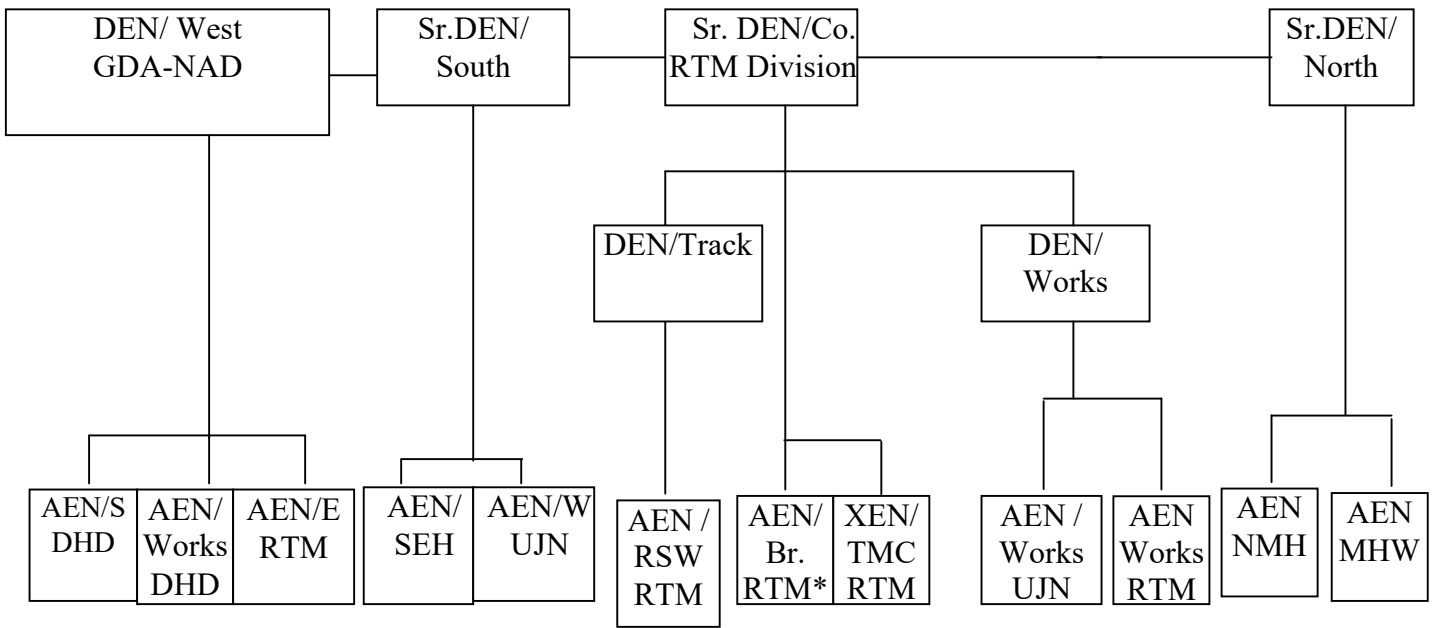


# ENGINEERING

## 1. ORGANISATION



*\*Controlled by CBE*

**WESTERN RAILWAY :: RATLAM DIVISION**

Controlling Sr. DEN's and DEN's	ETKM controllin g Sr.DEN's & DEN's	ADEN with HQ	ETKM of AEN	CPWI with HQ	ETKM of CPWI	CLOW with HQ	ITKM for CLOW	ETKM for CLOW
Sr.DEN (WEST) RTM	<b>3332.25</b>	DHD (Works)	<b>911.33</b>	-		DHD-(I)	750.17	600.13
						DHD-(II)	389	311.2
		DHD (S)	<b>922.62</b>	PPD	200.74	DHD-III	400.24	320.19
				DHD (S)	199.29			
				DHD (N)	202.4			
		RTM (E)	<b>1498.3</b>	MGN	216.1	MGN	542.58	434.07
				RTM (S)	232.48			
				RTM (N)	206.07	NAD	330.74	264.59
				NAD	144.99			
		Sr.DEN (S) RTM	<b>2202.67</b>	UJN (West)	<b>1218.65</b>	UJN (S)	193.94	UJN -I
MKC-DWX	50.1							
UJN (N)	208.03							
UJN (E)	154.11							
SEH	<b>984.02</b>			BCH	153.58	SJP	581.56	465.25
				SJP	175.91			
				SEH	189.28			
Sr.DEN (N) RTM	<b>2149.9</b>	DADN	<b>896.55</b>	BNG	134.97	DADN	578.38	462.7
				DADN	170.32			
				KNW	128.56			
		NMH	<b>1253.35</b>	NMH	361.09	NMH	518.51	414.81
				JAO	179.31	COR	372.67	298.14
DEN (Works) RTM	<b>1623.99</b>	RTM (Works)	<b>693.68</b>	0	0	RTM (I)	350.93	280.75
				0	0	RTM(II)	516.17	412.93
		UJN (Works)	<b>930.31</b>	0	0	UJN (WW)	601.44	481.15
				0	0	IND	561.45	449.16
<b>Sr. DEN(Co) TOTAL</b>	<b>9308.81</b>		<b>9308.81</b>		<b>3501.27</b>		<b>7259.43</b>	<b>5807.5</b>

