



Setting the theme:  
The GRIHA Summit 2016

**Ms. Mili Majumdar**

Secretary cum Treasurer, GRIHA Council

# 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> 5<sup>th</sup>, 6<sup>th</sup> & 7<sup>th</sup> GRIHA Summit

Platform to share experiences of all stakeholders...

## 2<sup>nd</sup> Conference 3<sup>rd</sup> Conference

Mandatory 3 Star compliance for government buildings

80 registered projects

Launch of GRIHA Manuals  
123 trainers;  
103 evaluators

## 3<sup>rd</sup> Conference

Launch of SVA GRIHA & large development guidelines

>180 projects with >8 million sq m registered

238 trainers; 227 evaluators

## 4<sup>th</sup> Conference

Launch of GRIHA for large developments, product catalogue & mobile app

>300 projects with >10 million sq m registered

>600 evaluators & trainers

## 5<sup>th</sup> Conference

Launch of GRIHA Prakriti, upgraded version of mobile app

>425 projects with >13.5 million sq m registered

>700 evaluators & trainers

31 buildings rated so far

## 6<sup>th</sup> Conference

Launch of LEED EB

>575 projects with >21

million sq m registered

>900 evaluators & trainers

30 buildings rated so far

## 7<sup>th</sup> Conference

GRIHA recognized as India's own rating system in INDC .

>700 projects with >28 mn sq m registered

>1000 evaluators & trainers

42 buildings rated so far

70 pre-certified

## 1<sup>st</sup> Conference

Launch of ADaRSH- 2010

30 registered projects



# GRIHA Timeline

2000

- TERI conducted over 100 building audits
- TERI Retreat constructed as Green building

Rail Nirman Nilayam, Secunderabad



2007

- MNRE adopts GRIHA as a National Rating system for green buildings
- ECBC code released in India

Ministry of New and Renewable Energy, Govt

Grand Chola, ITC Hotels Ltd, Chennai



Administrative building for PCNTDA, Pune



2009

- Committee of secretaries: 3 star GRIHA mandatory for all Government Buildings
- CPWD adopts GRIHA
- Acknowledged as an Innovative tool by UN



Akshay Urja Bhawan HAREDA, Panchkula



2011

- GRIHA adopted by PCMC (Premium discounts to developers and property tax rebate for buyers announced in PCMC for GRIHA rated projects)
- EC linked to GRIHA pre-certification
- Committee of secretaries recommends upscaling of GRIHA
- ADaRSH and CREDAI sign MoU

SIDBI Training Center, Bhubaneswar



2013

- Launch of GRIHA LD rating for large development
- GRIHA app launched for android
- GRIHA new user-friendly metro design website launched
- GRIHA adopted in Noida (FAR incentive for GRIHA rated projects in Noida)
- GRIHA adopted in Greater Noida (FAR incentive for GRIHA rated projects in Greater Noida)



- SVA GRIHA adopted by PCMC (Premium discounts to developers and property tax rebate for buyers announced in PCMC for SVA GRIHA rated projects)
- GRIHA adopted in Punjab (FAR incentive for GRIHA rated projects in Punjab)
- GRIHA adopted in Kerala

VVP Circuit House, Pune



2015

- Launch of GRIHA A GRIHA LD v.2015
- Government of West Bengal, Department of Municipal Affairs adopts GRIHA
- FAR for GRIHA projects in Rajasthan
- FAR for GRIHA projects in Pune
- FAR for AUDA (Ahmedabad Urban Development Authority)



SDB 7&8, Infosys Ltd, Chennai



- TERI GRIHA released Indigenous green building rating of INDIA

2005

Developed by



The Energy and Resources Institute

Supported by



Ministry of New and Renewable Energy, Govt

Fortis Memorial Research Institute, Gurgaon



- National mission on sustainable habitat launched

2008

SABIC Research & Technology Pvt. Ltd, Bangalore



- Evaluators' and trainers' programme launched

2010

Panedas Residence, Guatemala City



GRIHA product catalogue

GRIHA LD



www.sidbi.com

- Launch SVA GRIHA rating for buildings less than 2,500 sq. m
- GRIHA product catalogue launched
- Guidelines for large development launched
- Concessional rate of interest for GRIHA rated projects by SIDBI

