

No.EL/3.2.13
Dated 25.10.99
Chief Electrical Loco Engineer,

- Central Railway, Mumbai CST - 400001.
- Eastern Railway, Fairlie Place, Calcutta- 700001
- East Central Railway, Chandrashekharpur, Bhubaneswar-751001.
- Northern Railway, Baroda House, New Delhi-110001
- North Central Railway, Hasting Road, Allahabad-211001.
- Southern Railway, Park Town, Chennai-600003
- South Central Railway, Rail Nilayam, Secunderabad- 500371
- South Eastern Railway, Garden Reach, Calcutta-700043
- South Western Railway, Bangalore- 560046
- Western Railway, Churchgate, Mumbai-400020
- West Central Railway, Jabalpur
- New Zone Railway, Bilaspur
- Chittaranjan Locomotive Works, Chittaranjan- 713331

SPECIAL MAINTENANCE INSTRUCTION NO.RDSO/ELRS/SMI 0214-99/REV.'0'

1.0 Title

Standardization of the gauge and instructions for measuring loco wheel diameter (B.G)

2.0 Brief History

While investigating the derailment of 1077 jhelum Express between Ballabgarh & Faridabad of Central Railway on 29.3.1998, CRS/Western Circle recommended vide para no. 9.5 of his report as follows;

"The Railway should standardize the gauge for measurement of wheel diameters and lay down instructions on its use".

Accordingly, the instructions received from M.P Directorate of RDSO vide their letter no. SD.WATP dated 11.10.99 are being reiterated through this SMI.

3.0 Application:

All B.G. A.C. and AC/DC Electric Locomotives.

4.0 Object:

To standardize the gauge as well as instructions for measurement of loco wheel diameter and other parameters.

5.0 Instructions:

5.1 Wheel diameter measurement during service:

- 5.1.1 Use standardize wheel gauge to RDSO drg.no. SKDL.3592 (Alt.-5). This gauge will be used for measurement of flange wear, root wear, tread wear, flat wheel and in position measurement of wheel diameter. The method of measurement using this gauge is shown in RDSO drg. no. SKDL-4260 (Alt.-2)

- 5.1.2 The periodicity of measurement of wheel dia and other parameters will be same as prescribed in their respective MPMIs;

S. N.	MP.MI No.	Applicable to
1.	MP.MI.-36/73, Alt I of April 1979.	WAM4, WCAM1, WCAM2, WAG5A/B/C,H
2.	MP.MI.-90/80, Alt I of July 1993.	WAP1, WAP4
3.	VLMI-01/96 of Nov. '96	WAG7, WCAM3
4.	MP.MI -139/88* of June '98	WAP3, WAP6

* Basically applicable to Flexi-coil mark II bogie. The instruction with regard to measurement of wheel parameters will remain the same for flexicoil mark IV bogie also.

- 5.2 Wheel diameter measurement during reprofiling in the sheds:
Wheel device available with under floor pit wheel lathe to be used.
- 5.3 Wheel diameter measurement on loose wheel sets:
Use the standardized micrometer fitted trammel gauge to RDSO drawing no. SKDL - 4477. The gauge is also to be used on loose wheel sets in POH workshops and Production Units. Alternatively, measuring device available with the wheel lathe can also be used.
- 5.4 Use of all other gauges presently in use for wheel dia/other parameters' measurements, must be discontinued.
- 6.0 Instruction Drawing:**
SKDL-3592 (Alt.5),
SKDL-4260 (Alt.2)
SKDL-4477.

- 7.0 Agency for Implementation:**
All Electric Loco Sheds, POH Workshops & CLW.

- 8.0 Periodicity of Implementation:**
As per respective MP.MI for Electric Locomotives.

- 9.0 Distribution:**
As per mailing list.

Encl: NIL

(O.H.PANDE)
For Director General/Elect.



