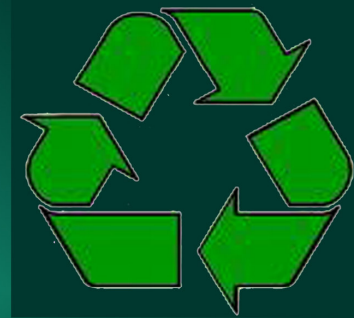


Monograph on



CII-Godrej GBC, Hyderabad



STATUS OF GREEN BUILDINGS IN CITIES OF INDIA

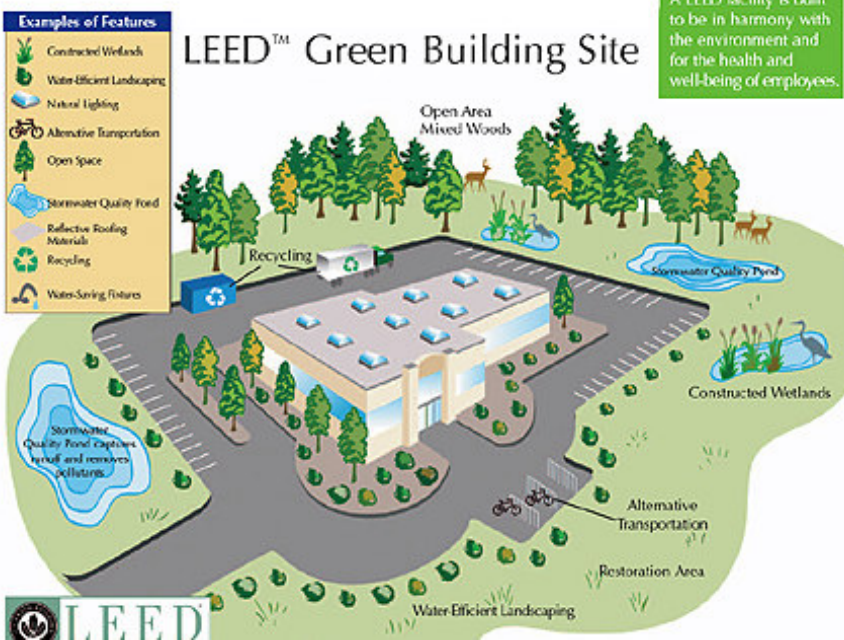
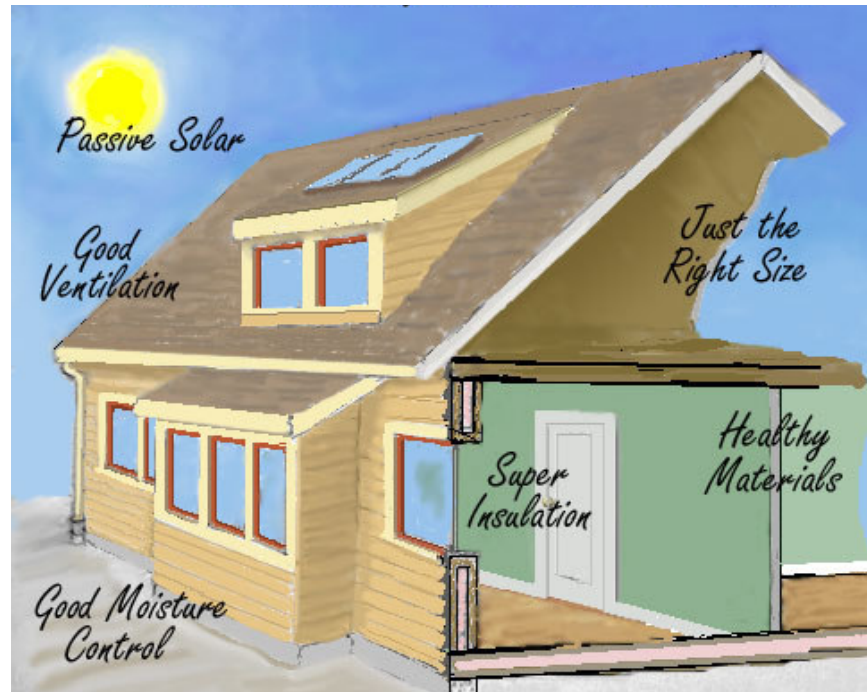


