BOISAR
KM:102.86
MUMBAI
VANGAON STATION /SURAT
EX.CH:@KM 111/16-18
PROP.CH@KM:51/790
KM.:105.00
KM.:106.00
KM.:107.00
KM.:108.00
KM.:109.00
OVER RUN LINE 120m
FUTURE LAND BOUNDARY
RESIDENTIL AREA
Y-Connection
Towards Mumbai
ADDITIONAL 2 H.A OF LAND REQUIREMENT FOR SMOOTH CURVATURE
OVER RUN LINE-120
PROPOSED ROW
TO PROPOSED ROR/VADHAVAN PORT
TW SHED 30x10m
TOWER WAGON-150 M
4 KM
3 KM
2 KM
1 KM
0 KM
5 KM
33.50M
15.70M
45 m x 20 m
VPPL HOLDING YARD
27 m x 10 m
LOCO SHED 30x10m
LOCO HOLDING LINE-150 M
EXISTING WR DN LINE
EXISTING WR UP LINE
MRVC DN LOCAL LINE
MRVC UP LOCAL LINE
MRVC LAND BOUNDARY
DFC DN LINE
DFC UP LINE
EXG. DFC ROW
SSP
SUB DEPOT BREAK DOWN
PROP. RFO/ROR
AT CH: 11360.50
Crossing in between DFCC OHE
Mast no. 140/41-42 & 140/43-44
C/L OF NEW PALGHAR CROSSING STATION AT KM:141.490
PROP. CH:0.00 FOR VPPL RAIL CONNECTIVITY
SERVICE BUILDING
IMSD
UP&DN C.No.1 (LH)
Δ= 95°16'20"
D 3.646°
R 480.00m
C.L 798.152m
Tan.L 526.334m
TRL 60m
SPEED 88.09 KMPH
DN J2 (C.NO.1) AT CH: 4931.190m
UP J2 (C.NO.1) AT CH: 4924.615m
DN TP2 (C.NO.1) AT CH: 4991.190m
UP TP2 (C.NO.1) AT CH: 4984.615m
OVER RUN LINE 120m
VAROR STATION
PROP.CH@KM:20/730
KEY PLAN NOT TO SCALE
TO BOISAR/MUMBAI
VANGAON TO SURAT

Proposed New Double line of Vadhavan Port connectivity from Vangaon IR Station.

PROPOSED TRACK STRUCTURE	
1. RAILS	60 KG.
2.WIDER SLEEPER TYPE	PRC
3.SLEEPER DENSITY	1660/KM
4.FASTENING	ELASTIC
5.BALLAST CUSHION	350 mm

PROPOSED VPPL BRIDGE DETAILS

Sl.No	Chainage	Bridge no	Span Configration Proposed	Bed Level	Rail Level	Formation Level	Type of Crossing	Remarks
1	1078.660	1	1x6.0x4.5m	12.032	16.181	15.439	UnderPass	RUB
2	2500.000	2	1x2.0x2.0m	14.119	15.521	14.779	Water way	Minor
3	3088.380	3	1x6.1	10.791	14.550	13.808	Water way	Minor
4	3530.505	4	1x5.0x5.0m	12.611	14.632	13.890	UnderPass	RUB
5	3696.285	5	1x3.0x3.0m	10.820	14.875	14.133	Water way	Minor
6	5229.020	6	2x30.5m	15.442	19.174	18.432	Major Road Crossing	ROB

EXISTING DFCCIL BRIDGE DETAILS

Sl.No	Chainage	Bridge no	Span Configration Proposed	Bed Level	Rail Level	Formation Level	Type of Crossing	Remarks
1	140327.992	153A (LC-54)	1x5.5x4.5m	9.486	16.312	15.541	UnderPass	RUB
2	138993.594	153	1x2.0x1.5m	12.704	16.017	15.331	Water way	Minor
3	138406.440	152	1x6.1x3.5m	8.655	14.550	13.863	Water way	Minor
4	138858.183	151A (LC-53)	1x5.0x4.0m	8.643	14.309	13.532	UnderPass	RUB
5	137870.570	151	1x3.0x4.5m	8.576	14.654	13.815	Water way	Minor

