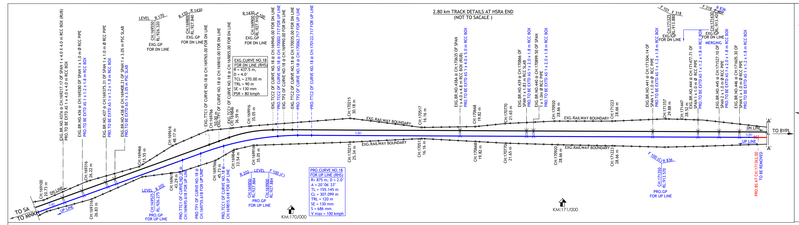
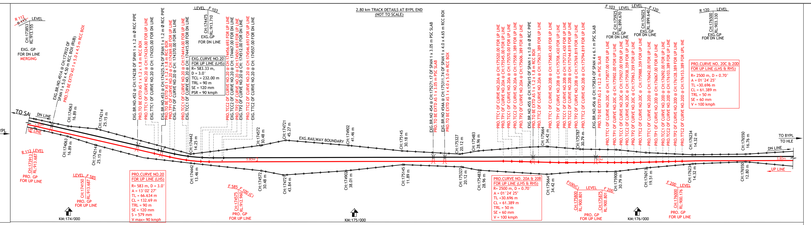
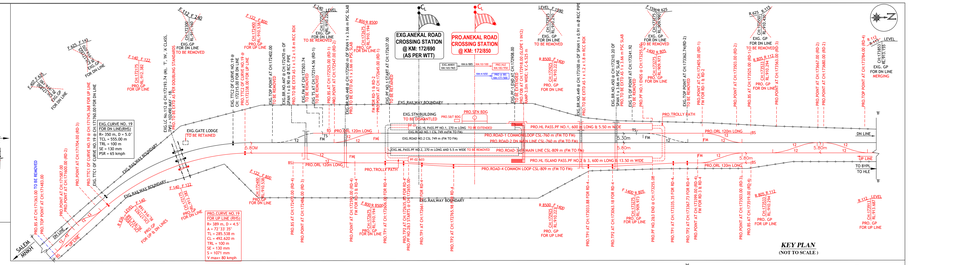
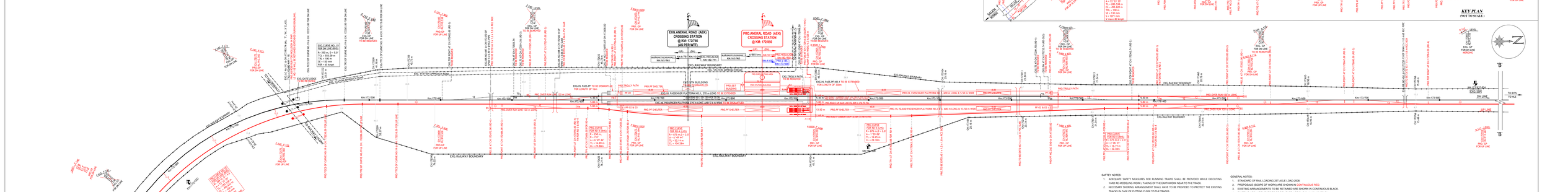








MODE OPERATION PHASE-I
UNDER NON-BLOCK CONDITION:

1. CONSTRUCT HL ISLAND PLATFORM NO.3&3 & AND EXTENSION OF EXG. HL PF NO.1 FOR OVER ALL LENGTH OF 650 m
2. LAYING OF PRO FOLS RD4-1 LAYING OF POINTS & CROSSINGS ON BOTH ENDS AT RD-3 TO CONTACT RD-4, AND LAYING OF OVER RUN LINES AND ITS POINTS AND CROSSINGS AT RD-4 ON BOTH ENDS
3. LAYING OF POINTS & CROSSINGS AT RD-1 ON BOTH ENDS FOR EMERGENCY CROSS OVER AND ASSEMBLING OF POINTS & CROSSINGS ON STAGE FOR EMERGENCY CROSS OVER TO INSERT AT RD-2 ON BOTH ENDS
4. PROVIDE TEMPORARY BS AT CH: 171/400.00 ON HSRA END ON RD-1.

