

A Century of Cotton Improvement Research in India-Looking Back to Move Ahead - Part II

Continued from Issue No. 33 dated 16th November, 2021

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EXPERT'S Column



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Cotton Improvement After the Establishment of AICCIP

From 1st April, 1966, the research work hitherto conducted by the ICCC was handed over to Indian Council of Agricultural research (ICAR) including the administrative control

of the various research institutes and stations set up. The All India Co-ordinated Cotton

Improvement Project (AICCIP) of ICAR (now All India Coordinated Research Project on Cotton), established in 1967 with its head quarters at Coimbatore, has 21 centres (11 major and 10 subcentres) in the North, Central and South agro-climatic zones. This development provided the much-needed impetus for a network based organised, multilocation varietal development and testing.

The objectives of cotton improvement widened from yield and quality improvement initially to imparting pest and disease

tolerance through conventional and transgenic approach, improving harvest index, reducing crop duration, changing plant architecture etc. Over the last five and a half decades, around 255 cotton varieties and 105 hybrids were released for the different cotton growing zones and growing conditions. A few varieties that

COTTON STATISTICS & NEWS

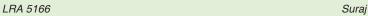
2 • 23rd November, 2021

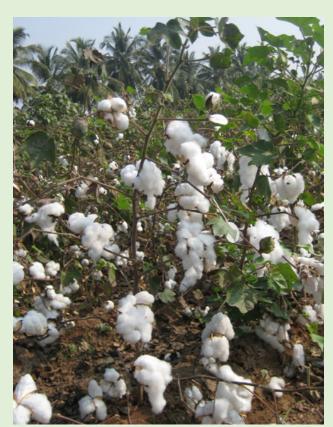
possess specific traits worth a special mention include-

Suvin, LRA 5166, LRK 516 (Anjali), Suraj and ICAR-CICR PKV 081 Bt are some promising varieties released by ICAR-CICR.

Sr. No.	Traits	Pioneer Varieties
1.	Medium duration (made cotton – wheat rotation) possible in north zone	F414, H 777
2.	Early duration and high yield potential	LH 900
3.	High yielding desi (G. arboreum)	LD 327, HD 123, RG 8
4.	Resistance to Fusarium Wilt	CISAA 2
5.	Leaf curl virus disease resistance	RS 810, RS 2023, F 1867, LH 1556, H 1098
6.	Jassid tolerance, medium staple	Khandwa – 2
7.	Long linted desi (G. herbaceum)	G Cot 21, G cot 23, RAH S14, RAH S131
8.	Medium long staple desi G. arboreum	PA 255, PA 402, Jawahar Tapti
9.	Long linted desi (G. arboreum)	PA 812, PA 810, PA 740
10.	ELS with Verticillium wilt resistance	MCU 5 and Suvin
11.	High adaptability	LRA 5166, SRT-1, Bikaneri Narma
12.	Early Determinate plant type	LRK 516, PKV 081, NH 615
13.	Suitable for high density planting	F2383, Subhiksha, Co 17, CSH 3075













Research on the development of cotton hybrids was initiated around 1930 at the Cotton Research Station, Surat in 1930. Forty years later, the worlds' first commercial cotton hybrid- H4, an intra-hirsutum hybid was developed by Dr. C. T. Patel (Gujarat) in 1970. Two years later, the worlds' first inter-specific (H x B) tetraploid hybrid, Varalaxmi, was developed in 1972 from U.A.S., Dharwad by Dr. B.H. Katarki.

Hybrids revolutionised cotton cultivation in India. Within two decades, hybrids replaced varieties in 40% of cotton area and yields improved from 122 kg lint/ha to 290 kg lint/ ha in 1992-93. Hybrids also provided additional employment to farm women skilled in seed production. The discovery of genetic male sterility system by Meyer in 1973 opened new vistas for cheaper hybrid seed production by eliminating the process of emasculation of flowers. Suguna was the first hybrid released by CICR Regional Station, Coimbatore in 1978, through exploitation of genetic male sterility.