**SALIENT FEATURES OF RATLAM DIVISION - ENGINEERING DEPARTMENT As on 01.04.2021**

**1. (a) LENGTH OF TRACK (Broad Gauge)**

Section	Route	Route Kms.		Track Kms.	
		Single Line	Double Line	Main line	With loop
GDA – NAD	A	0	224.91	449.82	643.94
NAD-KTT line	A	0	2.26	4.52	4.52
NAD – BIH	D Spl.	0	226.15	452.26	538.97
IND-DWX-UJN	D	64.31	15.32	94.95	138.649
DET-CNA (AII-end)	D Spl.	0.869	0	0.869	0.869
MKC-DWX	E	36.04	0	36.04	38.9
NBH 'C'-RTM	D Spl.	161.429	0	161.429	213.35
CNA-NBH 'C'	D Spl.	0	36.862	73.724	89.01
CNA By Pass	D Spl.	1.4	0	1.4	1.4
BEC-GSSD (UDZ-end)	D Spl.	1.2	0	1.2	2.02
GQL-COR (KTT-end)	D Spl.	4.09	0	4.09	4.09
Q-track	D Spl.	4.03	0	4.03	4.03
RTM-FTD-IND	D	115.07	3.58	122.23	140.93
IND-RAU	D	0	11.46	22.92	39.78
RAU-DADN	D	9.51	0	9.51	12.51
RAU-TIHI	D	8.772	0	8.772	10.254
KBCB-MTA (New line)	D	8.4	0	8.4	8.4
SWD-NKR-KBCB	D	48.04	0	48.04	55.83
FTD-UJN include tringle	D	21.98	0	21.98	23.588
<b>TOTAL</b>		<b>485.14</b>	<b>520.542</b>	<b>1526.184</b>	<b>1971.04</b>
			<b>1005.682</b>	<b>1526.184</b>	<b>1971.04</b>

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**1.(b) LENGTH OF TRACK (Meter Gauge)**

Section	Route	Route Kms.		Track Kms.	Track Kms.
		Single Line	Double Line	Main line	with loop
DADN-OM	Q	58.34	0	58.34	65.34
<b>TOTAL</b>	Q	<b>58.34</b>	<b>0</b>	<b>58.34</b>	<b>65.34</b>

**Under GC**

Section	Route	Route Kms.		Track Kms.	Track Kms.
		Single Line	Double Line	Main line	With loop
OM-SWD	Under GC	5.4	0	5.4	6.6
KBCB -KNW	Under GC	4.48	0	4.48	4.48
<b>Total</b>		<b>9.88</b>	<b>0</b>	<b>9.88</b>	<b>11.08</b>

**Total Route Km and Track Km Main line**

Gauge	Route Km	Track Km without loop	Track Kms. With loop
<b>BG</b>	1005.682	1526.184	<b>1971.04</b>
<b>MG</b>	58.34	58.34	<b>65.34</b>
<b>Under GC</b>	9.88	9.88	<b>11.08</b>
<b>Grand Total</b>	<b>1073.902</b>	<b>1594.404</b>	<b>2047.46</b>

**2. NO. OF STATION ON DIVISION**

Category of stations	No. of Stations
NSG-2	2
NSG-3	2
NSG-4	5
NSG-5	16
NSG-6	73
HG-2	2
HG-3	18
<b>Total</b>	<b>118</b>

**3.(a)NO. OF BRIDGES (Broad Gauge)**

Section	Important Br.	Major Br.	Minor Br.	Total Bridges
GDA – RTM	8	50	533	591
RTM - NAD	2	9	71	82
NAD – UJN	4	10	69	83
UJN – BIH	6	28	323	357
IND-DWX-UJN	1	11	130	142
CNA – RTM	4	54	313	371
MKC-DWX	3	5	44	52
RTM-FTD-DADN	1	27	189	217
RAU-TIHI	0	3	14	17
NKR-KBCB	0	10	114	124
KBCB-MTA	0	2	7	9
FTD – UJN	0	4	26	30
<b>TOTAL</b>	<b>29</b>	<b>213</b>	<b>1833</b>	<b>2075</b>

