

# **EIA and Sustainable Buildings**

What Ails EIA for Building and Construction Projects?



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source: www.visualphotos.com

# **Buildings and Construction Projects**

- Discussion on EIA and Buildings is Unique
- Environment Impact Assessment (EIA) is generally associated with industries, mining, hydropower, thermal plants etc.
- They are the more visible sectors in EIA
- The debate on EIA rarely features building projects and is generally the odd one out

# Buildings Sector less Visible because.

- Regulatory Approach reflects this attitude
- Civil society still take up Building sector Issues
- For other sectors NGOs, people's organizations are actively Campaigning
- But there is little understanding about building sector impacts and pressures



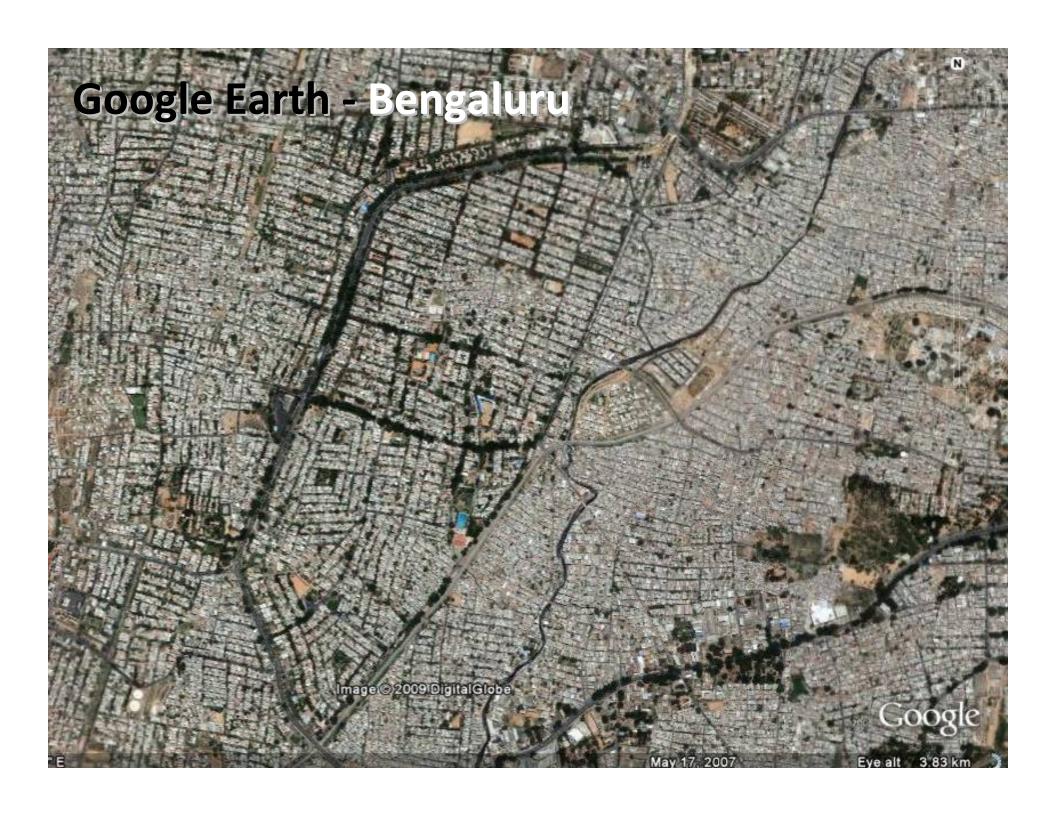
# Realization is Setting in...

