

DESIGN AND CONSTRUCTION OF CIVIL, STRUCTURES AND TRACK WORKS, INVOLVING FORMATION IN EMBANKMENT / CUTTING, BALLAST ON FORMATION, TRACK WORKS, BRIDGES, STRUCTURES, BUILDINGS, YARDS & INTEGRATION WITH INDIAN RAILWAY'S EXISTING RAILWAY SYSTEM AND TESTING & COMMISSIONING ON DESIGN-BUILD LUMP SUM BASIS OF KHURJA-PILKHANI SECTION (APPROXIMATELY 222 ROUTE KM OF SINGLE LINE) OF EASTERN DEDICATED FREIGHT CORRIDOR

CIVIL, STRUCTURES AND TRACK WORKS

Contract Package: 303

ICB No. HQ/EN/EC/D-B/KHURJA PILKHANI SECTION

PART - 4 - REFERENCE DOCUMENT

BRIDGE DRAWINGS - VOLUME - 5.2

KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.500 (SRE-UMB)

GAD BRIDGES

EMPLOYER DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED (A GOVERNMENT OF INDIA ENTERPRISES) MINISTRY OF RAILWAYS **COUNTRY : INDIA**

CONTENTS BRIDGE DRAWING (CONTRACT PACKAGE 303)						CONTENTS BRIDGE DRAWING (CONTRACT PACKAGE 303)				
SL. NO.	DESCRIPTION	DRAWING NO.	REVISION NO.	REMARKS	SL. NO.	DESCRIPTION	DRAWING NO.	REVISION NO.	REMARKS	
1	GAD FOR ROB NO. 219A	AECOM/303/ROB/219A	RO		31	GAD FOR MAJOR BRIDGE NO. D/MOZ 61	AECOM/303/MJR/ D/MOZ 61	RO		
2	GAD FOR MAJOR BRIDGE NO.11	AECOM/303/MJR/11	RO		32	GAD FOR MAJOR BRIDGE NO. D/MOZ 71	AECOM/303/MJR/ D/MOZ 71	R0		
3	GAD FOR MAJOR BRIDGE NO.32&32A	AECOM/303/MJR/32&32A	RO		33	GAD FOR MAJOR BRIDGE NO. D/MOZ 81	AECOM/303/MJR/ D/MOZ 81	R0		
4	GAD FOR MAJOR BRIDGE NO.85	AECOM/303/MJR/85	RO		34	GAD FOR MAJOR BRIDGE NO. D/MOZ 90	AECOM/303/MJR/ D/MOZ 90	R0		
5	GAD FOR MAJOR BRIDGE NO. D/MTC 1	AECOM/303/MJR/D/MTC 1	RO		35	GAD FOR MAJOR BRIDGE NO. D/MOZ 104	AECOM/303/MJR/ D/MOZ 104	R0		
6	GAD FOR MAJOR BRIDGE NO. D/MTC 4	AECOM/303/MJR/D/MTC 4	RO		36	GAD FOR MAJOR BRIDGE NO.210	AECOM/303/MJR/210	R0		
7	GAD FOR MAJOR BRIDGE NO. D/MTC 40	AECOM/303/MJR/D/MTC 40	RO		37	GAD FOR MAJOR BRIDGE NO.219	AECOM/303/MJR/219	R0		
8	GAD FOR MAJOR BRIDGE NO. D/MTC 139	AECOM/303/MJR/D/MTC 139	RO		38	GAD FOR MAJOR BRIDGE NO.227	AECOM/303/MJR/227	R0		
9	GAD FOR MAJOR BRIDGE NO. D/MTC 163	AECOM/303/MJR/D/MTC 163	RO		39	GAD FOR RFO NO. 1	AECOM/303/RFO/1	R0		
10	GAD FOR MAJOR BRIDGE NO. D/MTC 180	AECOM/303/MJR/D/MTC 180	RO		40	GAD FOR RFO NO. 2	AECOM/303/RFO/2	R0		
11	GAD FOR MAJOR BRIDGE NO. D/MTC 182	AECOM/303/MJR/D/MTC 182	R0		41	GAD FOR RFO NO. 3	AECOM/303/RFO/3	R0		
12	GAD FOR MAJOR BRIDGE NO. D/MTC 190	AECOM/303/MJR/D/MTC 190	R0		42	GAD FOR RFO NO. 4	AECOM/303/RFO/4	R0		
13	GAD FOR MAJOR BRIDGE NO. D/MTC 207	AECOM/303/MJR/D/MTC 207	RO		43	GAD FOR MJ - RUB NO. D/MTC 3	AECOM/303/MJ-RUB/D/MTC 3	RO		
14	GAD FOR MAJOR BRIDGE NO. D/MTC 212	AECOM/303/MJR/D/MTC 212	RO		44	GAD FOR MJ - RUB NO. D/MTC 19	AECOM/303/MJ-RUB/D/MTC 19	RO		
15	GAD FOR MAJOR BRIDGE NO. D/MTC 214	AECOM/303/MJR/D/MTC 214	RO		45	GAD FOR MJ - RUB NO. D/MTC 27	AECOM/303/MJ-RUB/D/MTC 27	R0		
16	GAD FOR MAJOR BRIDGE NO. D/MTC 217	AECOM/303/MJR/D/MTC 217	RO		46	GAD FOR MJ - RUB NO. D/MTC 55	AECOM/303/MJ-RUB/D/MTC 55	R0		
17	GAD FOR MAJOR BRIDGE NO. D/MTC 224	AECOM/303/MJR/D/MTC 224	RO		47	GAD FOR MJ - RUB NO. D/MTC 69	AECOM/303/MJ-RUB/D/MTC 69	R0		
18	GAD FOR MAJOR BRIDGE NO. D/MTC 237	AECOM/303/MJR/D/MTC 237	R0		48	GAD FOR MJ - RUB NO. D/MTC 90	AECOM/303/MJ-RUB/D/MTC 90	R0		
19	GAD FOR MAJOR BRIDGE NO. D/MTC 241	AECOM/303/MJR/D/MTC 241	R0		49	GAD FOR MJ - RUB NO. D/MTC 92	AECOM/303/MJ-RUB/D/MTC 92	R0		
20	GAD FOR MAJOR BRIDGE NO. D/MTC 246	AECOM/303/MJR/D/MTC 246	R0		50	GAD FOR MJ - RUB NO. D/MTC 115	AECOM/303/MJ-RUB/D/MTC 115	R0		
21	GAD FOR MAJOR BRIDGE NO. D/MTC 269	AECOM/303/MJR/D/MTC 269	R0		51	GAD FOR MJ - RUB NO. D/MTC 120	AECOM/303/MJ-RUB/D/MTC 120	RO		
22	GAD FOR MAJOR BRIDGE NO. D/MTC 282	AECOM/303/MJR/D/MTC 282	R0		52	GAD FOR MJ - RUB NO. D/MTC 138	AECOM/303/MJ-RUB/D/MTC 138	RO		
23	GAD FOR MAJOR BRIDGE NO. D/MTC 286	AECOM/303/MJR/D/MTC 286	RO		53	GAD FOR MJ - RUB NO. D/MTC 144	AECOM/303/MJ-RUB/D/MTC 144	RO		
24	GAD FOR MAJOR BRIDGE NO.154	AECOM/303/MJR/154	RO		54	GAD FOR MJ - RUB NO. D/MTC 146	AECOM/303/MJ-RUB/D/MTC 146	RO		
25	GAD FOR MAJOR BRIDGE NO. D/MOZ 4	AECOM/303/MJR/ D/MOZ 4	RO		55	GAD FOR MJ - RUB NO. D/MTC 162	AECOM/303/MJ-RUB/D/MTC 162	R0		
26	GAD FOR MAJOR BRIDGE NO. D/MOZ 12	AECOM/303/MJR/ D/MOZ 12	RO		56	GAD FOR MJ - RUB NO. D/MTC 171	AECOM/303/MJ-RUB/D/MTC 171	RO		
27	GAD FOR MAJOR BRIDGE NO. D/MOZ 25	AECOM/303/MJR/ D/MOZ 25	R0		57	GAD FOR MJ - RUB NO. D/MTC 198	AECOM/303/MJ-RUB/D/MTC 198	R0		
28	GAD FOR MAJOR BRIDGE NO. D/MOZ 30	AECOM/303/MJR/ D/MOZ 30	R0		58	GAD FOR MJ - RUB NO. D/MTC 206	AECOM/303/MJ-RUB/D/MTC 206	R0		
29	GAD FOR MAJOR BRIDGE NO. D/MOZ 37	AECOM/303/MJR/ D/MOZ 37	R0		59	GAD FOR MJ - RUB NO. D/MTC 215	AECOM/303/MJ-RUB/D/MTC 215	R0		
30	GAD FOR MAJOR BRIDGE NO. D/MOZ 59	AECOM/303/MJR/ D/MOZ 59	R0		60	GAD FOR MJ - RUB NO. D/MTC 235	AECOM/303/MJ-RUB/D/MTC 235	R0		

