

## Technology in Brief

The utilization of Kota stone waste (KSW) for the development of value-added building products has been done by studying the engineering and chemical properties of Kota stone waste. This waste is being used as replacement of fine aggregates, coarse aggregate and very fine aggregate, to develop flooring-cum-wall tiles, paver blocks and lightweight concrete (LC) blocks.

## Salient Features/Advantages

- High performance factor.
- Light weight, strong & easy application.
- Excellent thermal and sound insulation.
- Cost-effective and durable.
- Reduced reliance on natural resources.
- New economic opportunities.
- Employment generation through setting up of industry.
- Saving of natural resources (Sustainable construction, green materials).



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|---------------------------|---|
| Properties & Standards    | Meeting the Specifications of IS: 1237, IS: 15658, IS: 2185 and IS: 6598  |
| End Product(s)            | 1) Floor Tiles-Light Traffic Loads & Heavy Traffic Conditions<br>2) Paver Blocks-Non Traffic to Heavy Traffic Conditions<br>3) CFC Blocks-Infill Materials & Brick Replacement  |
| License/Commercialization | M/s Rajasthan State Pollution Control Board (RSPCB), Jaipur   |
| TRL                       | 8   |
| Environmental Impact      | a) Reducing environmental impact by setting up Secondary industry for utilization of waste.<br>b) Saving of natural resources (Sustainable construction, green materials) reduced environment impact.<br>c) Minimization in environmental pollution.  |
| Awards/Recognitions       | Director's Best Technology Award-2017   |
| Linkedin Video Link       | <a href="https://www.linkedin.com/posts/csircbri_csir-india-pradeep-kumar-ramancharla-rajesh-activity-7359749239268167680-vjSq?utm_source=share&amp;utm_medium=member_desktop&amp;rcm=ACoAAE1ijyABshTzQUwK7Dj8mksi4yko5dqW6LA">https://www.linkedin.com/posts/csircbri_csir-india-pradeep-kumar-ramancharla-rajesh-activity-7359749239268167680-vjSq?utm_source=share&amp;utm_medium=member_desktop&amp;rcm=ACoAAE1ijyABshTzQUwK7Dj8mksi4yko5dqW6LA</a> |
| Youtube Video Link        | <a href="https://www.youtube.com/watch?v=ikVqNgR1hRw&amp;t=11s">https://www.youtube.com/watch?v=ikVqNgR1hRw&amp;t=11s</a>   |