Some popular hybrids of the pre Bt era include- Om Shankar, LHH 144, GK 151 in North



PKV 081Bt

Zone; H-6, H-8, H10, JKHy-1, JKHy-2, PKVHy 2, NHH44, Ankur 651, Vikram 5, Vikram 9, RCH 2 in Central Zone; DCH 32, DHB 105, NBHB 11, TCHB 213, RCH 2, Savitha, DHH 11 in the South zone.

Era of Bt Cotton

In March 2002, the GEAC approved three Bt cotton hybrids containing Cry 1 Ac (MON 531) viz. Bt Mech 12, Bt Mech 162 and Bt Mech 184 developed by Monsanto in collaboration with its Indian partner Mahyco for commercial cultivation in central and southern India. This was a landmark event in the history of Indian Cotton improvement. In 2006 approval was granted for BG II cotton containing Cry 1 Ac and Cry 2 Ab (MON 15985). Between 2002-03 and 2013-14, around 1167 Bt hybrids were deployed, the area under Bt cotton increased to 95% of cotton area and the productivity of cotton rose from 302 to 541 kg lint/ha. Bt cotton technology has boosted the fortunes of the Indian cotton seed industry. Private cotton seed industry grew eight fold in value terms from Rs 0.45 billion to Rs 40 billion in 2018. The public sector institutions concentrated on the development of Bt varieties. Recently, nine Bt varieties were released/ notified for commercial cultivation.

The Saga of ELS Cotton

For producing fine quality cotton in India, the East India Company introduced *G. barbadense* cotton in 1831. Later in 1905, varieties from Egypt and Sea Island were introduced and experimented at Coimbatore but the results were not encouraging. However, research on Sea Island cotton continued in Coimbatore and genetic stocks of *G. barbadense* were maintained there. In 1949, the ICCC sponsored a project for the introduction of Sea Island, variety Andrews, in the West coast districts of Kerala and Mysore and in 1957, this variety was officially released for large scale cultivation in Kerala, Karnataka and Assam.

Although this venture did not pay commercial dividends, research work was intensified at Coimbatore centre. During 1960s, Indian textile industries imported Egyptian Giza cotton for fine count spinning and urged the cotton researchers to develop an alternative variety that can be cultivated in India. An Egyptian variety 'Karnak' was selected and advanced and this led to the development of Sujata, the first Indian, Egyptian type of cotton in 1969.

Sea Island St Vincent variety (V135) was crossed with Sujata and this resulted in the development of Suvin, released for commercial cultivation in 1974. Developed by Central Institute for Cotton Research, Suvin became the longest and finest cotton in the world with 38-40 mm length, 2.8-3.0 micronaire with a spinnability of 240s Ne to 300s Ne count of yarn. By 1990 the area under Suvin increased to 16000 ha with a production of 30,000 bales. It was rated as equivalent to Giza 45. The variety is cultivated even today by farmers in Tamilnadu.

The first inter-specific (hirsutum x barbadense) hybrid Varalaxmi was released in 1972. The extra long staple cotton DCH 32 released in 1981 from Dharwar is another milestone in ELS cotton improvement. Although a dozen of ELS cotton hybrids were developed by the public sector, only DCH 32, TCH B 213

and NBHB (Gujarat) became popular. Of late ELS Bt hybrids like MRC 7918 (Bahubali), MRC 6918 XXL, RCHB 708 (EXCEL), NCHB 9905 (Kisan Jyothi), Chamundi, NCHB 9903 are also being grown. The BG II version of DCH 32 was released recently. A new ELS cotton variety CCB 51-A with 37.4 mm length and 3.3 micronaire was recently released from ICAR-CICR.

