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DEMOLITION WASTE MANAGEMENT OF CIDA-REGISTERED CONSTRUCTION COMPANIES IN JAFFNA DISTRICT AND POSSIBLE IMPROVEMENT STRATEGIES

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Abstract: Demolition waste comprises concrete, wood, brick, clay tile, steel, and asphalt shingles generated from demolishing structures. Jaffna district is selected as the study area. Illegal dumping of demolition waste has recently increased, and construction companies reuse the demolition waste for several purposes. It is necessary to study demolition waste management to determine whether the existing system has the quality and to save the environment. This study focuses on existing demolition waste management, the construction companies' awareness of the 4R Principle, and how it can be improved. Samples are selected from CIDA-registered construction companies belonging to the Jaffna district. It finds construction companies belonging to the Jaffna district have 'Trade-off' as the predominant practice of demolition waste management, they moderately follow the 4R Principle and they believe the government should take necessary action to improve waste management. As per the experts' opinion, durability is unpredictable while re-using demolition waste so educating, experimenting, and providing local recycling programs are the improvement strategies.

Keywords: Demolition waste management; Construction companies; 4R principle; Jaffna district