GENERAL CO	NSULTANT		AF
AECOM	AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA	CONTENTS BRIDGE DRAWING (303)	. डेडीकेटेड फ्रेंट कोरीडोर PROJECT

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)

EASTERN CORRIDOR

KHURJA TO PILKHANI

	CONTENTS BRIDG	E DRAWING (CONTRACT PA	CKAGE 303)	E 303) CONTENTS BRIDGE DRAWING (CONTRACT PACKAGE 303)						
SL. NO.	DESCRIPTION	DRAWING NO.	REVISION NO.	REMARKS	SL. NO.	DESCRIPTION	DRAWING NO.	REVISION NO.	REMARKS	
61	GAD FOR MJ - RUB NO.D/MTC 244	AECOM/303/MJ-RUB/D/MTC 244	RO		\rightarrow		\rightarrow	RO		
62	GAD FOR MJ - RUB NO.D/MTC 273	AECOM/303/MJ-RUB/D/MTC 273	RO					R0		
63	GAD FOR MJ - RUB NO. D/MOZ 3	AECOM/303/MJ-RUB/ D/MOZ 3	RO					R0		
64	GAD FOR MJ - RUB NO. D/MOZ 11	AECOM/303/MJ-RUB/ D/MOZ 11	RO					R0		
65	GAD FOR MJ - RUB NO. D/MOZ 22	AECOM/303/MJ-RUB/ D/MOZ 22	RO					R0		
66	GAD FOR MJ - RUB NO. D/MOZ 26	AECOM/303/MJ-RUB/ D/MOZ 26	RO					RO		
67	GAD FOR MJ - RUB NO. D/MOZ 28	AECOM/303/MJ-RUB/ D/MOZ 28	RO					RO		
68	GAD FOR MJ - RUB NO. D/MOZ 33	AECOM/303/MJ-RUB/ D/MOZ 33	RO					R0		
69	GAD FOR MJ - RUB NO. D/MOZ 50	AECOM/303/MJ-RUB/ D/MOZ 50	RO					R0		
70	GAD FOR MJ - RUB NO. D/MOZ 52	AECOM/303/MJ-RUB/ D/MOZ 52	RO					R0		
71	GAD FOR MJ - RUB NO. D/MOZ 55	AECOM/303/MJ-RUB/ D/MOZ 55	R0					R0		
72	GAD FOR MJ - RUB NO. D/MOZ 74	AECOM/303/MJ-RUB/ D/MOZ 74	R0					R0		
73	GAD FOR MJ - RUB NO. D/MOZ 82	AECOM/303/MJ-RUB/ D/MOZ 82	RO					RO		
74	GAD FOR MJ - RUB NO. D/MOZ 84	AECOM/303/MJ-RUB/ D/MOZ 84	RO					RO		
75	GAD FOR MJ - RUB NO. D/MOZ 88	AECOM/303/MJ-RUB/ D/MOZ 88	RO					R0		
76	GAD FOR MJ - RUB NO. D/MOZ 105	AECOM/303/MJ-RUB/ D/MOZ 105	RO					R0		
77	GAD FOR MJ - RUB NO. D/MOZ 111	AECOM/303/MJ-RUB/ D/MOZ 111	RO					R0		
78	GAD FOR MJ - RUB NO. D/MOZ 118	AECOM/303/MJ-RUB/ D/MOZ 118	RO					R0		
79	GAD FOR MJ - RUB NO. D/MOZ 120	AECOM/303/MJ-RUB/ D/MOZ 120	RO					R0		
80	GAD FOR MJ - RUB NO. D/MOZ 128	AECOM/303/MJ-RUB/ D/MOZ 128	R0					R0		
81	TYPICAL GAD FOR MINOR BRIDGE (1X4X4m)	AECOM/303/MI/TYPICAL/1	R0					R0		
82	TYPICAL GAD FOR MINOR RUB (1X5.5X4.5m)	AECOM/303/MNR-RUB/TYPICAL/1	R0					RO		
			RO					RO		
			RO					RO		
			RO					RO		
			RO					RO		
			R0					RO		
			R0					R0		
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	AECOM	AECOM Asia Co. Ltd.	CONTENTS BRIDGE	. डेडीकेटेड फ्रेंट कोरीडोर	
		9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA	DRAWING		E
			(303)	PROJECT	

ATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. (A GOVERNMENT OF INDIA ENTERPRISE)

EASTERN CORRIDOR

KHURJA TO PILKHANI

Contract Package: 303

KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

GAD OF ROBS



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE

ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE-i) IRS BRIDGE RULES: ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (325 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED (HYSD)/ THERMO MECHANICAL TREATED (TMT) BARS OF GRADE FG-500 SATISTYING THE REQUIREMENT OF IS: I78-1985 SHALL BE USED AS REINFORCEMENT. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.

ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL). THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS DIMENSIONS SHALL BE APPROVED BY PROCL. WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/ BALAST RETAINER. D RAINAGE OF DECK SHALL BE PROVIDED I IN 40 (CROSS SLOPE) VIDE CLAUSE 15.2.1 OF IRS CONCRETE BRIDGE CODE. 1. TOP OF SLABBOX SHALL HAVE A WEARING COURSE OF I IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE. WORKS CHEME SHALL BE RICH THAT ADIACENT IP TRACK IS NOT ADDRAFT.