2012

Indira Paryavaran Bhawan, New Delhi



Ministry of Urban Development



- Launch of GRIHA Prakriti rating for existing day schools
- GRIHA app for iOS launched
- MoUD, Delhi Division, Govt FAR incentive for GRIHA rated projects
- MoU signed between USGBC and TERI
- Sikkim adopts GRIHA

2014

Manipal University Campus, Jaipur



United Nations Framework Convention on Climate Change

**GRIHA** recognized as India's own green building rating system in **INDIA'S INDC** submitted to **UNFCCC**.

# GRIHA PROJECTS' UPDATES & LINKED INCENTIVES

**GRIHA REGISTERED PROJECTS=700**  
**GRIHA FOOTPRINT=28MN/M<sup>2</sup> (APP)**

Ministry of Urban Development (MoUD) gives **1% to 5%** extra ground coverage and FAR for projects of more than 3,000m<sup>2</sup> plot size on the basis of GRIHA evaluation.



Delhi



Uttar Pradesh

**NOIDA & G.NOIDA: 5% Additional FAR** for projects of plot area > 5,000m<sup>2</sup>

**5% Additional Floor Area Ratio (FAR)**



Punjab

**5% Additional FAR** for projects of plot area > 5,000m<sup>2</sup>



Rajasthan



Sikkim