**ENVIS Centre on Human Settlements
School of Planning and Architecture
New Delhi - 110002**



GREEN BUILDINGS:

Green building is the practice of increasing the efficiency with which buildings use resources — energy, water, and materials — while reducing building impacts on human health and the environment, through better site, design, construction, operation, maintenance, and removal (i.e) the complete **Building life cycle.**

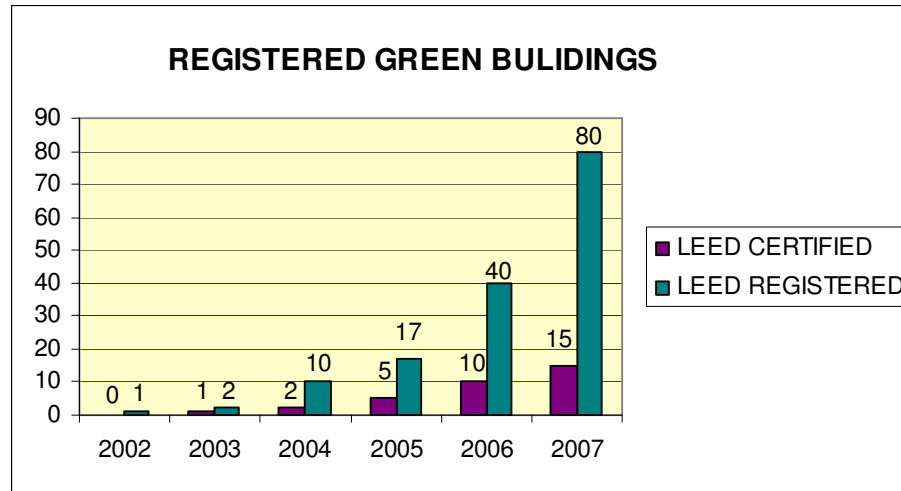


LEED RATING FOR BUILDINGS:

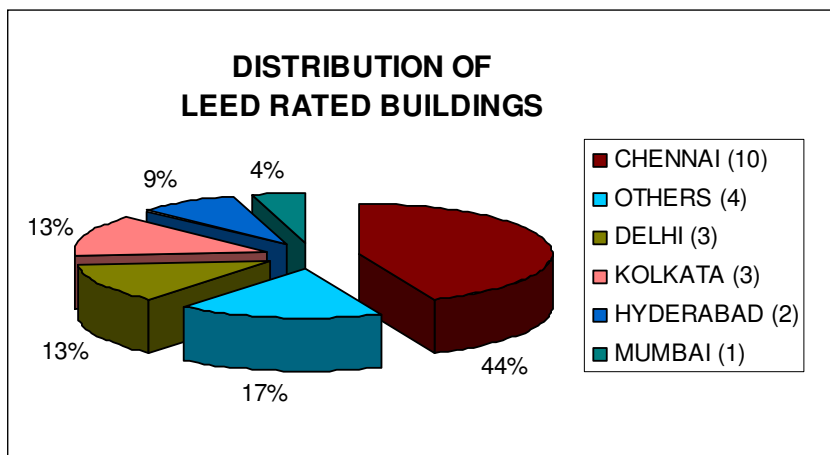
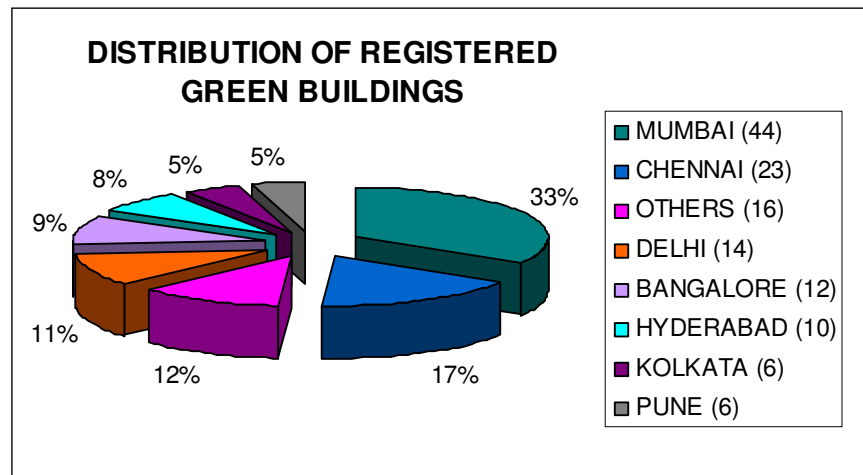
The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria.

