www.magicrete.in



Waste to Value Pathways in India: Solutions for Circular-Economy Driven Net Zero Transitions



About Magicrete

Ash circularity and net zero



# WHO WE ARE ?

"We help people build their homes **better, faster and cheaper** by using innovative construction technologies".





The largest manufacturer of AAC Blocks in India (installed capacity of **13,00,000CBM/annum**) near high growth markets of West and North



**Seven lacs+** homes built over the past decade using Magicrete products.

Motilal Oswal Private Equity (2013) & India SME (2023) invested in Magicrete.

### 

## WHAT WE DO?



• AAC BLOCKS

• WALL PUTTY

- AAC WALL PANELS
- BLOCK JOINING MORTAR
- READYMIX PLASTER



- TILE & STONE ADHESIVES
- EPOXY & CEMENTITIOUS GROUTS
- TILE & STONE CARE
- WATERPROOFING



- PRECAST BUILDING SYSTEM
- PRECAST INFRASTRUCTURE PRODUCTS



# WHY MAGICRETE ?



## BEST IN CLASS PRODUCTS

First AAC Company to provide

complete Walling Solution

<u> O</u>



ISI Marked

- Grade 1 Material
- Material, 33% Higher Strength
- ((•)) Range of Products

# WORLD CLASS INFRASTRUCTURE



Present in **18 states**, top **120 Indian Cities** through more than **5000** retail outlets.



Operational excellence achieved through **TPM**, use of **BSC** as a strategic tool, and **SOP** driven systems.



India's top AAC players with **13,00,000 CBM** annual installed capacity.



Strategically located within 250kms of major urban centres and thermal power plants.

## Our Manufacture Unit – Jhajjar Plant



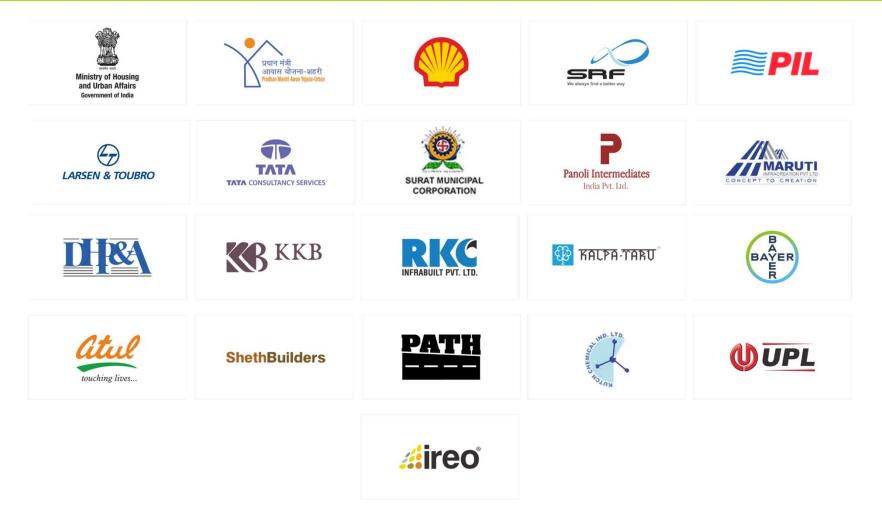


# Our Manufacture Unit – Navsari Plant





## **ESTEEMED CLIENTELE**



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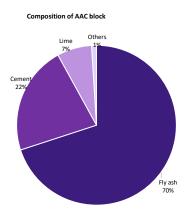


#### **Industry Overview : AAC Blocks**

### magicrete

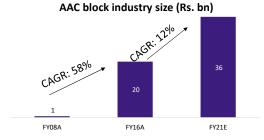
#### **Introduction to AAC Blocks**

- Autoclave Aerated Concrete (AAC) block is a better and cost effective substitute for clay bricks
- AAC is a steam cured cement product made from a mix of pulverized fly ash, cement, lime, gypsum and an aeration agent which gives it the porous, honeycomb structure