UNDER BLOCK CONDITION:

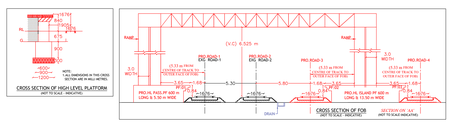
1. REDRAGING WITH STONE BALLAST OF EXG. TRACK IN STAGES TO THE PROPOSED FINAL LEVEL
2. INSERTION OF POINTS & CROSSINGS ASPT ON STAGE FOR EMERGENCY CROSS OVER ON BOTH ENDS ON RD-2. LAYING OVER RUN LINE AT RD-1 AND POINT & CROSSING ON BOTH ENDS
3. DISMANTLE THE EXG. TRAP SWITCH AND POINTS & CROSSING ON RD-1 ON BYPL END AND HSRA END AT RD-1
4. COMMISSION THE U-LINES STATION ALONG WITH DOUBLING TOWARDS BYPL END (UP LINE) UNDER SPEED RESTRICTION OF 20 kmph AND RELAX THE SPEED IN STAGES.

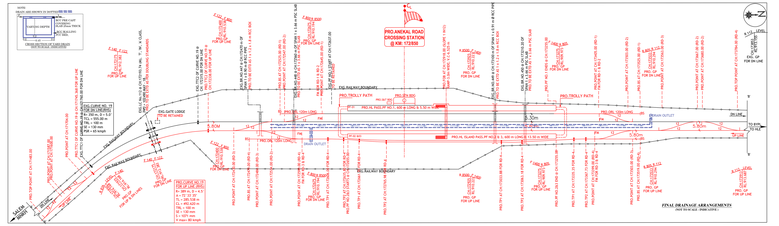
MODE OPERATION PHASE II & FINAL

1. REMOVAL OF TEMPORARY BS AT CH:171/400.00 ON HSRA END AND CONNECT TO THE ALREADY LAYED NEW DOUBLING TRACK ON UP LINE AND COMMISSIONING TRAFFIC ON UP LINE UNDER SPEED RESTRICTION.

P.WAY DETAILS

EXISTING LINES	EXISTING RAILS	PROPOSED LINES	PROPOSED RAILS	SLEEPER DENSITY		BALLAST CUSHION	
				EXISTING	PROPOSED	EXISTING	PROPOSED
EXG.ROAD-1 (LOOP LINE)	52 kg (90 UTS) CLASS II	PRO.ROAD-1 (COMMON LOOP)	EXG.TO BE RETAINED	52 kg PSC (1540 NOS)	EXG.TO BE RETAINED	250 mm	EXG.TO BE RETAINED
EXG.ROAD-2 (MAIN LINE)	60 kg (90 UTS) CLASS I	PRO.ROAD-2 (DN MAIN LINE)	EXG.TO BE RETAINED	60 kg PSC (1840 NOS)	EXG.TO BE RETAINED	250 mm	EXG.TO BE RETAINED
---	---	PRO.ROAD-3 (UP MAIN LINE)	60 kg PR (PTS CLASS I)	---	60 kg PSC (1840 NOS)	---	250 mm
---	---	PRO.ROAD-4 (COMMON LOOP)	52 kg PR (PTS CLASS II)	---	52 kg PSC (1540 NOS)	---	250 mm
TURNOUTS	60 kg CLASS I	TURNOUTS (1:16 IN 12 THICK WEB SWITCH)	PSC TURNOUT 60 kg CLASS I (1840)	---	60 kg PSC	---	250mm





POINTS DETAILS

P&C No.	Type of crossing	LH/RH	CONNECTING ROADS	LOOP LINE/ MAIN LINE	EXG. STRUCTURE	PRO. STRUCTURE	RESULTANT RADIUS	SPEED POTENTIAL ON POINT	REMARKS
1A & 1B	1 in 12	LH	EXG.RD-2 & PRO.RD-3	MAIN LINE	--	60KG CLASS-I	441.36m	50KMPH	EMERGENCY CROSSOVER @ SA END
2A & 2B	1 in 12	RH	PRO.RD-3 & EXG.RD-2	MAIN LINE	--	60KG CLASS-I	441.36m	50KMPH	EMERGENCY CROSSOVER @ SA END
3A & 3B	1 in 12	RH	PRO.RD-3 & PRO.RD-4	MAIN LINE/COMMON LOOP	--	52-KG.CLASS-II	441.36m	50KMPH	
4A & 4B	1 in 12	LH	EXG.RD-2 & EXG.RD-1	MAIN LINE/COMMON LOOP	--	52-KG.CLASS-II	441.36m	50KMPH	
5A & 5B	1 in 12	RH	EXG.RD-1 & PRO.RD-3	COMMON LOOP /MAIN LINE	--	52-KG.CLASS-II	441.36m	50KMPH	
6A & 6B	1 in 12	RH	EXG.RD-1 & EXG.RD-2	COMMON LOOP/MAIN LINE	--	52-KG.CLASS-II	441.36m	50KMPH	
7A & 7B	1 in 12	LH	PRO.RD-3 & EXG.RD-2	MAIN LINE	--	60KG CLASS-I	441.36m	50KMPH	EMERGENCY CROSSOVER @ BYPL END
8A & 8B	1 in 12	RH	EXG.RD-2 & PRO.RD-3	MAIN LINE	--	60KG CLASS-I	441.36m	50KMPH	EMERGENCY CROSSOVER @ BYPL END