The Leadership in Energy and Environmental Design (LEED-INDIA) is a Green Building Rating System is a nationally accepted benchmark for the design, construction and operation of high performance green buildings. There are 150 LEED registered green buildings and 23 LEED certified green buildings in India.

The following graph shows the number of green buildings registered with LEED India during 2002-2007.

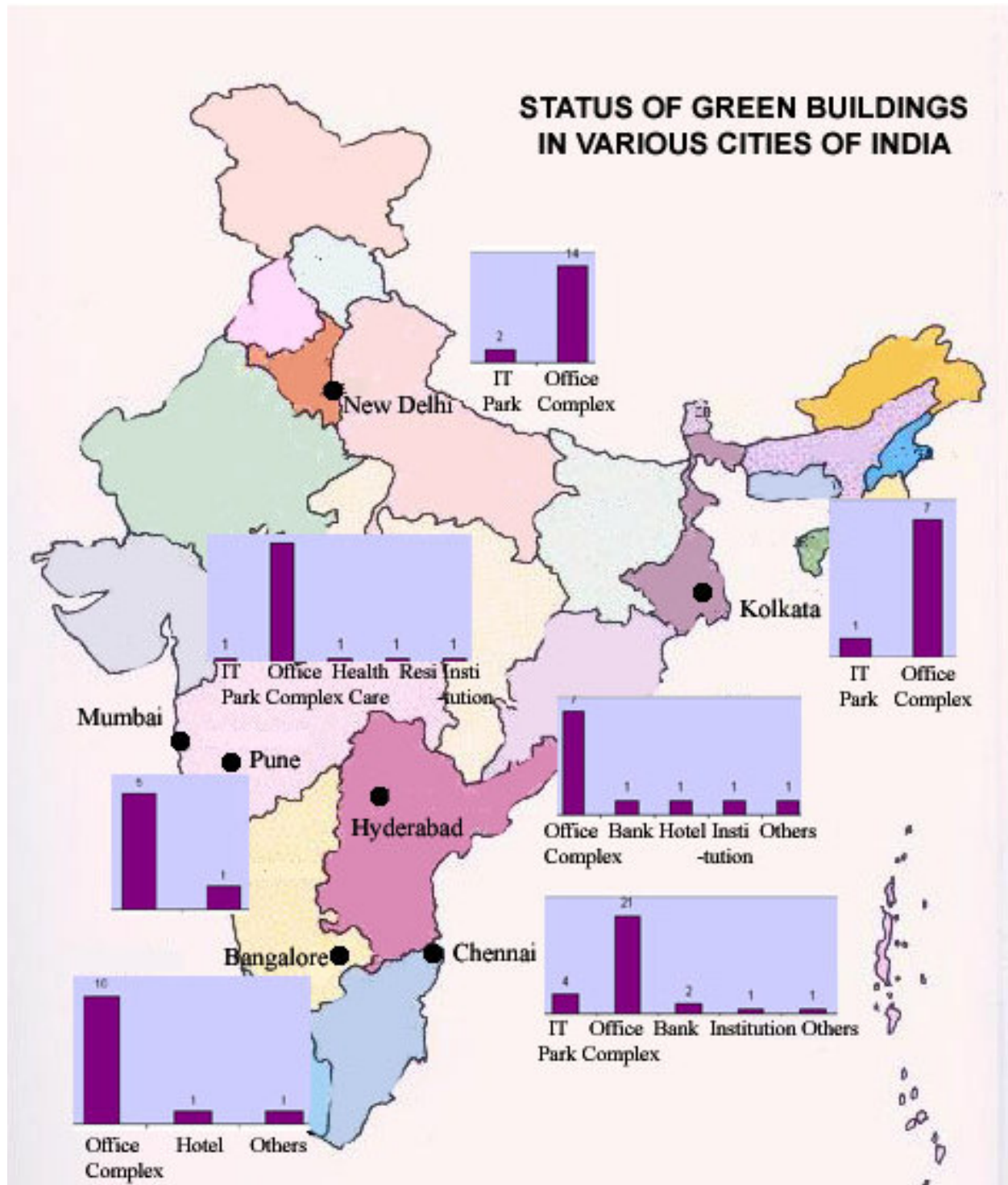


The **LEED registered** Green buildings are more in Mumbai (44 buildings). But the interesting thing to be noted is that the number of **LEED rated** buildings is the least in Mumbai (1 building) of all cities.