#### Market size

- Indian construction industry: Market size estimated at Rs. 10 tn (FY15), of which market for bricks is estimated at ~Rs. 600 bn
- Clay bricks form ~83% of the market and AAC blocks account for 6%. Rest is fly ash bricks (~7%) and concrete blocks (~4%)



#### Private & Confidential **10**

# BRICK VS BLOCK WALL COMPARISION FOR 100 SQFT. 4" THICK WALL



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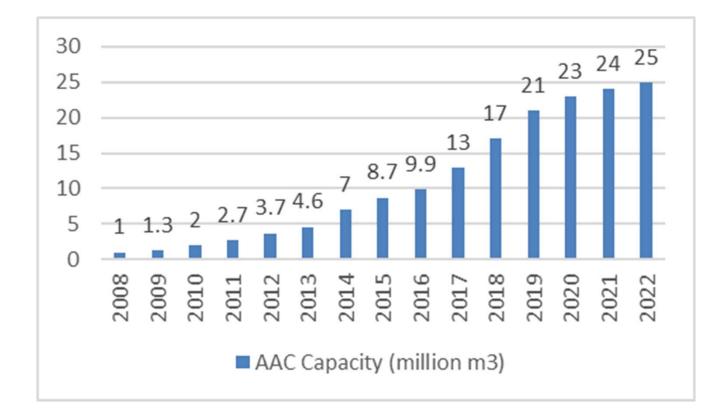
BRICK WALL				
	QUANTITY	RATE/UNIT	AMOUNT	
Bricks	500	8.5	4,250	
Mortar	2.25 cement bags	330	742.5	
	10 CFT Sand	50	500	
Plaster	4 Bags Cement	330	1,320	
(2 Coat: 20mm)	16 CFT Sand	50	800	
Total Walling Cost			7,612.5	
	Cost per Sqft		76.125	

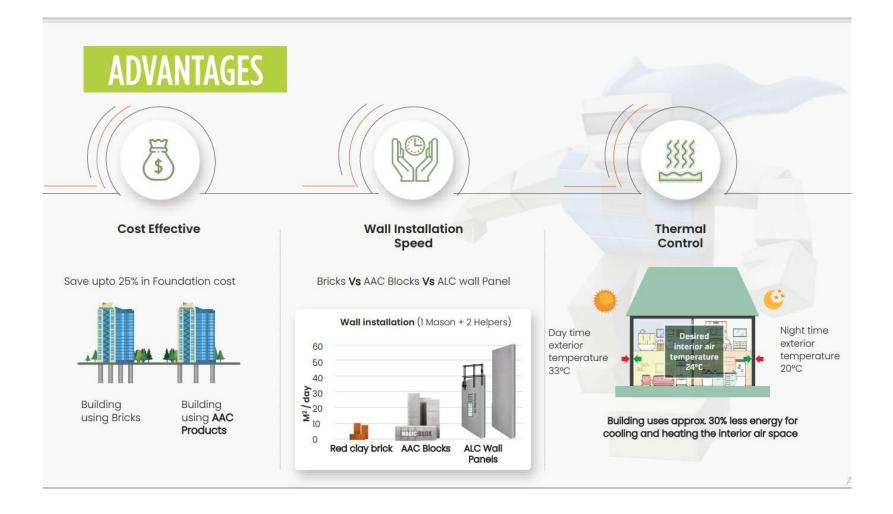
BLOCK WALL				
	QUANTITY	RATE/UNIT	AMOUNT	
Bricks	56	51	2,856	
Mortar	0.54 Bag	450	243	
Plaster	4 Bags Cement	330	1,320	
(2 Coat: 20mm)	16 CFT Sand	50	800	
Total Walling Cost			5,219	
	Cost per Sqft		52.19	

