

## TECHNICAL SPECIFICATION

### 1. **SCOPE OF WORK/ SUPPLY:**

The scope of work shall comprise the manufacture, testing, inspection and supply of Rocker & Roller Bearings, complete in all respects, conforming to RDSO Drawing No. RDSO/B/17164 (Alt. 3) or the latest revision applicable on the date of bid submission.

The bearings shall be supplied complete with Anchor Bolts and Anchor Pins, but excluding Saddle T.F. Bolts, Nuts and Washers, and shall be suitable for 30.5 m Span Steel Plate Girders (25T Loading–2008) for Bridge Nos. 1373DN, 1496UP and 1496DN of Waltair Division, East Coast Railway.

The materials shall be new, unused, free from manufacturing defects, and shall be supplied along with all applicable Manufacturer's Test Certificates (MTCs), inspection reports, quality certificates, and other documents as specified in the tender.

| Sl. No. | Description                                                                                                                                                              | Quantity            |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 01      | Rocker & Roller Bearings conforming to RDSO Drawing No. RDSO/B/17164 (Alt. 3), complete with Anchor Bolts and Anchor Pins, excluding Saddle T.F. Bolts, Nuts and Washers | <b>09 Span Sets</b> |

**Note:** One (01) Span Set shall comprise a complete set of four (04) Rocker & Roller Bearings, consisting of two (02) Fixed Bearings and two (02) Expansion Bearings, complete with all associated Anchor Bolts and Anchor Pins, but excluding Saddle T.F. Bolts with Nuts and Washers, strictly conforming to above RDSO Drawing.

### 2. **TECHNICAL SPECIFICATIONS:**

The Rocker & Roller Bearings shall be designed, manufactured, tested, inspected and supplied strictly in accordance with RDSO Drawing No. RDSO/B/17164 (Alt. 3) or its latest revision, the applicable RDSO specifications, relevant Indian Standards (IS), and the requirements stipulated in this Tender Document.

The bearings shall be:

- Manufactured from sound, homogeneous, and defect-free materials of the specified grade.
- New, unused, and free from cracks, laminations, casting defects, corrosion, distortion, or any other manufacturing defects.
- Dimensionally accurate and interchangeable with the requirements of the applicable RDSO drawing.
- Supplied complete with all components specified in the scope of supply, including Anchor Bolts and Anchor Pins, but excluding Saddle T.F. Bolts with Nuts and Washers.
- Suitable for installation on 30.5 m Span Steel Plate Girders (25T Loading–2008) without any modification.

All bearings shall undergo the prescribed **inspection and testing** in accordance with the applicable RDSO specifications and approved quality

assurance procedures. The successful bidder shall furnish the following documents along with each lot of supply:

- Manufacturer's Test Certificate (MTC).
- Inspection Certificate issued by the competent inspecting authority, wherever applicable.
- Dimensional Inspection Report.
- Material Test Certificates for all principal components.
- Guarantee/Warranty Certificate.
- Any other certificates/documents specified in the applicable RDSO specifications or this Tender Document.

The materials shall be subject to inspection and acceptance by BBJ/ Indian Railways/ or any other Railway-approved inspecting agency. Any material found not conforming to the specified drawings, technical specifications, quality requirements, or inspection criteria shall be rejected and shall be replaced by the successful bidder at their own cost and risk, without any additional financial implication to BBJ.