

## Varieties of sugarcane released and notified from 2018 to 2023 and their salient characteristics

S. no.	Year of Release	Name of Variety/ Hybrid	Notification No.	Type	Recommended State Union territories
1	2023	Phule 11082 (CoM 11082)	S.O. 1056(E)	High cane and sugar yielding early maturing variety, moderately resistant to red rot, Cane yield- Suru season/ spring- 98.91 t/ha, Preseason season - : 118.34 t/ha	Maharashtra
2	2022	CoLK 14204- IKSHU-8	S.O. 8(E)	Mid-late maturing variety, cane yield (92.73 t/ ha), moderately resistant to red rot	Punjab, Haryana, Uttarakhand, Rajasthan, Central and Western Part of Uttar Pradesh
3	2022	CoPb 98 (CoPb 14185)	S.O. 8(E)	This variety is tall, thick, cylindrical and yellowish green in colour, good ratooner. It is tolerant to the prevalent pathotypes of red rot disease	Punjab, Haryana, Rajasthan, Uttarakhand and Western and Central Uttar Pradesh
4	2022	Phule 10001 (MS 13081)	S.O. 8(E)		Maharashtra, Gujarat, Karnataka, Tamil Nadu, Andhra Pradesh, Madhya Pradesh, Kerala and Chhattisgarh
5	2022	Rajendra Ganna 2 (CoP 09437)	S.O. 8(E)	Mid-late maturing variety, cane yield (98.5 t/ha),	Uttar Pradesh, Bihar, Assam and West Bengal
6	2022	CoVC 16061	S.O. 8(E)	Early Maturing, high tillering variety, high yielding (60-65 t/acre), good for Jaggery making, Better sucrose content, Good ratooner, Drought tolerant and Suitable for wide row spacing(5 ft).	Karnataka
7	2022	IKSHU-10 (COLK 14201)	S.O. 8(E)	cane yield (84.34-91.58 t/ ha)	Uttar Pradesh
8	2021	CoPb 96	S.O. 8(E)	early maturing, tolerant to the prevalent pathotypes of red rot disease, yield is about 94 t/ha	Punjab
9	2021	CoPb 95	S.O. 8(E)	Resistance to the prevalent pathotypes of red rot disease, moderately resistant to smut and also less susceptible to top borer, good ratooner, non lodging and frost tolerant. yield 104 t/ha	Punjab
10	2022	Kalinga Sugarcane -346	S.O. 8(E)		Odisha
11	2022	CoVC 16062	S.O. 8(E)	high yielding (70-80 t/acre), high tillering, drought tolerant, Good for Jaggery and suitable for wide row spacing.	Karnataka