SAFTEY NOTES:

1. ADEQUATE SAFETY MEASURES FOR RUNNING TRAINS SHALL BE PROVIDED WHILE EXECUTING YARD RE-MODELING WORK / TAKING OF THE EARTHWORK NEAR TO THE TRACK.
2. NECESSARY SHORING ARRANGEMENT SHALL HAVE TO BE PROVIDED TO PROTECT THE EXISTING TRACKS IN CASE OF CUTTING CLOSE TO THE TRACKS.
3. DURING EXECUTION OF YARD WORK, THE MATERIALS / EQUIPMENTS / RELEASED MATERIAL / NEW MATERIAL ETC., SHALL BE STACKED IN SUCH A WAY THAT THEY WILL NOT INFRINGE THE RUNNING LINE DULY ENSURING ALL SAFETY MEASURES DURING RE-MODELING OF THIS YARD.
4. SUITABLE SAFETY BARRICADING HAS TO BE PROVIDED WHENEVER AND WHEREVER WORK IS BEING EXECUTED PARALLEL AND NEARER TO THE RUNNING TRACK.
5. WHILE EXECUTING YARD MODIFICATIONS, NECESSARY PRECAUTIONS SHOULD BE TAKEN TO AVOID ANY CONDITION THAT MIGHT CAUSE DAMAGE TO ELECTRICAL INSERTION OF POINTS AND CROSSING, SIGL, TRAPS, GLUED JOINTS ETC, SHALL BE CARRIED OUT UNDER TRAFFIC BLOCKS ONLY UNDER THE SUPERVISION OF THE COMPETENT DEPARTMENT OFFICIALS.
6. WHILE WORKING IN CLOSED VICINITY WITH OHE, MINIMUM 2 METERS WORKING CLEARANCE TO BE MAINTAINED. IF REQUIRED PROPER POWER BLOCK TO BE TAKEN DULY GIVING ADVANCE INTIMATION.
7. IN ELECTRIFIED SECTION TRACTION TERRITORY, EARTHING TO BE DONE AND CERTIFIED BY THE TRD OFFICIALS BEFORE POWER BLOCK IS CANCELLED FOR WORKS RELATED TO YARD RE-MODELING WHICH HAS TO BE EXECUTED UNDER THE SUPERVISION OF EXPERIENCED AND COMPETENT TRD OFFICIALS.
8. ADHERENCE OF IRSOD DIMENSIONS HAVE TO BE ENSURED BEFORE ALLOWING THE TRAFFIC AFTER COMPLETION OF LINE BLOCK.
9. THE JOINT PROCEDURE ORDER ON SAFETY RELATED ISSUES PERTAINING TO WORK SITE IN CONSTRUCTION PROJECTS (LETTER NO:W.239/SAFETY PRECAUTIONS DL 18.02.2013) VIDE CTE LETTER NO: SWR/W.147/SAFETY AT WORK SPOT, DL 20.08.2017 HAS TO BE STRICTLY FOLLOWED.
10. THE GRADUAL RELEASE OF SPEED RESTRICTIONS SHALL BE FOLLOWED AS PER PARA NO:127 OF RPWM 2020.