**3.(b) NO. OF BRIDGES (Meter Gauge)**

Section	Important Br.	Major Br.	Minor Br.	Total Bridges
DADN – OM	5	11	202	218
<b>Under G.C.OM-NKR</b>	<b>0</b>	<b>1</b>	<b>36</b>	<b>37</b>
KBCB-KNW	0	1	8	9
<b>RTM Division (BG+MG)</b>	<b>34</b>	<b>224</b>	<b>2035</b>	<b>2293</b>

**4. No. OF LEVEL CROSSINGS (01.04.2021)**

Section	Line	Manned					Total Manned	Interlocked (Manned)	UM C' Class
		Spl. Class	A' Class	B1' Class	B2' Class	C' Class			
GDA – RTM	BG	9	1	1	0	8	19	14	0
RTM – NAD	BG	3	1	0	0	10	14	6	0
NAD – UJN	BG	2	2	1	0	14	19	7	0
UJN - BPL	BG	5	3	2	1	31	42	21	0
IND-DWX-UJN	BG	2	2	1	2	15	22	14	0
DWX-MKC	BG	0	1	0	0	4	5	2	0
AII-CNA	BG	0	0	0	0	2	2	1	0
KTT-CNA	BG	0	0	0	0	0	0	0	0
CNA-RTM	BG	3	4	2	1	33	43	32	0
UDZ-BEC	BG	0	0	0	0	0	0	0	0
RTM-KNW	BG	0	5	1	0	40	46	17	0
RAU-TIHI-DHD	BG	0	0	0	0	2	2	0	0
FTD-UJN	BG	0	1	0	0	2	3	1	0
<b>Total BG</b>	<b>BG</b>	<b>24</b>	<b>20</b>	<b>8</b>	<b>4</b>	<b>161</b>	<b>217</b>	<b>115</b>	<b>0</b>
DADN-NKR	MG	0	3	1	0	10	14	6	0
<b>MG section Closed</b>		0	0	0	0	6	6	2	0
<b>TOTAL L.C.</b>		<b>24</b>	<b>23</b>	<b>9</b>	<b>4</b>	<b>177</b>	<b>237</b>	<b>123</b>	<b>0</b>

**LCs on Private Siding Lines = 26 Nos.**

Section	Pvt Siding	M	UM	Total
RTM-NAD	Grasim Siding	3	0	3
IDU	Bank Press Note Siding	1	0	1
CNA-RTM	BCW Cement Siding	1	0	1
CNA-RTM	Aditya Cement Siding	1	3	4
CNA-RTM	Wonder Cement Siding	2	3	5
CNA-RTM	J.K. Cement Siding	1	0	1
CNA-RTM	Vikram Cement Siding	3	6	9
RTM-KNW	NTPC Siding	2	0	2
<b>Total</b>		<b>14</b>	<b>12</b>	<b>26</b>

