We call it zero energy development. You'll call it indispensable.

2 days of the conference......

We heard about Glass!

We heard about Solar!

We heard about PV Panels!

We heard about Building Simulation!

Back to the BASICS

Brick, Mortar and Beyond......

Bread n butter of the Industry
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... deeper questions

- *Before releasing a drawing ...*
  - Can an Arch think of the river bed sand that that drawing will destroy?
  - Of the limestone it will deplete?
  - The forests it will destroy for coal the building will need?

Those Deeper Questions

- **Can we disrupt?**
  - A 100K Sft building weighs about 15,000 tonnes.
  - A 2K Sft house weighs about 280 tonnes.
  - Can we bring it down to half the weight, with half the matter being renewable?
... deeper questions

- Can we build without riverbed sand?
- Can we build without cement as a bonding agent?
- Can we cut use of steel and concrete by 30%?
- Can we stop using bricks, concrete blocks for building walls?

... deeper questions

- Can we aim at creating Offices, Homes, Hospitals, Hotels with ...
- Zero import of water,
- Zero export of waste,
- Zero import of energy
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BCIL’s Zed variety of green . . .

We use . . .

• no bricks, no clay blocks, no clay tiles, no ceramic or vitrified tiles for bathrooms or for swimming pools.

• NO forest timber, no incandescent bulbs, no regular fluorescent lamps, no halogen lamps.

• NO waste exported, no municipal water imported.

• 20% power imported from grid.
We use . . .

- no geysers for hot water in our homes.
- no synthetic fertilizers or pesticides.
- no kitchen waste exported.
- no HCFC CFC or ODS in natural air-conditioning we offer in every ZED home.
- no chemicals for treating water for drinking, or for swimming pools, or for water-proofing compounds at time of construction.

- no toxic paints for walls / metal / wood surfaces.
- nearly no plastering and paints for external surfaces.
- no diesel for gensets beyond up to about 30% of the fuel need. The rest 70% is renewable energy or bio-fuels.
• Costs us same as regular building
• Our customer price line is same, even less when competition is fierce
• No Water Supply connection. No Board Connection.
• Customers save 70% on energy bills
• They never suffer water shortage
• Their monthly campus maintenance cost is 35% less than regular apartments

More Q’s than A’s!
We are not a regular builder-company. Nor a regular consulting outfit. We are world leaders in green. We build housing projects, we offer consulting. We work on research with global institutions.

"If we're a builder company, Don Bradman is just another cricketer!"

We powerfully innovate, and manage uniquely. We cut project downtime and raise efficiency. We use no Water Board. We use no Sewage Board and only 20% power from Energy Board in every Zed building project.
We call it zero energy development. You’ll call it indispensable.

ZED buildings weigh 20% less than regular buildings; emit 30% less carbon. ZED homes save 30% energy, 60% fresh water, Zero waste exported.

At Zed, we offer:
• Build green to world standards.
• We offer 50 more features than a regular builder; at same cost.
• Offer saving of Rs 1 lac a house on maintenance every year over regular builder
We call it zero energy development. You’ll call it indispensable.

• **ZedHabitats**, the green builder division, has created 4 Platinum-rated buildings in 7 years. TZed Homes, Zed Collective, ZedWoods, ZedEarth. One of them was the world’s first post-construction platinum-rated green building.

• On the anvil are: ZedZone, ZedSeed, ZedCorbel, ZedTrestle.

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**Zed Earth**

Awarded SVAGRIHA 5 Star Rating with a highest score of 48 out of 50 points

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The Zextets of Zed...

The What’s and How’s

6 strands of green living

- Material – Materials that make for passive Cooling and Heating
- Water – ‘Grid-free’ water
- Waste – Efficient waste management
- Air – With 30% of regular cost
- Energy – Reduced (Zero, if possible) dependence on grid
- Biomass – Micro-climate based landscape
We call it zero energy development. You'll call it indispensable.
A Customer wants to see Benefits; Not Features

We call it zero energy development. You’ll call it indispensable.

