

Sustainable Pricing Policy for Sugarcane

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Agenda

□ Dr Rangrajan Committee report

- □ India policy India, Maharashtra, Karnataka
- □ International Practices

□ Way ahead

India sugarcane pricing – Dr Rangrajan Report

Key recommendations

- □ Revenue sharing in 70-30 ratio in proportion of costs incurred by farmers and millers
- □ Sugarcane pricing two methods
 - 70% of revenue from primary product:sugar and by-products revenue from bagasse, molasses and press mud

OR

- □ 75% of the ex-mill revenue of sugar alone
- □ Actual payment in two steps − FRP as first payment and balance part to be paid subsequent to publication of half-yearly *ex-mill prices and values*

Karnataka, Maharashtra – Sugarcane Board

Sugarcane Board Structure	Karnataka	Maharashtra
Commencement	Jun-13	Dec-13
Board Chairman	Minister of Sugar	Chief secretary of State
Board Members	19	15
Sugar mills Representatives	4	5
Farmers representatives	5	5
Committee for revenue calculation-members	6	No
Sugarcane payment	Two phased	Two phased
First Payment	FRP	FRP
Board Meeting	-	Minimum Three

 Karnataka board has agronomist, sugar technologists as members of Sugarcane Board

Brazil – Sugarcane prices

□ Brazil

Sugarcane price basis the CONSECANA product price indices expressed per kilogram of sucrose per mt of cane

Thailand

□ Thailand Cane & Sugarcane board, basis the Quota B (Tender auction for export sugar) and Quota A (domestic) prices and molasses prices

□ Australia

 Queensland Sugar Ltd and Cane Growers Association, basis the sugar prices & sugar recovery

Global Practice - Institutional structure

Structure	Brazil	Australia	Thailand
Cane pricing body	CONSECANA	Queensland Sugar Itd	Thai Cane & sugar Board
Millers Body	UNICA	Queensland Sugar Itd	Thai Sugar Millers corporation
Sugarcane growers	ORPLANA	Cane growers association	-
Revenue sharing	60-40	66-33	70-30
Price data -Frequency	Weekly	Monthly	By Tender - Quota B
Explicitly linked to	Sugar & Ethanol Price	Sugar Price	Sugar & Molasses Price

- □ Australia − Millers body, Cane growers association conduct annual negotiation, no government representatives on board
- □ Price-risk management is also one of the objectives of these institutions along with sugarcane pricing

Brazil – Pricing Model

- □ CEPEA A University research centre conducts price survey of sugar and ethanol for both domestic and export markets
 - Price indices are disseminated on weekly basis
 - End of season final price indices in terms of ATR per mt are provided
- \square RSF is Pc = Avg Pp * ATR
 - □ Pc cane price, Avg. Pp average prices of all sugar, ethanol
 - ATR Total reducible sugar or Sucrose content

Year	Avg Price	Season's	Cane Price	BRL-INR	Cane Price
BR\$/Mt		ATR/Mt	BR\$/Mt	Exchange Rate	INR/MT
2011-12	0.5018	137.54	69.02	28.20	1,946
2012-13	0.4728	135.57	64.10	27.06	1,734
2013-14	0.4572	133.50	61.04	26.88	1,641
2014-15	0.4763	136.80	65.16	24.91	1,623
2015-16	0.4909	130.64	64.13	18.39	1,179

Australia - Pricing model

- □ QSL Cane and Sugar price risk manager
 - Growers/Farmer Economic interest (GEI) and Supplier (sugar mill) Economic interest (SEI)
 - □ Growers have choices to adopt a conservative approach, be aggressive, commit future year's production or seek early payment
- \square RSF is Pc = Ps x (90/100) x (CCS 4)/100 + 0.578
 - □ Pc Price of cane, Ps-Price of sugar, CCS is total sucrose in cane
 - Standard efficiency of 90 mt of sugar for each 100 mt of CCS and cane of average quality (12% CCS) on the growers' part
- □ Cane payments are made through the season and maximum up to 60% advance of forecasted sugar price