The Road Ahead

Varietal improvement in cotton is a continuous process and the popular varieties of today, will be replaced progressively with newer ones possessing genetically superior traits. Despite many achievements, the cotton sector continues to face fresh challenges. Cotton improvement should gear up to provide sustainable solutions even as pest and disease dynamics are getting more complicated and climate crisis is continuing to unfold so that Indian cotton remains competitive on global platforms.

High up in the research agenda is the development of varieties resistant to cotton leaf curl virus and whitefly for North India and compact, early maturing high yielding varieties to escape pink bollworms and also to facilitate machine picking.

Genome assemblies of major cotton species are now available. Genetic markers and genome sequence information is facilitating more precise cotton improvement research for improving yield, fibre traits and climate resilience. Transgenic cotton with novel indigenous genes is also at an advance stage. Herbicide tolerant cotton is awaiting regulatory approval. Novel approaches including RNAi through gene silencing and gene editing (CRISPR CAS9) hold promise in our persistent efforts to combat insect pests, diseases, weeds and climate related stresses.

(The views expressed in this column are of the author and not that of Cotton Association of India)

Changes Made Under GST

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of Law Committee (2015-2016), Member of Website Committee (2015-2016) and Member of EDP representation and Website



Shri. Ronak Jain
Partner, Jain Advocates

Committee (2016-2017 and 2019-2020).

He is an accredited GST trainer from the National Academy of Customs, Excise & Narcotics, Faridabad. He has delivered lectures on GST at various trade forums, professional associations and also

> at departmental outreach programmes. He has also participated in various GST discussions in the print and electronic media.

Sr. No.	Particulars	Existing Provisions	Changes made under Provisions
1.	Rule 36(4)	Rule 36(4) restricts ITC in GSTR-3B to 105% of eligible ITC in GSTR-2B	Input tax credit in GSTR 3B can be availed as per the invoices reflected under GSTR 2B (if supplier fails to file the GSTR 1 before 11th day then the ITC will not reflect in GSTR 2B and you are not eligible to claim input tax credit of that bill under this month)
2.	Rule 59(6)	From 01st September 2021 GSTR-1 cannot be filed if 3B is not filed for 2 consecutive months.	W.E.F 01 st January 2022 GSTR 1 can not be filed if GSTR 3B is not filed for 1 month.
3.	Late fee for GSTR-1	Till date late fee for GSTR-1 is not collected in Portal.	From now onwards GSTR-1 late fee will be collected in GSTR-3B of next month.

ITC -04

ITC-04 is the form to be filed by person giving or receiving goods on jobwork.

Sr. No.	Taxpayer	Existing Rule	Changes in Rule
1.	Turnover above Rs. 5 Crores in Previous F.Y	ITC-04 has to be filed quarterly	ITC-04 to be filed half yearly.
2.	Turnover upto Rs 5 Crore in Previous F.Y	before 25th of the succeeding month from end of quarter	ITC-04 to be filed annually.

Aadhaar Authentication Mandatory

- Aadhaar Authentication in GST Portal is mandatory for Refund and application for revocation of cancellation of registration.
- Refund to be disbursed only to bank account which is linked to PAN, based on which GST Registration is obtained.

Other Impressive Changes

• Inverted Rate structure - GST rate changes in order to correct inverted duty structure, in footwear

and textiles sector, will be implemented with effect from 01.01.2022.

• Interest on ineligible ITC - Interest to be paid on "ineligible ITC availed and utilized" and not on "ineligible ITC availed". Hence interest liability only upon utilization of the ineligible ITC.