**5. A) TRACK STRUCTURE OF THE DIVISION (12.02.21)**

SECTION	Total	SLEEPERS				RAILS PANNEL		
	Length	PRC	ST	CST-9	W	LWR	SWR	FREE
<b>B.G.</b>								
GDA – RTM UP	183.56	183.56	0	0	0	175.36	8.2	0
%		<b>100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>95.53</b>	<b>4.47</b>	
GDA – RTM DN	183.56	183.56	0	0	0	176.57	6.99	0
%		<b>100</b>				<b>96.19</b>	<b>3.81</b>	
RTM – NAD UP	41.35	41.35	0	0	0	37.92	3.43	0
%		<b>100</b>				<b>91.70</b>	<b>8.30</b>	
RTM – NAD DN	41.35	41.35	0	0	0	37.42	3.93	0
%		<b>100</b>				<b>90.50</b>	<b>9.50</b>	
NAD-KTT line UP	2.26	2.26	0	0	0	2.26	0	0
%		<b>100</b>				<b>100.00</b>	<b>0.00</b>	
NAD-KTT line DN	2.26	2.26	0	0	0	2.26	0	0
%		<b>100</b>				<b>100.00</b>	<b>0.00</b>	
NAD – UJN UP	54.98	54.98	0	0	0	50.17	4.81	0
%		<b>100</b>				<b>91.25</b>	<b>8.75</b>	
NAD – UJN DN	54.98	54.98	0	0	0	50.22	4.76	0
%		<b>100</b>				<b>91.34</b>	<b>8.66</b>	
UJN – BIH UP	171.17	171.17	0	0	0	159.48	11.69	0
%		<b>100</b>				<b>93.17</b>	<b>6.83</b>	
UJN – BIH DN	171.17	171.17	0	0	0	160.9	10.27	0
%		<b>100</b>				<b>94.00</b>	<b>6.00</b>	
IND-DWX-UJN DN	79.63	79.63	0	0	0	70.46	9.17	0
%		<b>100</b>				<b>88.48</b>	<b>11.52</b>	
UJNC-KDHA UP	15.32	15.32	0	0	0	14.28	1.04	0
%		<b>100</b>				<b>93.21</b>	<b>6.79</b>	
CNA – RTM UP	198.29	198.29	0	0	0	180.4	17.89	0
%		<b>100</b>				<b>90.98</b>	<b>9.02</b>	
CNA-NBH 'C' DN	36.86	36.86	0	0	0	30.34	6.52	0
%		<b>100</b>				<b>82.31</b>	<b>17.69</b>	
MKC-DWX	36.04	36.04	0	0	0	33.09	2.95	0
%		<b>100</b>				<b>91.81</b>	<b>8.19</b>	
BEC-GSSD(UDZ End)	1.2	1.2	0	0	0	1.2	0	0
%		<b>100</b>				<b>100.00</b>	<b>0.00</b>	
DET-CNA(AII-End)	1.4	1.4	0	0	0	1.4	0	0
%		<b>100</b>				<b>100.00</b>	<b>0.00</b>	
GQL-COR(KTT End)	4.09	4.09	0	0	0	4.09	0	0
%		<b>100</b>				<b>100.00</b>	<b>0.00</b>	
Q-Track	4.03	4.03	0	0	0	4.03	0	0
%		<b>100</b>				<b>100.00</b>	<b>0.00</b>	
RTM-FTD-IND	118.65	118.65	0	0	0	112.8	5.85	0
%		<b>100</b>				<b>95.07</b>	<b>4.93</b>	
LMNR-IND DN	3.58	3.58	0	0	0	3	0.58	0
%		<b>100</b>				<b>83.80</b>	<b>16.20</b>	
IND-RAU UP	11.46	11.46	0	0	0	10.46	1	0
%		<b>100</b>				<b>91.27</b>	<b>8.73</b>	
IND-RAU DN	11.46	11.46	0	0	0	10.98	0.48	0
%		<b>100</b>				<b>95.81</b>	<b>4.19</b>	
RAU-DADN SL	9.51	9.51	0	0	0	8.55	0.95	0
%		<b>100</b>				<b>89.91</b>	<b>9.99</b>	
RAU-TIHI	8.77	8.77	0	0	0	7.8	0.97	0
%		<b>100</b>				<b>88.94</b>	<b>11.06</b>	
NKR-KBCB	36.79	36.79	0	0	0	35.4	1.39	0
%		<b>100</b>				<b>96.22</b>	<b>3.78</b>	
KBCB-Mathela	8.4	8.4	0	0	0	8.21	0.19	0
%		<b>100</b>				<b>97.74</b>	<b>2.26</b>	
FTD-UJN	21.98	21.98	0	0	0	21.49	0.49	0
%		<b>100</b>				<b>97.77</b>	<b>2.23</b>	
Grand TOTAL	<b>1514.1</b>	<b>1514.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1410.54</b>	<b>103.55</b>	<b>0</b>
%		<b>100</b>				<b>93.16</b>	<b>6.84</b>	
<b>MG</b>								
DADN-OM	58.34	27.19	10.5	20.65	0	0	53.14	5.2
%		<b>46.61</b>	<b>18.00</b>	<b>35.40</b>	<b>0.00</b>	<b>0.00</b>	<b>91.09</b>	<b>8.91</b>
OM-NKR	<b>16.68</b>	<b>Under G.C.</b>						
KBCB-KNW	<b>4.48</b>							