SPECIAL NOTES:

1. CHAINAGE ZERO (0.00) IS RECKONED FROM THE CENTRE LINE OF SALEM JUNCTION.
2. THE AUTHORITY OF EXECUTION OF WORK IS AS PER CAO/CONRCC SANCTION OF BYPL-HSRA DOUBLING ESTIMATE LETTER NO:W.2019/W-1/DL/BWRB5 dated 09.09.2019.
3. EXG.DPR SANCTION LETTER NO: VIDE LETTER NO:SEE/W/2018-19 dated - 17.10.18
4. THIS PLAN IS PROPOSED BASED ON COMPLETION DRAWING OF ANEKAL ROAD VIDE NO.CW-TR-01/2.2.
5. ALL LOOP LINES PROPOSED ARE TO BE MADE FIT FOR 30 kmph.
6. THIS MASTER PLAN (AEK) SUPERCEDES THE EXG.P-WAY PLAN NO.KR2DE/DL/BW/05 - 2020
7. THIS PROJECT IS INCLUDED IN ITEM NO:34 OF PWR BOOK 2020 - 2021 & PROJECT ID:15486
8. SINCE THE SECTION IS MADE FIT FOR 25T LOADING, THE EXISTING BRIDGES ARE CHECKED FOR EMARPING OUT FOR 25T LOADING. FOR WHICH NECESSARY CALCULATIONS HAVE BEEN CARRIED OUT AND CERTIFIED.
9. AS FAR AS POSSIBLE, THE EXISTING LCs IN THE YARD HAS BEEN ELIMINATED BY CONSTRUCTION OF ROBR/RUB. HOWEVER, ELIMINATION OF LCs IS NOT INCLUDED IN BYPL-HSRA DETAILED ESTIMATE, AND AS PER DIRECTION OF RAILWAY BOARD VIDE LETTER NO:2013/W-I/GAC.01/ PH.II THE COMMISSIONING OF ROBR/UR SHALL NOT BE LINKED WITH THE DOUBLING PROJECT. THE EXISTING LCS HAVE BEEN RETAINED/EXTENDED AS PER THE APPRM DOUBLING ESTIMATES.
10. THE PROPOSED CONDONATION AND DETAILS OF TRACK STRUCTURE ARE MENTIONED IN A SEPARATE TABLE.
11. THE RULING GRADIENT OF THIS SECTION IS 1 IN 100. AND GRADE COMPENSATION HAS BEEN CONSIDERED FOR THE CURVES.
11. THIS YARD LIES IN D ROUTE AS PER LATEST WTT.
12. THE EXISTING SECTIONAL SPEED OF YARD IS 100 KMPH AND THE YARD HAS BEEN PLANED FOR PROPOSED SECTIONAL SPEED OF 100 KMPH.
13. ALL WORKS PROPOSED IN THE MASTER PLAN ARE TO BE COMPLETED IN 2 PHASES. SHOWN AS PHASE 1 - RED AND PHASE 2 - BLUE AS PER LATEST PDE/SWR CIRCULAR. DI:12.06.2021

GENERAL NOTES:

1. STANDARD OF RAIL LOADING 25T AXLE LOAD-2008.
2. PROPOSALS (SCOPE OF WORK) ARE SHOWN IN CONTINUOUS RED.
3. EXISTING ARRANGEMENTS TO BE RETAINED ARE SHOWN IN CONTINUOUS BLACK.
4. EXISTING ARRANGEMENTS TO BE REMOVED ARE SHOWN IN BLACK DASH.
5. LAND BOUNDARY DISTANCES TO BE SHOWN AS CHAIN DOTTED IN BLACK.
6. NORTH DIRECTION INDICATED IN THE PLAN IS OF THE MAGNETIC NORTH.
7. ALL DIMENSIONS AND LEVELS (WITH RESPECT TO MSL) ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
8. LAND BOUNDARY DISTANCES SHOWN IN THE PLAN ARE THE PERPENDICULAR OFFSETS FROM THE EXG. MAIN LINE CENTRE AND THE LOCATION OF STATION BUILDING ARE ONLY INDICATIVE. FOR ACCURATE MEASUREMENTS, RESPECTIVE LAND PLANS ARE TO BE VERIFIED.
9. SINCE THE EXG. DETAILS MENTIONED IN THE LATEST COMPLETION YARD PLAN ARE NOT MATCHING WITH THE DETAILS AVAILABLE AT SITE, THIS ESP HAS BEEN PREPARED BASED ON THE DETAILS AVAILABLE AT SITE AND ON THE BY FIELD OFFICIALS.
10. THE FEASIBILITY OF EXECUTION AS PER THE PLAN SHALL BE CHECKED AT SITE BY ENGINEER-IN-CHARGE BEFORE TAKING UP THE WORK.
11. THE CHAINAGES AND EXISTING LEVELS GIVEN IN THE YARD PLAN ARE ACTUALLY MEASURED AND VERIFIED AT SITE.
12. THE MINIMUM HORIZONTAL AND VERTICAL DISTANCE AND OTHER DIMENSIONS SHALL BE PROVIDED AS PER IRSOD AND LATEST CORRECTION SLIPS TO IRSOD UNLESS OTHERWISE SPECIFIED.
13. THIS YARD PLAN IS PROCESSED FOR APPROVAL SUBJECTED TO MAINTAINING SAME LEVELS, ALIGNMENT, GRADE AND TRACK CENTRE DISTANCES SHOWN IN THIS PLAN AND AS THAT OF APPROVED WORKING SECTION / PLANS.
14. NECESSARY DRAINAGE ARRANGEMENTS TO SUIT SITE CONDITION WILL BE PROVIDED AS PER THE STANDARDS BY THE ENGINEER-IN-CHARGE.
15. PASSENGER AMENITIES AS PER RAILWAY BOARD'S LR.NO.2014/W.MP/LIE DATED 09.04.2014 AND RDSO GUIDELINES (RSO AGENDA ITEM NO. 0040:015) AS PER ED/WORKS/RDSO VIDE LETTER NO. RW/W/0040/15 DATED 10.01.2015 TO BE PROVIDED.
16. PASSENGER AMENITIES FOR DIV.HANGAN SHALL BE PROVIDED AS PER RAILWAY BOARD'S LR.NO.2012/LM/PASSENGER/PLCY/Pt.Ms.dt.06.09.2013.
17. ALL PLATFORMS SHOULD BE CONSTRUCTED AS PER RAILWAY BOARD LETTER NO.2006/CONSTRUCTION/30/PLATFORMS.
18. ALL LOOP LINES PROPOSED ARE TO BE MADE FIT FOR 30 kmph.
19. THE ENGINEER-IN-CHARGE AT SITE SHOULD ENSURE TRACK CENTERS AS SHOWN ON CURVES DULY TAKING CARE OF SHIFT AND ALL OTHER ALLOWANCES.
20. VERTICAL CLEARANCE FOR THE PROPOSED FOB IN 6.525 m ABOVE RAIL LEVEL.
21. FOR CHANGE OF GRADIENTS IN THE FARDS PROPER VERTICAL CURVE SHALL BE DESIGNED AND ACCORDINGLY PROVIDED.
22. THE EXISTING TRACK COMPONENTS SUCH AS SEJL TRAPS, GLUED JOINTS, NON-STANDARD RAILS, SLEEPERS ETC. SHALL BE REPLACED WITH PROPOSED TRACK STANDARDS MENTIONED IN THIS PLAN.
23. ALL STANDARD AND CONVENTIONAL APPROVED DRAWINGS SHALL BE ADOPTED FOR VARIOUS PASSENGER AMENITIES, TRACK WORKS, BRIDGE WORKS, BUILDING WORKS, S&T WORKS, ELECTRICAL WORKS ETC., UNLESS OTHERWISE SPECIFIED.
24. BEGINNING PLAN BEING ADOPTED, IF ANY, SHALL BE REFERRED IN THE ESP UNDER PROJECT.
25. ALL UNDERGROUND CABLE ETC., IF ANY, SHALL BE REMOVED AND BE ALIGNED BEFORE THE STARTING OF THE WORK. S&T CABLES SHALL BE PROPERLY PROTECTED AND ALL PRECAUTIONARY MEASURES MUST BE TAKEN ACCORDING TO TELECOMMUNICATIONS CIRCULAR NO:17/2015 ISSUED BY RAILWAY BOARD VIDE LETTER NO:2010/TE.ERS/LIFT. IN DATED24.06.2013.
26. BEFORE AND DURING EXECUTION OF WORK, CONCERNED OPEN LINE OFFICIALS SHOULD BE CONSULTED IN CONNECTION WITH WORKS AFFECTING THE EXISTING FACILITIES.
27. WHEREVER NEW PLATFORM SHELTER BEING PROVIDED OVER THE EXISTING ONE MAST. THE WATER PROOFING OF CUT AREA IN THE PLATFORM SHELTER TO BE DONE BY CONCERNED CIVIL DEPT.
28. WHENEVER PLATFORM EXTENSION OR NEW PLATFORM BEING CONSTRUCTED THE PLATFORM EARTH WORK TO BE DONE BEFORE TAKING UP THE TRACK WORK TO FACILITATE THE ERECTION OF MAST FOR MODIFICATION IN THE EXISTING OHE.