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Minimum Support Prices for Kapas of Fair Average Quality and Cost of Cotton

	1	Fibre Quality Parameters	Parameters		Kapas		Ginning Outturn	Ginning Outturn	Proforma	Cotton Cost Rs.	ost Rs.	MS	P FOR PA	MSP FOR PAST YEARS	RS
Sr. No.	Classes of Cotton	Basic Staple Length (2.5% Span Length)	Micronaire Value	Names of the Indicative Varieties used by the Trade	MSP Rupees per Qtl.	Seeds Qt1.	Kapas Otl *	%	Expenses Per Candy	Per Candv	Per Otl.	2017-	2018-	2019-	2020-
		in MM			77-1-77		\				₹ .	2018	2019	2020	2021
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)	(xi)	(xii)	(xiii)	(xiv)	(xx)	(xvi)
	Short Stap	Short Staple (20 mm & below)	low)												
1		ı	7.0-8.0	Assam Comilla	5,226	4,000	8.89	40%	3,000	28,124	2,908	3,520	4,650	4,755	5,015
7		1	6.8-7.2	Bengal Deshi	5,226	4,000	8.89	40%	3,200	28,324	7,965	3,520	4,650	4,755	5,015
	Medium	Medium Staple (20.5 mm - 24.5 mm)	- 24.5 mm)												
3		21.5 - 22.5	4.8 - 5.8	Jayadhar	5,476	4,000	11.47	31%	3,500	34,654	9,745	3,770	4,900	5,005	5,265
4		21.5 - 23.5	4.2 - 6.0	V-797 / G.Cot.13 / G. Cot.21	5,526	4,000	8.08	44%	2,800	29,355	8,255	3,820	4,950	5,055	5,215
rV		23.5 - 24.5	3.4 - 5.5	AK/Y-1 (Mah & M.P.) / MCU-7 (TN)/SVPR-2 (TN)/	5,576	4,000	9.35	9.35%	3,200	32,397	9,110	3,870	5,000	5,105	5,365
	,	,		PCO-2 (AP & Kar) / K-11 (TN)											
	Medium	Medium Long Staple (25.0 mm - 27.0 mm)	0 mm - 27.0 n	(mu											
9		24.5 - 25.5	4.3 - 5.1	J-34 (Raj.)	5,726	4,000	10.50	33.86%	3,200	35,548	966'6	4,020	5,150	5,255	5,515
7		26.0 - 26.5	3.4 - 4.9	LRA-5166/KC-2 (TN)	5,826	4,000	10.25	34.09%	3,200	36,141	10,163	4,120	5,250	5,355	5,615
_∞		26.5 - 27.0	3.8 - 4.8	F-414/H-777/J-34 Hybrid	5876	4,000	10.50	33.86%	3,200	37,123	10,439	4,170	5,300	5,405	5,665
	Long Stap	Long Staple (27.5 mm - 32.0 mm)	0 mm)												
6		27.5 - 28.5	4.0 - 4.8	F-414/H-777/J-34 Hybrid	5,925	4,000	10.50	33.86%	3,200	37,637	10,583	4,220	5,350	5,450	5,725
10		27.5 - 28.5	3.5 - 4.7	H-4/H-6/MECH/RCH-2	5,925	4,000	10.50	33.86%	3,200	37,637	10,583	4,220	5,350	5,450	5,725
11		27.5 - 29.0	3.6 - 4.8	Shankar-6/10	5,975	4,000	10.50	33.86%	3,200	38,162	10,731	4,270	5,400	5,500	5,775
12		29.5 - 30.5	3.5 - 4.3	Bunny/Brahma	6,025	4,000	10.50	33.86%	3,500	38,989	10,964	4,320	5,450	5,550	5,825
	Extra Lon	Extra Long Staple (32.5 mm & above)	m & above)												
13		32.5 - 33.5	3.2 - 4.3	MCU-5/Surabhi	6,225	4,000	11.11	32%	3,500	42,445	11,935	4,520	5,650	5,750	6,025
14		34.0 - 36.0	3.0 - 3.5	DCH-32	6,425	4,000	11.11	32%	4,000	48,167	12,701	4,720	5,850	5,950	6,225
15		37.0 - 39.0	3.2 - 3.6	Suvin	7,225	4,500	14.22	25%	15,000	69,752	19,614	5,520	6,650	6,750	7,025

CAI RECOMMENDATION

Sr. No.	Staple Length	Kapas / Qtls	Ginning Outtur	Outturn	Seeds	Expenses	Spot Cost
1	33mm - 34.9mm	-/002′8	11.00	32.32%	4,000	4,000	67,726
2	35mm - 35.9mm	-/005′6	11.50	30.92%	4,200	4,200	75,886
3	36mm - 38.0mm	11,000	14.22	25%	4,500	15,000	123,432

* Qtl. of kapas required to produce 1 candy of cotton Compiled by Shri Shirish R. Shah, Partner, Bhaidas Cursondas & Co.