TOP OF SLAB.BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE.
WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IFT IS INSECAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE APPROVED BY THE SITE ENGINEER.
THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL (RL) HAS BEEN ASSUMED AS 730mm.
PROPER OUTLETS ON DIS SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED.
SUIT ABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DEC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF HOW FROM THESE DRAINS.
SAFE BEARING CAPACITY OF SOLL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
BED SLOPF SHALL BE ADJUSTED AS PER THE STIE CONDITION IT SHOULD BE KEPT MINIMUM AS 1:100.
THE GAD SHAULD SAIL BE ADJUSTED AS PER THES THE CONDITION TO SHOULD BE KEPT MINIMUM AS 1:101.
SUTTED SHALL BE ADJUSTED AS PER THES THE CONDITION FOR DISCHARGE ON STRUCTION WORK. IT SHALL BE OFTAMED PSOVED SCHEDULE OF DIMENSION FOR DISCHARGE ON STRUCTION WORK. AS ISLAND BE CONSTRUCTION FOR DISCHARGE OFTAMED PSOVED SCHEDULE DE THE MINIMUM AS 1:100.
THE GAD SHOULD SAILL BE OFTAMED FOR PROPOSED SCHEDULE OF DIMENSION FOR DISCHARGE SANDY AND AS ISLAND.
SANTE BEAD SLOPE SHALL BE ADJUSTED AS PER THE STIE CONDITION TOR SHOULD BE KEPT MINIMUM AS 1:100.
SANTE MALL BE OBTAINED FOR PROPOSED WORK AS PER IR/WM.

THE GAD SHOLLD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.
THE GAD SHOLLD SATISFY THE LATEST APPROVED WORK AS PER IRPWM.
R.C.C. CRASH BARRIER WILL BE FROUTDED AS FPER APPROVED DRAWING.
DESIGN SHALL BE AS PER LATEST RELEVANT CODE OF IRC AND OTHER CODE AS PER APPROVED BY MOST.
TEMP. SIGNALING ARRANGEMENT WILL BE DONE AS PER G.R. 15.09 (0) d& S.R. 15.09 (2) OR GR 15.09 (2) d& S.R. 15.09 (2) WHICH EVER IS ADOPTABLE IF REQUIRED.
LOADING BRIDGE SHALL BE DESIGNED FOR ONE LANE OR CLASS AA/TOR LOADING OR DOUBLE LANES OF CLASS A WHICH EVER PRODUCES THE MAXIMUM STRESSES.
PROVISION OF CLAMPS IN THE SUPERSTRUCTURE FOR SUPPORTING AC TRACTION WIRE TO BE MADE IN CONSULTATION WITH THE CONCENSE DAUTHORITY.
TEMPORARY ARRANGEMENT DRAWING OR METHODOLOGY FOR LAUNCHING OF GIRDERS OVER RAILWAY TRACK AND CONSTRUCTION OF FOUNDATIONSUBSTRUCTURE ADJACENT TO RAILWAY TRACK SHOULD BE GOT APPROVED FROM RAILWAY AUTHORITY BEFORE STARTING OF WORK.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd.

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MODIFICATION OF ROB. NO. 219A SPAN (1X6X7.17m) AT CH. 109145

NBY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/ROB/219A	R

Contract Package: 303

KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

GAD OF MAJOR BRIDGES



ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED (HYSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL). THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCCIL. TOP SURFACE AND SIDE OF BOX SHALL BE GIVEN TWO COATS OF COAL TAR OR BITUMEN CONFORMING TO IS: 3070-1965 BEFORE FILLING OF EARTH. 10. WEEP HOLES SHALL BE OF 75mm DIA. PVC PIPE STAGGERED @ 1000mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 11. WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/

 DRAINAGE OF DECK SHALL BE PROVIDED 1 IN 40 (CROSS SLOPE) VIDE CLAUSE 15.2.2.1 OF IRS CONCRETE BRIDGE CODE.
TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE

 TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE.
WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN

WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.

 THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE APPROVED BY THE SITE ENGINEER.

16. THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL (FL) HAS BEEN ASSUMED AS 730mm.

 PROPER OUTLETS ON D/S SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED.
SUITABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DFC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF FLOW FROM THESE DRAINS.
SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT

 IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL AUTHORITY BY THE CONTRACTOR WELL IN TIME.

22. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR BR. NO. 11 SPAN (3X6) AT CH. 6950

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR/11	R0





1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT

AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.

18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.

19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR BR. NO. 32 & 32A SPAN (6X18.3+2X30.5m) AT CH. 14508

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR/32&32A SHEET 2 OF 2	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE

DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF

iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.

b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED (HYSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS

BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND

ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL). THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCIL. TOP SURFACE AND SIDE OF BOX SHALL BE GIVEN TWO COATS OF COAL TAR OR BITUMEN

CONFORMING TO IS: 3070-1965 BEFORE FILLING OF EARTH. 10. WEEP HOLES SHALL BE OF 75mm DIA. PVC PIPE STAGGERED @ 1000mm C/C

HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 11. WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/

12. DRAINAGE OF DECK SHALL BE PROVIDED 1 IN 40 (CROSS SLOPE) VIDE CLAUSE 15.2.2.1 OF IRS CONCRETE BRIDGE CODE.

13. TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE.

WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 15. THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF

SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE

16. THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL

PROPER OUTLETS ON D/S SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED. 18. SUITABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DFC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF FLOW FROM THESE DRAINS. 19. SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 20. BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT

MINIMUM AS 1:100. 21. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL AUTHORITY BY

22. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd.

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR BR. NO. 85 SPAN (3X6) AT CH. 33710

CHECKED	BY	APPROVED B	DRG. NO.	REV.
			AECOM/303/MJR/85	R0



ii) IRS CONCRETE BRIDGE CODE iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. h) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16 WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 1 SPAN (1X45.7m) AT CH. 1171.946 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. AECOM/303/MJR/D/MTC1 R0



