

राजेश कुमार श्रीवास्तव  
**Rajesh Kumar Srivastava**

कार्यकारी निदेशक / पुल एवं संरचना  
Executive Director/B&S



भारतसरकार - रेलमंत्रालय  
अनुसन्धानअभिकल्पऔरमानकसंगठन  
लखनऊ-226011  
Government of India-Ministry of Railways  
Research Designs & Standards Organization  
Lucknow- 226011  
Phone / Fax : 0522-2465704

**No. CBS / Bridge Insp/ Genl Matters**

**Date: 17.05.2024**

- 1. GM /Con, N.F. Railway**
- 2. All PCEs & CAO(C)s  
All Indian Railways**
- 3. Managing Directors  
IRCON, RVNL, DFCCIL,  
KRCL, MRVC, MRIDCL, HRIDCL**

**Sub:** Issuance of Model WPSSs for Bow String Girders (4 nos.).

**Ref:** 1. RDSO letter no. CBS/ Bridge Insp /Genl Matters dated 01.03.2023.

2. RDSO letter no. CBS/ Bridge Insp /Genl Matters dated 08.06.2023.

3. Railway Board letter no. 2017/16/CE-III/BR/Girder Inspection dated 26.05.2017.

1. RDSO has already issued Model **QAPs** of following steel girders vide Ref. 1.

S. No.	Girder	Type	Model QAP No.
1.	<b>Railway Bridge Girders</b>	Plate Girders	RDSO/Infra-II/B&S/RG/PG
		Composite Plate Girders	RDSO/Infra-II/B&S/RG/CG
		Open Web Girders (Through type as well as Under Slung)	RDSO/Infra-II/B&S/RG/OWG
2.	<b>Road Over Bridges (ROBs)</b>	Truss Type Girders (Assembled with HSGG Bolts at site)	RDSO/Infra-II/B&S/ROB/TTG
		Bow String Girders (Assembled by welding at site)	RDSO/Infra-II/B&S/ROB/BSG
		Composite Girders	Issued Vide BS-130

2. RDSO has also issued Model **WPSSs** of following steel girders vide Ref. 2.

S. No.	Railway Bridge Girders	Span(m)	Model WPSS No.
1.	Railway Plate Girders (25 t Loading)	12.2	RDSO/Infra-II/B&S/RG/PG./WPSS/12.2 series
		18.3	RDSO/Infra-II/B&S/RG/PG./WPSS/18.3 series
		24.4	RDSO/Infra-II/B&S/RG/PG./WPSS/24.4 series

2.	Railway Composite Girders (25 t Loading)	12.2	RDSO/Infra-II/B&S/RG/CG./WPSS/12.2 series
		18.3	RDSO/Infra-II/B&S/RG/CG./WPSS/18.3 series
		24.4	RDSO/Infra-II/B&S/RG/CG./WPSS/24.4 series
		30.5	RDSO/Infra-II/B&S/RG/CG./WPSS/30.5 series
3.	Railway Open Web Girders (25 t Loading)	30.5	RDSO/Infra-II/B&S/RG/OWG./WPSS/30.5 series
		45.7	RDSO/Infra-II/B&S/RG/OWG./WPSS/45.7 series
		61.0	RDSO/Infra-II/B&S/RG/OWG./WPSS/61.0 series
		76.2	RDSO/Infra-II/B&S/RG/OWG./WPSS/76.2 series
		91.4	RDSO/Infra-II/B&S/RG/OWG./WPSS/91.4 series
		106.7	RDSO/Infra-II/B&S/RG/OWG./WPSS/106.7 series
		30.5 U/S	RDSO/Infra-II/B&S/RG/OWG./WPSS/30.5US series

- For RDSO Standard ROB girders of Composite Plate Girder type, fabrication-Inspection is not done by RDSO and is fully delegated. For Bow String Girders, RDSO has already issued Model QAP vide Ref. 1.
- Now Model WPSSs are being issued for following 4 RDSO Standard Bow String Girders (with SV Loading and Congestion Factor).

