

No. RW/24013/3/2000-RMP(Pt.)

Dated, the 19th December, 2000

To,

The Engineer-in-Chief and Chief Engineers of State PWDs and U.Ts (dealing with National Highways);
Director General Border Roads; Director General (Works), Central Public Works Department; Chairman,
National Highways Authority of India

Subject : Rolling with drive wheel forward in the direction of paving

You are aware that with steel wheel rollers compaction should always be done with the drive wheel forward in the direction of paving. This is especially important during break-down rolling. This requirement is also mentioned in the relevant MOST specifications for bituminous work except for the B.M. work. It is, however, clarified that this requirement is important for the B.M. work also.

It is observed often that contrary to above, sometimes break-down passes by three-wheeled roller is carried out with front roll (driven roll) forward in the direction of paving. Front roll being the free roll, commencing break-down rolling with it will lead to shoving of the asphalt mat. Same results in loss of compaction effect and development of short transverse cracks on the asphalt mat.

To get rid of the above said problems and to ensure better compaction it is requested that particularly during break-down rolling by three-wheeled rollers, rolling should commence with rear rolls forward in the direction of paving as indicated in the enclosed diagram. This should be brought to the notice of all concerned.

[Enclosure to Ministry's Circular No. RW/24013/3/2000-RMP(Pt.) dated 19th December, 2000]

BREAKDOWN ROLLING BY THREE-WHEEL ROLLER PROPER DIRECTION OF TRAVEL