The choice of energy-efficient hollow/cavity blocks as the walling units for your home ensure that heat gain inside the home is reduced. The air cavity insulates the interiors from the external heat; the pergola shading reduces the direct heat gain on the external surfaces—cooling your home by 30% to a regular building. You can even avoid fans.
We call it zero energy development. You’ll call it indispensable.

- Weighs Just 18 Kgs compared to normal solid blocks of 32 to 35 kgs
- 5500 blocks used in a Villa and savings of close to one Lakh Kg of materials.
- Cement Savings.

Building Blocks that save 2 mln Carbon KG for every 10,000 Sq meters of a building. … and don’t use sand in masonry!
We call it zero energy development. You'll call it indispensable.

Concealed Duct Masonry

Electrical Services

Plumbing services

Concealed Duct Masonry

Horizontal plumbing pipe
We don’t innovate.  
We only system-integrate.  
We cannot experiment at customer’s cost.  
Customer needs Reliability, Efficiency
We call it zero energy development. You'll call it indispensable.
A feature can [sometimes] appeal to a Customer
We call it zero energy development. You'll call it indispensable.
Internally, the hollow block walls are finished smooth in **gypsum plaster**, which not only does away with the use of energy-intensive cement but also requires no curing—thus saving water.
Elegant Décor – Low VOC Internal paints

All internal surfaces—walls and ceilings—are painted with **Low VOC** (Volatile Organic Compound) **paints** that emit no poisonous toxins over its lifetime—this ensures good indoor air health.

**Benefit for you:** **Clean finishes; long-lasting; great for asthmatics**
24 x 7 Green power - Energy efficient Lighting

• CFL bulbs & holders at every home, provided at BCIL cost.
• This reduces power consumption by 70% at individual home level. We have invested to save you money on monthly bills as much as Rs 250 a month.

Monthly Savings on your power bills: Rs. 226/-

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You grow your own water - Water Efficient fixtures

- To ensure that use of water is efficient, fixtures have been carefully selected that are low-flow.
- Faucets and showers with flow restrictors keep flow rates less than 7 litres/min.
- A concealed cistern ensures a dual flush of 3 & 1.5 litres.

Benefit to you: Saves nearly 105,000 liters a year in your home!
A ‘cool’ campus – Rain water management

• BCIL ZED Earth has invested in long term water security for the community. **Roof top rainwater harvesting** feeds the domestic water tanks and supplements the fresh water need. Runoff water from terrace and ground is directed into **percolation pits to recharge the aquifer**.

• You save on water tankers and extra water charges to city bodies

Monthly Savings on your water bills: You don’t pay for water bills
24 x 7 Green power - Solar water heating

- Every home at BCIL ZED Earth comes complete with a solar thermal hot water supply system of 150 lpd, backed up by a provision for a 15-litre, 0.5 KW energy-efficient geyser you can fit optionally in each bathroom.

Monthly Savings on your power bills: Rs. 202/-
We call it zero energy development. You’ll call it indispensable.

No export of waste

Organic kitchen waste management

A ‘cool’ campus – Waste segregated

Benefit for you: No Slinking Dumps. You have a Future City. Not dependent on Dump Trucks

To ensure effective waste management- separate community bins for Paper, Plastic, Glass, e-waste, toxic waste and other non-recyclables are provided in the common areas.

Additional investment by BCIL: Rs. 4 lac
A ‘cool’ campus – Roads from debris

The roads at BCIL have been made using construction debris, from the soiling to the concrete mixture used in the surface preparation.

More than 30,000 cubic meters of earth excavated at this site has been stored by BCIL for the manufacture of Soil blocks for its upcoming project.

Benefit for you: Lasts over 15 years with no repair cost for campus.

Additional investment by BCIL: Rs. 5 lac
Change won’t come if consumers don’t ask for the shift. So the power to change finally rests among us.

The ZED Group

We help you:
- grow your own water
- harness your own energy
- grow your own food

... at no extra capital cost
... at no extra selling price

ZED. Not end of the Alphabet.
The beginning of a new world.

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