

FORMATION LEVEL (FL)	279.09
GROUND LEVEL (GL)	281.479
CHAINAGE (CH)	26530.14

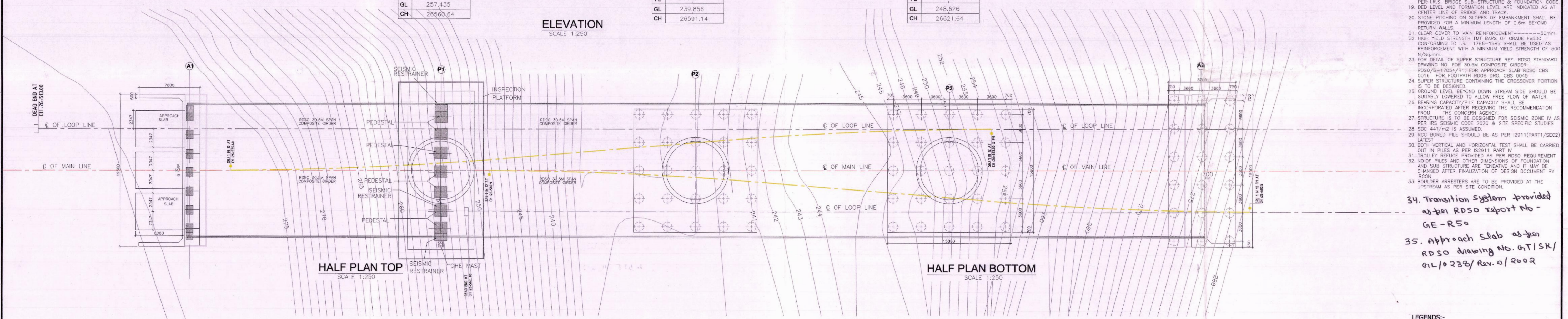
FL	279.09
GL	257.435
CH	26560.64

FL	279.09
GL	239.856
CH	26591.14

FL	279.09
GL	248.626
CH	26621.64

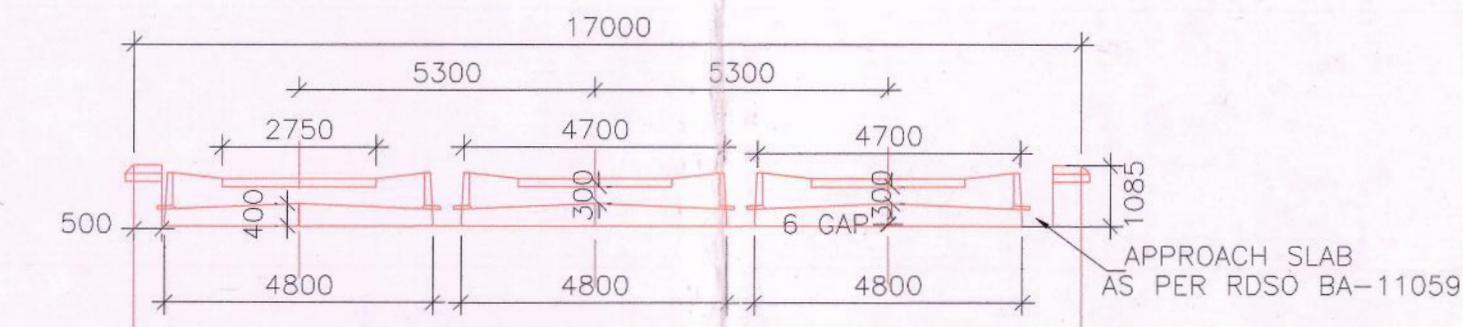
ELEVATION
SCALE 1:250

DRAWING FOR TENDER PURPOSE ONLY



HALF PLAN TOP
SCALE 1:250

HALF PLAN BOTTOM
SCALE 1:250



TYP. SECTION OF APPROACH SLAB
SCALE 1:200

- NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS, UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS ARE NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - PROPOSED LEVELS, DIMENSIONS OF STRUCTURAL COMPONENTS SHOWN ARE INDICATIVE AND FOR GUIDANCE ONLY. THESE DIMENSIONS ARE LIKELY TO UNDERGO CHANGE DURING DETAILED DESIGN STAGE BUT MANDATORY HORIZONTAL AND VERTICAL CLEARANCE SHALL BE MAINTAINED.
 - DESIGN CRITERIA
 - IRIS BRIDGE RULES INCORPORATING A&C SLIP NO.33.
 - IRIS CONCRETE BRIDGE CODE INCORPORATING A&C SLIP NO.7.
 - IRIS BRIDGE SUBSTRUCTURE & FOUNDATION CODE INCORPORATING A&C SLIP NO.22.
 - LOADING--- 3.25 TONNE AXLE LOADING AS PER IRIS STANDARD BRIDGE RULES.
 - CONCRETE GRADE
 - PIERS & ABUTMENT---M-35
 - BASE COURSE---M-15 (ii)
 - LEVELING COURSE
 - 1:4.8
 - M-15 (ii)
 - WIDTH OF FOOTPATH/WALKWAY HAS BEEN PROVIDED AS PER REQUIREMENT OF SPONSORING AGENCY.
 - INSPECTION LADDERS HAVE TO BE PROVIDED ON EACH ABUTMENT AND PIER AS PER RAILWAY APPROVED DRAWING. ONE MUST SHALL BE PROVIDED AS PER A.C.T.M.
 - TYPE OF CEMENT : AS PER I.R.S. CONC. BR. CODE.
 - TYPE OF AGGREGATE SHOULD BE CONFORM TO I.R.S. BRIDGE CODE.
 - NOMINAL MAXIMUM SIZE OF AGGREGATE IS 20mm FOR R.C.C. AND 40mm IN P.C.C. AS PER I.R.S. CONCRETE BRIDGE CODE.
 - INCREASE ADJUSTURES ARE USED IN CONCRETE DUE TO SITE CONDITIONS THEN THEY SHOULD CONFORM TO I.R.S. BRIDGE CODE.
 - TOLERANCES FOR FINISHED CONCRETE BRIDGE STRUCTURES SHOULD NOT EXCEED THE LIMITS AS GIVEN IN I.R.S. CONCRETE BRIDGE CODE.