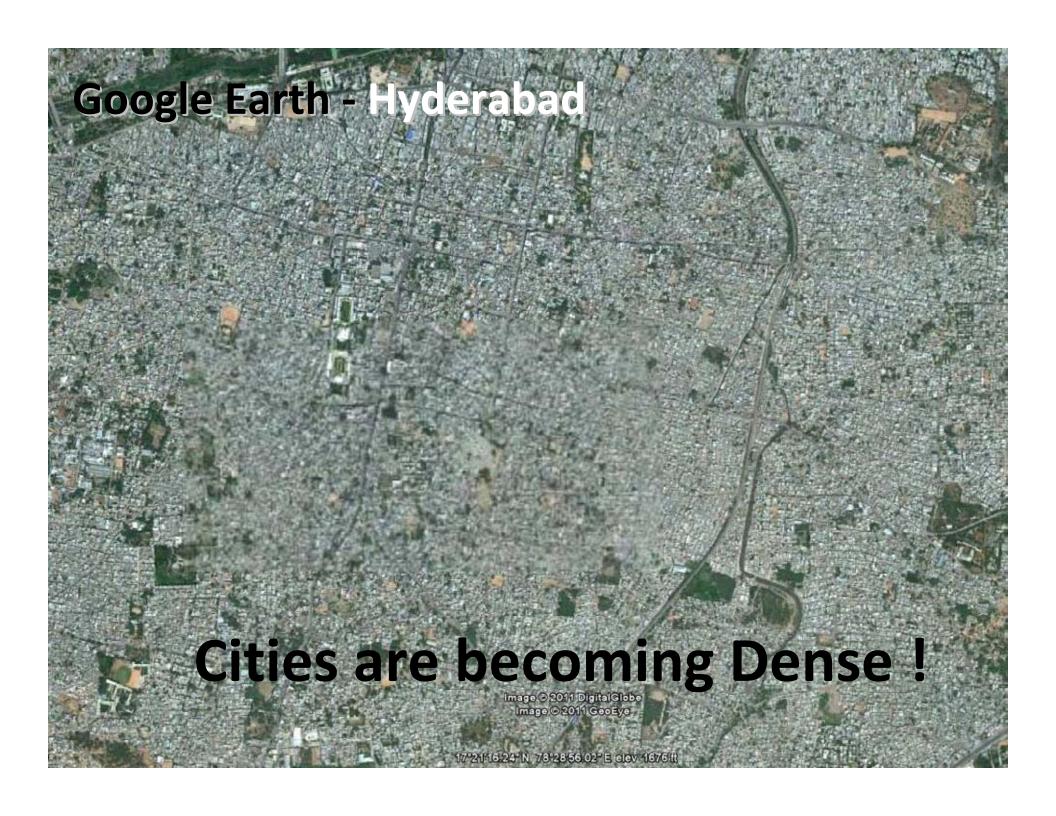
- We are beginning to see the reactions and voices by the neighborhoods and communities
- People are now up in arms against projects that threaten their land, resources and existence
- E.g. Lavasa, Commonwealth Games Village, greater Noida (Bhatta parsaul), Vasant Kunj Ridge Malls, Mangar Bani
- That is the reason CSE's Sustainable Building Unit decided to take this up

