

## **About Directorate:**

- RDSO, an ISO 9001 certified organization, is sole R&D organization of Indian Railways. It also functions as the technical adviser to Railway Board, Production Units and Zonal Railways. RDSO is involved in development of new and improved designs, absorption of new technology for use on Indian Railways, development of sources for supply of products as per RDSO design and Specifications etc.
- As per policy directive of Railway Board, separate Quality Assurance Directorate was to be created for Mechanical, Civil, S&T and Electrical Departments headed by Executive Directors. Accordingly, Quality Assurance Civil Directorate started functioning since January, 2003.
- The purchase inspection of five safety critical P-Way items (GRSP, GFN, Dowels, CMS crossings & AT welding portions), which was earlier being done by I&L Directorate of RDSO were transferred to this Directorate in September, 2004.

## **Main Activities of Directorate:**

The main activities of Directorate are as under:

- Multi sourcing and Vendor Development for Specified Items (22 Items at present)
  - Fresh approval of Vendors
  - Re-assessment and Re-Certification of approved Vendors
  - Up-gradation/Down-gradation of Vendors.
  - Publication of Master List of approved Vendors & its updation.
  - Assessment of Production capacity of vendors.
- Concrete Sleeper Plants
  - Development of New Concrete Sleeper Plants.
  - Development of existing Concrete Sleeper Plants for manufacture of Special Sleepers.
  - Oversight Inspection of Concrete Sleeper Plants.
- Purchase Inspection of Five Safety Critical P-Way Items viz. CMS Crossings, Grooved Rubber Sole Plates, Glass filled Nylon Liners, HDPE Dowels and AT Welding Portions.
- Up-gradation of Schedule of Technical Requirements (STRs) & Quality Assurance Plans (QAPs).
- Training of Zonal Railway Officers for inspection of P-Way components as required.

## List of Approved Vendors:

- .1 The Directorate maintains the list of approved vendors of following safety critical items, which are controlled by Civil Engineering Directorates of RDSO.

<b>S.No.</b>	<b>Item Name</b>
<b>Controlling Directorate: Quality Assurance Civil Directorate (QAC Dte.)</b>	

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| 1.  | SGCI Inserts                                   |
| 2.  | Elastic Rail Clips Mk-III                      |
| 3.  | Elastic Rail Clips-J                           |
| 4.  | Glass Filled Nylon (GFN-66) Liners             |
| 5.  | Polyethylene Dowels                            |
| 6.  | Grooved Rubber Sole Plate (GRSP) 6 mm Thick    |
| 7.  | Grooved Rubber Sole Plate (GRSP) 10 mm Thick   |
| 8.  | Nylon Cord Reinforced Elastomeric Pads         |
| 9.  | Metal Liners                                   |
| 10. | Glued Insulated Rail Joints                    |
| 11. | Fibre Glass Cloth                              |
| 12. | HTS Hex Bolts & Nuts                           |
| 13. | Glue   |
| 14. | Fabricated Curved Switches                     |
| 15. | Fabricated Crossings                           |
| 16. | CMS Crossings                                  |
| 17. | IRS Design of Switch Expansion Joints          |
| 18. | Single Coil Spring Washer                      |
| 19. | Fish Plates                                    |
| 20. | Fish Plate Bars                                |
| 21. | Alumino-Thermic Welding of Rails               |
| 22. | Spring Setting Device for O.R. Curved Switches |

<b>Controlling Directorate: Track Design Directorate</b>	
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| 1. | Reconditioning of Cupped Welded Joints                                |
| 2. | Reconditioning of Wheel Burns/Scabs                                   |
| 3. | IRS Hard Facing Electrodes for Reconditioning                         |
| 4. | H3C Class Electrodes (Minimum Life – 50 GMT)                          |
| 5. | Improved Switch Expansion Joint for 65 mm gap (Max.)                  |
| 6. | Improved Switch Expansion Joint for 80 mm gap (Max.)                  |
| 7. | Cast Manganese Steel Crossings B<br>(60 Kg 1 in 16 & Special Layouts) |
| 8. | Elastic Rail Clips Mk-V   |

<b>Controlling Directorate:</b>	<b>Bridges &amp; Structures Directorate (B&amp;S Dte.)</b>
1.	Steel Bridge Girders
2.	POT-PTFE Bearings
3.	Elastomeric Bearings
4.	Expansion Joints

The list is updated twice every year i.e. on the 1<sup>st</sup> of January and 1<sup>st</sup> of July.

.2 Monthly correction slips are being issued for items controlled by QAC Directorate to add or delete or update/modify the vendors status and names.