(Note: Figures in bracket indicate prices in Rs./Candy)

					UPCOUI	NTRY SP	OT RAT	ES				(R	s./Qtl)
		netres bas	sed on	with Bas	ic Grade & Half Mean	& Staple					ntry) 202 ber 2021		тор
Sr. No.	Growth	Grade Standard	Grade	Staple	Micronaire	Gravimetric Trash	Strength /GPT	15th	16th	17th	18th	19th	20th
1	P/H/R	ICS-101	Fine	Below 22mm	5.0 - 7.0	4%	15	-	-	-	-	-	-
2	P/H/R (SG)	ICS-201	Fine		5.0 - 7.0	4.5%	15	-	-	-	-	-	-
3	GUJ	ICS-102	Fine		4.0 - 6.0	13%	20	11192 (39800)	11192 (39800)	11192 (39800)	11079 (39400)	10967 (39000)	10911 (38800)
4	KAR	ICS-103	Fine	23mm	4.0 - 5.5	4.5%	21	12232 (43500)	12232 (43500)	12232 (43500)	12232 (43500)	12232 (43500)	12232 (43500)
5	M/M (P)	ICS-104	Fine	24mm	4.0 - 5.5	4%	23	13216 (47000)	13216 (47000)	13216 (47000)	13160 (46800)	13160 (46800)	13160 (46800)
6	P/H/R (U) (SG)	ICS-202	Fine	27mm	3.5 - 4.9	4.5%	26	-	-	-			
7	M/M(P)/ SA/TL	ICS-105	Fine	26mm	3.0 - 3.4	4%	25	-	-	-	-	-	
8	P/H/R(U)	ICS-105	Fine	27mm	3.5 - 4.9	4%	26	-	-	-	-	-	
9	M/M(P)/ SA/TL/G	ICS-105	Fine	27mm	3.0 - 3.4	4%	25	-	-	-	-	-	
	M/M(P)/ SA/TL	ICS-105	Fine	27mm	3.5 - 4.9	3.5%	26	-	-	-			
	P/H/R(U)	ICS-105	Fine	28mm	3.5 - 4.9	4%	27	-	-	-	-	-	
12	M/M(P)	ICS-105	Fine	28mm	3.7 - 4.5	3.5%	27	-	-	-	-	-	- -
13	SA/TL/K	ICS-105	Fine	28mm	3.7 - 4.5	3.5%	27	-	-	-	-	-	
14	GUJ	ICS-105	Fine	28mm	3.7 - 4.5	3%	27	-	-	-	-	-	-
15	R(L)	ICS-105	Fine	29mm	3.7 - 4.5	3.5%	28	-	-	-	-	-	-
16	M/M(P)	ICS-105	Fine	29mm	3.7 - 4.5	3.5%	28	-	-	-	-	-	-
17	SA/TL/K	ICS-105	Fine	29mm	3.7 - 4.5	3%	28	-	-	-	-	-	-
18	GUJ	ICS-105	Fine	29mm	3.7 - 4.5	3%	28	-	-	-	-	-	-
19	M/M(P)	ICS-105	Fine	30mm	3.7 - 4.5	3.5%	29	-	-	-	-	-	- -
20	SA/TL/K/O	ICS-105	Fine	30mm	3.7 - 4.5	3%	29	-	-	-	-	-	-
21	M/M(P)	ICS-105	Fine	31mm	3.7 - 4.5	3%	30	-	-	-	-	-	-
22	SA/TL/ K / TN/O	ICS-105	Fine	31mm	3.7 - 4.5	3%	30	-	-	-	-	-	-
23	SA/TL/K/ TN/O	ICS-106	Fine	32mm	3.5 - 4.2	3%	31	-	-	-	-	-	- -
24	M/M(P)	ICS-107	Fine	34mm	2.8 - 3.7	4%	33	-	-	-	-	-	-
25	K/TN	ICS-107	Fine	34mm	2.8 - 3.7	3.5%	34	-	-	-	-	-	-
26	M/M(P)	ICS-107	Fine	35mm	2.8 - 3.7	4%	35	-	-	-	-	-	-
27	K/TN	ICS-107	Fine	35mm	2.8 - 3.7	3.5%	35	-	-	-	-	-	-

