

dreaming
Greener...



EcoCrete

THE CLASSIFIED FLY ASH

www.ecocrete.in

Ecocrete Cinders Buildcon Pvt. Ltd.

INTRODUCTION

“Ecocrete Cinders Buildcon Pvt. Ltd.” The venture appeared to make the Green Dream True...!

The three technically qualified Directors united together to Create a new Venture Environmentally inspired , technically sound & in the search of self abilities....

ECO-CRETE ... it is self indication of Environment friendly (Eco-friendly) and Economical Concrete.

In the super sonic world every thing has increased its Pace ... Even Pollution.

In the Automization Era, Everything is the slave of Electricity...which creates @ 5000M.T. fly ash every day from each Thermal Power Station, which is the biggest challenge for Govt. to stabilize & dispose off.

“**Recycle your trash ... or trash the Earth.**” Its high time to recycle the waste products.



But in every Trouble you find an Opportunity...

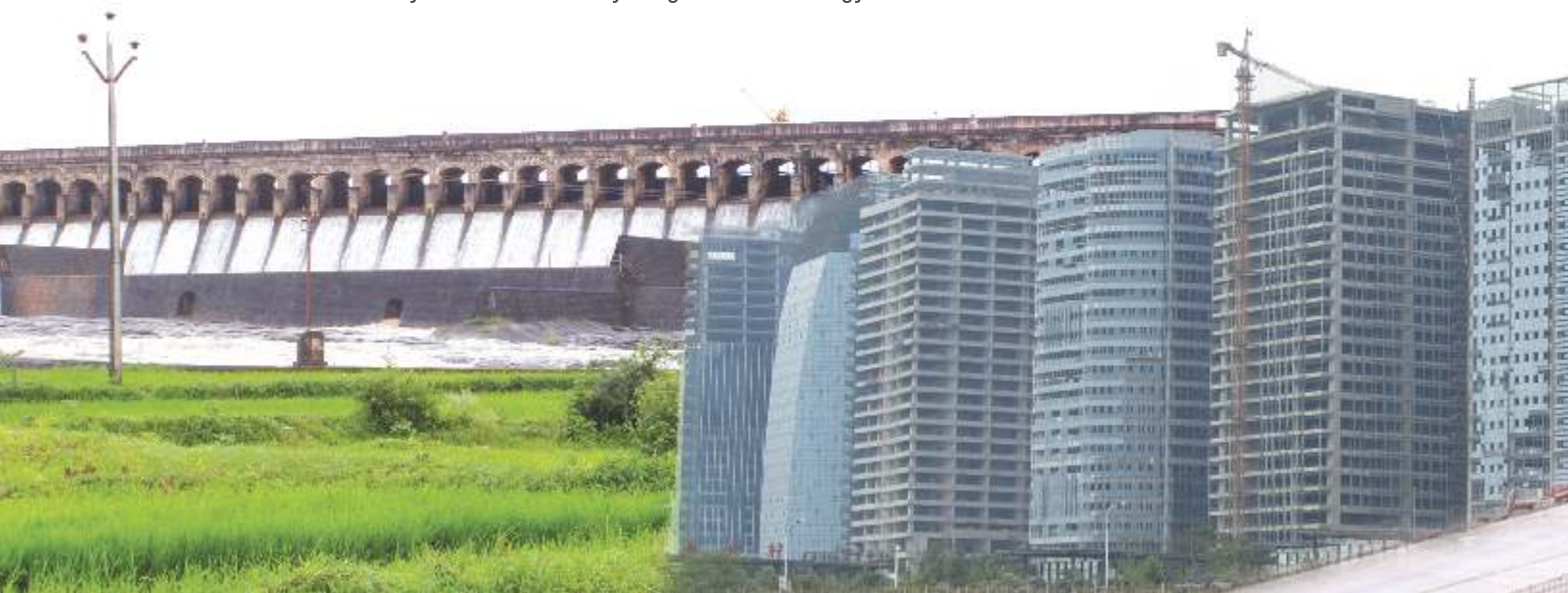
The fly ash has the inert properties which can replace the remarkable quantity of cement from the concrete & mortars to give even better qualities to the final product & unimaginable economy.....that is what we all expect

Fly ash is a fused residue of clay minerals present in coal. The high temperature is generated when coal burns in thermal power plants, transforms the clay minerals in coal powder into a variety of fused fine particles of mainly aluminum silicate composition.

Fly ash is most commonly used as a pozzolan in Concrete applications. Pozzolans are siliceous and aluminous material, which in a finely divided form and in the presence of water, react with calcium hydroxide at ordinary temperatures to produce cementitious compounds.

The utilization of fly ash is common in Metros & bigger cities as they have identified its utility, but mostly used fly ash is in raw state i.e. non classified fly ash, which cannot give you the assured results as the grain size is more than the standards & ununiformly graded. To get the best results with assured strengths, the fly ash should be refined to the particular grade according to the particle sizes.

Here we are with Classified fly ash unit with totally indigenous technology with own R&D.



We are entering in the market with TWO exclusive products:

A. E-60: Grade of fly ash will be used as a replacement of cement for all grades of concrete, This product has particle sizes retaining @ 20% on 45 micron sieve.

USES:

1. It is used in all types of concrete i.e. mass concrete to precast concrete structures, also in the pump able concretes. It can replace the cement from 20% to 50% as per the various grades (M50 max.) & properties of the concrete.
2. It can reduce the water quantity up to 7% with improved workability.
3. Increases the higher ultimate strength up to 10%.
4. It reduces the heat of hydration to result in the reduced period of curing.
5. Permeability reduces by @ maximum 5 times.
6. It improves the sulphate resistance of the concrete.
7. It reduces the chlorine penetration.
8. It reduces the plastic shrinkage of the concrete.
9. This product also can be used in the brick work, plaster, grouts & tiling mortars.
10. This can also be used in the various concrete products.

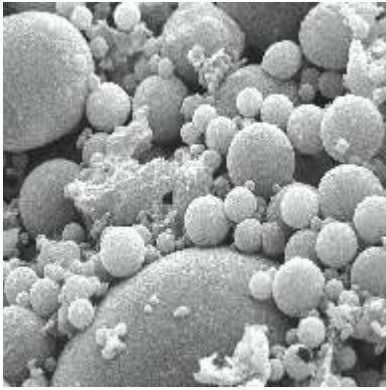
B. E-20: This is coarser byproduct from thermal power plant. This product has particle sizes retaining @ 35% on 45 micron size.

USES:

1. This can be used in the brickwork & plaster mortars to give more workability in less water content.
2. This can be used in the lower grade concretes or plain cement concrete to reduce the cement contents & heat of hydration.
3. This also can be used in land fills.
4. This can be used in the grouts.
5. Also it can be used in the fly ash concrete bricks, pavers & other concrete products.



Ecocrete Particle Shape (Microscopic View)




The spherical shape of fly ash improves the concrete qualities by filling the voids between the constituents of the concrete, which reduces the voids & cracks in the concrete.

Though the aggregates have poor grading & non uniform shapes the fly ash may improve the qualities of the concrete.

The use of Portland cement creates appx. Same quantity of the CO₂ (Carbon Di Oxide) which is the main cause of Green House Effect but the use of Ecocrete can ultimately reduce the emission of CO₂ in accordance with the reduction in cement quantity.

Available in 30 & 40 Kg Bag packing & Bulk Tankers for large quantities.



- As per  IS : 3812 part I & meets European Standards.
- Own Equipped Laboratory for quality control.



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