Australia - Pricing model

□ Guaranteed Pool − which gives minimum floor price and offers potential upside returns

Year	Floor Price	Actual Price	Cane Price	AUD-INR	Cane Price
Teal	AU\$/Mt	AU\$/Mt	AU\$/Mt	Exchange Rate	INR/MT
2011-12	463	480	35.14	48.14	1,692
2012-13	477	481	35.21	55.31	1,947
2013-14	389	393	28.87	56.50	1,631
2014-15	427	429	31.47	55.06	1,733
2015-16 E	405	407	29.88	48.24	1,442

Thailand - Pricing Model

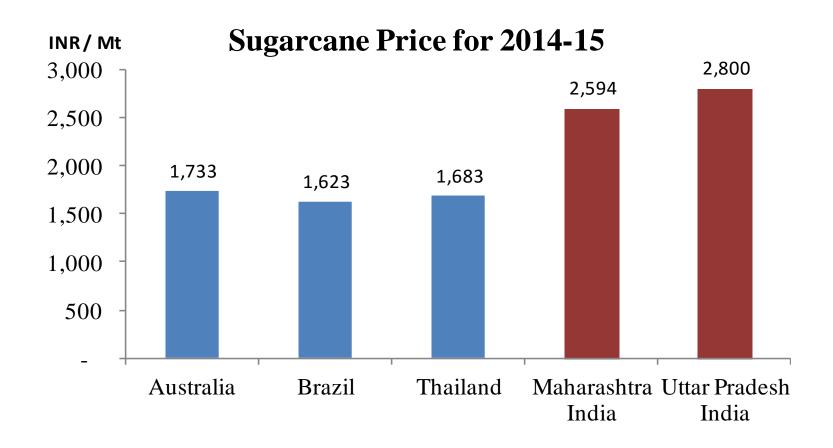
- □ Thai Cane and Sugar Board (TCSB) conducts tender auction of Quota B sugar which sets indicative price
 - Sugar millers need to earn from sugar equal or more than auction price

$$\square$$
 RSF is $Pc = P_1 + P_2 * CCS + M$

- \blacksquare Pc cane price per mt, P1 cane price, P2- price vary to CCS,
- C.C.S. commercial cane sugar/Sucrose content, M net income from molasses
- □ Cane price

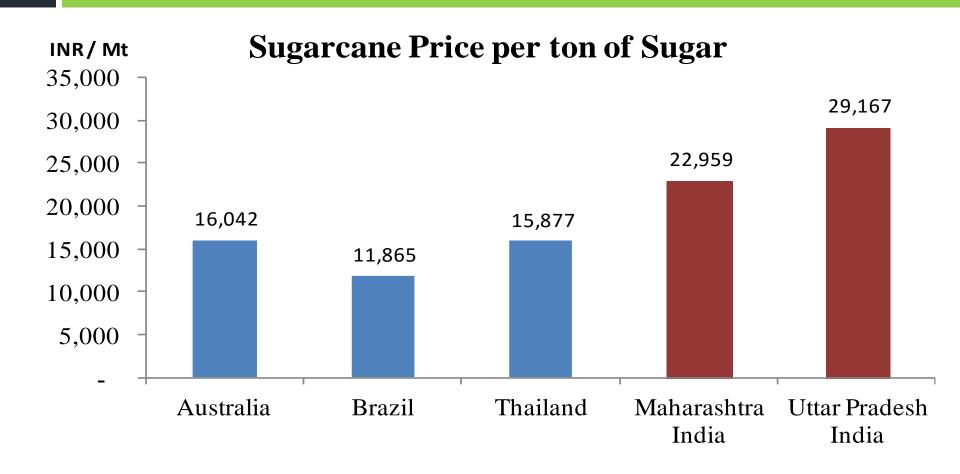
Year	Cane Price	THB-INR	Cane Price
AU\$/M		Exchange Rate	INR/MT
2010-11	1000	1.53	1,530
2011-12	950	1.71	1,625
2012-13	900	1.9	1,710
2013-14	900	1.87	1,683
2014-15	900	1.87	1,683

