

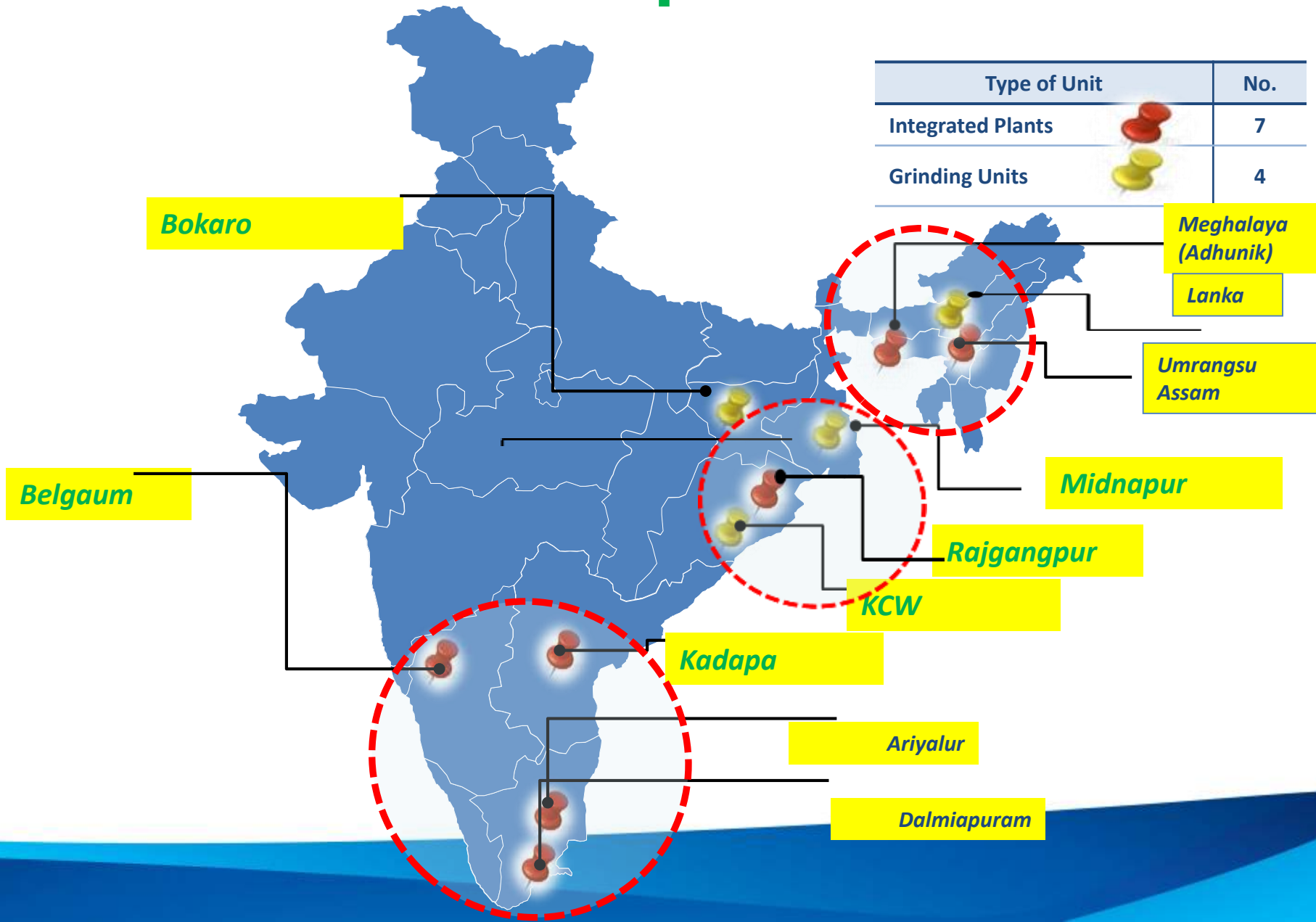


Utilization of Alternative Fuels in Dalmia Group



Our Footprint

Type of Unit	No.
Integrated Plants 	7
Grinding Units 	4

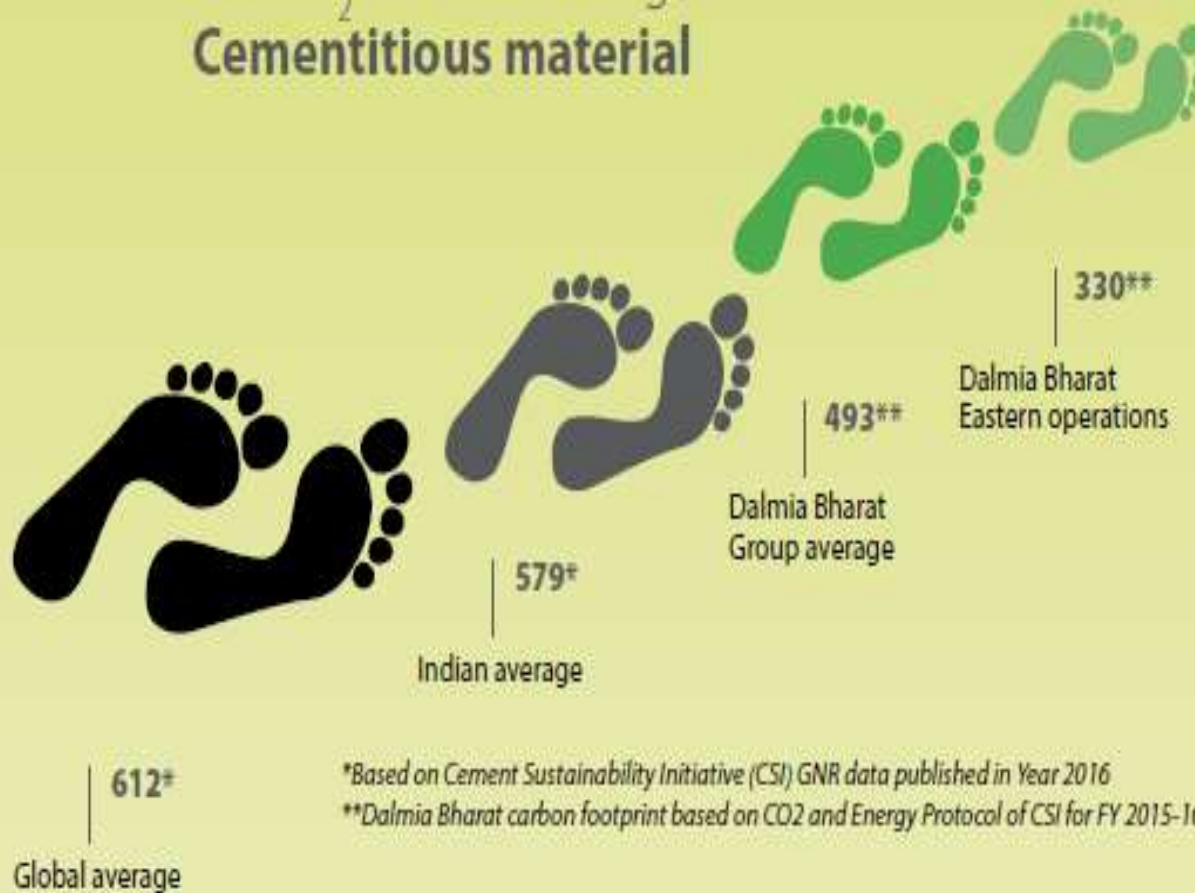


Carbon Footprint

Scenario in Cement Sector

Net CO₂ emissions in kg /ton of

Cementitious material



Overall, Indian cement moderated its carbon footprint

Dalmia Cement is one of the lowest carbon footprint cement producer in cement world

*Based on Cement Sustainability Initiative (CSI) GNR data published in Year 2016

**Dalmia Bharat carbon footprint based on CO₂ and Energy Protocol of CSI for FY 2015-16

Infrastructure available for AF Utilization

- Solid waste :- Both high and Low CV solid waste are being utilized.
- Liquid waste :- both organic and Inorganic origin liquid waste are being co-processed.
- Waste feeding through coal route:- Sludges conforming to our Fuel mix are being fed to our coal route.
- Waste feeding through raw meal route.

