







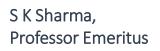
SESEI Seconded European Standardisation Expert in India Enabling Europe-India Cooperation on Standards CENELEC FISHORY IN INC.



#### Online Workshop/Webinar on Role of Standards & Policy in Resource Efficiency and Circular Economy Transition in India and the EU

January 21, 2022, at 14:00 – 17:00 Hrs. (IST) / 09:30 – 12:30 Hrs. (CET)

## BIS CHD 34: ISO TC 323











# Need for Circular Economy

- Indian per capita consumption raw material at 4.2 tons per capita, which is less than ½ of global average. It is bound to increase with economic growth.
- India consumed nearly one -twelfth of the total raw materials extracted globally in 2010.
- if we continue with current linear economy model of 'take-make-dispose' of resources, Indian demand for primary raw material will triple to 15 billion tonnes by 2030 and 25 billion in 2050.
- Main drivers are growing middle class and unprecedented levels of urbanisation,
- Indian imports more than 77% of its energy requirements
- India Imports 80-100 % of critical raw materials
- India has recognised the urgent need to build a new economic model of development such as circular Economy, in which growth is decoupled from resource utilisation and depletion, thus reducing untenable demand for development.



### Indian Focus areas in Circular Economy

Abiotic materials viz. steel and aluminium	Two waste streams: e-Waste and construction and demolition
Aluminium production in 2020 stood at 3.55     MMT approximately	e-waste(5.2 million tonnes per annum) and construction and demolition (C&D) waste
Opportunity for CE to find productive uses of	<ul> <li>(150 million tons) Only 1% recycling capacity).</li> <li>BIS 383.2016 describe the use of concrete made from reycled material and processed C &amp;D waste.</li> </ul>
waste and sufficient availability of high-quality aluminium scrap	
The crude steel production in India reached     140 mpta	
• Recycling of one tonne of scrap saves 1.1 tonne of iron ore, 0.6-0.7 tonne of coking coal and around 0.2-0.3 tonne of fluxes.	
Other waste or by-products like slag developed during production can be reused	











#### **BIS and Sustainability standards**

- CHD 34 committee of BIS is engaged in developing modular standards suitable for small and medium scale industries in the area of Environmental Management, life cycle assessment and other sustainability issues.
- Already 25 standards on sustainability issues have been developed and five more are at advanced staged. These include standards on environmental management, Life cycle assessment.



## **Circular Economy Standards**

- CHD 34 committee of BIS is actively participating ISO TC 323 committee for the formulation of following circular Economy Standards.
  - circularity Terminology, principles , framework and management system standard
  - Practical approach to develop and implement circular economy
  - Measuring and assessing circularity
  - Circular economy in practice: experience feedback
  - Product data sheet







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