

## ... 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?

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



## *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?

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



### ***... 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?

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



### ***... deeper questions***

- Can we aim at creating Offices, Homes, Hospitals, Hotels with ...
- Zero import of water,
- Zero export of waste,
- Zero import of energy

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



## ***BCIL's Zed variety of green . . .***

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



### ***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 call it zero energy development. You'll call it indispensable.



## *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.

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



- 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.

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



- **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

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



More Q's than A's!

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



## ZED : Not the End of the Alphabet



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.

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



## ZED : We Walk the Talk



***"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 : We Think Different



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



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



## ZED Labs : Sharing Our Expertise

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



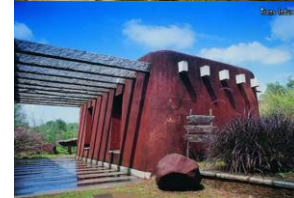
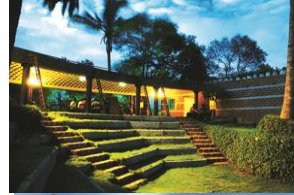
We call it zero energy development. You'll call it indispensable.



## ZED : Our Footprint Expands ...

• **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.



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



## Zed Earth



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



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



# The Zextets of Zed...

## The What's and How's

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



## 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



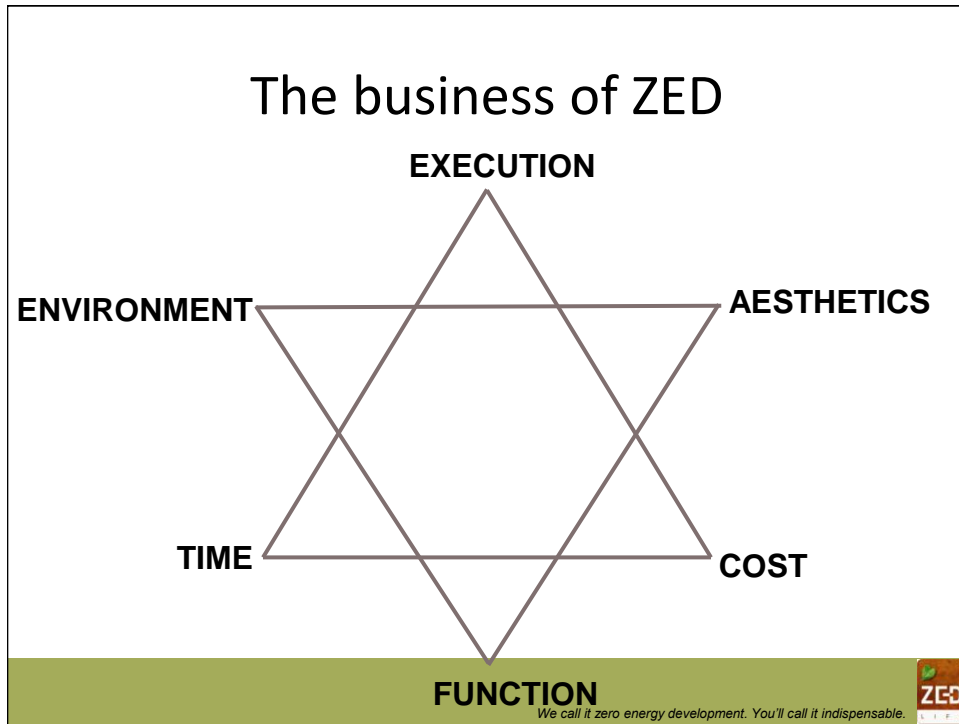
Energy – Reduced (Zero, if possible) dependence on  
grid



Biomass – Micro-climate based landscape

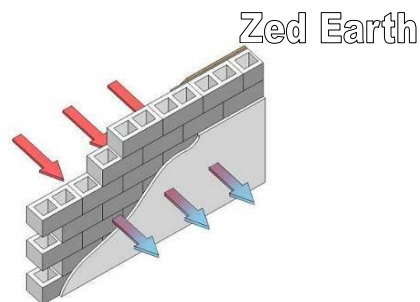
We call it zero energy development. You'll call it indispensable.





## 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.



Zed Earth



- 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.



