



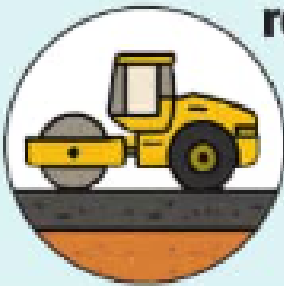
Full Depth Reclamation (FDR) Technique

Why in News?

The **Madhya Pradesh Public Works Department (PWD)** is improving the road using **Full Depth Reclamation (FDR) technique** to address persistent pothole issues and ensure a smoother journey for visitors to the [Bhojpur temple](#) in Bhopal.

FULL DEPTH RECLAMATION BENEFITS

FDR is often more economical than traditional reconstruction methods because it reuses existing materials



➤ The process can significantly enhance the structural capacity and lifespan of the roadway



➤ By recycling in-place materials, FDR reduces the need for new materials & minimizes waste



FDR can be completed relatively quickly, minimizing disruption to traffic



Full Depth Reclamation (FDR)

- **About:** FDR is a process similar to "**recycling**" roads. Rather than discarding old asphalt, the **technique grinds** up the existing road material and **mixes it with underlying soil**.
 - This mixture forms the foundation for the new road, creating a **fresh, durable surface**.
- **Reinforcement:** To further strengthen the base, a binder such as **cement, lime, or asphalt emulsion is added**.
 - This binder acts like glue, holding the materials together and ensuring a solid foundation that can withstand heavy traffic and weather conditions.

- **Benefits of Full Depth Reclamation:**

- **Cost-Effectiveness:** The technique is **economical** as it reuses existing materials, reducing the need for new resources.
- **Durability:** The stabilised base layer can **endure wear and tear** for a long period, providing a sustainable solution to the road's upkeep.

Bhojpur Temple

- It is situated in Bhojpur, Raisen District, Madhya Pradesh.
- It was built in the **11th century** by Raja Bhoj of the **Paramara dynasty**.
- It is dedicated to Lord Shiva, and included in the [UNESCO World Heritage Sites](#) tentative list in 2024.

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