Mandate for all government projects to go for minimum 3 Star GRIHA rating



Gujarat



Maharashtra

- **10% Additional FAR**
- Fast-track sanction of Plans

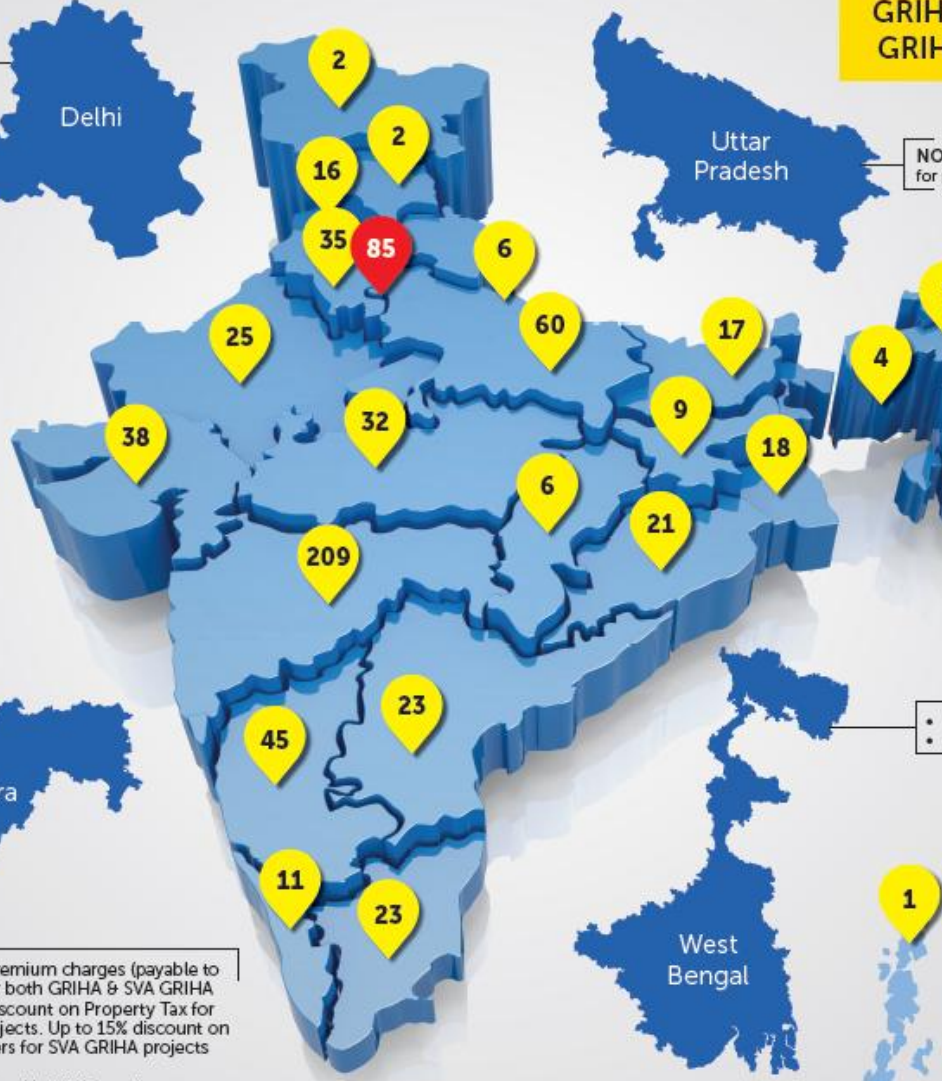


West Bengal

1

### OTHERS

1. Fast track Environmental Clearance by Ministry of Environment, Forest and Climate Change (MoEF&CC) for GRIHA pre-certified projects.
2. Financial assistance of INR 5 lakh by Ministry of New and Renewable Energy (MNRE) for each of the proposed 100 Small Townships/Campus.
3. Concession on rate of interest (presently 50 Basis points) by Small Industries Development Bank of India, SIDBI.



- **PMC & PCMC:** Discount in Premium charges (payable to Municipal Corporation) — for both GRIHA & SVA GRIHA
- **PMC & PCMC:** Up to **10%** discount on Property Tax for home-owners for GRIHA projects. Up to 15% discount on Property Tax for home-owners for SVA GRIHA projects

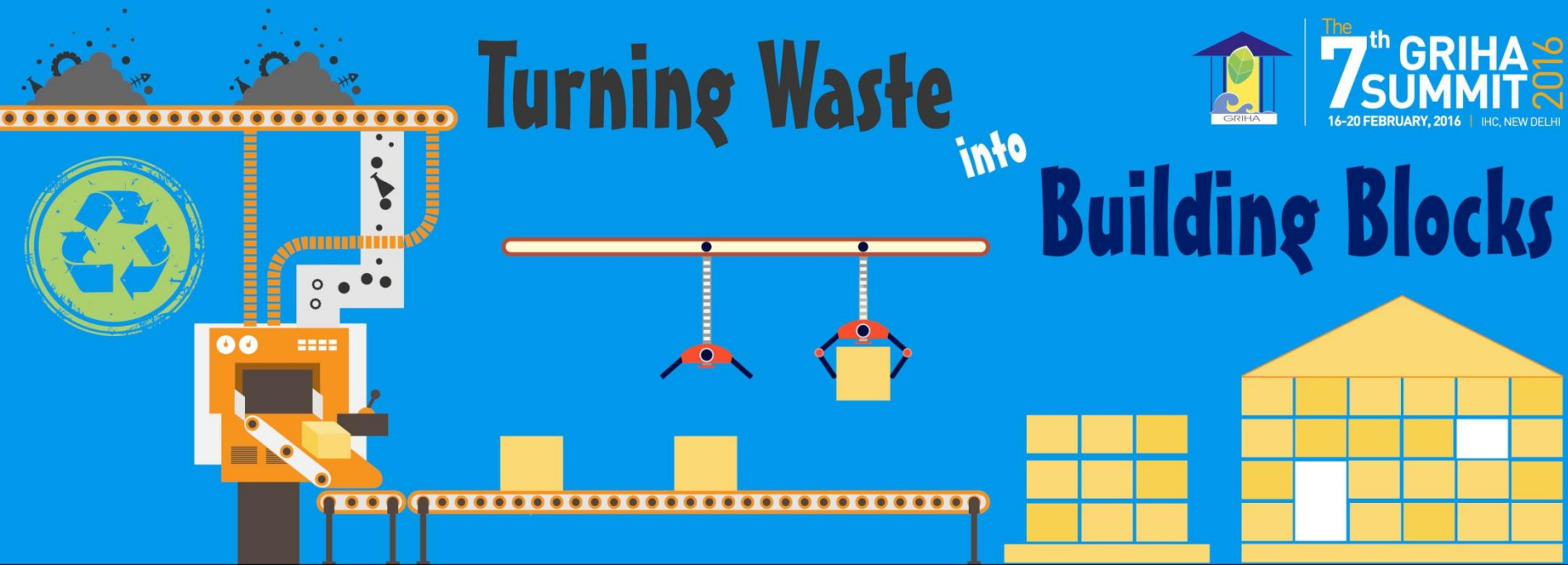
**AUDA: 5% discount** on chargeable FAR payable to approving authority

\*The numbers indicated in the map represent registered projects for Rating with GRIHA Council.