1.	ALL DIN OTHERW	IENSIONS AI	RE IN mm AND A	ALL LEV	'ELS IN	METERS UNLESS	
2.	a) CODE OF PREF	S TO BE FOI ERENCE:-	LOWED (WITH	LATEST	CORR	ECTIONS SLIP) IN ORDER	
i) ii	IRS BRI	DGE RULES. NCRETE BRI	DGE CODE.				
iii iv) IRS BRI) RELEV	DGE SUBSTI ANT IRC CO	RUCTURE AND DES OF PSC.	FOUNDA	ATION	CODE.	
v) RELEV	ANT BIS CO	DES.		DING	32.5 ΤΩΝ ΔΧΙ ΕΙ ΩΔΩ)	
3.	HIGH YI	ELD STRENG	GTH DEFORMED)/ TMT B	AR OF	GRADE Fe-500 SATISFYING	
4.	ALL DIM	IENSIONS A	ND LEVELS SHO	85 SHAL DULD BE	E VERIF	TED & RECONCILED	
5.	BEFORE BACK FI	EXECUTION LL SHOULD	↓. BE AS PER CLA	USE 7.5	OF IRS	BRIDGE SUB-STRUCTURE	
6.	AND FO SAFE BE	UNDATION (ARING CAP	CODE. ACITY OF SOIL :	SHALL E	BE DET	ERMINED BY SUITABLE	
	METHOI MAXIMU) BEFORE CO JM FOUNDA	ONSTRUCTION TION PRESSUR	WORK. I E.	T SHAI	LL BE GREATER THAN	
7. 8.	TRACK (MESH RI	ON BRIDGE S	SHOULD BE WIT	TH GUAH PROVID	RD RAI ED AT	LS. THE TOP OF RCC	
	PEDEST	AL UNDER T	THE BEARING I	N TWO L	AYERS	S OF 8 mm TOR @ 75 C/C	
0	BEING A	T 100 MM D	ISTANCE FROM	1 THE TO	OP OF R	CC PEDESTAL	
9.	HAS TO	DESIGN SUI	TABLE FOUND	GAD IS I	UBTRU	CTURE AS PER THE SOIL	
10.	STRATA IN CASE	AND CAN C PILE FOUNI	HANGE THE PR DATION IS USEI	OPOSED O THE RE	ELEVA	DATION. NT BIS CODE FOR PILE	
11.	FOUNDA IN CASE	TION AND T WELL FOUN	TESTING WILL I NDATION IS USI	BE FOLL ED THE F	OWED. RELEV	ANT IRS CODE & IRC CODE	
	FOR WE	LL FOUNDA' ENCE.	TION SHALL BE	FOLLO	WED IN	NTHAT ORDER OF	
12.	IN CASE	THE PROPO	SED BRIDGE IS NGS AS REOLUE	CROSSI ED SHA	NG A C	ANAL/ROAD, THE GAD	
	CONCER	NED CANAI	/ROAD AUTHO	RITY BY	THE C	CONTRACTOR WELL IN	
13.	THE GAI	O SHOULD S	ATISFY THE LA	TEST AF	PROVI	ED SCHEDULE OF	
14.	WEEP H	OLES SHALL	BE OF 75 mm D	IA. PVC	PIPE S	TAGGERED @ 1000 mm C/C	
15.	HORIZO STONE F	NTALLY AN ITCHING SH	D VERTICALLY ALL BE 300 mm	OVER 1	GH RE 50 mm	FURN WALL/ABUTMENT FILTER MATERIAL IN	
16.	PROTEC WORK S	TION WORK CHEME SHA	S LL BE SUCH TH	IAT ADJ.	ACENT	IR TRACK IS NOT	
	AFFECT	ED IN ANY V CIDE THE IN	VAY. HOWEVER MPOSITION OF 1	R, IF IT IS FEMPOR	S INESC ARY SI	CAPABLE, THE ENGINEER PEED RESTRICTION.	
17.	CC WEA THICKN	RING COURS	SE OF MINIMUN n WITH A CROS	4 M - 35 (S SLOPE	GRADE	E AND MINIMUM N 40 SHALL BE PROVIDED	
19	ON DECI	K.	I OW WRITTEN	DIMENS			
18. 19.	THIS GA	D IS TENTA	FIVE AND IS ME	EANT ON	LY FO	R GUIDANCE OF THE	
	BIDDER. CONTRA	ALL THE EN	NGINEERING DE ER SITE CONDIT	ETAILS A TIONS AN	ARE TO VD EMI	BE DESIGNED BY THE PLOYER'S REQUIREMENT.	
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	Г		1507 (ALJ	N-GZ	Б) Ю	KIII 187.3 (SKE-UMD)	
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RUCI	URE	F	ROPOSED	MAJ	OR B	R. NO. D/MTC 4	
			SPAN (2X	45.7m	i) AT	CH. 2306.031	
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1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC v) RELEVANT BIS CODES. KLELVARI BIS CODES.
LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 40 SPAN (1X18.3m) AT CH. 8976.570 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC40



2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. h) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16 WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 139 SPAN (1X45.7m) AT CH. 27290 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. AECOM/303/MJR/D/MTC139 R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC v) RELEVANT BIS CODES. KLELVARI BIS CODES.
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BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 163 SPAN (1X18.3m) AT CH. 33050 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC163



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 180 SPAN (1X12.2m) AT CH. 38580 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC180



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 182 SPAN (1X12.2m) AT CH. 39120 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC182



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 190 SPAN (1X12.2m) AT CH. 41916 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC190



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 207 SPAN (1X12.2m) AT CH. 46635 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC207



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 212 SPAN (1X12.2m) AT CH. 48122 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC212



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 214 SPAN (1X12.2m) AT CH. 48405 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC214



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 217 SPAN (1X12.2m) AT CH. 49280 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC217



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
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b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 224 SPAN (1X12.2m) AT CH. 51670 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC224



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
iii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 237 SPAN (1X12.2m) AT CH. 55850 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC237



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. h) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED ALL DIMENSION AND LEVELS OF OUP DE LEUR AD AUTOMATION
BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16 WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 241 SPAN (1X45.7m) AT CH. 56780 GENERAL ARRANGEMENT DRAWING

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR/D/MTC241	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC v) RELEVANT BIS CODES. KLELVARI BIS CODES.
LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 246 SPAN (1X18.3m) AT CH. 58400 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC246



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC v) RELEVANT BIS CODES. KLELVARI BIS CODES.
LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 269 SPAN (1X18.3m) AT CH. 63570 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC269



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. h) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16 WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 282 SPAN (1X45.7m) AT CH. 65740 GENERAL ARRANGEMENT DRAWING DRG. NO. REV.

AECOM/303/MJR/D/MTC282

R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 286 SPAN (1X12.2m) AT CH. 66435 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MTC286



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KHURJA TO PILKHANI 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)	
NTRACT PACKAGE - 303	
PROPOSED MAJOR BR. NO. 154 SPAN (3X30.5m) AT CH. 102840	
ENERAL ARRANGEMENT DRAWING	
CHECKED BY APPROVED BY DRG. NO.	REV.
AECOM/303/MJR/154 SHEET 1 OF 2	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REOUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL . THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. 154 SPAN (3X30.5m) AT CH. 102840

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR/154 SHEET 2 OF 2	R0





1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:-

iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.

REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT.

ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCLUED BEFORE EXECUTION.
BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION

6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.

8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE

PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND

 IN CASE WELL FOULDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.
IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY

 THE GONTRACTOR WELL IN TIME.
THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT

 STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS
WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY

CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.

18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.

