

Quarterly Paper and Paperboard Special

report Jul 2017



Price Trends – Paper and Paperboards

						TransG	Graph
	Ruby Macons	Ruby Macons (22 BF 150 GSM) (Basic rate per Kg) Siddeshwari (22 BF 150 GSM) (Basic rate per Kg)					
Month	Basic rate (INR per kg)	MoM Change	YoY Change	Basic rate (INR per kg)	MoM Change	YoY Change	
Jan-17	29.2		-1.4	26.8		0.9	
Feb-17	30.7	1.5	0.1	27.8	1.0	0.9	
Mar-17	35.2	4.5	3.1	31.8	4.0	3.9	
Apr-17	36.2	1.0	4.1	32.8	1.0	4.5	
May-17	35.2	-1.0	4.6	31.8	-1.0	4.0	
Jun-17	35.2	0.0	5.1	31.8	0.0	4.5	

	Gayatri Shakti (250 GSM) (Basic rate per Kg)							
Month	Basic rate (INR per kg)	MoM Change	YoY Change					
Jan-17	39.6		0.6					
Feb-17	40.6	1.0	1.6					
Mar-17	44.6	4.0	5.6					
Apr-17	45.6	1.0	5.5					
May-17	44.6	-1.0	5.0					
Jun-17	44.6	0.0	5					

Price trend review: Apr – Jun 2017

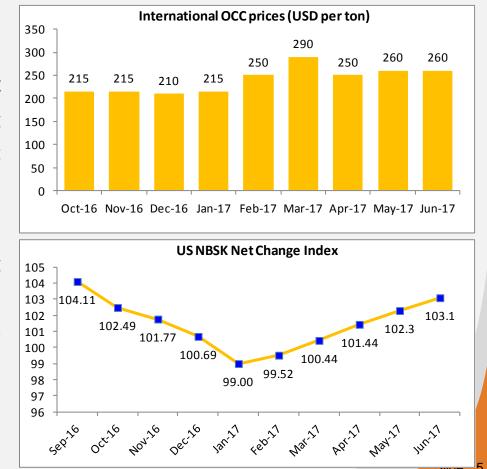
Indian Paper and paperboard prices remained flat in the past quarter, at the same price levels compared to March 2017. Price were increased by INR 1000 during April, but later in May they were reduced by same amount owing to weak demand and decline in waste paper prices.

- Earlier, during the first quarter paper and paperboard prices were increased to the tune of INR 5000 –
 6000 per ton owing to sharp rise in waste paper prices and lower supplies in the market.
- However, kraft and duplex mill owners lowering the production to keep supplies tight in the market has remained supportive to prices keeping the decline limited despite the weak demand in the market.
- At the raw material front, domestic recovered paper prices declined from INR 16000 per ton in April to INR 14000 per June tracking the mixed trend in international recovered paper prices.
- Further, sugar bagasse prices have declined from INR 6000 per dry ton to INR 5600 per dry ton amid lack of quality material availability in the market as the crushing season has come to end. Due to the most of procurement done during the first quarter demand for bagasse is also known to have declined in the market resulting in prices being adjusted lower.

Global Pulp and paper price trends

International recovered paper prices declined to the tune of USD 30-40 per ton starting from due to decline in Chinese demand. Earlier, OCC grade prices rose sharply USD 290 amid strong growth Chinese import demand in the first three months of the year.

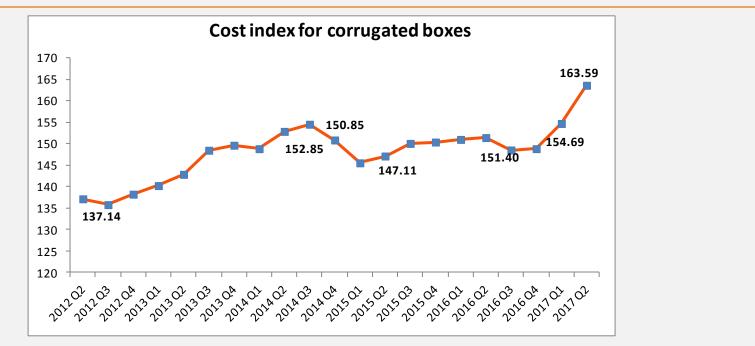
 Lower supplies during upcoming spring maintenance season during May and June period in US and EU has led to producers increasing in hardwood and softwood pulp prices in the past three months.