Whereas Chennai has the maximum number of LEED Rated Green Buildings (10 Nos.) with 23 LEED Registered Green Buildings.

STATUS OF GREEN BUILDINGS IN VARIOUS CITIES OF INDIA



REGISTERED GREEN BUILDINGS - CITY WISE (IGBC Registered)

CITY	NAME	TYPE OF BUILDING	PUBLIC/PRIVATE
NEW DELHI	ITC Green Centre, Gurgaon	OFFICE	PRIVATE
	Wipro Technologies, Gurgaon	OFFICE	PRIVATE
	Spectral Services consultancy Private Ltd, NOIDA	CORPORATE OFFICE	PRIVATE
	North Delhi Power Limited	CORPORATE OFFICE	JOINT VENTURE
	ONGC	OFFICE	PRIVATE
	Patni Computer Systems Ltd	IT FACILITY	PRIVATE
NEW DELHI	Skyline Aviation Pvt Ltd	OFFICE	PRIVATE
	Vipul Limited, Gurgaon	OFFICE	PRIVATE
	Mahindra Lifespace Developers Limited	OFFICE	PRIVATE
	Liberty Whitware Limited	OFFICE	PRIVATE
	Jawaharlal Nehru Bhavan (Ministry of External Affairs)	GOVT OFFICE	PUBLIC
NEW DELHI	Environmental Design Solutions	OFFICE	PRIVATE
	Noida Cyber Park Pvt. Ltd., Noida	OFFICE	PRIVATE
	TSI Ventures	OFFICE	PRIVATE
	KLG Systel Limited	OFFICE	PRIVATE
	Advant IT Park Limited	IT SECTOR	PRIVATE
CHENNAI	Grundfos Pumps India Pvt Ltd	OFFICE	PRIVATE
	World Bank building	BANK	PUBLIC
	NEG Micon	OFFICE	PRIVATE
	Rane Institute for Employee Development	INSTITUTION	PRIVATE
	Olympia Tech Park	IT PARK	PRIVATE
	Vestas Wind Technology		PRIVATE
	L&T ERDC	OFFICE	PRIVATE
	RMZ Millenia Business Park	OFFICE	PRIVATE
	ETL BPO Park	IT PARK	PRIVATE
	ABN Amro Central Enterprise Services Private Ltd.	BANK	PRIVATE
CHENNAI	L&T TC II Building	OFFICE	PRIVATE
	Turbo Energy Limited	OFFICE	PRIVATE
	Urbane Industries	OFFICE	PRIVATE
	Chennai Tech park	IT PARK	PRIVATE
	ECCI Info Park	IT PARK	PRIVATE
	AMTI Tech Park	IT PARK	PRIVATE
	Cee Dee Yes Housing and Infrastructure Ltd.		PRIVATE
	Eureka Forbes Institute of Environment	OFFICE	PRIVATE
	Modine Thermal Systems Private Ltd.	OFFICE	PRIVATE
	Ashok Leyland Properties Ltd	OFFICE	PRIVATE