19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

				1	NDICATIVE DRAWI	NG	
DEDICATI CORPOR				ATED F ORATIO	ED FREIGHT CORRIDOR ATION OF INDIA LTD.		
GENERAL CONSULTANT A			AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY				
DLF PHASE				SE II GUR	II GURGAON 122002, INDIA		
EASTERN CORRIDOR							
PROJECT KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)							
CONTRACT PACKAGE - 303							
STRUCTURE PROPOSED MAJOR BR. NO. D/MOZ 4 SPAN (1X30.5+1X61+1X30.5m) AT CH. 1980							
TITLE GENERAL ARRANGEMENT DRAWING							
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.	
NTS	JUNE 2016				AECOM/303/MJR/D/MOZ4 SHEET 2 OF 2	R0	



2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. h) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16 WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 12 SPAN (1X45.7m) AT CH. 6550 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. AECOM/303/MJR/D/MOZ12 R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. KLELVARI BIS CODES.
LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 25 SPAN (1X18.3m) AT CH. 11753 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ25


1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
 iii) IRS CONCRETE BRIDGE CODE.
 iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
 b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 30 SPAN (1X12.2m) AT CH. 14150 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ30



OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
 iii) IRS CONCRETE BRIDGE CODE.
 iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
 b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 37 SPAN (1X12.2m) AT CH. 17790 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ37



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
 iii) IRS CONCRETE BRIDGE CODE.
 iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
 b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 59 SPAN (1X12.2m) AT CH. 25880 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ59



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC v) RELEVANT BIS CODES. KLELVARD BIG COBES.
 LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 61 SPAN (1X18.3m) AT CH. 26285 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ61



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. KLELVARD BIG COBES.
 LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 71 SPAN (1X18.3m) AT CH. 27960 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ71



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
 iii) IRS CONCRETE BRIDGE CODE.
 iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
 b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 81 SPAN (1X12.2m) AT CH. 29985 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ81



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE KULES.
 iii) IRS CONCRETE BRIDGE CODE.
 iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
 b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 90 SPAN (1X12.2m) AT CH. 32300 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ90



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT IRC CODES OF PSC. b) NULLEVANT BIS CODES.
 b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF US 1786-1985 SHALL BE USED AS REINFORCEMENT 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 104 SPAN (1X12.2m) AT CH. 34600 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/D/MOZ104





1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REOUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL . THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD. THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY HOWEVER IF IT IS INESCAPABLE. THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. 210 SPAN (4X30.5m) AT CH. 101275

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AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA						
EASTERN CORRIDOR KHURJA TO PILKHANI 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)						
NTRACT PACKAGE - 303						
PROPOSEI SPAN (3X2	D MAJOR I 24.4m) AT (BR. NO. 219 CH. 108719				
ENERAL AR	RANGEME	ENT DRAWING				
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1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REOUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL . THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD. THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303**

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY

PROPOSED MAJOR BR. NO. 219 SPAN (3X24.4m) AT CH. 108719

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		AECOM/303/MJR/219 SHEET 2 OF 2	R0



i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. h) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL/ROAD, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL/ROAD AUTHORITY BY THE CONTRACTOR WELL IN TIME. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16 WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. 227 SPAN (1X24.4m) AT CH. 113415 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR/227

Contract Package: 303

KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

GAD OF RFOs



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RAL	CONSU	LTANT	AECON	Asia (Co. Ltd.	
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			EASTE	RN CO	RRIDOR	
JEC	ст F	from Km	KHUR 1367 (ALJ	UA TO PII N-GZB) to	LKHANI Km 187.5 (SRE-UMB)	
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JCI	TURE	SPAN	PROP((1X9.15+1)	OSED RFC K48.0+1X24) BR. NO. 1 4.4) AT CH1549.690	
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E.	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
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SHEET 1 OF 2



INDICATIVE DRAWING

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RAL	. CONSU	LTANT	AECON	Asia (Co. Ltd.			
ЕСОМ			9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA					
			EASTE	RN COI	RRIDOR			
JEC	IECT KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)							
CONTRACT PACKAGE - 303								
CTURE PROPOSED RFO BR. NO. 1 SPAN (1X9.15+1X48.0+1X24.4) AT CH1549.690								
GENERAL ARRANGEMENT DRAWING								
E	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.		
	JUNE 2016				AECOM/303/RFO/1 SHEET 2 OF 2	R0		





SECTION OF RETURN WALL AT C-C





TYPICAL CROSS SECTION FOR 30.5m SPAN





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PROJE	PROJECT KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)						
CONTRACT PACKAGE - 303							
STRUCT	STRUCTURE PROPOSED RFO BR. NO. 2 SPAN (1X9.15+1X30.5+1X9.15) AT CH. 14069.707						
TITLE GENERAL ARRANGEMENT DRAWING							
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.	
NTS	JUNE 2016				AECOM/303/RFO/2 SHEET 2 OF 2	R0	



-ROV-		- DFCE-	Prop. Span	RFO B 1x45.7	r <u>. No. 3 Ch: 34986</u> +2x9.15 Steel Girde	r
-RDW-		DFCC+F	?⊡₩	DFCC-RD	w	
AND ALL WITH LA	. LEVELS TEST CO	S IN METERS	S UNLESS OTHE	RWISE ER OF		
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R CLAUS SOIL SHA RK. IT SH	E 7.5 OF ALL BE E ALL BE (IRS BRIDGE DETERMINEI GREATER TH	SUB-STRUCTU D BY SUITABLE IAN MAXIMUM	RE AND METHOD		
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	CONSU		AECON 9TH FLOO DLF PHAS	vI Asia (DR, INFINI SE II GUR	Co. Ltd. TY TOWER C DLF CYBER GAON 122002, INDIA	CITY
			EASTE	RN CO	RRIDOR	
PROJEC	F F	From Km	1367 (ALJ	N-GZB) to	Km 187.5 (SRE-UMB)	
OTD::	1105	CC	NTRAC	T PACI	KAGE - 303	
SIRUCT	URE	SPA	PROP N (1X9.15+	OSED RFC 1X45.7+1X	9 BR. NO. 3 (9.15) AT CH. 34986	
TITLE		(GENERAL A	RRANGE	/ENT DRAWING	
SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
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TS	2016				AECOM/303/RFO/3 SHEET 2 OF 2	





SECTION OF RETURN WALL AT C-C





TYPICAL CROSS SECTION FOR 30.5m SPAN





INDICATIVE	DRAWING
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RAL	CONSU	LTANT	AECON	Asia (Co. Ltd.		
	CC	M	9TH FLOO DLF PHAS	OR, INFINI SE II GUR	TY TOWER C DLF CYBER GAON 122002, INDIA	CITY	
			EASTE	RN COI	RRIDOR		
JEC	ст F	From Km	KHUR 1367 (ALJ	IA TO PIL N-GZB) to	.KHANI Km 187.5 (SRE-UMB)		
CONTRACT PACKAGE - 303							
JCTURE PROPOSED RFO BR. NO. 4 SPAN (1X9.15+1X24.4+1X9.15) AT CH. 102200							
E GENERAL ARRANGEMENT DRAWING							
E	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.	
	JUNE					R0	

SCALE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	DRG. NO.	RE
NTS	JUNE 2016				AECOM/303/RFO/4 SHEET 2 OF 2	RC

Contract Package: 303

KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

GAD OF MAJOR RUBS





1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. BEFORE EXECUTION.
 BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN WE WITH DEDUCTION DEDUCTION PROCESSION FOR THE STRUCTURE OF THE S MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED

THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.

 THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 3 SPAN (2X90.0m) AT CH. 2108.937

BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC3 SHEET 2 OF 2	R0









SIONS ARE IN mm AND ALL LEVELS IN METE SPECIFIED.	RS UNLESS	
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OR AS PER SITE CONDITIONS AND EMPLOYE	R'S REQUIREMENT.	
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CORPORATION OF	INDIA LTD.	``
AECOM Asia Co. Ltd		
9TH FLOOR, INFINITY TOWER	R C DLF CYBER	CITY
DLF PHASE II GURGAON 12	2002, INDIA	
EASTERN CORRIDO	R	
KHURJA TO PILKHANI	(SDE LIMD)	
11507 (ALJN-OZD) to Kill 187.2	(SKE-UNID)	
ONTRACT PACKAGE -	303	
ROPOSED MAJOR BR. NO. D/N	ATC 55	
SPAN (1X12.2m) AT CH. 10973	.491	
CHECKED BY APPROVED BY	DRG. NO.	REV.
AECOM/30	3/MJR-RUB/D/MTC55	R0
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1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. h) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REOUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. . TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM. DISTANCE FROM THE TOP OF RCC PEDESTAL. 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED

IN DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 69 SPAN (2X61.0m) AT CH. 13841.917

BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC69 SHEET 2 OF 2	R0



SIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS						
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INDICATIVE DRAWING	G					
DEDICATED FREIGHT CORRIDOF CORPORATION OF INDIA LTD.	२					
AECOM Asia Co. Ltd.						
9TH FLOOR, INFINITY TOWER C DLF CYBER C	TY					
EASTERN CORRIDOR	_					
KHURJA TO PILKHANI						
n 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)						
ONTRACT PACKAGE - 303						
ROPOSED MAJOR BR. NO. D/MTC 90 SPAN (1X12.2m) AT CH. 17480.000						
GENERAL ARRANGEMENT DRAWING						
GENERAL ARRANGEMENT DRAWING						
GENERAL ARRANGEMENT DRAWING	REV.					
GENERAL ARRANGEMENT DRAWING	rev. R0					



SIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS SPECIFIED.	
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DEDICATED FREIGHT CORRIDO CORPORATION OF INDIA LTD.	R
AECOM Asia Co. Ltd.	
DLF PHASE II GURGAON 122002, INDIA	ן אוול
EASTERN CORRIDOR	
KHURJA TO PILKHANI n 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)	
ONTRACT PACKAGE - 303	
PROPOSED MAJOR BR. NO. D/MTC 92 SPAN (1X12.2m) AT CH. 17750.165	
GENERAL ARRANGEMENT DRAWING	
CHECKED BY APPROVED BY DRG. NO.	REV.
AECOM/303/MJR-RUB/D/MTC92	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
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INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC115 SPAN (1X45.7m) AT CH. 21550

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC115	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY

DLF PHASE II GURGAON 122002, INDIA

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 120 SPAN (1X18.3m) AT CH. 22850

ſ	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC120	R0





1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL. 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 0. DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 138 SPAN (2X61.0m) AT CH. 27050

ΒY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC138 SHEET 2 OF 2	R0


1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7 TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 8. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. **INDICATIVE DRAWING** DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 144 SPAN (1X12.2m) AT CH. 28455.520 GENERAL ARRANGEMENT DRAWING SCALE DATE DRAWN BY CHECKED BY APPROVED BY DRG. NO. REV. R0 AECOM/303/MJR-RUB/D/MTC144



SIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS SPECIFIED.					
BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER JCE:- RULES.					
ETE BRIDGE CODE. SUBSTRUCTURE AND FOUNDATION CODE. IRC CODES OF PSC.					
BIS CODES. TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING EMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. SIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED					
CUTION. HOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE					
ATION CODE. NG CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE FORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN					
OUNDATION FRESSURE. RIDGE SHOLLD BE WITH GUARD RAILS. ORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC					
JNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER 0 MM DISTANCE FROM THE TOP OF PCC PEDESTAL					
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OULD SATISFY THE LATEST APPROVED SCHEDULE OF S FOR EDFC. S SHALL RE OF 75 mm DIA, PVC PIPE STAGGERED @ 1000 mm C/C					
LLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT HING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN					
N WORKS ME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT N ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER					
E THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. G COURSE OF MINIMUM M - 35 GRADE AND MINIMUM OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED					
LE, FOLLOW WRITTEN DIMENSION ONLY					
TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE L THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE DR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.					
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AECOM Asia Co. Ltd.					
9TH FLOOR, INFINITY TOWER C DLF CYBER	CITY				
EASTERN CORRIDOR					
KHURJA TO PILKHANI 1367 (ALIN-GZB) to Km 187 5 (SRE-UMB)					
DNTRACT PACKAGE - 303					
ROPOSED MAJOR BR. NO. D/MTC 146 SPAN (1X12.2m) AT CH. 28880.000					
GENERAL ARRANGEMENT DRAWING					
CHECKED BY APPROVED BY DRG. NO.	REV.				
AECOM/303/MJR-RUB/D/MTC146	R0				



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7 TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MTC 162 SPAN (1X12.2m) AT CH. 32630.000 GENERAL ARRANGEMENT DRAWING SCALE DATE DRAWN BY CHECKED BY APPROVED BY DRG. NO. REV. R0 AECOM/303/MJR-RUB/D/MTC162





1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. h) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REOUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. . TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM. DISTANCE FROM THE TOP OF RCC PEDESTAL. 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED

IN DECK.
18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 171 SPAN (2X45.7m) AT CH. 35549

ΒY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC171 SHEET 2 OF 2	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC v) RELEVANT BIS CODES. KLELVARI BIS CODES.
 LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD)
 HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 150 MM THK. ^{14.} WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT LEAN CONCRETE 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 8. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 198 SPAN (1X30.5m) AT CH. 43900

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC198	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. BEFORE EXECUTION.
BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED

 DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
 THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 206 SPAN (1X30.5m) AT CH. 46362

'	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC206	R0



b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR RUB, NO. D/MTC 215 SPAN (2X30.5m) AT CH. 48536.530 GENERAL ARRANGEMENT DRAWING DRG. NO. REV. R0 AECOM/303/MJR-RUB/D/MTC215 SHEET 1 OF 2

ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE SCALE DATE DRAWN BY CHECKED BY APPROVED BY

1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED ALL DIMENSIONS AND LEVELS SHOULD SETTING THE TELEVISION SETTING THE STRUCTURE SET STRUCTURE TO A S AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED



CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR-RUB/D/MTC215	R0
		SHEET 2 OF 2	

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

9TH FLOOR, INFINITY TOWER C DLF CYBER CITY

DLF PHASE II GURGAON 122002, INDIA

GENERAL ARRANGEMENT DRAWING

AECOM Asia Co. Ltd.

PROPOSED MAJOR RUB. NO. D/MTC 215 SPAN (2X30.5m) AT CH. 48536.530

CONTRACT PACKAGE - 303



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS

OTHERWISE SPECIFIED.

2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:

i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE.

ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC.

v) RELEVANT BIS CODES.

b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.

5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.

6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.

8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL

9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE

FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE

FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE.

12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.