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Cost index for corrugated boxes

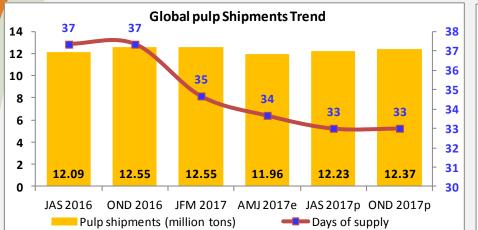


- Corrugated boxes costs have witnessed an increase to the tune of 5.7% in the previous quarter compared to Jan Mar 2017 quarter due to high Kraft paper prices.
- CoDex is the cost index for the corrugated boxes include costs of paper, adhesives, printing, stitching, energy, transport, labour, interest and establishment costs and overheads

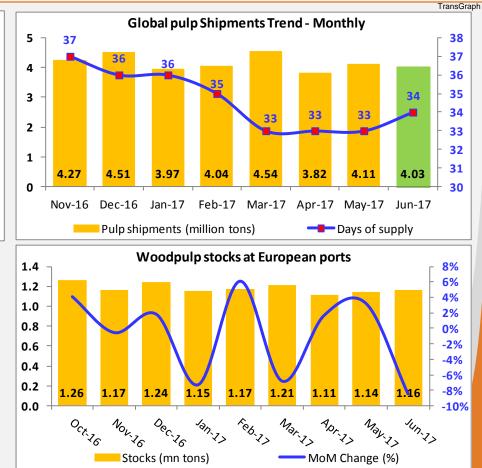
Global pulp and paper industry



Global pulp shipments



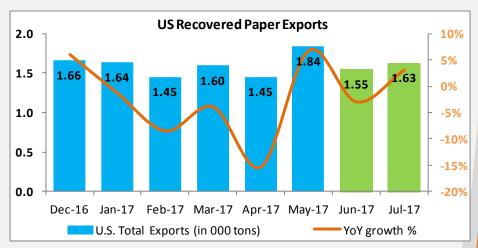
- Inventories at the European front have come down sharply from March levels start of the AMJ quarter and have remained below March levels.
- Moving forward, global pulp shipments are expected to increase at a moderate pace of 2.3% and 1.1% QoQ in JAS and OND 2017 amid improving demand in the Europe and China.



US Recovered Paper exports overview

US recovered paper exports during the five months of 2017 have declined by 4.4% to 7.98 million tons compared to 8.35 million tons during same period last year due to lower availability in the market during winter season and China's crackdown on recycled imports starting from mid-February.

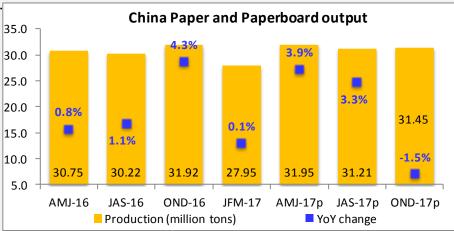
- Supply tightness in the market due to lower availability of the recycled paper also contributed to the sharp rise in prices.
- However, US recovered paper imports are seen increasing in coming months amid higher availability and increased orders from China towards the end of the year.

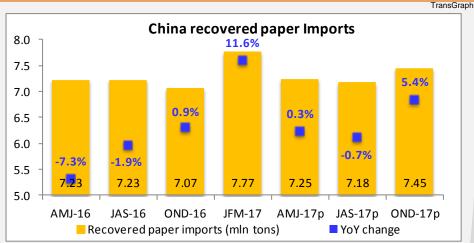


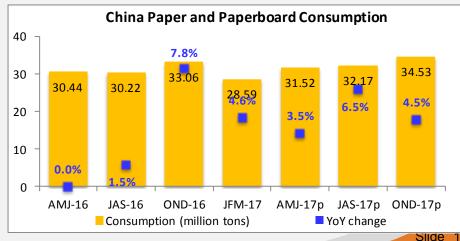
Chinese recovered paper imports likely to grow at a stronger rate in the medium term

Chinese recovered paper imports have increased by 11.6% YoY during Jan – Mar period due to start of the restocking cycle after the destocking witnessed due to lower imports and higher paper and paperboard production during 2016.