CHENNAI	FLSmith Pvt Ltd	OFFICE	PRIVATE
	Syntel International Pvt Ltd	IT OFFICE	PRIVATE
	Soundarya Decorators India Pvt Ltd	OFFICE	PRIVATE
	Great Lakes Institute of Management	INSTITUTION	PRIVATE
	Limelight Property Solutions India Pvt Ltd.	OFFICE	PRIVATE
	Faery Estates Private Limited.	OFFICE	PRIVATE
	Southern Railway	OFFICE	PUBLIC
	Wipro Technologies	OFFICE	PRIVATE
	Newgen Imaging		PRIVATE
	Tata Consultancy Services Limited	OFFICE	PRIVATE
	Srinivasa Shipping & Property Development Ltd.	OFFICE	PRIVATE
	Kapico Hospitality Private Limited	OFFICE	PRIVATE
KOLKATA	Ambuja – Ecospace (Udayan Greenfield)	IT PARK	PRIVATE
	Technopolis	IT PARK	PRIVATE
	RMZ Ecospace	CAMPUS	PRIVATE
	Confederation of Indian Industry	OFFICE	PRIVATE
	Fort Projects Private Limited		PRIVATE
KOLKATA	Infinity (Benchmark)	IT PARK	PRIVATE
	Synthesis Business Park	IT PARK	PRIVATE
	Srijan Properties Pvt Ltd.	IT PARK	PRIVATE
	Saraf Nirmaan & Commerce Limited		PRIVATE
MUMBAI	Hiranandani – B G House, Powai	CORPORATE OFFICE	PRIVATE
	ONGC	CORPORATE OFFICE	PRIVATE
	Kalpataru Square	OFFICE	PRIVATE
	Neelakanth Tech Park	IT PARK	PRIVATE
	Mittal Builders	OFFICE	PRIVATE
	Enercon Tower	CORPORATE OFFICE	PRIVATE
	Bellamy Investments & Trading Co. Pvt. Ltd.	OFFICE	PRIVATE
	Flagship Infrastructure Pvt Ltd	OFFICE	PRIVATE
	Mumbai Metro One Private Limited		PPP
MUMBAI	L& T Ltd	OFFICE	PRIVATE
	Godrej & Boyce Mfg. Co. Limited		PRIVATE
	Reliance Energy Limited	OFFICE	PRIVATE
	Asian Health Care	HEALTH CARE	PRIVATE
	Shree Ram Urban Infra (Palais Royale)	RESIDENTIAL COMPLEX	PRIVATE
	Larsen & Toubro Limited, Ahmednagar,	OFFICE	PRIVATE
	Hosmac India Pvt Ltd.	OFFICE	PRIVATE
	Rehab Housing Pvt Ltd.	OFFICE	PRIVATE
	Thermax Ltd.	OFFICE	PRIVATE

MUMBAI	ACC Limited	OFFICE	PRIVATE
	Johnson Diversey India Pvt Ltd.	OFFICE	PRIVATE
	Indiabulls Properties Pvt. Ltd.	OFFICE	PRIVATE
	Lodha (i-THINK) campus	IT PARK	PRIVATE
	Logitech Park, Mumbai	OFFICE	PRIVATE
	Lodha (Apollo Mills Compound)	OFFICE	PRIVATE
	TMCB 2, Mumbai	OFFICE	PRIVATE
	GMS Construction Co. Pvt Ltd.	OFFICE	PRIVATE
	K Raheja Universal Private Limited	CORPORATE OFFICE	PRIVATE
	K Raheja Corporation	CORPORATE OFFICE	PRIVATE
	SKM Fabrics (Andheri) Limited,	OFFICE	PRIVATE
	Intime Properties Pvt. Ltd.	OFFICE	PRIVATE
	Sundew properties Pvt. Ltd.	OFFICE	PRIVATE
	GMS Construction Private Limited	OFFICE	PRIVATE
MUMBAI	HCC Real Estate Limited	OFFICE	PRIVATE
	Lodha Developers Private Limited	OFFICE	PRIVATE
	Lodha Excellus	OFFICE	PRIVATE
	Keystone Realtors Private Limited	OFFICE	PRIVATE
	Mahindra Lifespace Developers Limited	OFFICE	PRIVATE
	Neelkanth Urban Developers Pvt Ltd	OFFICE	PRIVATE
	Akruti City Limited	OFFICE	PRIVATE
	Mahindra Lifespace Developers Limited	OFFICE	PRIVATE
	Aqualine Properties Pvt. Ltd	OFFICE	PRIVATE
	Gigaplex – Airoli	OFFICE	PRIVATE
	Ivory Property Trust, Kalina C &D	OFFICE	PRIVATE
	Shree Ram Infrastructure Ltd.	OFFICE	PRIVATE
	Serene Properties Pvt. Ltd.	OFFICE	PRIVATE
BANGALORE	IMTMA	EXHIBITION & CONVENTION CENTRE	PRIVATE
	Vikas Telecom Limited		PRIVATE
	Hozman Property Management Private Ltd. Hotel	HOTEL	PRIVATE
	RMZ Corp, Whitefield	OFFICE	PRIVATE
	Wipro Technologies	CORPORATE OFFICE	PRIVATE
	Motorola India Pvt Ltd	OFFICE	PRIVATE
	Bearys Global	OFFICE	PRIVATE
BANGALORE	GE India Technology Centre	OFFICE	PRIVATE
	RMZ Esplanade	OFFICE	PRIVATE
	Tata Xylem Building	OFFICE	PRIVATE
	Interface	OFFICE	PRIVATE
HYDERABAD			