COTTON STATISTICS & NEWS

Standard Descriptions with Basic Grade & Staple in Millimetres based on Upper Half Mean Length (By law 66 (A) (a) (d) 1 Sr. No. Growth (By law 66 (A) (a) (d) 1 Sr. No. Growth (By law 66 (A) (a) (d) 1 Sr. No. Growth (By law 66 (A) (a) (d) 1 Sr. No. Growth (By law 66 (A) (a) (d) 1 Sr. No. Growth (By law 66 (A) (a) (d) 1 Sr. No. Growth (By law 66 (A) (a) (d) 1 Sr. No. Growth (By law 66 (A) (a) (d) 1 Sr. No. Growth (By law 66 (A) (a) (a) (b) (a) (b) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b			OT RAT	TES (Rs./Qtl)											
Facing F					with Bas	ic Grade &	& Staple		Spot Rate (Upcountry) 2021-22 Crop						
1 P/H/R ICS-101 Fine Below 5.0 - 7.0 4% 15 14510 14397 14172 13976 13977 13976		111 14111111					Ü			ı	Novem	ber 2021	L		
22mm	Sr. No.	. Growth		Grade	Staple	Micronaire		_	15th	16th	17th	18th	19th	20th	
Second S	1	P/H/R	ICS-101	Fine		5.0 – 7.0	4%	15						13863 (49300)	
4 KAR ICS-103 Fine 23mm 4.0 - 5.5 4.5% 21	2	P/H/R (SG)	ICS-201	Fine		5.0 – 7.0	4.5%	15						14032 (49900)	
5 M/M (P) ICS-104 Fine 24mm 4.0 - 5.5 4% 23	3	GUJ	ICS-102	Fine	22mm	4.0 - 6.0	13%	20	-	-	-	-	-	-	
6 P/H/R(U) (SG) ICS-202 Fine 27mm 3.5 - 4.9 4.5% 26 1772 17659 17462 17209 17209 (68200) (62100) (6120	4	KAR	ICS-103	Fine	23mm	4.0 - 5.5	4.5%	21	- -	-	-	- -	-	-	
M/M(P) ICS-105 Fine Semm 3.0 - 3.4 4% 25	5	M/M (P)	ICS-104	Fine	24mm	4.0 - 5.5	4%	23	-	-	-	- -	-	-	
7 M/M(P)/ SA/TL ICS-105 Fine Fine Fine Fine Fine Fine Fine Fine	6	P/H/R (U) (SG)	ICS-202	Fine	27mm	3.5 - 4.9	4.5%	26						17238 (61300)	
8 P/H/R(U) ICS-105 Fine 27mm 3.5 - 4.9 4% 26 17912 17800 17575 17406 17322 9 M/M(P)/SA/TL ICS-105 Fine 27mm 3.0 - 3.4 4% 25	7		ICS-105	Fine	26mm	3.0 - 3.4	4%	25	- -	-	-	-	-	-	
SA/TL/G	8		ICS-105	Fine	27mm	3.5 - 4.9	4%	26						17350 61700	
SA/TL P/H/R(U	9		ICS-105	Fine	27mm	3.0 - 3.4	4%	25	-	-	-	-	-	-	
11 P/H/R(U)	10		ICS-105	Fine	27mm	3.5 - 4.9	3.5%	26	-	-	-	-	-	-	
13 SA/TL/K ICS-105 Fine 28mm 3.7 - 4.5 3.5% 27	11	P/H/R(U)	ICS-105	Fine	28mm	3.5 - 4.9	4%	27						17547 (62400)	
14 GUJ ICS-105 Fine 28mm 3.7 - 4.5 3% 27	12	M/M(P)	ICS-105	Fine	28mm	3.7 - 4.5	3.5%	27	-	-	-	- -		-	
