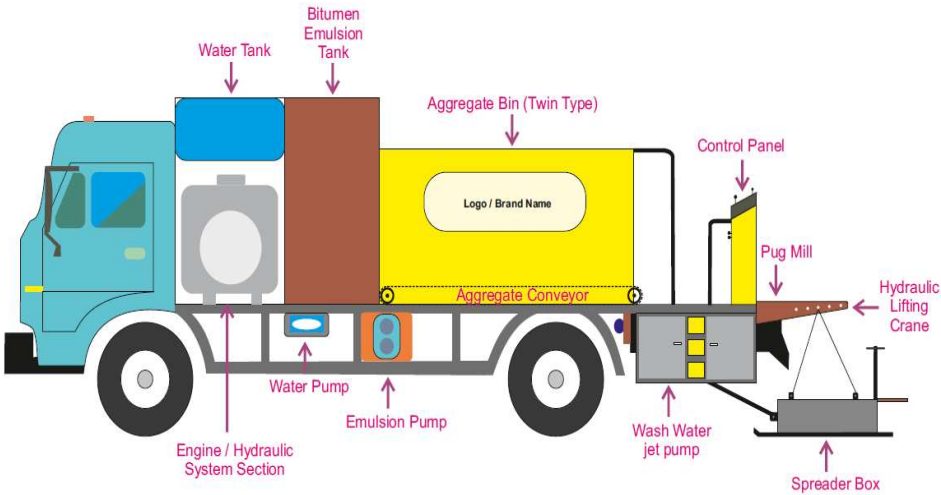


CC-resilient Road Building Technology in Himalaya

NMHS-Project PI:
Dr. Siksha Swaroopa Kar, CSIR-CRRI, New Delhi

Eco-Friendly Road Building Technology for the Himalayan Regions

- Laboratory mix design with emulsion and different type of filler contents (as per climatic condition)
- **Mobile Cold Mixer-cum-Paver (MCMP)** technology developed
- Patent filed and technology transferred & trademark
- 1000-m road constructed (Jhimar, Uttarakhand)
- **Policy document of Know how** prepared and transferred to BRO, NRIDA



Machine Prototype

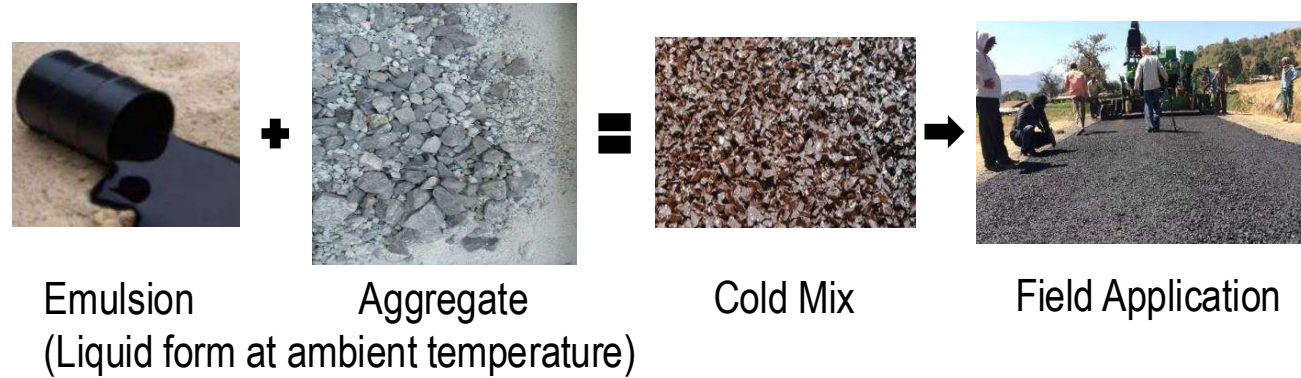
Technology Specifications

Engine Power:	70kW
Emulsion Tank Capacity:	1000 Litres
Water Tank Capacity:	1000 Litres
Additives Tank Capacity	100 Litres
Fillers Tank Capacity:	200 kg
Discharge Capacity of Mixer:	≤700 kg/min
Paving Width:	1.75 ~ 2.25 m (manually adjustable)
Overall Dimensions:	5.5m×2.2m×2.4m (L×W×H)



Green Road Pavements

Green Road Pavements:



Cold Mix Technology



Comparison with Conventional Method

Parameters	Conventional Process	Mechanized Process
Total No. of Labors involved	15	7
Total stretch made in a day	200 m	1200 m
Fuel consumption per day	8 Liters	6 Liters

Mechanized Construction Process, using the developed **Machine Prototype**