Going ahead, we expect the recovered paper imports in to China to remain almost flat for next quarter amid ample stocks after first quarter higher imports. Further, in OND 2017, recovered paper imports are expected to grow at a stronger rate supported by the higher demand and diminishing of stocks after the peak activity period in JAS 2017.







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Global Raw materials scenario

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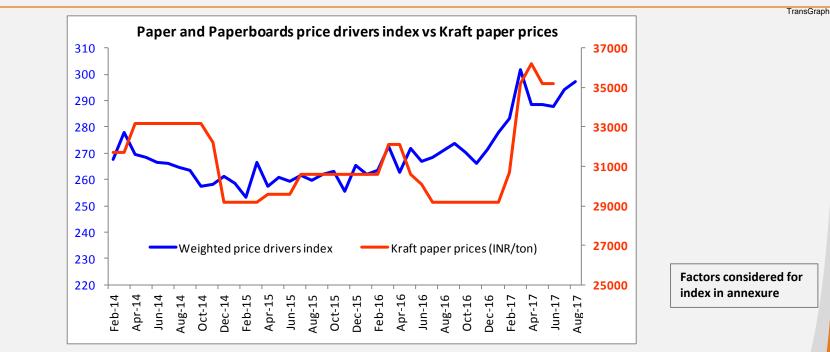
Pulp	2015	2016	2017p	Recovered paper	2015	2016	2017p
Production (mn tons)	187.77	189.28	193.08	Production (mln tons)	215.25	218.76	221.29
Imports (mn tons)	49.81	50.44	51.45	Imports (mn tons)	57.11	59.34	62.32
Exports (mn tons)	51.37	51.68	52.28	Exports (mn tons)	59.07	61.31	63.90
App Consumption (mn tons)	186.21	188.04	192.25	App Consumption (mln tons)	213.29	217.59	219.71
Production growth(%)	1.70	0.80	2.01	Production growth(%)	1.50	1.63	1.15
Consumption growth(%)	1.95	0.98	2.24	Consumption growth(%)	2.12	2.02	0.97
Prodn-Cons	1.56	1.24	0.83	Prodn – Cons	1.96	1.17	1.58

- Weak demand at the European and US front is expected to keep the overall import growth of pulp limited to 2% in the coming year.
- Higher production at the Brazilian front to aid in production increasing to the tune of 2% in 2017.
- Recovered paper consumption expected to witness marginal growth in 2017 amid lower consumption in Europe and sluggish growth in Asian region apart from China.
- Going ahead, seasonal pickup in industrial activity is expected to keep the consumption growth stable during second half of 2017

Indian pulp and paper industry



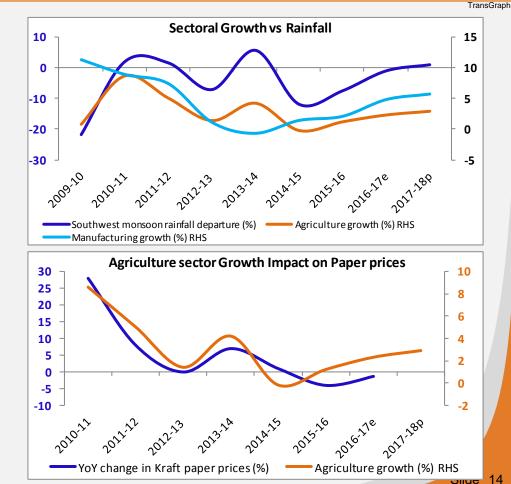
Price drivers index



- Kraft paper are seen to be moving in the direction of sustained trend in the index with a lag effect.
- Going ahead, with key demand indicators expected to remain in the positive due to the higher demand ahead of festive season expected to drive the index higher in coming months.

Impact of Rainfall on Paper prices

- Agriculture growth majorly dependent upon the Southwest monsoon.
- Growth in Agriculture sector seen augmenting the manufacturing sector growth due to the increased consumer spending.
- Better than normal rainfall is expected to boost the rural demand in coming months.