15 R(L) ICS-105 Fine 29mm 3.7 - 4.5 3.5% 28 17940 17856 17659 17462 17406 (63800) (63500) (62800) (62100) (61900) (16 M/M(P) ICS-105 Fine 29mm 3.7 - 4.5 3.5% 28 18531 18447 18165 18025 18109 (65900) (65600) (66600) (6400) (64400) (64400) (17 SA/TL/K ICS-105 Fine 29mm 3.7 - 4.5 3% 28 18587 18533 18222 18081 18165 (66100) (65800) (65800) (64800) (64900) (6400) (6400) (18 GUJ ICS-105 Fine 29mm 3.7 - 4.5 3% 28 18587 18533 18222 18081 18165 (66100) (65800) (65900) (65900) (65900) (65900) (65900) (64900) (65	13	SA/TL/K	ICS-105	Fine	28mm	3.7 - 4.5	3.5%	27	-	-	-	-	-	-	
16 M/M(P) ICS-105 Fine 29mm 3.7 - 4.5 3.5% 28 18531 18447 18165 18025 18109 (65900) (65600) (64600) (64400) (64500) (65800) (64800) (64800) (64600) (65800) (64800) (64600) (65700) (64900) (6	14	GUJ	ICS-105	Fine	28mm	3.7 - 4.5	3%	27	-	-	-	- -	-	-	
17 SA/TL/K ICS-105 Fine 29mm 3.7 - 4.5 3% 28 18587 18503 18222 18081 18165 (66100) (65800) (64800) (64400) (64600) (64600) (64600) (64600) (64600) (64600) (64600) (64600) (64600) (64600) (64600) (64600) (65700) (64700) (64700) (64700) (64700) (64700) (64700) (64700) (64700) (64700) (64700) (65700) (64700) (65700)	15	R(L)	ICS-105	Fine	29mm	3.7 - 4.5	3.5%	28						17434 (62000)	
17 SA/TL/K ICS-105 Fine 29mm 3.7 - 4.5 3% 28 18587 18503 18222 18081 18165 18 GUJ ICS-105 Fine 29mm 3.7 - 4.5 3% 28 18559 18475 18250 18250 18278 (66000) (65700) (64900) (64900) (64900) (64900) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (65200) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (65500) (6500) (68100) (67700) (66000) (68100) (67700) (6600)<	16	M/M(P)	ICS-105	Fine	29mm	3.7 - 4.5	3.5%	28						18194 (64700)	
18 GUJ ICS-105 Fine 29mm 3.7 - 4.5 3% 28 18559 18475 18250 18278 18278 (66000) (65700) (64900) (64900) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (65000) (6520	17	SA/TL/K	ICS-105	Fine	29mm	3.7 - 4.5	3%	28	18587	18503	18222	18081	18165	18250 (64900)	
19 M/M(P) ICS-105 Fine 30mm 3.7 - 4.5 3.5% 29 18756 18643 18419 18334 18334 (66700) (65200	18	GUJ	ICS-105	Fine	29mm	3.7 - 4.5	3%	28		18475	18250	18250	18278	18278 (65000)	
20 SA/TL/K/O ICS-105 Fine 30mm 3.7 - 4.5 3% 29 18840 18728 18503 18419 18419 21 M/M(P) ICS-105 Fine 31mm 3.7 - 4.5 3% 30 19150 19037 18840 18700 18559 (68100) (67700) (67000) (66500) (66000) (68100) (67700) (67000) (66500) (66000) (68000) (68200) (67500) (67000) (66500) (68600) (68600) (68200) (67500) (67500) (68500) (8000) (8000) (8000) (8000) (8000) (8000) (8000) (8000) (8000) (80	19	M/M(P)	ICS-105	Fine	30mm	3.7 - 4.5	3.5%	29	18756	18643	18419	18334	18334	18419 (65500)	