 - ANGLE OF REPOSE OF BACK-FILL FOR DESIGN PURPOSE IS ASSUMED AS 30 DEGREE.
 - BACK-FILL SHALL CONSIST OF WELL PACKED BOULDERS TO THICKNESS OF NOT LESS THAN 600mm AND SHALL CONFORM TO I.R.S. BRIDGE SUB-STRUCTURE & FOUNDATION CODE.
 - KEEP HOLES IN WING & RETURN WALL SHALL BE OF 100 DIA. A.C. PIPE STAGGERED AT 1500 CTRS. HORIZONTALLY AND 1000 VERTICALLY AS PER I.R.S. BRIDGE SUB-STRUCTURE & FOUNDATION CODE. BED LEVEL AND FORMATION LEVEL ARE INDICATED AS AT CENTER LINE OF BRIDGE AND TRACK.
 - STONE PITCHING ON SLOPES OF EMBANKMENT SHALL BE PROVIDED FOR A MINIMUM LENGTH OF 0.6m BEYOND RETURN WALLS.
 - CLEAR COVER TO MAIN REINFORCEMENT---50mm.
 - HIGH YIELD STRENGTH TMT BARS OF GRADE Fe500 CONFORMING TO IS: 1786-1985 SHALL BE USED AS REINFORCEMENT WITH A MINIMUM YIELD STRENGTH OF 500 N/56mm.
 - FOR DETAIL OF SUPER STRUCTURE REF. RDSO STANDARD DRAWING NO. FOR 30.5M COMPOSITE GIRDER RDSO/B-17054/R1. FOR APPROACH SLAB RDSO CBS 0016. FOR FOOTPATH RDSO DRG. CBS 0045.
 - SUPER STRUCTURE CONTAINING THE CROSSOVER PORTION IS TO BE DESIGNED.
 - GROUND LEVEL BEYOND DOWN STREAM SIDE SHOULD BE SUSTAINABLE CAPACITY/PILE CAPACITY SHALL BE INCORPORATED AFTER RECEIVING THE RECOMMENDATION FROM THE CONCERN AGENCY.
 - STRUCTURE IS TO BE DESIGNED FOR SEISMIC ZONE IV AS PER IRIS SEISMIC CODE 2020 & SITE SPECIFIC STUDIES.
 - SBC 447/A2 IS ASSUMED.
 - RCC BORED PILE SHOULD BE AS PER (I2911(PART1)/SEC2) LATEST.
 - BOTH VERTICAL AND HORIZONTAL TEST SHALL BE CARRIED OUT IN PILES AS PER I2911 PART IV.
 - TROUBLE REFUSE PROVIDED AS PER RDSO REQUIREMENT.
 - NO. OF PILES AND OTHER DIMENSIONS OF FOUNDATION AND SUB STRUCTURE ARE TENTATIVE AND IT MAY BE CHANGED AFTER FINALIZATION OF DESIGN DOCUMENT BY IRCON.
 - BOULDER ARRESTERS ARE TO BE PROVIDED AT THE UPSTREAM AS PER SITE CONDITION.
34. Transition System provided as per RDSO report No - GE-R50
35. Approach Slab as per RDSO drawing No. GT/JSK/ GL/0 238/ Rev. 0/2002