AF presently being in our plants

Plant	Location
Dalmiapuram	Solid and Liquid waste Mix from TSDF, Footwear waste, Plastic waste, spent wash, Carbon Black (tyre industry waste)
Kadapa	Carbon black, Organic residue, liquid fuel, spent solvent, spent carbon
Ariyalur	Solid and liquid waste mix from TSDF, Footwear waste, Plastic waste, spent wash, Carbon Black (tyre industry waste)
Belgaum	Carbon black
Rajgangpur	Chemical process waste, Waste from Steel plants. FMCG trade rejects.
Umrangso	Rice husk, Saw dust, FMCG trade rejects
Meghalaya	Biomass.

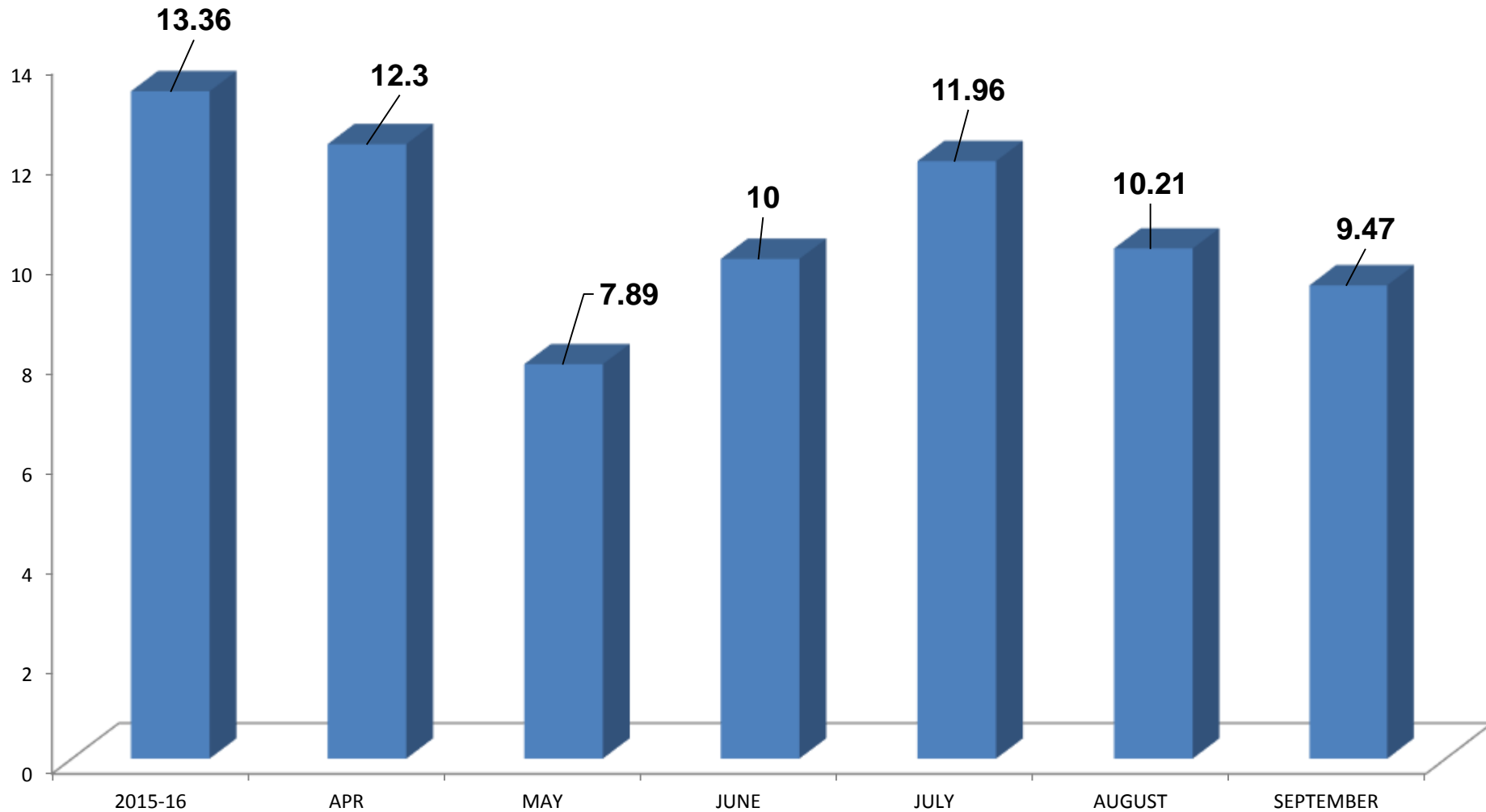
Usages of AF in our plants in previous years (% TS Dalmia BHARAT GROUP