Global vs. India – Sugarcane prices



Note: Prices include cost of harvesting & transportation

Sugarcane prices in terms of Sugar



Note: Prices include cost of harvesting & transportation

India – RSF price vs FRP

Maharashtra state - 2015-16 comparison with previous years

Sugarcane price - Based on Revenue Sharing Formula (RSF) 70%-30%

Particulars	Unit	2012-13	2013-14	2014-15	2015-16 F
Sugar recovery	Percent	11.4%	11.2%	11.3%	11.12%
Average sugar price - Kolhapur Center	INR/Qtl	3040	2,836	2,444	3,000
Sugar Revenue	INR/Qtl	3,466	3,185	2,762	3,336
Molasses - 40 Kg @ Rs 5.5 per Kg	INR/Qtl	220	220	220	240
Bagasse - 75 Kg @ Rs 2.0 per Kg	INR/Qtl	150	150	150	150
Press -Mud 35Kg @ Rs 0.25 per KG	INR/Qtl	9	9	9	9
Sugarcane price - at 70% of all revenue	INR/Mt	2,691	2,495	2,198	2,614
Sugarcane FRP at 9.5%	INR/Mt	1,700	2,100	2,200	2,300
Sugarcane FRP at 11+%	INR/Mt	2040	2,664	2,594	2,692
RSF over FRP		651	-169	-396	-78

• Revenue sharing ratio of 70-30

Maharashtra Sugarcane Price scenario 2015-16

Sugarcane price - Based on Revenue Sharing Formula (RSF) 2015-16

Particulars	Unit	Scenario A	Scenario B	Scenario C
Sugar recovery	Percent	11.1%	11.1%	11.1%
Avg sugar price - Kolhapur Center (Oct-Apr)	INR/Qtl	2,924	2,924	2,924
Avg sugar price - Assumption (May -Sep)	INR/Qtl	3,200	3,400	3,600
Sugar Revenue	INR/Qtl	3,405	3,516	3,627
Sugarcane price - at 75% of sugar revenue	INR/Mt	2,554	2,637	2,721
Sugarcane FRP at 9.5%	INR/Mt	2,300	2,300	2,300
Sugarcane FRP at 11.1%	INR/Mt	2,687	2,687	2,687
RSF over FRP		-133	-50	33

 Sugarcane price based on RSF likely to be higher than FRP only under scenario C

Uttar Pradesh Sugarcane Price Scenario 2015-16

Sugarcane price - Based on Revenue Sharing Formula (RSF) 2015-16

Particulars	Unit	Scenario A	Scenario B	Scenario C
Sugar recovery	Percent	10.6%	10.6%	10.6%
Avg sugar price - Muzaffarnagar Center (Oct-Apr)	INR/Qtl	2,986	2,986	2,986
Avg sugar price - Assumption (May -Sep)	INR/Qtl	3,500	3,700	3,900
Sugar Revenue	INR/Qtl	3,438	3,544	3,650
Sugarcane price - at 75% of sugar revenue	INR/Mt	2,578	2,658	2,737
Sugarcane FRP at 9.5%	INR/Mt	2,300	2,300	2,300
Sugarcane FRP at 10.6%	INR/Mt	2,566	2,566	2,566
UP State Advised Price (SAP)	INR/Mt	2,800	2,800	2,800
RSF over FRP		12	91	171
RSF over SAP	·	-222	-142	-63

- Sugarcane price based on RSF likely to be higher than FRP under all three scenario
- However, when compared to SAP of Rs. 2,800 per mt, RSF based price lower under all three scenario

Way ahead

- Revenue-sharing formulas are the most popular and robust sugarcane pricing systems worldwide
- In India, this season and the next season would mark a milestone as some surplus (additional cane payment) from revenue-sharing is looking likely.
- The next step would be to move to risk-management with the possibility of forward pricing for cane even at the time of planting.

Thank You