

✓

**GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
(RAILWAY BOARD)**

No. 2010/Proj./Bangalore/Misc.

New Delhi, dated 23.09.2013

**Managing Director,
Jaipur Metro Rail Corporation Limited,
Khanij Bhawan, Udyog Bhawan Premises,
Tilak Marg, C-Scheme,
Jaipur.**

Sub: Design Basis Report for JMRCL.

Ref : (i) RDSO's Letter No. CBS/Metro/JMRCL dated 30.07.2013.

(ii) RDSO's Letter No. CBS/Metro dated 26.07.2013.

The Competent Authority has approved Design Basis Report of JMRCL subject to conditions mentioned below:

(i) Value of Modular Ratio (m):

Approval for taking value of modular ratio (m) as 10 is granted as a special case for Ph-I of Jaipur subject to the following:

- This approval is being granted as a special case for Ph-I only as the structures have already been designed & constructed and should not be taken as precedence in future.
- One span per km will be kept under watch under advice to Ministry of Railways. Quarterly measurements of the span should be taken and in case of any adverse development in the structure, immediate safety measure as deemed fit shall be taken by Metro Railway administration. RDSO may advise the items to be kept under watch for such spans.
- An annual report (more frequent if warranted) should be prepared by Metro Railway for such monitoring and the same should be submitted to Ministry of Railways alongwith comments of Metro Railway on the report.

(ii) Consideration of parapet and plinth beams as D.L. in place of SIDL:

Considering plinth beam and parapet towards dead load in place of superimposed dead load is approved as a special case for Ph-I of JMRCL with following conditions:

- This approval is being granted as a special case for Ph-I of Jaipur Metro only as the structures have already been designed and constructed and should not be taken as precedence in future.
- One span per km will be kept under watch under advice to Ministry of Railways. Quarterly measurements of the span should be taken and in case of any adverse development in the structure, immediate safety measure as deemed fit shall be taken by Metro Railway. RDSO may advise the items to be kept under watch for such spans.
- An annual report (more frequent if warranted) should be prepared by Metro Railway for such monitoring and the same should be submitted to RDSO and Railway Board alongwith comments of Metro Railway on the report.
- Metro Railway will ensure that weight of parapet and track plinth will remain same as assumed in design throughout the life of structure and same shall be incorporated in the maintenance manual,
- The variation in remaining SIDL will not be more than 20% of what has been assumed in design.

(iii) Vertical Derailment Load:

Approval of reduction in vertical derailment load proportionate to axle load is conveyed as a special case as the structure has already been constructed in JMRCL. Stipulation of following conditions is proposed while approving such relaxation:

- This approval is being granted as a special case only for Ph-I of JMRCL as the structures have already been designed and constructed and should not be taken as precedence in future.
- In case of any derailment, the affected as well as adjacent spans shall be immediately checked for any damage. Detailed measurements should be taken as soon as possible and advised to Ministry of Railways with comments from concerned Metro Railway.

Approved copies of DBR (2 no.) are enclosed for taking necessary action.

Encl: Copies of approved DBR

O/C


(Mohit Lila)

Director/Works Planning
Railway Board

Copy to/-

Received
23.9.13
SSB/UTTP/
RDSO UKO

1.
2.

1. Executive Director/UTHS, RDSO, Manak Nagar, Lucknow for information and necessary action (along with 3 copies of approved DBR).

2. Executive Director/Structure, RDSO, Manak Nagar, Lucknow for information. You are requested to take necessary action as stated in para (2) of the letter.

and (ii)

PD-18800
24/9/13