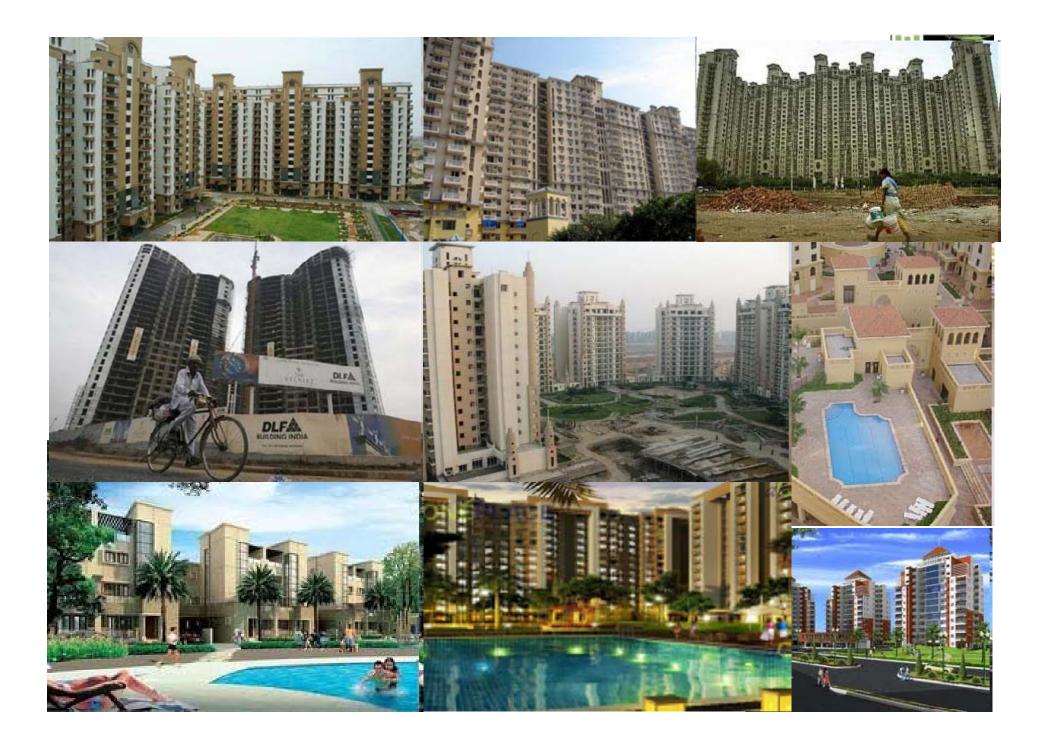


# What Buildings have done to our Cities?





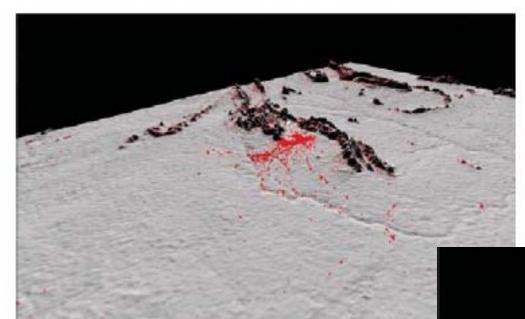






# **Urban Growth in Jaipur**





1975

Cities are Expanding!

2008









Buildings- DLF city Gateway tower, Gurgaon Source: 24x7bangalore.blogspot.com

# Cities are changing Construction Styles!

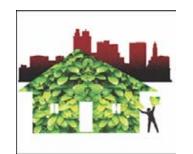
# **Buildings are a BIG Concern**



- They consume more than 30% of Energy
- About 20% of Water
- Responsible for 30 % of Waste Generation
- Consume about 30% of Raw Material

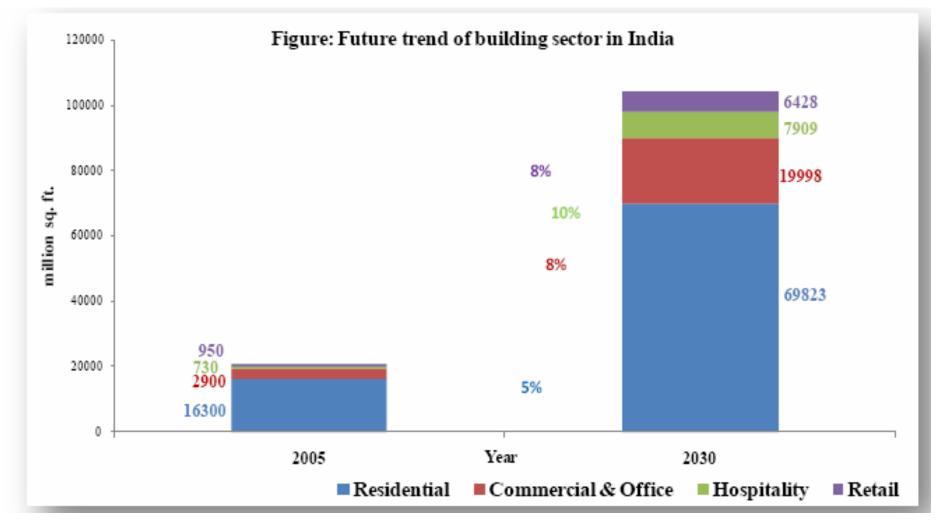
Responsible for about 40% of CO2 Emissions

