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OFFICE OF ORIGIN

KOLKATA

OWNER CLIENT

NORTHEAST FRONTIER RAILWAY

CONTRACTOR CLIENT

PROJECT

**ANALYSIS AND DESIGN REPORT FOR BRIDGE NO 130 BETWEEN JIRIBAM
AND TUPUL**

TITLE

DETAIL OF BEARING LOAD DATA - Br. No. 130

DATE	REV. NO.	MODIFICATION / PURPOSE OF ISSUE	SHEET NOS / ANNEXURES	PREPARED	CHECKED	APPROVED
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DATE

20/10/14

SHEETS

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NOTE NO.

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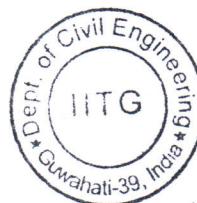
APPROVED

PRINCIPAL CONSULTANT

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Date: 15-10-2012
By: PMD

Note No.
Sheet No.

Bearing Load Details :		Coexisting Loads , Forces, Movements and Rotation Data												Qty (Nos)	
SI No.	Bearing Type	Load Condition	Vertical Load (T)			Horizontal Force (T)			Rotation (Rad)		Movement (mm)				
			Case	Magnitude	Case	Longitudinal Magnitude	Transverse Case	Magnitude	Case	Magnitude	Longitudinal	Transverse			
1	2	3 Permanent	4	5	6	7	8	9	10	11	12	13	14		
			Maximum (DL+LL)	548	Co-existing (Braking Force)	81	Co-existing	-	Co-existing	0.00469	-	-	-		-
			Minimum (DL)	247	Co-existing	-	Co-existing	-	Co-existing	0.00213	-	-	-		-
			Maximum (DL+ 50% LL)	726	Co-existing (Braking Force & Seismic on DL)	856	Co-existing	-	Co-existing	0.00469	-	-	-		-
1	Fixed Bearing	Long Seismic	Minimum (DL)	132	Co-existing (Seismic on DL)	815	Co-existing	-	Co-existing	0.00213	-	-	-	2	
			Maximum (DL+ 50% LL)	1292	Co-existing	-	Co-existing (Seismic on 50% LL & Seismic on DL)	426	Co-existing	0.01106	-	-	-		
			Minimum (DL)	-257	Co-existing	-	Co-existing (Seismic on DL)	283	Co-existing	-0.00220	-	-	-		

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Bearing Load Details : Br.No.130 (103.5 m span)

Sl No.	Bearing Type	Load Condition	Coexisting Loads , Forces, Movements and Rotation Data											Qty (Nos)	
			Vertical Load (T)		Horizontal Force (T)			Rotation (Rad)		Movement (mm)					
			Case	Magnitude	Case	Magnitude	Case	Magnitude	Case	Magnitude	Longitudinal	Transverse			
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
		Permanent													
2	Sliding-Guided Bearing	Normal	Maximum (DL+LL)	548	Co-existing (Braking Force)	-	Co-existing	-	Co-existing	0.00469	71	-	-		
			Minimum (DL)	247	Co-existing	-	Co-existing	-	Co-existing	0.00213	48	-	-		
		Long Seismic	Maximum (DL+ 50% LL)	726	Co-existing (Braking Force & Seismic on DL)	-	Co-existing	-	Co-existing	0.00469	71	-	-	-	
			Minimum (DL)	132	Co-existing (Seismic on DL)	-	Co-existing	-	Co-existing	0.00213	48	-	-	-	2
Trans Seismic	Maximum (DL+ 50% LL)	1292	Co-existing	-	Co-existing (Seismic on 50% LL & Seismic on DL)	-	Co-existing	426	Co-existing	0.01106	127	-	-		
	Minimum (DL)	-257	Co-existing	-	Co-existing (Seismic on DL)	-	Co-existing	283	Co-existing	-0.00220	-49	-	-		

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Date: 15-10-2012

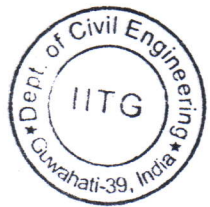
Note No.

By: PMD

Sheet No.

Bearing load Details: Br.No. 130 (69 m span)

SI No.	Bearing Type	Load Condition	Coexisting Loads, Forces, Movements and Rotation Data												Qty (Nos)		
			Vertical Load (T)			Horizontal Force (T)			Rotation (Rad)		Movement (mm)		Case	Magnitude		Longitudinal	Transverse
			Case	Magnitude	Case	Magnitude	Case	Magnitude	Case	Magnitude	Case	Magnitude					
1	Fixed Bearing	Permanent	4	5	6	7	8	9	10	11	12	13	14				
			Maximum (DL+LL)	367	Co-existing (Braking Force)	63	Co-existing	-	Co-existing	0.00242	-	-	-	-			
			Minimum (DL)	159	Co-existing	-	Co-existing	-	Co-existing	0.00100	-	-	-	-			
			Maximum (DL+ 50% LL)	470	Co-existing (Braking Force & Seismic on DL)	417	Co-existing	-	Co-existing	0.00242	-	-	-	-			
1	Fixed Bearing	Trans Seismic	Minimum (DL)	90	Co-existing (Seismic on DL)	386	Co-existing	-	Co-existing	0.00100	-	-	-	2			
			Maximum (DL+ 50% LL)	739	Co-existing	-	Co-existing (Seismic on 50% LL & Seismic on DL)	221	Co-existing	0.00486	-	-	-				
			Minimum (DL)	-98	Co-existing	-	Co-existing (Seismic on DL)	145	Co-existing	-0.00064	-	-	-				



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Bearing load Details: Br.No. 130 (69 m span)

SI No.	Bearing Type	Load Condition	Coexisting Loads, Forces, Movements and Rotation Data													Qty (Nos)
			Vertical Load (T)			Horizontal Force (T)			Rotation (Rad)			Movement (mm)				
			Case	Magnitude	Case	Magnitude	Case	Magnitude	Case	Magnitude	Case	Magnitude	Longitudinal	Transverse		
1	2	3	4	5	6	7	8	9	10	11	12	13	14			
		Permanent														
		Normal	Maximum (DL+LL)	367	Co-existing (Braking Force)	-	Co-existing	-	Co-existing	0.00242	38	-				
			Minimum (DL)	159	Co-existing	-	Co-existing	-	Co-existing	0.00100	27	-				
		Long Seismic	Maximum (DL+ 50% LL)	470	Co-existing (Braking Force & Seismic on DL)	-	Co-existing	-	Co-existing	0.00242	38	-				
			Minimum (DL)	90	Co-existing (Seismic on DL)	-	Co-existing	-	Co-existing	0.00100	27	-				
2	Sliding-Guided Bearing	Trans Seismic	Maximum (DL+ 50% LL)	739	Co-existing	-	Co-existing (Seismic on 50% LL & Seismic on DL)	221	Co-existing	0.00486	56	-				
			Minimum (DL)	-98	Co-existing	-	Co-existing (Seismic on DL)	145	Co-existing	-0.00064	-25	-				

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