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



*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



## Concealed Duct Masonry

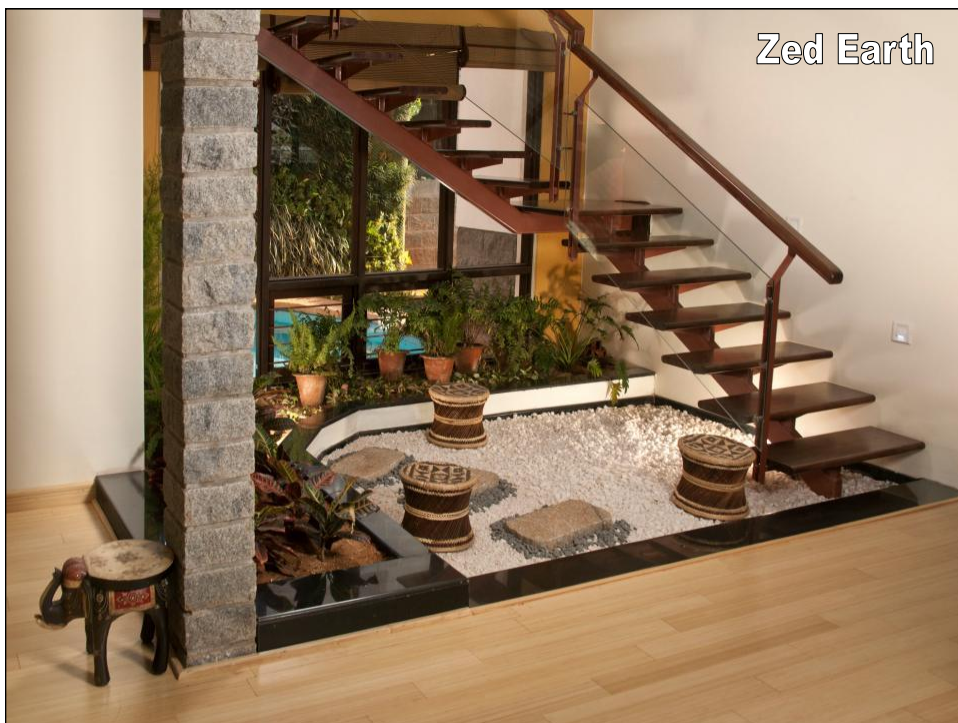




**We don't innovate.  
We only system-integrate.  
We cannot experiment at  
customer's cost.  
Customer needs Reliability,  
Efficiency**

*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.*



Zed Earth

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

Zed Earth



**Zed Earth**

Hollow Besser Block

Gypsum Plaster (Internal)

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.

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

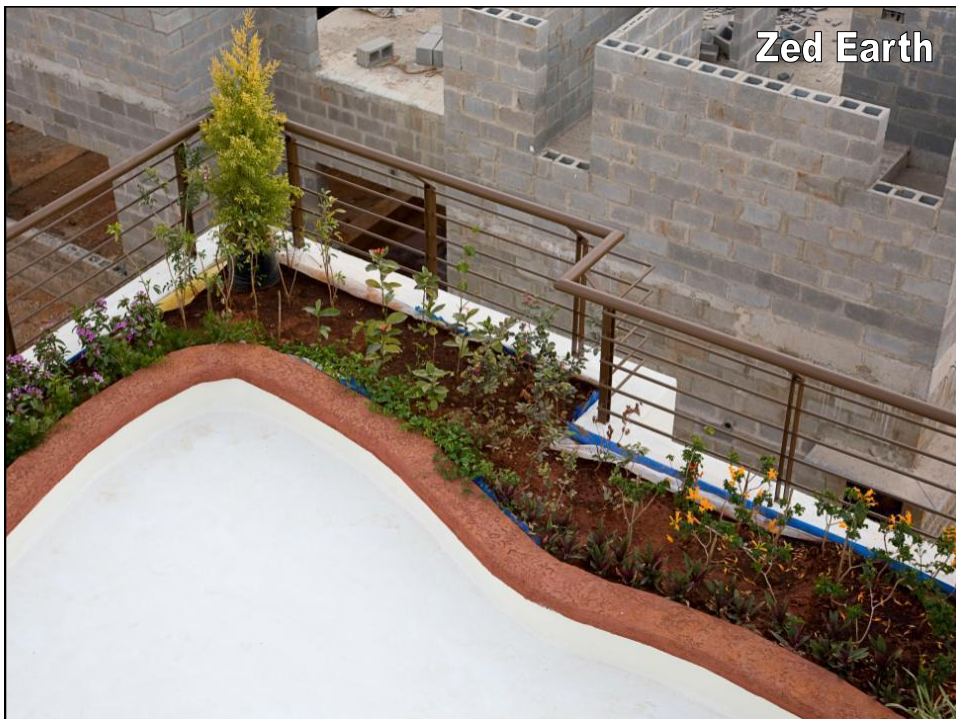
## Elegant Décor – Low VOC Internal paints