Source: Tara Nirman Kendra, 2008



# Majority Building Stock Yet to Come





Source: Environmental Design solutions 2010/CW

# Therefore EIA becomes Crucial, but



- We seriously need to see whether EIA is working and delivering?
- Environmental Clearance for building sector is for Namesake, Weak and Ineffective
- Mere Formality of form 1 and 1A
- No Detailed Study, Assessment or Real Post Project Monitoring
- Implementation issues common to other sectors for which EIA is required

### **But some Specific Issues**

- Site Selection- Site Location and Sensitivity Criteria not part of EC Review
- Post Facto clearances: Projects that never took clearance being granted post facto EC after construction and even operation
- Build without consent: There are no effective mechanisms to ascertain whether actual construction has started prior to the EC
- Loophole in Project Classification: MoEF yet to issue guidelines for townships projects' detailed EIA
- Master plans need to have an EIA but not the Case
  - e.g Mangar Bani



### **Specific Issues**

- Public Consultations: MoEF's 2005 draft notification had public hearing clause, but was never incorporated in the 2006 Notification.
- Subjective and Futile Rating for Proposal
   Documents: Committees accorded ratings like gold, silver etc. to the reports; could be used by proponents for their projects promotion.
- No Benchmarking- Water, Energy allocation is not against benchmarks. So monitoring against what?

## **Specific Issues**



- Prior approvals without consent: EC has been accorded to projects even prior to them receiving NOCs from local authorities
- Environmental Clearance beyond area's Carrying Capacity
- Inconsistent and Contradictory Information
- Error in Estimation
- Cosmetic Conservation
- 'COPY -PASTE' Job by Consultants
- Non Compliance in Critical EC Conditions
- Metering for Monitoring Missing
- Alignment with other building regulations ECBC, NBC ???
- EC letters, Compliance Reports not Public on MoEF website

#### **NO BENCHMARK**

# CSE reviewed 51 'Minutes of the Meetings' Haryana's SEAC, 2008- 2009

- 2%of the total residential projects had actually stated 135 lpcd (CPHEEO)
- 22% projects had per capita water consumption >150 lpcd
- Variation 48- 226 lpcd
- 47% have lpcd 50-100
- Either these buildings are highly water efficient or these are unsubstantiated estimates

#### **COPY PASTE**



3 meeting of Haryana SEAC had absolute similar water requirements and wastewater generation. EC conditions were exactly similar.

But their built up areas are different, ranging from 19,000 - 1,48,000 sq mt

#### **ECs IN WATER STRESSED AREAS**

- 5th meeting of the Haryana SEAC held in March 2009 have granted EC to 3 projects from DLF despite recognizing water scarcity in the area
- Project falls in the 24 villages notified by the CGWA
- CGWA bans exploitation of groundwater in such areas
- HUDA will not be able to supply water to this project in 3 years



### **Mockery of EC**

Proposed Residential colony 'estate one' Ludhiana Punjab - Contradictions.

- Form 1 states the total domestic water requirement as 902 KLD
- Project water requirement has three different values in form 1 and 1A

Bestech India's proposed IT-Complex, Parkview Business Tower, Gurgaon.

- Water requirement stated 1048 KLD
- Wastewater generated 330 KLD (only 30% will be wastewater generated)
- STP capacity 400 KLD
- Thumb rule of 80 % WW should be around 838 KLD, STP very low capacity

#### Aditya Infracon in Jasola Delhi

- Claimed built up area was 19,991 sq mt.
- Inspections revealed built up area was 20,323 sq mt.
- Consent for withdrawal 120 KLD, withdrawing 230 KLD

### **Visible Non-Compliance to EC Conditions**





Green belt ???