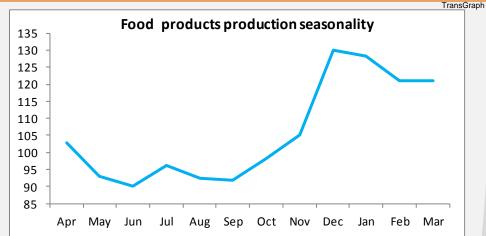


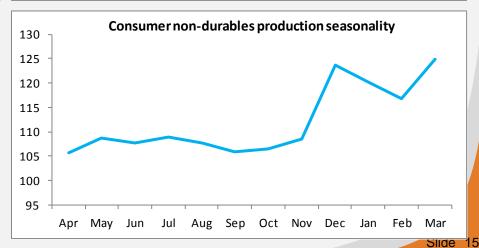
Demand for packaging materials from FMCG sector is likely to higher ahead of the festive season



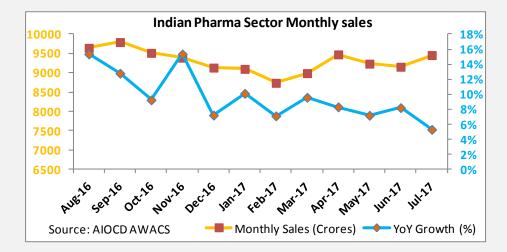
- India's industrial production has witnessed moderate recovery in the past two months supported by the stable growth trend in manufacturing sector.
- Going ahead, seasonal higher production season for the food products and other consumer non-durables starting from Sep

 Oct period (ahead of the festive season is expected to demand higher for paper packaging materials in the medium term. Further, higher economic activity and seasonal higher manufacturing growth period in JAS quarter is also expected to remain supportive.





Indian Pharma Sector Prospects



- Indian pharma sector sales growth is seen dipping in the past two months due to dealers and stockists apprehension about the tax credit returns with the implementation of GST. Earlier, the tax rate was about 9% while under GST it has been increased to 12%. AIOCD has reported that average inventory with distributors has come down to 17 days of supply by the end of June compared to 40 days of supply by the end of May.
- Going ahead, stock replenishment after the implementation of GST is expected to improve the sales gradually in the medium term. However, lower stock levels are expected to keep the sales on a sluggish note in the ease in the coming months.

Waste paper imports to improve amid currency appreciation

Recovered paper imports in FY'17 are estimated to have declined by about 12% to 2.4 million tons compared to 2.72 million tons in FY'16 owing to currency pressure on the imports.

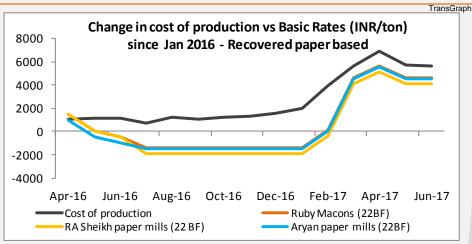
- Further, firm trend in international prices and weak demand for paper and paperboards also led to decline in imports
- Moving forward, with rupee expected to remain stable after dipping to near INR 66 levels levels against dollar, it is likely to ease pressure on millers.
- Further, weakness expected in recovered paper prices at the international front due to decline in pulp prices and moderate demand expected in China, it is expected result in higher imports.

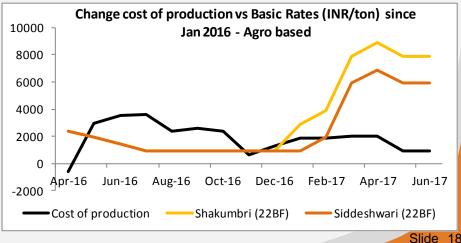


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Margin Identifier indicating RCF based mills still under pressure

- Higher imported recovered prices resulted in tightness in the market due to lower imports during last year, thus added the stress on the paper and paperboard producers.
- However, due to the demand remaining dull during most of the second half of the year, millers attempts to increase the prices and pass on the price burden have failed.
- Hence, paper and paperboard producers came together and forced the price hikes to improve their profit margins by cutting supplies in the market.
- Going ahead, due to the lower profit margins during most of the last millers are expected to try and keep the prices higher in coming month.