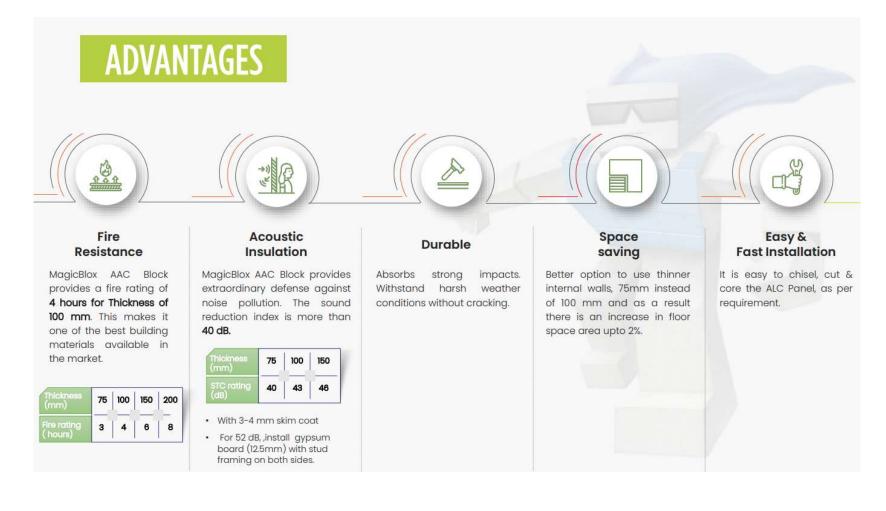
Activate Wind



### Growth in AAC Industry in India

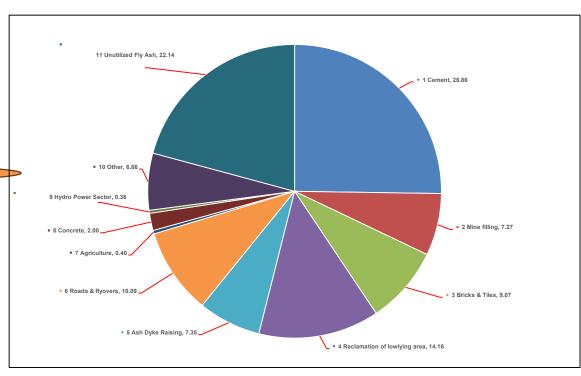






### **Thermal Power Plant Ash Utilization Mode**

Mode of Fly Ash Utilization During the 1st half of the Year 2020-21				
SI.	Mode of utilization	Quantity of Fly Ash utilized in the mode of Utilization		
		Million Tonnes	Percentage %	
1	Cement	26.86	25.25	
2	Mine filling	7.27	6.84	
3	Bricks & Tiles	9.07	8.53	
4	Reclamation of lowlying area	14.16	13.31	
5	Ash Dyke Raising	7.35	6.91	
6	Roads & flyovers	10.09	9.49	
7	Agriculture	0.40	0.38	
8	Concrete	2.00	1.88	
9	Hydro Power Sector	0.36	0.34	
10	Other	6.66	6.26	
11	Unutilized Fly Ash	22.14	20.82	
	Total	106.37	100	





- Magicrete has consumed nearly 3 million tons of fly ash (producing more than 6 million cubic meters of AAC)
- With annual production of nearly 1 million cubic meters annually now, we will consume
  0.5 million tons of fly ash annually
- OUR RENEWABLE ENERGY RESOURCE IS SOLAR
- BIOMASS IS OUR MAIN RAW FUEL SOURCE FOR BOILER OPERATION

### **OUR BIT FOR ENVIRONMENT**

Fly Ash Consumption: <b>25,69,103 MT +</b>	CO <sub>2</sub> Emission Averted: 60 lacs MT +
Energy Consumption:	Coal Saved:
1,083 MW +	21,76,872 MT +

Soil Erosion Prevented: 60,85,823 CBM +

www.magicrete.in

# THANK YOU

Magicrete Building Solutions Pvt Ltd Sidharth Bansal

