

National Seminar on Co-Processing Chennai 16th October 2014

Panel Discussion: Policy Reforms & Infrastructure Requirements to accelerate Co-Processing



Cement Manufacturers' Association



Confederation of Indian Industry



Benefits of AFR Co-Processing

- ❖ Sustainable and environmentally sound solution for waste management problem in the country
 - Annually 60-65 mMT of Waste generation including MSW, Hazardous wastes
- ❖ Current utilization through Co-Processing is 1-2%, whereas the potential estimated is by 25 -30%
- ❖ Replacing conventional fuel with AF by 30% could reduce emissions by 10.32 mMT CO₂/yr.
- ❖ Reduces dependence on Natural resources
 - 10% TSR reduces emissions by 22 kg CO₂/MT of Cement



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Expert Group Created

S No	Name of PCB Representative	Designation	Pollution Control Board
1	Mr A Ramchand	Chief Environmental Engineer	Andhra Pradesh Pollution Control Board
2	Mr R P Tiwari,	Superintendent Engineer	Chhattisgarh Pollution Control Board
3	Mr M G Kagzi	Deputy Environmental Engineer	Gujarat Pollution Control Board
4	Mr Venkatesh Shekar	Senior Environmental Engineer	Karnataka State Pollution Board
5	Mr P S Bundela	Regional Officer, Bhopal	Madhya Pradesh Pollution Control Board
6	Mr V M Motghare	Joint Director – Air Pollution Control	Maharashtra Pollution Control Board
7	Dr Vijai kumar Singhal	Senior Environmental Engineer	Rajasthan Pollution Control Board
8	Dr K Karthikeyan	Member Secretary	Tamil Nadu Pollution Control Board

Summary of activities Phase 1

1	Release of Best Practices Manual	May 2011
2	Launch of Co processing Mission (10 member team of CII and PCB officials)	October 2011 Visit to 1. Ultratech, Reddipalayam, TN 2. ACC Madukkarai, TN
2	Workshop on Co-processing in Cement plants cum mission (8 members including PCB officials)	November 2011 , Visit to 1.ACC Ltd, Lakheri Cement 2.UltraTech Cement Ltd, Jaipur
3	International Mission (12 members including PCB officials)	December 2011 -Visit to Switzerland, France and Germany Cement plants
4	National Mission	May 2012 to ACC Ltd, Wadi cement works
5	White paper on increasing Co-processing in Indian cement plants	Aug 10, 2012 submitted to MOEF
6	Workshop on Co-processing in Cement plants cum mission	On Oct 11 2012, visit to Lafarge, Sonadih Cement works

Summary of activities Phase 2

<p>1</p>	<p>Capacity building activities</p> <ul style="list-style-type: none"> ➤ Meeting with PCB representatives ➤ Special interactive session with Pollution Control Board Officials on Alternate fuel utilization ➤ Technical Session on latest developments & increase use of AFR in Cement Industries 	<p>Green cementech 2013</p> <p>16th May 2013</p> <p>15th May 2013</p>
<p>2</p>	<p>National AFR mission</p>	<p>Vasavadatta Cement, Karnataka</p>
<p>3</p>	<p>Expert group meeting and stake holders meeting</p>	<p>11 July 2013, New Delhi</p>
<p>4</p>	<p>Workshop on Waste to AFR & Co – Processing in Cement plants</p>	<p>28th November 2013, Waste management summit 2013, Bangalore</p>

Summary of activities Phase 2....

5	Round table discussions among stake Holders in 8 states	December 2013 – March 2014
6	Incorporating experts comments on Round table discussion outcome and submitting to MOEF	On going
7	Special interactive session with Pollution Control Board Officials on Alternate fuel utilization Technical Session on latest developments & increase use of AFR in Cement Industries	16 th May 2014 : Green Cementech 2014
8	Technical Bulletins on combustion air requirement for biomass & MSW	Aug 2014
9	Inventory of Hazardous waste & CII Waste Exchange website	October 2014

Further steps

- Develop Waste Exchange website with support & involvement from all stake holders as **“One stop solution for waste management and utilization”**
 - Data Availability & Updation
 - Sharing of info : Waste, Case studies, Queries, Procedures
- Involve Municipalities for accelerating MSW Co-Processing – Synergies with PM’s latest mission **“Clean India Campaign”**
- Work with CPCB and state PCBs towards adding a new category in the waste hierarchy - "Co-processing Waste“
- Further awareness creation through workshops & technical publications

Expectations from Waste Generators



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Support needed for Waste Generators

- 1. Waste Disposal Concerns**
- 2. Alignment with on going sustainability initiatives**
- 3. Policy Facilitation required**
 - 1. Flexibility for selecting pre processing / co processing units**
 - 2. Approval procedure and time interval**
 - 3. Extending consent duration**



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Expectations from Cement Plants



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Support needed for Cement Plants

- 1. Waste availability concerns**
- 2. Policy Facilitation Requirements**
 - 1. Approval procedure and time interval**
 - 2. Minimizing trials**
 - 3. Extending consent duration**
- 3. Preference / support for plants with adequate infrastructure for pre processing & Co-Processing**



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Points for discussions

- 1. Implementation of the coprocessing solution on large scale in the country especially for management of Industrial Solid Wastes and Municipal Solid Wastes.**
- 2. Infrastructure to be made ready at the cement plants**
- 3. Required policy level changes**
- 4. Pre processing of wastes is a key for large scale use of wastes as AFR. How to promote preprocessing.**
- 5. Challenges in transportation and other segments of waste management and how to overcome them**



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Thank you



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