STUP Consultants Pvt. Ltd.

P-11, Darga Road, Park Circus,
Kolkata – 700 017, INDIA
Tel : +91-33-40109797/22807430/22807431
Fax : (91-33) 22871876, 22807531
E-mail : kolkata@stupmail.com
Web Site : www.stupco.com

OFFICE OF ORIGIN

KOLKATA

OWNER CLIENT

NORTHEAST FRONTIER RAILWAY

CONTRACTOR CLIENT

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PROJECT

PROPOSED BRIDGE NO. 164 (AT Km 86/996) BETWEEN KHONGSONG AND NONEY UNDER NEW BG RAIL LINE CONSTRUCTION BETWEEN JIRIBAM & TUPUL (IMPHAL)

TITLE

DETAIL OF BEARING LOAD DATA – Br. No. 164

DATE	REV. NO.	MODIFICATION / PURPOSE OF ISSUE	SHEET NOS / ANNEXURES	PREPARED		CHECKED		APPROVED	
				INITIALS	SIGNATURE	INITIALS	SIGNATURE	INITIALS	SIGNATURE
20.10.14	R0	FOR APPROVAL	1 + 2	PMD		SSG		SSG	

DATE	SHEETS	NOTE NO.	APPROVED
20/10/14	(1 +2) = 3 Pgs	9293/E/DN-164-108(R0)	PRINCIPAL CONSULTANT

15/10/14

Professor
Department of Civil Engineering
Indian Institute of Technology Guwahati
Guwahati-781039, India

Dept. of Civil Engineering IITG Guwahati-39, India

STUP Consultants Pvt. Ltd.

Date: 15-10-2012 Note No.

By: PMD Sheet No.

Bearing Load Details : Br.No.164 (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	Longitudinal		Transverse		Case	Magnitude	Longitudinal	Transverse	
					Case	Magnitude	Case	Magnitude					
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Fixed Bearing	Parmanent											
		Normal	Maximum (DL+LL)	548	Co-existing (Braking Force)	81	Co-existing	-	Co-existing	0.00469	-	-	2
			Minimum (DL)	247	Co-existing	-	Co-existing	-	Co-existing	0.00213	-	-	
		Long Seismic	Maximum (DL+ 50% LL)	728	Co-existing (Braking Force & Seismic on DL)	866	Co-existing	-	Co-existing	0.00469	-	-	
			Minimum (DL)	130	Co-existing (Seismic on DL)	825	Co-existing	-	Co-existing	0.00213	-	-	
		Trans Seismic	Maximum (DL+ 50% LL)	1300	Co-existing	-	Co-existing (Seismic on 50% LL & Seismic on DL)	429	Co-existing	0.01118	-	-	
			Minimum (DL)	-261	Co-existing	-	Co-existing (Seismic on DL)	286	Co-existing	-0.00226	-	-	

IIT G Dept. of Civil Engineering Guwahati-39, India

PROOF CHECKED

A. Dutta 15/10/12

Professor
Department of Civil Engineering
Indian Institute of Technology Guwahati
Guwahati-781039, India

STUP Consultants Pvt. Ltd.

Date: 15-10-2012 Note No.

By: PMD Sheet No.

Bearing Load Details : Br.No.164 (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)		
					Longitudinal		Transverse						
			Case	Magnitude	Case	Magnitude	Case	Magnitude	Case	Magnitude	Longitudinal	Transverse	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
2	Slideing-Guided Bearing	Parmanent											2
		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)	728	Co-existing (Braking Force & Seismic on DL)	-	Co-existing	-	Co-existing	0.00469	71	-	
			Minimum (DL)	130	Co-existing (Seismic on DL)	-	Co-existing	-	Co-existing	0.00213	48	-	
		Trans Seismic	Maximum (DL+ 50% LL)	1300	Co-existing	-	Co-existing (Seismic on 50% LL & Seismic on DL)	429	Co-existing	0.01118	127	-	
			Minimum (DL)	-261	Co-existing	-	Co-existing (Seismic on DL)	286	Co-existing	-0.00226	-50	-	

Dept. of Civil Engineering * Guwahati-39, India * IITG

Professor
Department of Civil Engineering
Indian Institute of Technology Guwahati
Guwahati-781039, India

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Date: 15-10-2012 Note No.

By: PMD Sheet No.

Bearing Load Details : **Br.No. 164 69. 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)		
					Longitudinal		Transverse						
			Case	Magnitude	Case	Magnitude	Case	Magnitude	Case	Magnitude	Longitudinal	Transverse	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Fixed Bearing	Parmanent											2
		Normal	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	-	-	
		Long Seismic	Maximum (DL+ 50% LL)	527	Co-existing (Braking Force & Seismic on DL)	516	Co-existing	-	Co-existing	0.00242	-	-	
			Minimum (DL)	57	Co-existing (Seismic on DL)	484	Co-existing	-	Co-existing	0.00100	-	-	
		Trans Seismic	Maximum (DL+ 50% LL)	1052	Co-existing	-	Co-existing (Seismic on 50% LL & Seismic on DL)	381	Co-existing	0.00692	-	-	
			Minimum (DL)	-284	Co-existing	-	Co-existing (Seismic on DL)	250	Co-existing	-0.00187	-	-	

IIT G * Dept. of Civil Engineering * Guwahati-39, India

Professor
Department of Civil Engineering
Indian Institute of Technology Guwahati
Guwahati-781039, India

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Date: 15-10-2012 Note No.

By: PMD Sheet No.

Bearing Load Details : **Br.No. 164** **69. 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)		
					Longitudinal		Transverse						
			Case	Magnitude	Case	Magnitude	Case	Magnitude	Case	Magnitude	Longitudinal	Transverse	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
2	Slideing-Guided Bearing	Parmanent											2
		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)	527	Co-existing (Braking Force & Seismic on DL)	-	Co-existing	-	Co-existing	0.00242	38	-	
			Minimum (DL)	57	Co-existing (Seismic on DL)	-	Co-existing	-	Co-existing	0.00100	27	-	
		Trans Seismic	Maximum (DL+ 50% LL)	1052	Co-existing	-	Co-existing (Seismic on 50% LL & Seismic on DL)	381	Co-existing	0.00692	72	-	
			Minimum (DL)	-284	Co-existing	-	Co-existing (Seismic on DL)	250	Co-existing	-0.00187	-34	-	

Professor
Department of Civil Engineering
Indian Institute of Technology Guwahati
Guwahati-781039, India

IIT G Dept. of Civil Engineering Guwahati-39, India

15/10/12