



- NOTES:-**
1. ALL DIMENSIONS SHOWN IN THIS GAD ARE IN MM AND REDUCED LEVELS ARE IN M UNLESS OTHERWISE SPECIFIED.
 2. DO NOT SCALE THE DRAWING. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 3. EXPOSURE CONDITION - SEVERE
 4. SEISMIC ZONE IS ZONE - II
 5. PROPOSED BRIDGE IS DESIGNED FOR 3RD LOADING 2008 STANDARD.
 6. THIS GAD IS SUBJECT TO MAINTAINING SAME LEVELS, ALIGNMENT, GRADE AS THAT OF APPROVED WORKING SECTION/WORKING PLAN AND YARD PLANS IF ANY.
 7. BACK FILL MATERIAL SHALL CONFORM TO CL. 7.5 OF IRS SUBSTRUCTURE 2013 (REVISED) & FOUNDATION CODE, WITH LATEST CORRIGENDUM & ADDENDUM SLIPS.
 8. DEPTH OF FOUNDATION SHOWN IN THIS DRAWING IS TENTATIVE. THE ACTUAL DEPTH SHALL BE DECIDED BY ENGINEER-IN-CHARGE.
 9. BOX SHALL BE PLACED ON NON ERODIBLE STRATA.
 10. THE DETAILS OF ITEMS SUCH AS BOULDER/SAND FILLING, GRADES OF CONCRETE, PITCHING, FLOORING, TOE WALL ETC. ARE SHOWN IN THE DRAWING.
 11. CALCULATED SBC OF THE SOIL AS PER REPORT IS 40.80 t/m².
- CODES MANUALS TO BE FOLLOWED:-**
1. I.R.S CONCRETE BRIDGE CODE 2014 (REVISED) INCLUDING LATEST ACS READ IN CONJUNCTION WITH RELEVANT I.S. SPECIFICATIONS MENTIONED THEREIN.
 2. I.R.S BRIDGE SUB STRUCTURE CODE - 2013 (REVISED) INCLUDING LATEST ACS SLIPS.
 3. I.R.S BRIDGE RULES - 2014 INCLUDING LATEST ACS SLIPS.
 4. I.R. BRIDGE MANUAL - 1998 INCLUDING LATEST ACS SLIPS.
 5. INDIAN RAILWAYS UNIFIED STANDARD SPECIFICATION FOR MATERIALS AND WORKS (2018/2019)
- MATERIAL SPECIFICATIONS:-**
1. GRADE OF CONCRETE FOR VARIOUS ROCC MASS CONCRETE WORK SHALL BE IN ACCORDANCE WITH IRS BRIDGE CODE 1997 WHERE IRS CONCRETE BRIDGE CODE IS SILENT, IRC CODE & IS 456 MAY BE REFERRED TO.
 2. ALL WORKS ARE TO BE CARRIED OUT AS PER THE FOLLOWING:
 - i) INDIAN RAILWAYS UNIFIED STANDARD SPECIFICATION FOR MATERIALS & WORKS OF 2010 WITH UPTO LATEST CORRECTION SLIPS.
 - ii) I.R.S CONCRETE BRIDGES CODE 2014 (REVISED) INCLUDING LATEST ACS CORRECTION SLIPS READ IN CONJUNCTION WITH RELEVANT I.S. SPECIFICATIONS MENTIONED THEREIN.
 - iii) I.R.S BRIDGE SUB STRUCTURE CODE 2013 (REVISED) INCLUDING LATEST ACS SLIPS.
 - iv) I.R.S BRIDGE RULES INCLUDING LATEST ACS SLIPS - 2014.
 - v) I.R. BRIDGE MANUAL 1998 INCLUDING LATEST ACS SLIPS.
 - vi) I.R.S CONCRETE BRIDGES CODE 2014 (REVISED).
 3. FOUNDATION & SUB-STRUCTURE OF RETAINING WALLS:- RCC GRADE M-35 USING 20mm MAXIMUM SIZE GRADED HARD STONE AGGREGATE OF APPROVED QUALITY.
 4. RCC BOX:- MINIMUM CONTROLLED RCC GRADE M35 USING 20mm MAXIMUM SIZE GRADED HARD STONE AGGREGATE OF APPROVED QUALITY AS PER RDSO DRG NO.8-10155.
 5. PITCHING:- HAND PACKED ROUGH STONE PITCHING 300mm THICK OVER GRAVEL BACKING AS PER ANNEXURE 203 (PARA 205) OF IRBM. THE FACE STONE MUST BE IN GENERAL OF WEIGHT AT LEAST 38kg AND BE WELL BEDDED AND HAND SET.
 6. COPING / PARAPET WALL:- CONTROLLED C.C. M25 GRADE USING 20mm MAXIMUM SIZE WELL GRADED HARD STONE AGGREGATE OF APPROVED QUALITY.
 7. CC LEVELLING COURSE:- CC M25 GRADE USING 20mm MAXIMUM SIZE WELL GRADED HARD STONE AGGREGATE OF APPROVED QUALITY.
 8. CC WEARING COURSE:- CC M25 GRADE USING 20mm MAXIMUM SIZE WELL GRADED HARD STONE AGGREGATE OF APPROVED QUALITY.
 9. FLOORING:- AS PER PARA NO. 403.2 AND AS SHOWN IN ANNEXURE 44A OF IRBM.
 10. TOE WALL:- R.R. MASONRY IN CM 1:8 OVER CC M20 FOUNDATION USING MAX. SIZE WELL GRADED HARD STONE AGGREGATE OF 40mm APPROVED QUALITY IN FOUNDATION REINFORCEMENT BAR SHALL BE OF HYSD BARS CONFORMING TO IS 1786 : 2008.
 11. GRADED HARD STONE AGGREGATE OF 40mm APPROVED QUALITY IN FOUNDATION REINFORCEMENT BAR SHALL BE OF HYSD BARS CONFORMING TO IS 1786 : 2008.
 12. DROP WALL / CURTAIN WALL:- IN CC M25 USING 20mm MAX. SIZE GRADED HARD STONE AGGREGATE OF APPROVED QUALITY.
 13. BAR BENDING SHALL CONFORM TO 2592 - 1963.

CE/C-1/VSKP
E.Co.Railway

DR/CE/CON/1/KRPV
E.Co.Railway

SSE/DRG/CON/VSKP
E.Co.Railway

EAST COAST RAILWAY (CONSTRUCTION)

STANDARD OF LOADING : RAILWAY LOADING (25T-2008)

BRIDGE NO. 303

PROPOSED BRIDGE NO. 303 (CH:108590.000M) BETWEEN PANDRIPANI - PANCHABATI IN WALTAIR DIVISION OF EAST COAST RAILWAY

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SHEET NO. 800 X 400

SCALE : AS SHOWN

REVISION : 0.0

DATE :

DESIGNED BY :

CHECKED BY :

APPROVED BY :

CONSTRUCTION :