Plant	FY13-14	FY14-15	FY15-16
Dalmiapuram	1.6	12	13.4
Kadappa	3.9	18.6	4.8
Ariyalur	4.0	5.2	3.4

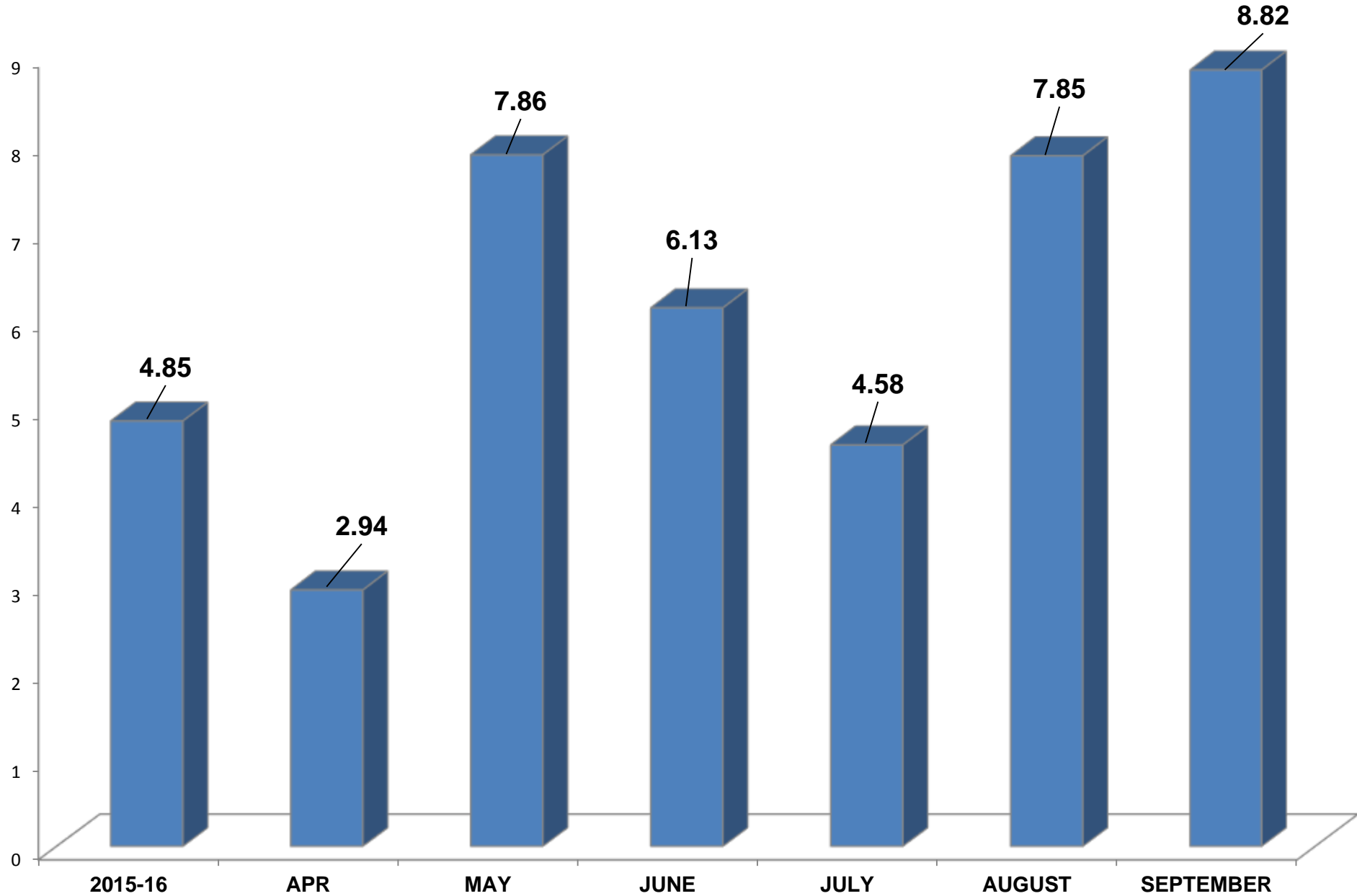
AFR consumption FY 2016-17.