14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS

16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED

18 DO NOT SCALE FOLLOW WRITTEN DIMENSION ONLY

19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 235 SPAN (1X30.5m) AT CH. 54825

,	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC235	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 0. DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER, ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

> AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 244 SPAN (1X30.5m) AT CH. 57555

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC244	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OF PREFERENCE: i) IRS BRIDGE RULES ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC. PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MTC 273 SPAN (1X30.5m) AT CH. 64270

,	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MTC273	R0





1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED ALL DIMENSIONS AND LEVELS SHOULD BE VERHILD & RECORCILED BEFORE EXECUTION.
 BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTUR AND FOUNDATION CODE.
 SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED

ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 3 SPAN (2X45.7m) AT CH. 1790

BY	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ3 SHEET 2 OF 2	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES.ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. b) NELEVANT BIS CODES.
 b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF LS. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER, ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. **INDICATIVE DRAWING** DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303**

> PROPOSED MAJOR BR. NO. D/MOZ 11 SPAN (1X12.2m) AT CH. 6016.000

,	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ11	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS A THE DRAFT OF THE ATTEND AND THE DEVELOPMENT AND THE OFFICIENCY OFFICIENCE OFFICIENCY OFFICIENCY OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE.iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
 MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REOUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR RUB NO. D/MOZ 22 SPAN (1X45.7m) AT CH. 10540

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ 22	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA, PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM N - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.

19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 26 SPAN (1X30.5m) AT CH. 12147

,	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ26	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:ii) IRS CONCRETE BRIDGE CODE. ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEPORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. . TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 150 MM THK.15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER, ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 28 SPAN (1X30.5m) AT CH. 13260

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ28	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. . TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 33 SPAN (1X30.5m) AT CH. 15800

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ33	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM N - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.

19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 50 SPAN (1X18.3m) AT CH. 21534

,	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ50	R0



 ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES.
ii) IRS CONCRETE BRIDGE CODE.
iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. BEFORE EXECUTION.
5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE.
7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS.
9. MESH DEINEROFCEMENT SHALL DE PROVIDED AT THE TOP OF PCC BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL BEING AT 100 MM DEFINICE FROM THE TO FREE FROM THE TO FREE FOLDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13 THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF THE GAD SHOULD SATISFT THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.
 WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR BR. NO. D/MOZ 52 SPAN (1X12.2m) AT CH. 23420.000

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR-RUB/D/MOZ52	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES ii) IRS CONCRETE BRIDGE CODE. ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM N - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.

19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 55 SPAN (1X18.3m) AT CH. 24269

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ55	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS ALL DIMENSIONS ARE IN HIM AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES.ii) IRS CONCRETE BRIDGE CODE. ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF LS. 1786-1985 SHALL BE USED AS REINFORCEMENT. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. . MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 THE KODS SHALL BE DESIGNED AND CONSTRUCTED AS FER CLACS (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT.
 THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 74 SPAN (1X18.3m) AT CH. 28840

,	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ74	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR RUB NO. D/MOZ 82 SPAN (1X18.3m) AT CH. 30236 GENERAL ARRANGEMENT DRAWING SCALE DATE DRAWN BY CHECKED BY APPROVED BY DRG. NO. REV. R0 AECOM/303/MJR-RUB/D/MOZ82



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS ALL DIRECTIONS AND ALL PLATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES.ii) IRS CONCRETE BRIDGE CODE. ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. b) COLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF LS. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS

 I.6. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 I.7. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.
 I.8. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.

 DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
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INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR BR. NO. D/MOZ 84 SPAN (1X12.2m) AT CH. 30787.000

•	CHECKED BY	APPROVED BY	DRG, NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ84	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEPORTED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF LS. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL . THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 88 SPAN (1X18.3m) AT CH. 31820

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ88	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS ALL DIMENSIONS ARE IN IMITAND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.
 a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED/TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. BEFORE EXECUTION.
 BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN METHOD SUPPORTS DESCRIPTION FOR A STRUCTURE OF A STRUCTUR MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 1. CC WEARING COURSE OF MINIMUM A - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.

19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR BR. NO. D/MOZ 105 SPAN (1X12.2m) AT CH. 34920.000

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR-RUB/D/MOZ105	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES.b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEPORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. . TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 150 MM THK. 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM

THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.

 DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
 THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 111 SPAN (1X30.5m) AT CH. 36595.011

•	CHECKED BY	APPROVED BY	DRG. NO.	REV.
			AECOM/303/MJR-RUB/D/MOZ111	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE:i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. ii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. b) COLEVANT BIS CODES.
b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. BEFORE EXECUTION.
BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN WAS INFORMATION FOR ON STRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT WORK SCHEME STALL DE SUCH THAT ADJACENT IK TRACK IS NOT AFFECTED IN ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. **INDICATIVE DRAWING** DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 118 SPAN (1X12.2m) AT CH. 38170.000

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR-RUB/D/MOZ118	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED. 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF PREFERENCE: i) IRS BRIDGE RULES. ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7. TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF PRECEDENCE. 2. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC.

14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN PROTECTION WORKS

 WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY. HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.
 CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK.

 DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY.
 THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

PROPOSED MAJOR RUB NO. D/MOZ 120 SPAN (1X30.5m) AT CH. 38930

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MJR-RUB/D/MOZ120	R0



1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE SPECIFIED 2. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER ii) IRS CONCRETE BRIDGE CODE. iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT IRC CODES OF PSC. v) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) 3. HIGH YIELD STRENGTH DEFORMED/ TMT BAR OF GRADE Fe-500 SATISFYING THE REQUIREMENTS OF I.S. 1786-1985 SHALL BE USED AS REINFORCEMENT. 4. ALL DIMENSIONS AND LEVELS SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. 5. BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. 6. SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 7 TRACK ON BRIDGE SHOULD BE WITH GUARD RAILS 8. MESH REINFORCEMENT SHALL BE PROVIDED AT THE TOP OF RCC PEDESTAL UNDER THE BEARING IN TWO LAYERS OF 8 mm TOR @ 75 C/C BOTHWAYS ONE LAYER BEING AT 20 mm DISTANCE AND OTHER LAYER BEING AT 100 MM DISTANCE FROM THE TOP OF RCC PEDESTAL 9. THE PILE FOUNDATION SHOWN IN GAD IS TENTATIVE. THE CONTRACTOR HAS TO DESIGN SUITABLE FOUNDATION/SUBTRUCTURE AS PER THE SOIL STRATA AND CAN CHANGE THE PROPOSED FOUNDATION. 10. IN CASE PILE FOUNDATION IS USED THE RELEVANT BIS CODE FOR PILE FOUNDATION AND TESTING WILL BE FOLLOWED. 11. IN CASE WELL FOUNDATION IS USED THE RELEVANT IRS CODE & IRC CODE FOR WELL FOUNDATION SHALL BE FOLLOWED IN THAT ORDER OF 12. THE RUBS SHALL BE DESIGNED AND CONSTRUCTED AS PER CLAUSE 3.0 (BRIDGE DESIGN CRITERIA) OF PART- 2 VOL. 4 OF BID DOCUMENT. 13. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSIONS FOR EDFC. 14. WEEP HOLES SHALL BE OF 75 mm DIA. PVC PIPE STAGGERED @ 1000 mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT 15. STONE PITCHING SHALL BE 300 mm OVER 150 mm FILTER MATERIAL IN 16. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANY WAY, HOWEVER, IF IT IS INESCAPABLE, THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION. 17. CC WEARING COURSE OF MINIMUM M - 35 GRADE AND MINIMUM THICKNESS OF 40 mm WITH A CROSS SLOPE OF 1 IN 40 SHALL BE PROVIDED ON DECK. ON DECK. 18. DO NOT SCALE, FOLLOW WRITTEN DIMENSION ONLY. 19. THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS AND EMPLOYER'S REQUIREMENT. **INDICATIVE DRAWING** DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA EASTERN CORRIDOR KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** PROPOSED MAJOR BR. NO. D/MOZ 128 SPAN (1X12.2m) AT CH. 40960.000 GENERAL ARRANGEMENT DRAWING SCALE DATE DRAWN BY CHECKED BY APPROVED BY DRG. NO. REV. R0 AECOM/303/MJR-RUB/D/MOZ128