GST tax impact on the Kraft paper production raw materials and Chemicals

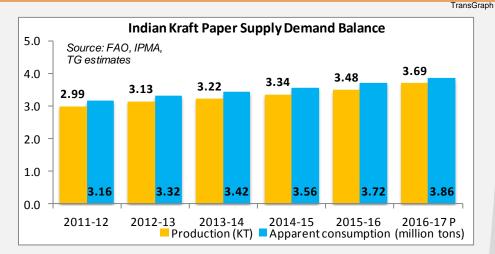
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GST Impact on Kraft paper production raw materials and Chemicals										
Attribute	Chemicals	& Additives	Raw n	naterials						
Туре	RCF based	Agro-based	RCF based	Agro-based						
Input per ton Kraft paper	0.095	0.35	1.15	2.8						
Unit cost (INR per ton)	25743	25743	20896	5600						
Cost per ton of paper production	2446	9010	24030	15680						
Current duty (Excise)	12.50%	12.50%	12.50%	0.00%						
Current duty (VAT)	5.00%	5.00%	5.00%	5.00%						
Krishi Kayan Cess	0.50%	0.50%	0.50%	0.50%						
Swacha Bharat Cess	0.50%	0.50%	0.50%	0.50%						
Net current duty	19.13%	19.13%	19.13%	6.00%						
GST	18.00%	18.00%	12.00%	5.00%						
Change in cost post GST (INR per ton)	-28	-101	-1712	-157						

Overall, due to the decline in tax rates under the GST regime cost burden, on the Kraft paper using recovered paper as the raw material, cost of production might be coming down by about INR 1.7 per Kg, while bagasse based manufacturers may not witness much change compared to earlier costs.

Indian Kraft paper dynamics

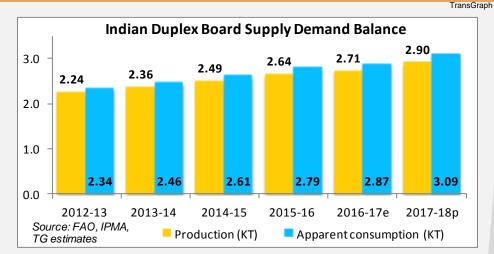
Bright demand outlook with easing of liquidity problems after demonetization is expected keep markets tighter in FY 2017-18 and provide underlying support for prices.



Attribute	JAS-16	OND-16	JFM-17	AMJ-17e	JAS-17p	OND-17p
Production (KT)	904	890	904	943	977	962
Imports (KT)	43.9	43.5	44.2	47.4	50.3	49.8
Exports (KT)	4.90	4.60	4.84	4.92	5.27	5.89
Consumption (KT)	949	941	955	971	1029	1020
Supply-demand (KT)	-6.93	-11.65	-11.53	15.21	-7.53	-13.58

Indian Duplex board dynamics

Expectations of pent-up demand from FMCG sector amid lower sales during the demonetization period in the last two quarters is expected to aid in demand to outpace supplies in the coming year.



Attribute	JAS-16	OND-16	JFM-17	AMJ-17e	JAS-17p	OND-17p
Production (KT)	687	677	687	708	733	723
Imports (KT)	39.95	39.6	40.2	45.6	48.3	47.9
Exports (KT)	0.00	0.00	0.00	0.00	0.00	0.00
Consumption (KT)	729	722	733	739	784	777
Supply-demand (KT)	-2.12	-5.94	-5.67	14.57	-2.27	-6.34

Annual Balance Sheet- Indian Paper and Paperboard

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A thuile use	2014 15	2015 10	2010 17-	2017 10-
Attribute	2014-15	2015-16	2016-17e	2017-18p
Capacity	13.18	14.14	15.12	15.60
Operating Rate %	80.80	77.44	73.94	75.38
Production	10.65	10.95	11.18	11.76
Production growth %	4.82	2.82	2.10	5.19
Imports	1.350	1.216	1.390	1.72
Exports	0.95	0.75	0.78	0.83
Consumption	11.05	11.42	11.79	12.66
Consumption growth %	5.04	3.31	3.28	7.34
Source: CPPRI IPMA CRISII TG Estimates: All units in millio	n tons			

Source: CPPRI, IPMA, CRISIL, TG Estimates; All units in million tons

Price outlook summary

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Region	JAS 2017	OND 2017	JFM 2018
Kraft paper West India	+2000	0	+1000
Kraft paper North India	+2000	0	+1000
Duplex Board West India	+2000	0	+1000
Duplex board North India	+2000	0	+1000
(Price forecast with respect to current price levels INR per ton)			

Inline with the holistic view, it is recommended to enter into long-term buying (3-5 month requirements) at the current price levels or negotiate for a one rupee downward revision that is possible in the immediate front, based on recent market inputs of a downside revision consideration in a weeks time.