5. B) TRACK STRUCTURE OF THE DIVISION (12.02.2021)

SECTION	Total Length	RAILS					
		60 KG	52 KG	90 R	75 R	60 R	50 R
GDA – RTM UP	183.56	183.56	0	0	0	0	0
%		100					
GDA – RTM DN	183.56	183.56	0	0	0	0	0
%		100					
RTM – NAD UP	41.35	41.35	0	0	0	0	0
%		100					
RTM – NAD DN	41.35	41.35	0	0	0	0	0
%		100					
NAD-KTT line UP	2.26	2.26	0	0	0	0	0
%		100					
NAD-KTT line DN	2.26	2.26	0	0	0	0	0
%		100					
NAD – UJN UP	54.98	36.83	18.15	0	0	0	0
%		66.99	33.01				
NAD – UJN DN	54.98	54.62	0.36	0	0	0	0
%		99.35	0.65				
UJN – BIH UP	171.17	169.73	1.44	0	0	0	0
%		99.16	0.84				
UJN – BIH DN	171.17	165.38	5.79	0	0	0	0
%		96.62	3.38				
IND-DWX-UJN DN	79.63	64.09	14.73	0	0	0	0
%		80.48	18.50				
UJNC-KDHA UP	15.32	15.32	0	0	0	0	0
%		100.00	0.00				
CNA – RTM UP	198.29	54.98	143.31	0	0	0	0
%		27.73	72.27				
CNA-NBH 'C' DN	36.86	29.15	7.71	0	0	0	0
%		79.08	20.92				
MKC-DWX	36.04	24.78	11.26	0	0	0	0
%		68.76	31.24				
BEC-GSSD(UDZ End)	1.2	0	1.2	0	0	0	0
%		0.00	100.00				
DET-CNA(AII-End)	1.4	0	1.4	0	0	0	0
%		0.00	100.00				
GQL-COR(KTT End)	4.09	0.71	3.38	0	0	0	0
%		17.36	82.64				
Q-Track	4.03	3.98	0.05				
%		98.76	1.24				
RTM-FTD-IND	118.65	49.26	69.39	0	0	0	0
%		41.52	58.48				
IND-RAU UP	11.46	10.65	0.81	0	0	0	0
%		92.93	7.07				
IND-RAU DN	11.46	11.01	0.45	0	0	0	0
%		96.07	3.93				
RAU-DADN SL	9.51	9.51	0	0	0	0	0
%		100.00	0.00				
RAU-TIHI	8.77	8.77	0	0	0	0	0
%		100.00	0.00				
NKR-KBCB	36.79	36.79	0	0	0	0	0
%		100.00	0.00				
KBCB-Mathela	8.4	8.35	0.05	0	0	0	0
%		99.40	0.60				
FTD-UJN	21.98	21.98	0	0	0	0	0
%		100.00	0.00				
<b>MG</b>							
DADN-OM	58.34	0	16.3	42.04	0	0	0
%		0.00	27.94	72.06			
OM-NKR	16.68	Closed GC					
KBCB-KNW	4.48						

**STATEMENT SHOWING THE DENSITY OF TRAFFIC IN GMT ON BG/MG  
SECTION FOR THE YEAR ENDING 31.03.2020**

Name of section	Route	Route Km. of the sec.	GMT of the Section		
			UP line	DN line	SL line
<b>(A) BROAD GAUGE ROUTE</b>					
GODHRA-RATLAM (471.07 - 654.62)	A	185.27	41.63	46.71	-
RATLAM - NAGDA (654.62 - 695.97)	A	41.35	40.14	43.77	-
NAGDA - UJJAIN (0.00 - 54.99)	D Spl.	54.99	19.68	20.47	-
UJJAIN -BAIRAGARH (54.99 - 226.150)	D Spl.	171.16	18.94	16.84	-
UJJAIN - INDORE (0.73 - 79.23)	D	78.5	8.95	8.2	17.15
DEWAS- MAKSI (0.00-36.03)	E	36.03	3.18	3.29	6.47
CHANDERIYA- NIMACH (152.90/172.90 - 241.66)	D Spl.	68.76	9.26	14.98	24.24
NIMACH-RATLAM (241.66 - 374.58)	D Spl.	132.92	8.02	10.94	18.96
RATLAM- FATEHABAD (374.58-453.82)	D	79.24	3.04	2.35	5.39
FATEHABAD- INDORE (453.82- 493.23)	D	39.41	2.93	2.23	5.16
INDORE-DADN (493.23-514.69)	D	21.46	3.12	3.04	6.16
UJJAIN - FATEHABAD CHANDRAWATI GANJ (0.00 - 22.96)	D	22.96	New line		
<b>(B) METER GAUGE ROUTE</b>					
DADN - SANAWAD (514.20 - 630.40)	Q	63.74	0.28	0.28	0.56