Contract Package: 303

KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

GAD OF MINOR BRIDGE



ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE

DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF

b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED (HVSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS

BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND

FOUNDATION CODE. ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL). THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE

CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCCIL. TOP SURFACE AND SIDE OF BOX SHALL BE GIVEN TWO COATS OF COAL TAR OR BITUMEN CONFORMING TO IS: 3070-1965 BEFORE FILLING OF EARTH. 10. WEEP HOLES SHALL BE OF 75mm DIA. PVC PIPE STAGGERED @ 1000mm C/C

HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/

BALAST RETAINER. 12. DRAINAGE OF DECK SHALL BE PROVIDED AS PER CLAUSE 15.2.2.1 OF IRS CONCRETE

13. TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE

FOR PROPER DRAINAGE. 14. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY. HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION OF TEMPORARY SPEED RESTRICTION.

15. THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE

16. THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL (FL) HAS BEEN ASSUMED AS 730mm. PROPER OUTLETS ON D/S SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED.

18. SUITABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DFC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF FLOW FROM THESE DRAINS. 19. SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT MINIMUM AS 1:100.

 IN CASE THE PROPOSED BRIDGE IS CROSSING A CANAL, THE GAD AND OTHER DRAWINGS AS REQUIRED SHALL BE GOT APPROVED FROM THE CONCERNED CANAL AUTHORITY BY 22. THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.

INDICATIVE DRAWING

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA

EASTERN CORRIDOR

KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

CONTRACT PACKAGE - 303

TYPICAL DRAWING OF MINOR BRIDGE

CHECKED BY	APPROVED BY	DRG. NO.	REV.
		AECOM/303/MI/TYPICAL/1	R0

Contract Package: 303

KHURJA TO PILKHANI

From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB)

GAD OF MINOR RUB



ALL DIMENSIONS ARE IN mm AND ALL LEVELS IN METERS UNLESS OTHERWISE DO NOT SCALE, FOLLOW THE WRITTEN DIMENSIONS ONLY. a) CODES TO BE FOLLOWED (WITH LATEST CORRECTIONS SLIP) IN ORDER OF ii) IRS CONCRETE BRIDGE CODE.iii) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE. iv) RELEVANT BIS CODES. b) LOADING TO BE FOLLOWED IS D.F.C. LOADING (32.5 TON AXLE LOAD) HIGH YIELD STRENGTH DEFORMED (HYSD) / THERMO MECHANICAL TREATED (TMT) BARS OF GRADE Fe - 500 SATISFYING THE REQUIREMENT OF IS: 1786-1985 SHALL BE USED AS BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE. ALL DIMENSION AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION. DEPTH AND SIZE OF FOUNDATION, LENGTH OF RETURN WALL AND LEVELS SHALL BE DECIDED BASED ON SITE CONDITION (TYPE OF STRATA AND GROUND LEVEL). THIS GAD IS TENTATIVE AND IS MEANT ONLY FOR GUIDANCE OF THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DESIGNED BY THE CONTRACTOR AS PER SITE CONDITIONS/DIMENSIONS SHALL BE APPROVED BY DFCCIL. TOP SURFACE AND SIDE OF BOX SHALL BE GIVEN TWO COATS OF COAL TAR OR BITUMEN CONFORMING TO IS: 3070-1965 BEFORE FILLING OF EARTH. 10. WEEP HOLES SHALL BE OF 75mm DIA. PVC PIPE STAGGERED @ 1000mm C/C HORIZONTALLY AND VERTICALLY THROUGH RETURN WALL/ABUTMENT WEEP HOLES OF 75mm DIA. PVC PIPES @ 1000mm C/C SHOULD BE PROVIDED IN EARTH/ 12. DRAINAGE OF DECK SHALL BE PROVIDED 1 IN 40 (CROSS SLOPE) VIDE CLAUSE 15.2.2.1 OF 13. TOP OF SLAB/BOX SHALL HAVE A WEARING COURSE OF 1 IN 40 TOWARDS OUTER SIDE FOR PROPER DRAINAGE. WORK SCHEME SHALL BE SUCH THAT ADJACENT IR TRACK IS NOT AFFECTED IN ANYWAY, HOWEVER, IF IT IS INESCAPABLE THE ENGINEER WILL DECIDE THE IMPOSITION THE EXISTING TRACK SHALL BE PROTECTED BEFORE EXECUTION OF WORK. DESIGN OF SUCH PROTECTION WORK SHALL BE DONE BY THE CONTRACTOR AND SHALL BE THE DIFFERENCE BETWEEN PROPOSED RAIL LEVEL (RL) & PROPOSED FORMATION LEVEL PROPER OUTLETS ON D/S SIDE FOR DRAINAGE OF DISCHARGE IS TO BE ENSURED. SUITABLE DRAIN HAS TO BE PROVIDED BETWEEN THE IR AND DFC FORMATIONS AND THE WING WALLS SHOULD HAVE PROVISION FOR DISCHARGE OF FLOW FROM THESE DRAINS. 19. SAFE BEARING CAPACITY OF SOIL SHALL BE CONFIRMED BY SUITABLE METHOD BEFORE CONSTRUCTION WORK. IT SHALL BE GREATER THAN MAXIMUM FOUNDATION PRESSURE. 20. BED SLOPE SHALL BE ADJUSTED AS PER THE SITE CONDITIONS IT SHOULD BE KEPT THE GAD SHOULD SATISFY THE LATEST APPROVED SCHEDULE OF DIMENSION FOR DFCC.
 THE DESIGN & CONSTRUCTION OF RUB WILL BE GOVERNED BY CLAUSE 3.0 BRIDGE DESIGN CRITERIA OF PART-2, VOLUME-4 OF BIDDING DOCUMENT. INDICATIVE DRAWING DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. AECOM Asia Co. Ltd. 9TH FLOOR, INFINITY TOWER C DLF CYBER CITY DLF PHASE II GURGAON 122002, INDIA **EASTERN CORRIDOR** KHURJA TO PILKHANI From Km 1367 (ALJN-GZB) to Km 187.5 (SRE-UMB) **CONTRACT PACKAGE - 303** TYPICAL DRAWING OF RUB SPAN 1 X 5.5 X 4.5M GENERAL ARRANGEMENT DRAWING DATE DRAWN BY CHECKED BY APPROVED BY DRG. NO. REV. AECOM/303/MNR-RUB/TYPICAL/1