LEGENDS:-

RAIL LEVEL	: R.L.
FORMATION LEVEL	: F.L.
GROUND LEVEL	: G.L.
NATURAL SOIL LEVEL	: N.S.L.
CHAINAGE	: CH.
ABUTMENT CAP TOP LEVEL	: A.C.T.L.
ABUTMENT CAP BOTTOM LEVEL	: A.C.B.L.
PIER CAP BOTTOM LEVEL	: P.C.B.L.
TOP OF FOUNDATION	: T.O.F.
BOTTOM OF FOUNDATION	: B.O.F.
BOTTOM OF GIRDER	: B.G.
BOUNDARY OF ACQUIRED LAND	: ---

BRIDGE NO	CHAINAGE IN M	BETWEEN STATION	TYPE	SPAN IN M	RAIL LEVEL IN M	FORMATION LEVEL IN M	BED LEVEL IN M	HEIGHT OF BANK IN M	H.F.L. IN M	SCOUR LEVEL	SLOPE OF RIVER	NAME OF RIVER	VERTICAL CLEARANCE IN M	FREE BOARD IN M	BALLAST CUSHION IN M	VELOCITY IN M/SEC	DESIGN DISCHARGE IN CUMEC
10	26591.14 m	Tista Bazar - Rangpo	Composite Girder	4x30.5m	279.83	279.09	236.915	11.997	239.915	---	1:12	MANGBAR KHOLA	36.325	39.178	0.300	6.0	249.6

IRCON	N.F. Railway																			
JGM/SRRP	CGM/PH/SRRP	XEN/CON/NJP N.F.RAILWAY	DY.CE/CON/NJP N.F.RAILWAY	SSE/CD/MLG N.F.RAILWAY	SSE/DRG/CON/MLG N.F.RAILWAY	AXEN/CON/D-3/MLG N.F.RAILWAY	DY.CE/CON/D-1/MLG N.F.RAILWAY	CE/CON-3/MLG N.F.RAILWAY												

	CLIENT:	DESIGNED:	PROJECT TITLE:	Rev. No.	Description	Date	Scale	AS SHOWN	LOCATION:	TAR KHOLA
	DETAILED DESIGN CONSULTANCY OF ALL STURCTURES INCLUDING TUNNELS, BRIDGES/VIADUCTS, STATION YARD & ASSOCIATED WORKS & CONSTRUCTION SUPERVISION OF TUNNELS BETWEEN CH:26.570 TO CH: 33.530 KM IN CONNECTION WITH CONSTRUCTION OF SIVOK TO RANGPO NEW SINGLE BG RAILWAY LINE PROJECT			R5	REVISED AS PER COMMENTS	27.06.2020	Drawn	PV	DRAWING TITLE:	GENERAL ARRANGEMENTS DRAWING
				R4	REVISED AS PER COMMENTS	21.01.2019	Checked	ND	DRAWING NO.:	4x30.5m Composite Girder (Sheet 1 of 2)
				R3	REVISED AS PER COMMENTS	10.10.2018	Approved	B.B.SARAN	DRAWING NO.:	D2-PEMS/NFR/IRCON/SIVOK-RANGPO/GAD/BR.10
				R2	REVISED AS PER COMMENTS	09.05.2018	Date	25.05.2015	Rev. no.	R5
				R1	REVISED AS PER COMMENTS	28.09.2015				
				RO	INITIAL SUBMISSION	25.05.2015				