# 7<sup>th</sup> GRIHA Summit highlights

- First two GRIHA LD projects rating award
- GRIHA & SVA GRIHA awards
- Awards for exemplary performance
- 13 technical sessions
- 70 eminent speakers
- 7 side events
- First GRIHA V 2015 - certified professional & evaluator program
- Award of NASA GRIHA Trophy
- Site visits to Solar energy center - GRIHA registered project
- Over 25 sponsors and partners

# Turning waste into building blocks



# Social upliftment & income equality

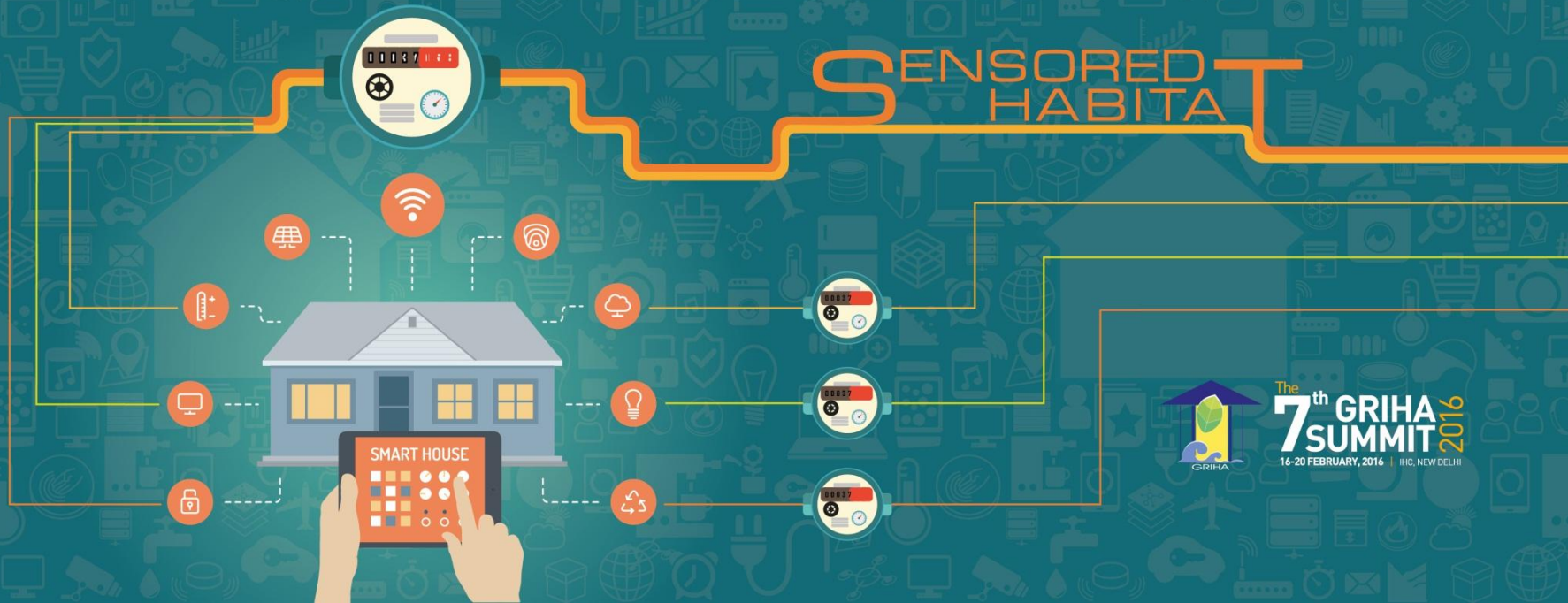


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**SOCIAL  
UPLIFTMENT**  
&  
**INCOME  
EQUALITY**

# Sensored habitat





# Indoor environment quality



## Indoor Environment Quality



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In Partnership with



# Decoding sustainability



# Getting around in the city



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## Getting Around in the City



# Future of the cities

## Future of the Cities



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# Green lifestyle



**GREEN  
LIFESTYLE**



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# Site visit- Solar energy centre





Thank You

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