CSR TABLE

S.NO.	LINE DESCRIPTION	LENGTH (M)	CHAINAGE FROM	CHAINAGE TO
1.	LOOP LINE NO.- 1	1681.31	1628.18	3309.49
2.	LOOP LINE NO.- 2	1727.40	1704.31	3431.71
3.	DN MAIN LINE NO.- 3	1728.52	1779.06	3502.97
4.	UP MAIN LINE NO.- 4	1728.52	1903.44	3631.96
5.	LOOP LINE NO.- 5	1837.69	1980.35	3818.05
6.	LOOP LINE NO.- 6	1693.96	2052.56	3746.26
7.	LOOP LINE NO.- 7	1549.69	2124.77	3674.46
8.	LOOP LINE NO.- 8	1500.00	2149.73	3649.73

DETAILS OF PROPOSED CURVES

S.No	Curve No	UP OR DN	LH OR RH	TP-1	J-1	J-2	TP-2	DELTA	RADIUS	DEGREE	TL	TCL	CL	CCL	TRL	CANT DEFICIENCY (MM)	CANT (MM)	SHIFT (MM)	SPEED (KMPH)
1	1	UP	LH	4126.463	4186.463	4924.615	4984.615	95°16'20.558"	480.000	3.646	526.334	858.152	798.152	738.152	60.000	75.000	147	313.000	88.092
2	1	DN	LH	4133.038	4193.038	4931.190	4991.190	95°16'20.558"	480.000	3.646	526.334	858.152	798.152	738.152	60.000	75.000	147	313.000	88.092

PSR TABLE

S.NO.	LINE NOMENCLATURE	FROM CHAINAGE (KM)	TO CHAINAGE (KM)	TOTAL LENGTH IN METERS	PSR PROPOSED (KMPH) W.R.T MAXIMUM SECTIONAL SPEED OF 100 KMPH	REASONS REMARK FOR PSR
1	PROP. UP & DFC DN LINEs	4126.463	4984.615	798.152m	70	DUE TO Degree of curve 3.646 and design speed 74.82 km/ph

KEY PLAN NOT TO SCALE

LEGEND :-

EXISTING TRACK	—
PROPOSED ALIGNMENT/NEW WORKS	—
PROPOSED LAND BOUNDARY	—·—·—
EXISTING DFCCIL WORK	—
DFCCIL FUTURE WORK	- - - - - -
EXISTING DFCCIL LAND BOUNDARY	—
EXISTING MRVC WORK	—
APPROACH ROAD FOR DFCCIL	—
DRAIN/NALLAH	
GRADIENT POST	
POINT AND X-ING	PT 101M
FOULING MARK	FM
EXST IR KM POST	KM 1
HT LINE CROSSINGS	☒
Y-CONNECTION TOWARDS MUMBAI	—

NOTES :
1. ALL CHAINAGES ARE SHOWN IN METRES.
2. EXISTING IR WORK SHOWN IN BLACK.
3. PROPOSED WORK SHOWN IN RED.
4.PROPOSED BOUNDARY SHOWN IN BLUE.
5. EXISTING DFCCL LINE SHOWN IN MAGENTA. (DFCCIL CHAINAGES ARE SHOWN AS PER DFCCIL PLAN)
6. PROPOSED MRVC WORK SHOWN IN LIGHT BLUE.
7. KILOMETRES, CHAINAGES, BRIDGES, LEVEL CROSSINGS & CURVES ARE RECKONED FROM NEW PALGHAR DFCC STATION BUILDING.
8. THIS DRAWING PREPARED AS PER KEY PLAN AND THAT DRG.NO :- DYCE/C/CCG/ 1040/ F-CON-VGN-VADHAVAN PORT
9. EXISTING DFCC RAILWAY LAND BOUNDARY SHOWN IN ORANGE.
10. APPROACH ROAD FOR DFCCIL NEW PALGHAR STATION SHOWN IN CYAN
11.Y-CONNECTION SHOWN IN THE YELLOW COLOR AT SOUTH END TO BE EXECUTED AS A SEPARATE FUTURE WORK.

NOTES:-

S & T NOTES:-
1.MRVC QUADRUPLING WORK IS IN PROGRESS, SO CLEARANCE FROM MRVC OFFICIALS ARE REQUIRED AND JOINT REPORT TO BE ATTACHED.

