

## **Recycling of Bituminous Pavements**

The technology of recycling has become extremely important particularly in urban areas where the levels of roads are rising year after year due to frequent maintenance activities, creating drainage problems and making roads impassable on many occasions. In addition, recycling techniques also help in conservation of natural occurring resources (materials) thus, enabling minimization of environmental degradation.

Following are the general steps in a Hot In-Place Recycling (HIR) process:

- Conduct Pavement evaluation to find out and feasibility to use Hot In-Place Recycling Process on a given road
- Thickness and quality/ properties of the existing asphalt surface
- Design to add mix to fulfill the criteria of Bituminous Concrete mix design as per MoSRTH specification, 4<sup>th</sup> revision, 2001.
- Existing asphalt surface of pavement is softened by circulating hot air through low level infrared heating system.
- The softened material is milled up to 30 mm depth
- Milled material is mixed with fresh material in desired proportion , laid and compacted to achieve specified density.

CRRRI has necessary capabilities to assist road departments and contractors in implementation of recycling techniques and can provide its technical expertise on the same.

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