Plant	AFR usage YTD 2016-17	TSR %
Dalmiapuram	3,398	2.93
Kadapa	5,280	6.43
Ariyalur	983	1.3
Rajgangpur	600	0.2
Umrangso	3,187	2.84
Total	12,848	

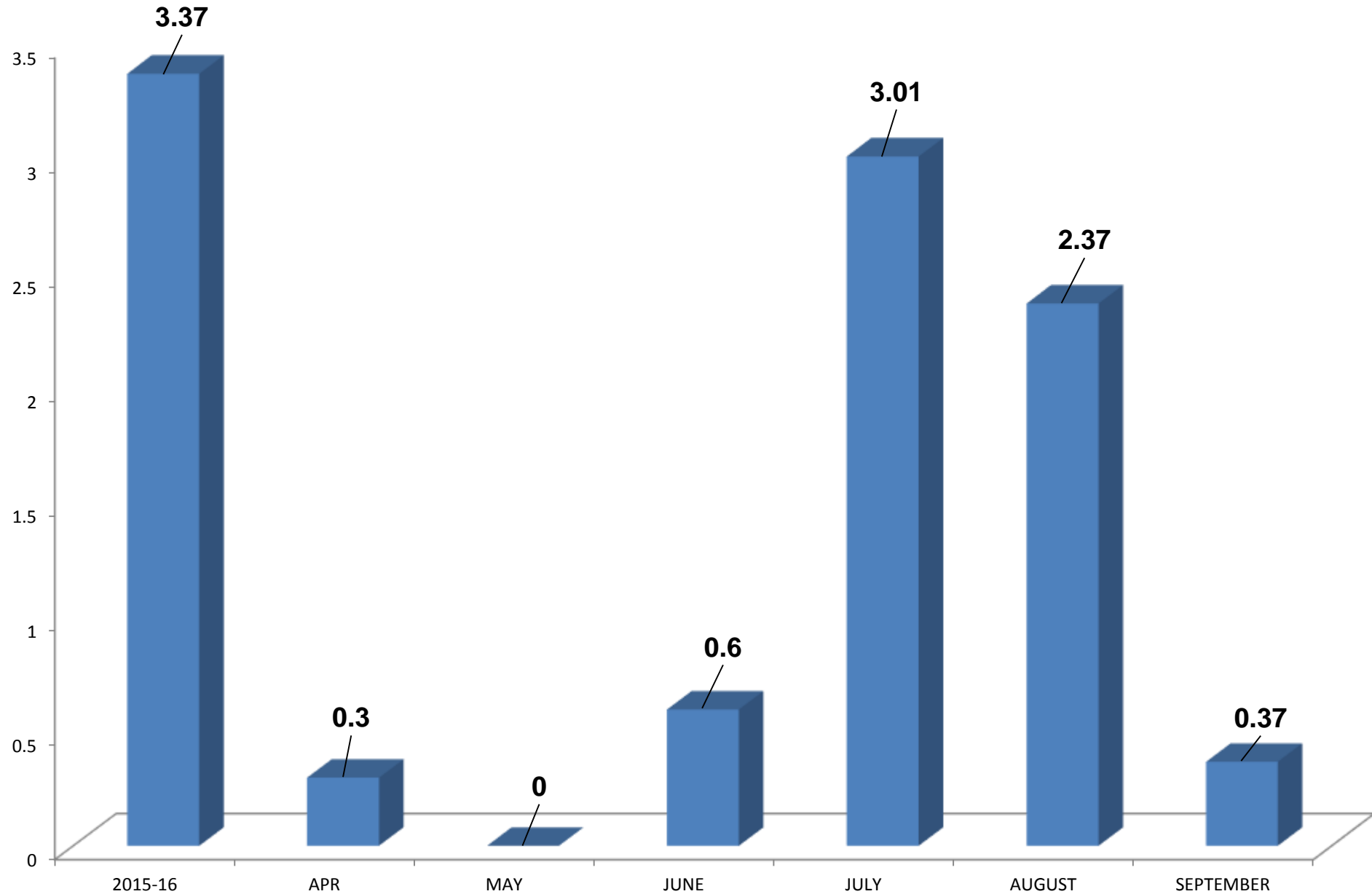
Dalmiapuram Monthly trends (% TSR)



