DIESEL & ELECTRIC LOCUS -1676 GAUGE		SHEET 2 OF 7	

5634

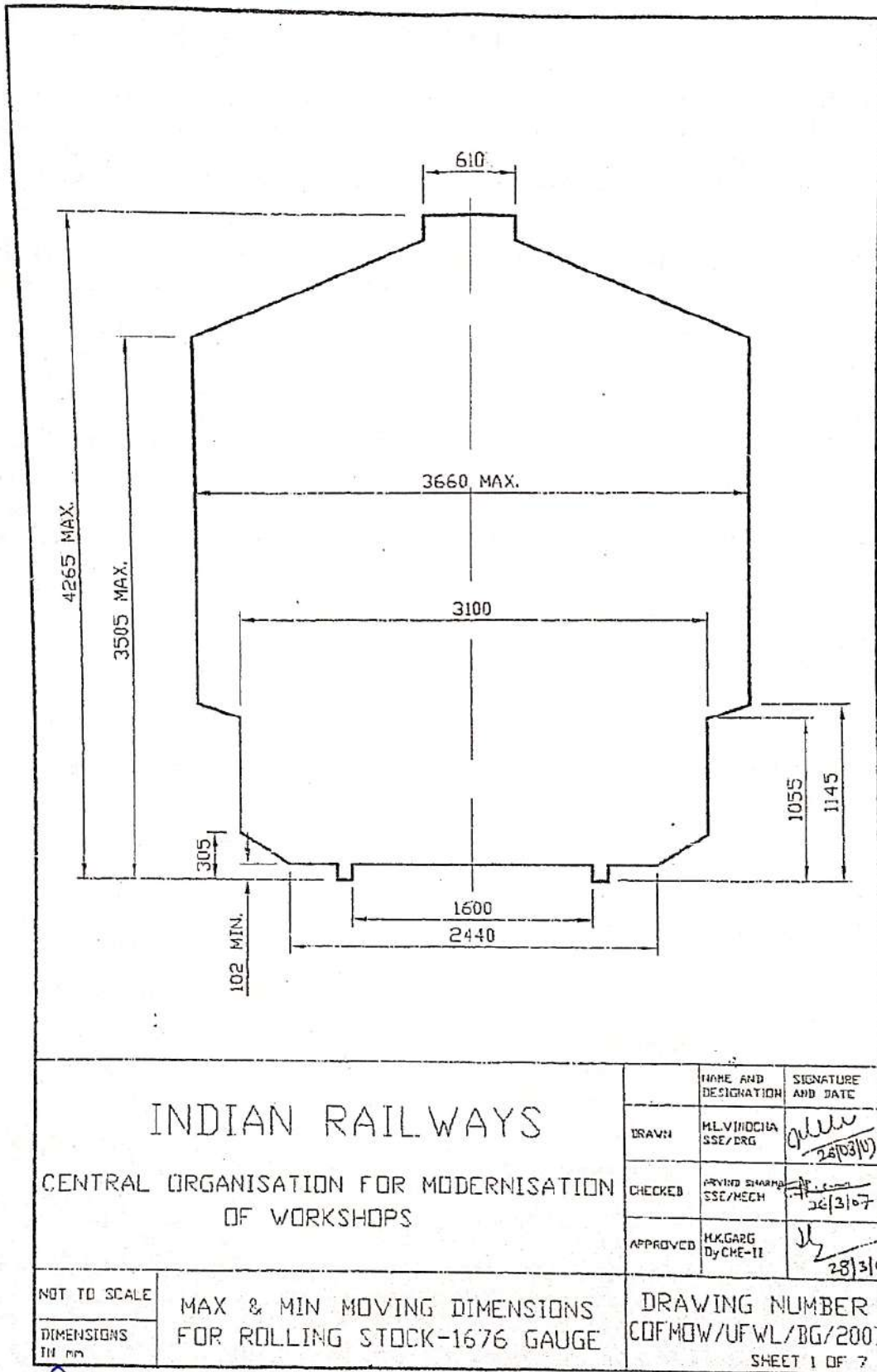
Signature Not Verified  
Digitally signed by Sr. DME/C & W, LKO.  
SHASHI BHUSHAN KUMAR  
Date: 2024.10.10 16:30:54 IST  
Reason: IRE PS-CRIS  
Location: New Delhi

मण्डल यांत्रिक अभियन्ता  
उ०रे०, वाराणसी  
Divl. Mech. Engineer  
N R Varanasi

कोचिंग डिपो अधिकारी  
Coaching Depot Office  
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N R Varanasi

सीनियर सेक्शन इंजीनियर  
Sr Section Engineer  
उ०रे० वाराणसी  
N.R Varanasi





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