INFRINGEMENT OF MAXIMUM & MINIMUM DIMENSIONS

SL NO.	LOCATION	KILOMETERAGE	NAME OF STRUCTURE WHICH INFRINGES	PRESCRIBED MAXIMUM AND MINIMUM DIMENSIONS.		ACTUAL DIMENSIONS	AMOUNT OF INFRINGEMENT
				CHAPTER & ITEM	MAXIMUM & MINIMUM		
1	2	3	4	5	6	7	8
	DIVISION: BENGALURU SECTION: SALEM - YESWANTPUR						
1.	ANEKAL ROAD (UP & DN LINES)	OH: 172533 OH: 172834	YARD Gradient	INDIAN RAILWAYS SCHEDULE OF DIMENSIONS, 1676 MM GAUGE. PART-I-BG TRACK, SECTION-1 CHAPTER - II ITEM NO. 2 (viii)	MAXIMUM: YARD GRADIENT: 1 IN 400 (0.25%)	1 IN 112 (0.89%) (PROPOSED)	1 IN 112 (0.89%) 1 IN 140 (0.71%) (PROPOSED) INSTEAD OF 1 IN 400 (0.25%)
2.		OH: 177925 OH: 178175				1 IN 140 (0.71%) (PROPOSED)	
3.		OH: 172175 TO OH: 172480				1 IN 112 (0.81%) (PROPOSED)	

SIGNATURE COLUMN

JGM/ELE/PROJECTS	Aman Katyal Digitally signed by Aman Katyal Date:2022.05.27 10:20:48 +05'30'
AGM/CIVIL/PROJECTS	Nalin Chandra Patra Digitally signed by Nalin Chandra Patra Date:2022.05.27 10:02:08 +05'30'
GM/SNT/PROJECTS	SOMPATI NAGESWARARAO Digitally signed by SOMPATI NAGESWARARAO Date:2022.05.28 12:51:07 +05'30'
GM/CIVIL/PROJECTS	PRAVEEN KUMAR Digitally signed by PRAVEEN KUMAR Date:2022.05.27 03:08:04 +05'30'

DIVISION -SBC

Sr.DEN/Co-ord/SBC	PERVEEN KUMAR Digitally signed by PERVEEN KUMAR Date:2022.05.24 10:31:18 +05'30'
DEN/South/SBC	HISAM HUSSAIN Digitally signed by HISAM HUSSAIN Date:2022.05.24 10:02:08 +05'30'
Sr.DOM/SBC	Akhil M Shastary Digitally signed by Akhil M Shastary Date:2022.05.31 09:33:18 +05'30'
Sr.DEE/TRD/SBC	PUJA KUMARI Digitally signed by PUJA KUMARI Date:2022.05.06 12:15:06 +05'30'
Sr.DCM/SBC	D.V.RAVI KUMAR Digitally signed by D.V.RAVI KUMAR Date:2022.05.24 10:31:53 +05'30'
Sr.DSTE/SBC	P S AJAYA Digitally signed by P S AJAYA Date:2022.05.27 09:20:54 +05'30'
ADRM/T/SBC	LAKSHMAN SINGH Digitally signed by LAKSHMAN SINGH Date:2022.05.06 10:48:43 +05'30'
DRM/SBC	SHYAM SINGH Digitally signed by SHYAM SINGH Date:2022.02.07 05:19:24 +05'30'

HEAD QUARTERS- SWR

CTPM/SWR	H.M. Dinesh Digitally signed by H.M. Dinesh Date:2022.06.17 10:09:41 +05'30'
CPDE/SWR	H.Gul AzMaque Mohammed Digitally signed by H.Gul AzMaque Mohammed Date:2022.06.17 11:14:46 +05'30'

SOUTH WESTERN RAILWAY

K RIDE **RAIL INFRASTRUCTURE DEVELOPMENT COMPANY (KARNATAKA) LIMITED**

BENGALURU DIVISION

SALEM - BAIYAPPANAHALLI SECTION

DOUBLING OF BG TRACK BETWEEN BAIYAPPANAHALLI'A' PANEL AND HOSUR STATIONS PROPOSED YARD ARRANGEMENTS AT

ANEKAL ROAD

MASTER PLAN

DRAWN BY: Sr.EXECUTIVE/CIVIL/KRIDE BHARATH KUMAR M

CHECKED BY : Dy.MANAGER/CIVIL/KRIDE BABITHA.ANTONY DAS

DRG.NO:KRIDE/DL/BW/03 – 2021

SCALE - 1 : 1000 HQ DRG.NO:SWR/W.573/ESP/ABK/MP/K-RIDE/149/TEB-2022