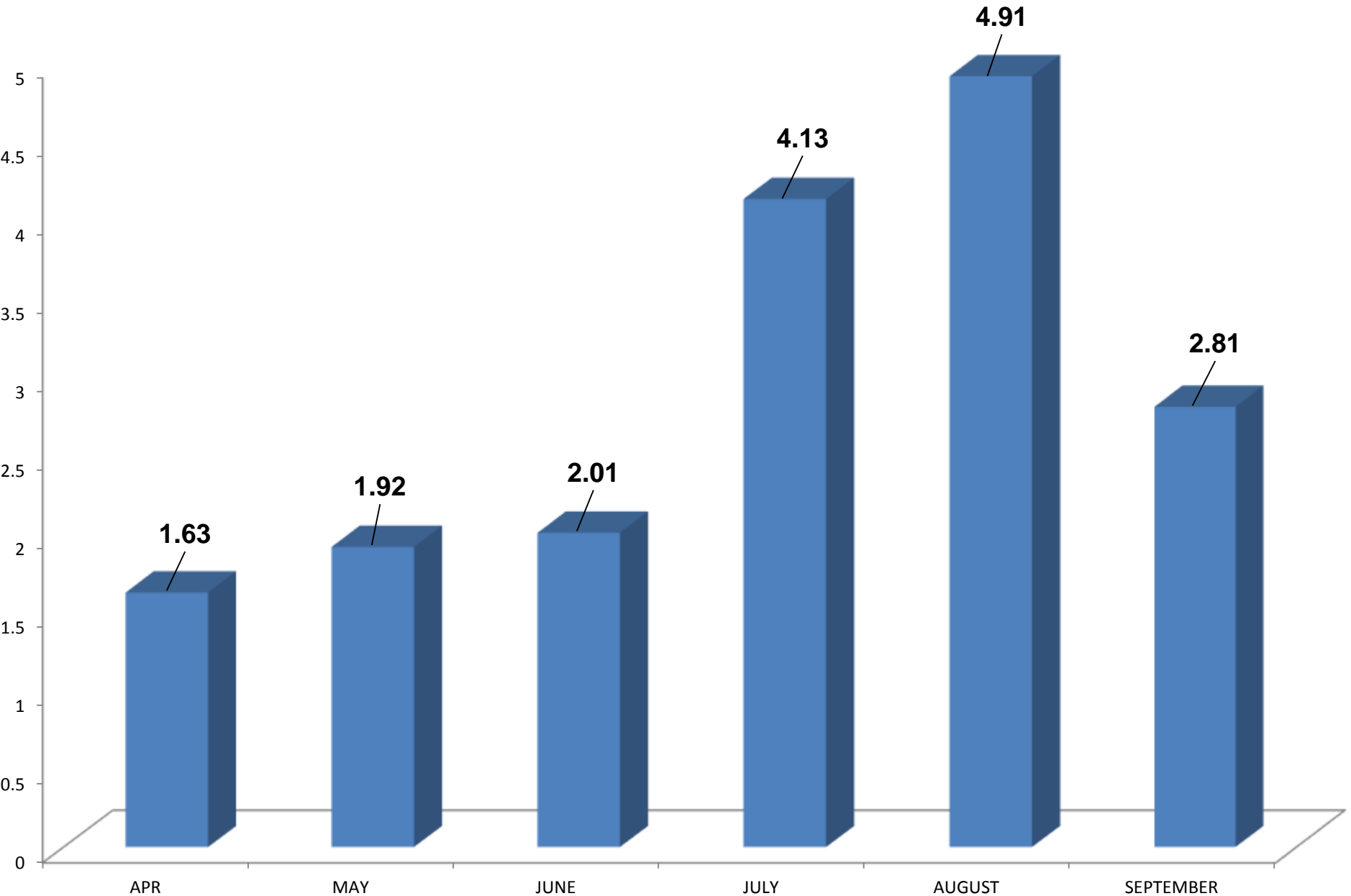
Kadapa Present status (% TSR)



