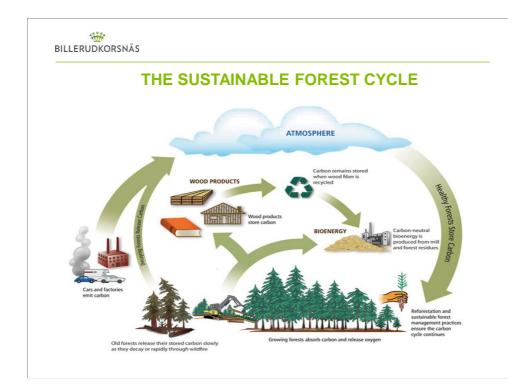




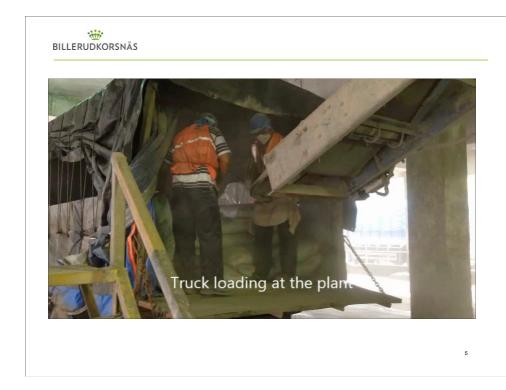
QUICKFILL CLEAN – USING THE FOREST CYCLE TO REDUCE CEMENT WASTE

2017-02-28 | The GRIHA Summit 2017

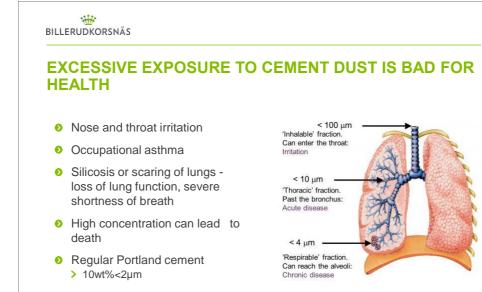
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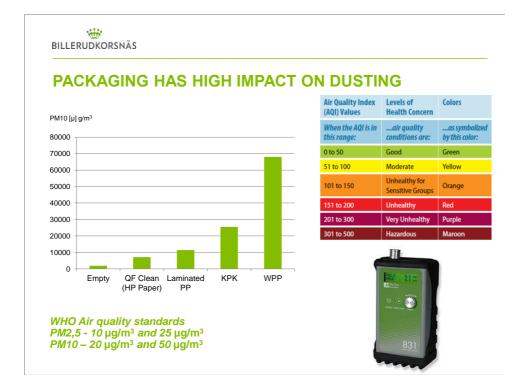












	●●●●● StarHub 훅	18:12	\$ 91 %
		aqicn.org	
BILLERUDKORSNÄS	<u> </u>		
DELHI AIR QUALITY		, Delhi Air Poll r Quality Index	
	R.K. PURAM, DELI	New Delhi US Emi नई दिल्ली अमेरिकी दुतावा	Mandir Marg, Delhi
	183	Updated on Tuesda Primary pollutant: pm10	ay 11:00
	Current Past 43 PM2.5 AQI 172 12	3 hours data 18 Monday 6 12 18 Tuesd	Min Ma
	PM10 AQI 183		113 53
	03 AQI 32		1 12
	NO2 AQI 70		7 72
	SO2 AQI 9	addina and a state of the second state of the	9 25
	CO AQI 18	18 Monday 6 12 18 Tuesd	0 57
	Temp. 23	18 Monay 6 12 18 Monay	11 25
	Pressure 1017	and the second	1012 101
	Humidity 46		21 87

CEMENT WASTE Cement loss in plant (per WPP sack)				
	Minimum	Maximum	Average	
Losses	400g	1,200g	800g	
Recovered (80%)	320g	960g	640g	1.2 1.2
Lost cement	80g	240g	160g	





	QuickFill Clean	КРК	WPP	
Cement loss per handling	2 g	30 g	50 g*	*losses through hook damage not
Number of handlings (average)	7	7	7	
Total losses per 50 kg sack	14 g	210 g	350 g	
				measured

BILLERUDKORSNÄS

PLASTIC CEMENT SACKS IN INDIA CAUSE IMMENSE WASTE

Indian cement industry 2014 consumption = 265m tons

- > 80% in 50kg sacks
- > 4 240 000 000 sacks

Financial Waste	USD millions
Lost revenue - cement waste	185,5
Material Waste	Tons
Cement	2 162 400
CO ₂	1 946 160



11

Global Studies and Estimations 2013 to 2016 – BillerudKorsnäs, Haver and Boecker



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• BILLERUDKORSNÄS

PLASTIC CEMENT SACKS IN INDIA CAUSE IMMENSE WASTE

• 1 million ton cement plant (100% 50kg WPP sack, USD4,29 per 50kg sack (INR291))

Financial Waste	USD
Lost revenue - cement waste	880 000
Lost revenue – cleaning time (5min/shift)	877 000
Cost of higher maintenance in packing plant	33 000
Cost of PPE (personal protective equipment)	9 200
Cost of damage to environment	130 000
Social cost of CO ₂ of cement waste	367 200
Total	2 297 400
Material Waste	Tons
Cement	10 200
CO ₂	9 180



15

O Global Studies and Estimations 2013 to 2016 - BillerudKorsnäs, Haver and Boecker