

MaS-SHIP presented at the 9th GRIHA Summit 2017

19th December 2017

India Habitat Centre, Lodhi Road, New-Delhi

Emerging findings from the MaS-SHIP project were presented at a session on 'Rethinking Construction Materials for a Sustainable Future' at the 9th GRIHA Summit held on 18th and 19th December, 2017 in New Delhi.

Ms Megha Behal from TERI provided the background and context for the **MaS-SHIP** project which aims to promote sustainability as an integral part of social housing in India, given that the housing sector is energy and material intensive, contributing to about 24% of the total CO2 emissions.

Ms. Behal described one of the key outputs of this project - the **Sustainability Index (SI) which is designed** to evaluate building materials and technologies based on a series of attributes that have been developed in the project. Due to the challenge of data availability for building the SI primary data collection methodology through surveys to gain first hand insights from the developers, building material manufacturers and social housing residents. To assign weightings to the attributes of the MaS-SHIP Sustainability Index, a survey questionnaire based on AHP (Analytic Hierarchy Process) methodology has been developed. As a mock survey, Survey forms were distributed amongst participants in the GRIHA Summit and 40 responses were received.



Image 1: Main speakers at the session on 'Rethinking Construction Materials for a Sustainable Future'

Other prominent experts present at the session also expressed their views on the aspect of building sustainability in India. *Dr Shailesh K Agrawal (BMTPC, Government of India)* emphasised the need for faster construction techniques and a sustainable building rating system for housing developments for the Economically Weaker Section (EWS). On a similar note *Saurabh Diddi (Bureau of Energy*

Efficiency) also stressed on anticipating the green aspects of construction and pre and post-occupancy energy consumption in buildings.

Dr Sameer Maithel (Greentech Knowledge Solutions) mentioned that about 75% of the construction sector in the country is unorganised, and highlighted that though the share of alternate construction technologies would increase in the future, brick masonry is likely to remain an important building material. *Cesare Saccani (ICMQ Certification India Pvt. Ltd.)* discussed EPD (Environmental Product Declaration) as quantified environmental data of the product with predefined parameters based on International Standards 14040 supplemented by qualitative and quantitative environmental information.

Finally, *Mr V. Revindran from Sinicon*, showcased a fire/heat proof and climate control Plaster and Concrete Aggregate, which can help improve the fire resistance and thermal conductivity of walls.