Ariyalur Monthly trends (% TSR)



Umrangso Monthly trends (% TSR)



Vision for the future

- Dalmia Bharat group has the vision to be the greenest cement Producer in India .
- Increase of usage of AFR leading to smaller carbon foot print is one of the key sustainable initiatives taken by the group.
- In addition to the waste Streams currently being utilized at our various Cement Kilns we are in the process of securing additional Volumes and permit PAN India to increase our AFR foot print.
- Engagement of Dedicated Technical team as service providers to various Manufacturing Units who are generating waste .

The way forward.

- Utilization of EPR plastic wastes at all strategic location across the group.
- Sorted MSW / RDF at all strategic location across the group.
- Usage of High CV Pharmaceutical waste and process waste from petrochemical Industries.
- Various waste streams of Steel Manufacturing Units.
- Various waste streams from Pesticides and Crop protection Units

Please get in touch with Us:-

Plant	Location	Contact Person	Phone number	Mail i.d.
Dalmiapuram	Tirchi Dist. Tamilnadu	Mr. K.A.Mathew	9865187327	Ka.mathew@dalmiacement.com
Kadappa	Kadapa, A.P.	Mr. K.Karunakar Rao	9989604442	k.karunakarrao@dalmiacement.com
Ariyalur	Tamilnadu	Mr. K.Vinayagmurthi	9750963784	k.vinayagmurti@dalmiacement.com
Belgaum	Karnataka	Mr. Anil Mishra	7760996045	Mishra.anil@dalmiacement.com
Rajgangpur	Near Rourkela, Orissa	Mr. Kaushik Mukherjee	9903593706	mukherjee.kaushik@ocl.in
Umrangso	Umrangso, Assam	Mr. Padmanav Chakravarty	8811017766	Chakravarty.padmanav@dalmiacement.com
Meghalaya	Jaintia hills distt, Meghalaya	Mr. K.Sridhar	8415928702	Sridhar.k@dalmiacement.com

Thank You