



SGP The GEF
Small Grants
Programme

FLY-ASH BRICK

Waste to Wealth

(A Sustainable Micro-Enterprise)

Potentials-

- Viable micro-enterprise model
- Environmental conservation
- Livelihoods generation
- Larger Replicability

Unit capacity - 2.5 Lacs FLY-ASH Bricks -/annum

Fly-ash products

Blocks - boundary wall block-10"x8"x6" and inter locking paving block-6"x3"

Bricks - smaller size bricks- 9"x4"x3"

Raw material

Fly-ash, Cement, lime and gypsum, Sand and clay etc.

Items Costs	(Rs In lacs)
Infrastructure-	
Work shed (50'x25') and open area (2000 sq yards)	1.00
Water arrangements	0.25
Equipments	3.25
Accessories	0.20
Working capital	0.40
Contingency	0.10
Total Project cost	5.20

Components	Descriptions
Raw material	Fly-ash, cement sand ,clay, lime and gypsum etc.
Project investments	5.20 lacs
Area	Work shed (50'x25') and open area (2000 sq yards)
Power	11.0 KW -3 Phase
Water	1500 litres/day
Salary/person	Rs 30,000/annum
Employment generation	10-12 persons
Rate of return	40%
Viability	30% to 40 %
Pay back periods	Less than 2.6 years
Scale of operation	Individual and community both
Production	Flexible
Market	local-rural and urban both
Products status	Eco-friendly

Integrated Sustainable Development

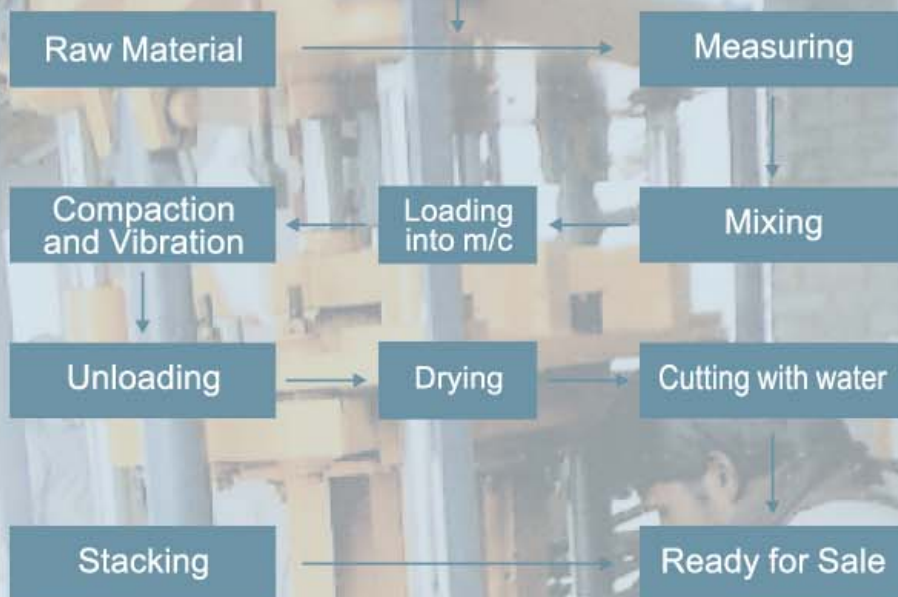
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Climate Change





PRODUCTION PROCESS FLOW CHART



The Equipments:

- Brick making machine
- Mixer
- Wooden pallets



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Forests (MoEF)



CEE
Centre for Environment Education