

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

No. 2016/54/CE-III/BR/RDSO/Misc.

New Delhi dt: 21.09.2020

**Principal Chief Engineer,**  
**All Zonal Railways**

**Chief Administrative Officer (Con.)**  
**All Zonal Railways**

**Sub: Design of Non-Standard composite Girders for ROBs.**

**Ref:** (i) Board's letter No: 2015/CE-IV/ROB/78 Pt. dt: 4.6.19 & 15.1.20  
(ii) RDSO's letter No: CBS/DRO dated 31.08.2020: F-1 F-3

Time and again, instructions have been issued to adopt standard design of steel girders issued by RDSO for ROBs from safety consideration as well as to expedite execution work. However, in exceptional cases non-standard spans can be used due to site constraints.

While approving the GAD by CBE, following should be kept in mind:

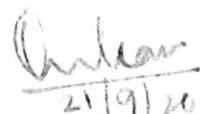
- (i) Only RDSO approved standard span will be adopted.
- (ii) In rare cases, where it is unavoidable to use non-standard spans, CBE of the Zonal Railway should record reasons as to why standard spans cannot be adopted and what corrective action/initiatives are to be taken to reduce the population of non-standard spans in future.

RDSO vide above referred letter has issued guidelines for design checking of non-standard composite I-girders. Therefore, designs of all non-standard composite steel plate girders can be checked and approved by Zonal Railways. CBE of the Zonal Railways is authorized to approve the design of non-standard composite steel plate girders by following the guideline issued by RDSO.

Design of standard bow string girders have also been issued by RDSO to be used in the field. However, in exceptional circumstances non-standard bow string girders can be used. In such cases design of non-standard bow string girders will be cleared by RDSO based upon submission of design & drawing by Zonal Railways. One zonal railway proposed Truss type girder of ROB. Being non-standard, same will also be cleared by RDSO. Design of such girders shall be approved by CBE.

Above instructions are applicable for construction of ROBs in new line & Gauge conversion works also. Further in such cases, CE/Con. is authorized to approve the GAD & design in place of CBE and he will be responsible to ensure the compliance of above instructions:

It is further re-iterated that only zonal railway is authorized to approach RDSO for clearance of design of non-standard bow string girder & Truss type girder that too after approval of GAD.

  
21/9/2020  
**(O.N. Sharma)**  
**Dir. CE(B&S)**

**Copy to: ED/B&S/RDSO for strict compliance.**