Sub: Innovations and system improvements in Indian Railways

CME/SCR through his MCDO for the month of November, 2012 has informed about the following innovations/system improvements carried out by Rayanapadu workshop/SCR on the freight side:

- Modernized gauging system for measuring Double cup and cones of CTRB
- Ring Gauge for Adapters

The same is enclosed for your kind information.

Encl: 2 pages

Copy to: EDS(W)/RDSO

(Gaurav Puri)
Deputy Director, M(N)
5. System Improvements

5.1 Ring Gauge for Adapters: (Rayanapadu Workshops)

Contact surface of the adapter over the CTRB double cup outer surface is very critical factor. Irregular concave surface of a adapter bore results non uniform loading pattern on the double cup and further on to the rollers. Improper (uneven) contact causes breakage of the double cup during service leading to hot axle. To detect the quality or irregularities on the surface of adapter bore, shop has developed a ring gauge. This gauge is placed on the adapter bearing area to notice any irregularities in the bore surface visually or by using feeler gauges. This gauge also useful to check the bore dimensions (i.e., curvature) of the new adapters before assembling on the bogies.