ELECTRICAL (POWER) NOTES:-
1.ELECT(P) CABLES AND LT PANELS TO BE PROTECTED/RELOCATED BY EXECUTING AGENCY BY ITSELF DURING EXECUTION OF THE WORK.
2.CONCERNED SSE/P TO BE INFORMED DURING EXECUTION OF WORK..

SR.DEE/TRD/BL NOTES:-
1. UTILITY SHIFTING AND MODIFICATION OF TRD ASSETS SHALL BE DONE BY DY.CEE/C/CCG. THIS SHOULD BE INCORPORATED IN GAD.

SR.DEN/N//MMCT:-
1. JOINT SITE VERIFICATION SURVEY HAS TO BE DONE WITH ALL CONCERNED SITE OFFICIALS OF IR, DFCCIL & MRVC. AND IF AGREED, GET THE SIGN OF ALL OFFICIALS ON PLAN, THEN ATTACH SIGNED PLAN PDF AND JOINT REPORT SEPARATELY IN E-DAS.

2.PRIOR APPROVAL OF DFCCIL, MRVC & S&C OFFICIALS TO BE TAKEN BEFORE PROCESSING FOR DIVISIONAL REVIEW.

SR.DOM/MMCT:-
1.SINCE DFCCIL PORTION IS INVOLVED IN THIS WORK, ESP IS REQUIRED TO BE APPROVED BY DFCCIL OFFICIALS PRIOR TO APPROVAL OF BCT DIVISION.

SIGNATURE BLOCK (DFCCIL)	
CGM-MUM-NORTH	
DY CPM S&T-MUM-NORTH	
DY CPM-ELEC-MUM-NORTH	
PM-ENGG-MUM-NORTH	
DY PM-ENGG-NORTH	

Signature block	
CTPM-CCG	
CE-C-I-CCG	
CSTE-C-II-CCG	
CEE-C-CCG	
DRM-MMCT	
ADRM-I-MMCT	
SRDEN-CO-MMCT	
SRDSTE-N-MMCT	
SRDEE-POWER-MMCT	
SRDEE-TRD-BL	
SRDOM-MMCT	
SR DCM-MMCT	
SRDEN-NORTH-MMCT	
ADEN-DRD	
DYCEE-C-CCG	Pushpendra Kumar Yadav Digitally signed by Pushpendra Kumar Yadav Date: 2026.02.09 11:36:08 +05'30'
DYCSTE-C-F-CCG	MEETHA LAL MEENA Digitally signed by MEETHA LAL MEENA Date: 2026.02.09 11:12:53 +05'30'
DYCE-C-CCG	HARISH MEENA Digitally signed by HARISH MEENA Date: 2026.01.14 10:26:14 +05'30'
AXEN-C-II-CCG	MAHENDRA KUMAR Digitally signed by MAHENDRA KUMAR Date: 2026.01.14 10:14:12 +05'30'
SSE-C-W-BVI	PRAMOD KUMAR RANA Digitally signed by PRAMOD KUMAR RANA Date: 2026.01.14 11:16:29 +05'30'
SSE-C-P-WAY-I-CCG	

DRG.NO.CAO(C)/CCG: E-26958/F-VPPL-YARD
DRG.NO.DRM (B) No: 28423/15-F.
SIZE OF PLAN : 8392 M X 1611 M
WESTERN RAILWAY
MUMBAI DIVISION

New Double line between Vangaon and Vadhavan Port (22.23 Km)

VPPL HOLDING YARD

PREPARED BY :
SATRA SERVICES AND SOLUTIONS PRIVATE LIMITED
OFFICE: 401, CAPITAL PARK, IMAGE GARDEN LANE ,
HI-TECH CITY, MADHAPUR
HYDERABAD,TELANGANA- 500081,
EMAIL: INFO@SATRAGROUP.IN

SCALE: 1:1000
SHEET NO. 01
ISSUE DATE:

Signature Not Verified
Digitally signed by RAVINDER MARKANDEY VEMULA
Date: 2026.02.25 10:50:06 IST
Reason: IREPS-CRIS
Location: New Delhi