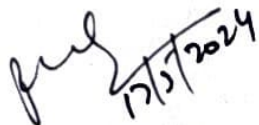
S. N.	Clear Span	RDSO Drg. No.	MODEL WPSS No.	No. of WPSS Sheets involved
<b>Bow String Girder (SV loading with congestion factor)</b>				
1.	48 m 3 lane	B-10429 series	RDSO/Infra-II/B&S/ROB/BSG/WPSS/48.0 series	52
2.	60 m 3 lane	B-10427 series	RDSO/Infra-II/B&S/ROB/BSG/WPSS/60.0 series	41
3.	60 m 2 lane	B-10434 series	RDSO/Infra-II/B&S/ROB/BSG/WPSS/60.0 series	21
4.	72 m 3 lane	B-10425 series	RDSO/Infra-II/B&S/ROB/BSG/WPSS/72.0 series	42

- As already instructed vide Ref.1 for MODEL QAPs, it is to reiterate that for sending QAP/WPSS proposals to RDSO involving RDSO standard BSG for above mentioned spans, only the Top Sheet needs to be signed and sent to RDSO. Sample Top Sheet is attached with this letter for ready reference.
- This Top Sheet shall be signed by representative of Contractor, Fabricator and Zonal Railway/ Railway PSU (minimum JAG rank



officer). Only this signed Top Sheet will be sent to RDSO. Approval and confirmation of RDSO regarding undertaking the inspection work shall be quickly issued by RDSO B&S Dte. once Top Sheet(s) duly filled up and signed is received by RDSO.

5. If more than one type of girders are involved in a single project then for each type of girder separate Top Sheet is required to be signed and sent to RDSO.
6. All other processes and instructions issued by RDSO or Railway Board etc. with respect to WPSSs shall remain applicable as before. Cases of WPSSs of Non- RDSO span girders shall continue to be processed same as before.
7. **Scope:** Usage of these RDSO issued MODEL QAPs and MODEL WPSSs is limited to those cases of fabrication inspection, where RDSO has been chosen as an Inspection Agency and use of RDSO standard drawing is being done. Where other third-party Inspection Agencies like RITES, CEIL, WRI, KRCL etc. are engaged, the QAP/WPSS shall be approved by the Inspecting Agency chosen on their own as instructed by Railway Board vide Ref. 3. The MODEL QAPs being issued have no bearing whatsoever on the QAP/WPSS to be followed by these third-party Inspection Agencies for their inspection cases.
8. The above mentioned MODEL WPSSs have been uploaded on RDSO Railnet website for easy access of all concerned. All the revised Top Sheets along with Model QAP are also available there.
9. Although utmost care has been taken to formulate these instructions and MODEL WPSSs, if any discrepancy/ error/ 'mismatch with previous instructions' is still found, the same may kindly be intimated as feedback to RDSO so that the new system may be made flawless. The purpose is to eventually make the system of QAP/WPSS approval quick and error free.

  
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(Rajesh Kumar Srivastava)  
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Encl. : Top Sheet Proforma

**TOP SHEET FOR SUBMITTING 'QAP AND WPSS' FOR FABRICATION OF RDSO STANDARD WELDED BOW STRING GIRDER**

**PART-A (TOP SHEET)**

S.No.	Item		Details
1	Name of Project		
2	Zonal Railway jurisdiction		
3	Executing organization of the contract agreement (i.e. Zonal Railway/ Railway PSU/NHAI or any other government agency)		
4	Contractor Agency		
5	Fabricating Agency		
6	Inspecting Agency		RDSO
7	QAP No.		RDSO/Infra-II/B&S/ROB/BSG
8	Contract Agreement no. & date		
9	LOA No. & date		
10	Completion date as per Contract Agreement/LOA		
11	Date of MoU Between fabricator and Contractor, if applicable		
12	Scope of fabrication (no. of spans x span length in meter) proposed for fabrication		
13	Scope of fabrication in MT (Only Bow String Girder(s))		
14.	GAD Approved by		
15	RDSO Drawing Nos. used		
	RDSO Drawing no. for ISMB Intermediate Cross Girders		RDSO/B-10413 (Latest Revision)
16	Specifications		

**Note: 1. It is certified that fabrication work shall be executed as per RDSO model QAP mentioned above.**

**2.It is certified that for welding purpose, RDSO MODEL WPSS No.....will be followed.**

Contractor	Fabricator	Zonal Railway/Railway PSU	RDSO
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