21 M/M(P) ICS-105 Fine 31mm 3.7 - 4.5 3% 30 19150 19037 18840 18700 18559 (68100) (67700) (67000) (66500) (66000) (66500) (66000) (68200) (67700) (67000) (66500) (66500) (68200) (67700) (67000) (66500) (68200) (67500) (67500) (67000) (66500) (68200) (67500) (67500) (67000) (66500) (68200) (67500) (67500) (67000) (66500) (68200) (67500) (67500) (67000) (66500) (68200) (67500) (67500) (67000) (66500) (68200) (67500)	20	SA/TL/K/O	ICS-105	Fine	30mm	3.7 - 4.5	3%	29	18840	18728	18503	18419	18419	18503 (65800)	
22 SA/TL/ K / TN/O ICS-105 Fine 31mm 3.7 - 4.5 3% 30 19290 19178 18981 18840 18700 (68600) (67500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (66500) (67000) (67000) (66500) (67000) (67000) (66500) (67000) (66500) (67000) (67000) (66500) (67000) (67000) (66500) (67000) (67000) (66500) (67000) (67000) (66500) (67000) (67000) (66500) (67000) (67000) (67000) (66500) (67000) (67000) (67000) (66500) (670	21	M/M(P)	ICS-105	Fine	31mm	3.7 - 4.5	3%	30	19150	19037	18840	18700	18559	18559 (66000)	
23 SA/TL/K/ TN/O ICS-106 Fine 32mm 3.5 - 4.2 3% 31 N.A.	22		ICS-105	Fine	31mm	3.7 - 4.5	3%	30	19290	19178	18981	18840	18700	18700 (66500)	
24 M/M(P) ICS-107 Fine 34mm 2.8 - 3.7 4% 33 32900 32900 32338 32338 32338 32338 32338 (117000) (115000) (120000) (12	23	SA/TL/K/	ICS-106	Fine	32mm	3.5 - 4.2	3%	31	N.A.	N.A.	N.A.	N.A.	N.A.	N.A. (N.A.)	
25 K/TN ICS-107 Fine 34mm 2.8 - 3.7 3.5% 34 32900 32900 32338 32338 32338 (117000) (117000) (115000) (115000) (1 5000) (24		ICS-107	Fine	34mm	2.8 - 3.7	4%	33	32900	32900	32338	32338	32338	32338	
26 M/M(P) ICS-107 Fine 35mm 2.8 - 3.7 4% 35 34587 34587 33744 33744 33744 (123000) (123000) (120000) (120000) (1	25	K/TN	ICS-107	Fine	34mm	2.8 - 3.7	3.5%	34	32900	32900	32338	32338	32338	32338	
	26	M/M(P)	ICS-107	Fine	35mm	2.8 - 3.7	4%	35	34587	34587	33744	33744	33744	33744	
27 K/TN ICS-107 Fine 35mm 2.8 - 3.7 3.5% 35 35150 35150 34306 34306 34306 (125000) (125000) (122000) (27	K/TN	ICS-107	Fine	35mm	2.8 - 3.7	3.5%	35	35150	35150	34306	34306	34306	34306	

(Note: Figures in bracket indicate prices in Rs./Candy)