	Management		
	CII – Sohrabji Godrej Green Business centre	OFFICE	JOINT VENTURE
	Hyderabad International Airport	PASSENGER TERMINAL	JOINT VENTURE
	ICICI Tower	OFFICE	PRIVATE
	Hyderabad Urban Development Authority	OFFICE	
HYDERABAD	Tata Chemicals	LABORATORY & OFFICE	PRIVATE
	Microsoft	IT OFFICE	PRIVATE
	Sundew properties Pvt. Ltd.,	OFFICE	PRIVATE
	HSBC	BANK	PRIVATE
	Indu Projects Limited,	OFFICE	PRIVATE
	Lake Plaza Hotels (park)	HOTEL	PRIVATE
	Pocharam (Serene Properties Pvt. Ltd.)	OFFICE	PRIVATE
PUNE	Commerzone	OFFICE	PRIVATE
	Indian Railway Institute of Civil Engineering	INSTITUTION	PUBLIC SECTOR
	Kirloskar Brothers Limited	OFFICE	PRIVATE
	Wipro Limited	OFFICE	PRIVATE
	New Consolidated Construction (Thermax)	OFFICE	PRIVATE
	Suzlon Energy Ltd	OFFICE	PRIVATE
OTHERS	Royal Engineering College, Ahmedabad	INSTITUTION	
	Wipro technologies, Kochi	OFFICE	PRIVATE
	LIC Office, Shimoga	OFFICE	PUBLIC SECTOR
	IGP Office, Gulbarga	OFFICE	PUBLIC SECTOR
	ONGC, Dehradun	CORPORATE OFFICE	PRIVATE
	Aquamall Water Sol, Dehradun	OFFICE	PRIVATE
	TCS, Trivandrum	OFFICE	PRIVATE
OTHERS	TCS, Bhubaneshwar	OFFICE	PRIVATE
	VESTAL, Visakhapatnam	OFFICE	PRIVATE
	Minestone Green Diamonds, Navsari	DIAMOND POLISHING UNIT	PRIVATE
	ABN Amro, Ahmedabad	BANK	PRIVATE
	Burt Hill Design Pvt. Ltd., Ahmedabad	OFFICE	PRIVATE
	Hozman Property Management Private Ltd. Resort, Coorg	RESORT	PRIVATE
	Cethar vessels, Trichy	OFFICE	PRIVATE
	Karnataka State Police Housing Corporation Ltd., Gulbarga	OFFICE	PUBLIC SECTOR

TERI GREEN RATED BUILDINGS:

TERI – GRIHA is a Green building rating system by TERI INDIA to facilitate design, construction, operation and evaluation of environment friendly buildings. The following is the list of green buildings rated by TERI under TERIGRIHA:

1. Hitkarini college of Engineering and Technology, Jabalpur.
2. Residential Building for ITC Limited, Kolkata.
3. Earth System & Environment Science Engineering Building, Indian Institute of Technology, Kanpur.
4. Triburg Headquarters, Gurgaon, M/s Uchit Holdings Pvt. Ltd. Mehrauli, New Delhi.
5. Bengal Shristi Infrastructure Development Limited, Kolkata.
6. The Doon School, Dehra Dun.
7. Office of Public Works Department, Nashik.
8. Suzlon Energy Limited, Pune.
9. Delhi Public School, Aligarh.
10. Fortis hospital, New Delhi.



Doon School, Dehra Dun



Picture above: ITC Green Centre, Gurgaon

SOURCES:

- www.igbc.in
- www.cii.org
- www.architectureweek.com
- www.austrade.gov.au/Green-building-to-India
- www.teriin.org