- Not more than 40% glass in buildings
- No Surface Parking



### **Problem Mindset???**

MoEF's EIA process views that as opposed to other Project Categories buildings should be cleared on the basis of form 1/1A and don't require detailed EIA Process because their impact on the environment is low.

But really, Buildings are waste creators as well as waste wasters!

### What is the stand of Real Estate industry?



The Confederation of Real Estate Developers Association of India (CREDAI) proclaims

Real Estate Industry sees themselves as VICTIMS!

- The only waste produced by purely residential, commercial retail projects is human waste
- Environmental clearance process is tedious and herculean process; needs to be discontinued with immediate effect
- Further leniency in the EIA process for building projects
- Supported MoEF's proposal to relax the area criteria from 20,000 to 50,000 sqm
- Wants EC's monitoring reports to be removed as it doesn't serve any purpose
- Wants clearances by the planning authority at the planning approval stage, thus urban local bodies to provide clearances





- Information shared by MoEF with CSE under RTI is minimal and partial.
- Further it took MoEF far more than a month to respond to the two RTIs filed by CSE.
- It makes mockery of the appraisal process as evident in the wide gap between information.
- See the RTIs filed by CSE and their responses by the MoEF on CSE website, Conspiracy of Silence

(http://cseindia.org/content/conspiracy-silence)



### What CSE asked from MoEF?

List of Building 8(a) and Township 8(b) Projects reviewed and Cleared under the EIA Notification 2006

- List of projects that applied for EC
- List of projects that got EC with location, Project Proponent, year of clearance, built up area, stated water and energy consumption
- Status of Compliance reports- Regularity
- List of Post Facto Clearances



## What MoEF replied

- "No compilation of such information is readily available with the Ministry."
- "Not possible to provide this information as it is spread out and any effort in this regard would disproportionately divert the resources of public authority"
- The question is whether the compilation of building projects cleared by MoEF along with their basic details is wastage of public funds?
- If MoEF which is responsible for EC to projects does not have the information then who has it?

#### MoEF's Response to CSE's RTI

| S. No | Year | Projects that Applied for EC to MoEF |
|-------|------|--------------------------------------|
| 1     | 2006 | 785                                  |
| 2     | 2007 | 1235                                 |
| 3     | 2008 | 393                                  |
| 4     | 2009 | 53                                   |
| 5     | 2010 | 67                                   |
| 6     | 2011 | 181                                  |

| S. No | Year | Projects Cleared by MoEF |
|-------|------|--------------------------|
| 1     | 2006 | 175                      |
| 2     | 2007 | 640                      |
| 3     | 2008 | 487                      |
| 4     | 2009 | 101                      |
| 5     | 2010 | 59                       |
| 6     | 2011 | 52                       |

### **Conspiracy of Silence**

- It seems that MoEF has grossly underestimated the building projects that have applied or have been granted EC since 2006.
- Partial data available only for a few states indicate that the buildings that come for EC runs into thousands a year with huge area coverage.
- But, only in one state of Haryana, about 927 building projects have been reviewed for environmental clearance between 2008-2011

### So what are we saying then?



- Master plans/Zonal plans to have rigorous EIA
- Public consultation to be included for high impact projects like townships, area development projects
- Regular and Stringent Post Construction Monitoring
- Absolutely NO Post Facto Clearances
- Selection of Site to be considered in the EIA process
- Improve Quality of Information, transparency and Public disclosure
- Issue guidelines for EIA for township projects to have detailed EIA
- Energy and Water Audits mandatory post operation



### So what are we saying then?

- Enhance Capacity and promote coordination
- Introduce benchmarking of resource consumption
- Availability to determine Allocation- Carrying Capacity
- Harmonise Environmental Clearance with ECBC and National Building Code



# **Thanks**