Kraft paper prices (Ex-mill Basic rates in INR per ton)											
North India											
Paper mill	Raw material	GSM	BF	Region	Apr'17	May'17	Jun'17				
Devpriya Paper Products	Recovered paper	220	24	North	35100	34100	34100				
Devpriya Paper Products	Recovered paper	180	22	North	33100	32100	32100				
Ruchira Papers	Recovered paper	150	22	North	35600	34600	34600				
Shakumbri Paper Products	Agro based	150	22	North	35200	34200	34200				
Shakumbri Paper Products	Agro based	120	25	North	37200	36200	36200				
Siddeshwari industries	Agro based	150	22	North	32800	31800	31800				
Siddeshwari industries	Agro based	220	24	North	35300	34300	34300				

Kraft paper prices (Ex-mill Basic rates in INR per ton)											
West India											
Paper mill Raw material GSM BF Region Apr'17 May'17 Jun'17											
Aryan Paper Mills	Recovered paper	150	22	West	35800	34800	34800				
Malu paper mills	Recovered paper	180	22	West	33800	32800	32800				
Ruby Macons	Recovered paper	150	22	West	36200	35200	35200				
Ruby Macons	Recovered paper	220	24	West	38200	37200	37200				
Shree Ajith Paper mills	Recovered paper	150	24	West	35000	34000	34000				
Shree Ajith Paper mills (High RCT)	Recovered paper	150	24	West	38000	37000	37000				
Shree Gajannan paper and boards	Recovered paper	150	22	West	35500	34500	34500				

Kraft paper prices (Ex-mill Basic rates in INR per ton)											
West India											
Paper mill	Raw material	GSM	BF	Region	Apr'17	May'17	Jun'17				
Shree Gajannan paper and boards (High RCT)	Recovered paper	150	22	West	37000	36000	36000				
Shah paper mills	Recovered paper	150	24	West	33500	32500	32500				
Shah paper mills (High RCT)	Recovered paper	150	24	West	35000	34000	34000				
Best paper mills	Recovered paper	150	24	West	33500	32500	32500				
Best paper mills (High RCT)	Recovered paper	150	24	West	35000	34000	34000				
RA sheikh paper mills	Recovered paper	150	22	West	33000	32000	32000				
RA sheikh paper mills (High RCT)	Recovered paper	150	22	West	35000	34000	34000				
Kwality Paper mills	Recovered paper	150	18	West	30500	29500	29500				

Duplex Board (Ex-mill Basic rates in INR per ton)					
Paper mill	Specification	Apr'17	May'17	Jun'17	
Gayatri Shakti	Grey back duplex board, 260 GSM	45600	44600	44600	
Gayatri Shakti	Grey back duplex board, 300 GSM	44600	43600	43600	
Gayatri Shakti	coated white back , 260 GSM	49000	48000	48000	
Gayatri Shakti	coated white back , 300 GSM	46500	45500	45500	
Deevya Shakti	HWC duplex board, 250 GSM	44050	43050	43050	
Deevya Shakti	HWC duplex board, 320 GSM	41970	40970	40970	
Three M papers	HWC white back, 250 GSM	46250	45250	45250	
Three M papers	HWC white back, 300 GSM	43750	42750	42750	
Balkrishna industries	Grey back DB 300 GSM	42500	41500	41500	
Balkrishna industries	White back DB 285 GSM	45500	44500	44500	





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TransGraph Consulting Private Limited

6C/A, Melange Towers, Sy.No.80-84, Hitech City, Hyderabad – 500081, India

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Annexure



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Factors taken in to consideration for the price drivers index and their respective correlations with prices				
USDINR	-65%			
IP growth	34%			
Consumer durable	6%			
Consumer non durable	30%			
WPI	72%			
P&PB production	65%			
Indian WP	84%			
International OCC	-18%			
Electricity	56%			

Methodology

- Correlation of the each product with above is ascertained.
- Indexed form of above mentioned factors and standardizing into one unique index.