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**

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



## 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/-**

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





## 24 x 7 Green power



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



## Zed Earth



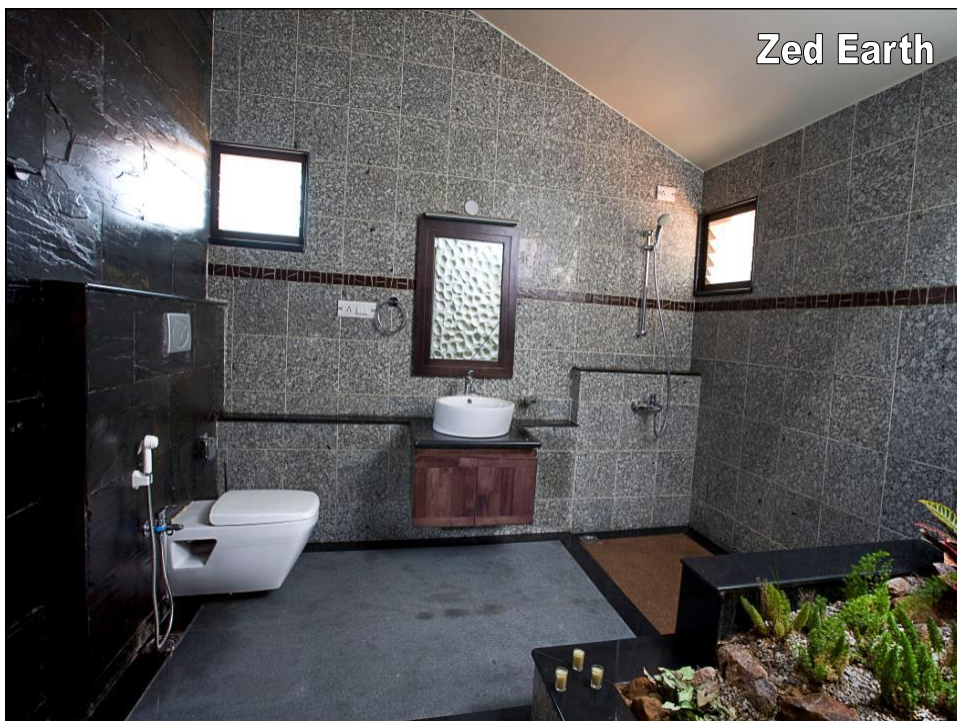
## You grow your own water - Water Efficient fixtures



- 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 !**

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



Zed Earth



### 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

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



## 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.

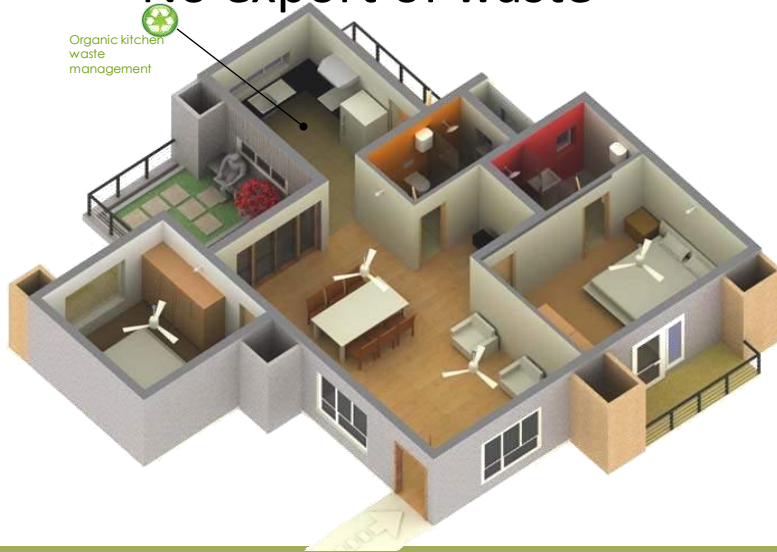


We call it zero energy development. You'll call it indispensable.



## No export of waste

Organic kitchen  
waste  
management



Go To

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



## A 'cool' campus – Waste segregated



Waste segregation



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.

Benefit for you : **No Stinking Dumps. You have a Future City. Not dependent on Dump Trucks**  
Additional investment by BCIL: **Rs. 4 lac**

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



## A 'cool' campus – Roads from debris



The roads at BCIL have been made using **construction debris**, from the soling 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**

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



Change won't come if consumers don't ask for the shift. So the power to change finally rests among us.

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



## 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.**

[bsharikrishna@zed.in](mailto:bsharikrishna@zed.in)

[www.zed.in](http://www.zed.in)

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