12	2022	Phule 09057 (CoM 12085)	S.O. 8(E)	high yielding (130t/ha) in suru season, Midlate, high sugar, high yield, good quality jaggery	Maharashtra
13	2022	Co 14012 (AVANI)	S.O. 4065(E)	More in sugar content and red rot resistance	Tamil Nadu, Kerala, Interior Andhra Pradesh, Telangana, Karnataka, Gujarat, Maharashtra and Madhya Pradesh
14	2022	CoLk 15201 (Ikshu-11)	S.O. 4065(E)		Punjab, Haryana, Uttarakhand, Rajasthan, Central and Western Parts of Uttar Pradesh
15	2022	CoLk 15466 (Ikshu-13)	S.O. 4065(E)		Eastern Part of Uttar Pradesh, Bihar, Jharkhand, West Bengal and Assam
16	2022	CoLk 15207 (Ikshu-12)	S.O. 4065(E)		Punjab, Haryana, Uttarakhand, Rajasthan, Central and Western Parts of Uttar Pradesh
17	2021	Co 15023 (Karan 15)	S.O. 500(E)	Tolerant to the prevalent pathotypes of red rot disease. The average cane yield is about 76.5 t/ha.	Uttar Pradesh (central and western), Uttarakhand, Haryana, Punjab, Rajasthan and Delhi.
18	2021	Co 13013 (AKSHAYA)	S.O. 500(E)		Tamil Nadu, Kerala, Interior Andhra Pradesh, Telangana, Karnataka, Gujarat, Maharashtra and Madhya Pradesh.
19	2021	GNS-11 (Navya) (CoN 13072)	S.O. 500(E)		Gujarat.
20	2020	Co 11015 (Atulya)	S.O. 99(E)		Tamil Nadu
21	2019	Swarnamukhi (2005T16) (CoT 10367)	S.O. 3220(E)		Andhra Pradesh.
22	2019	Ranga (2009 V 127) (Co V 15-356)	S.O. 3220(E)		Andhra Pradesh.
23	2019	VSI 12121 (VSI 08005)	S.O. 3220(E)		Maharashtra
24	2019	Ikshu-6 (CoLk 12207)	S.O. 3220(E)	CoLk 12207, Early, yields- 75.42 tonnes per hectare, Moderately resistant to red rot disease; Sugarcane is medium thick and light yellowish green in color; Top is dark green and the leaves are straight	Uttar Pradesh, Bihar, West Bengal, Jharkhand and Assam
25	2019	Ikshu-7 (CoLk 12209)	S.O. 3220(E)	CoLk 12209, Midlate, 77.52 tonnes per hectare, Variety is moderately resistant to red rot disease	Uttar Pradesh, Bihar, West Bengal, Jharkhand and Assam
26	2018	CoVC 99463	S.O. 1379(E)	High yielding (70-80 t/acre), high tillering, better quality, suitable for wide row planting, good ratooner, drought tolerant and good for jaggery making.	Karnataka.

27	2018	CoLK 09204 (Ikshu-3)	S.O. 1379(E)	Midlate and high cane yield variety, average cane yield 82.8 t / ha, which is 10-20% higher than the regional standard varieties. Ratoon of this variety is excellent and its cane is medium thick and green in color. Variety is moderately to high resistant to red rot disease.	Punjab, Haryana, Uttarakhand, Rajasthan and Central and Western parts of Uttar Pradesh
28		CoVSI 03102	S.O. 399(E)		Maharashtra
29		CoC 25	S.O. 399(E)		Tamil Nadu

### Varieties of sugarcane released and notified from 2000 to 2019 and their salient characteristics.

S. N.	Name of Variety	Year of release & Notification	Gazette notification no.	State (s) for which recommended	Key characteristics (like duration, yield level, Quality characteristics etc.)			
					Maturity	Cane yield (t/ha)	sucrose (%)	Salient features
<b>Peninsular Zone</b>								
1	Co 85004 (Prabha)	2000	S.O. 821 (E)	Guj., MS, KN, Kerala, Interior of TN & AP, MP & CG	Early	90.5	19.5	MR to smut, good ratooner
2	Co 86032 (Nayana)	2000	S.O. 821 (E)	-do-	Mid-late	102.0	20.1	R to smut, field tolerant to red rot, MR to wilt, tolerant to drought
3	Co 87025 (Kalyani)	2000	S.O. 821 (E)	-do-	Mid-late	78.2	18.3	R to smut, field tolerant to red rot, tolerant to drought & water logging
4	Co 87044 (Uttara)	2000	S.O. 821 (E)	-do-	Mid-late	101.0	18.3	MR to smut, MS to red rot, R to rust, MR to drought.
5	Co 8371 (Bhima)	2000	S.O. 821 (E)	-do-	Mid-late	117.7	18.6	R to smut, tolerant to drought & water logging
6	CoM 88121 (Krishna)	2000	S.O. 821 (E)	-do-	Mid-late	88.7	18.6	Susceptible to early shoot borer and scale insect, R to smut, tolerant to drought, excellent jaggery quality
7	Co 91010 (Dhanush)	2000	S.O. 821 (E)	-do-	Mid-late	116.0	19.1	R to smut, tolerant to drought
8	Co 94008 (Shyama)	2004	S.O. 161(E)	-do-	Early	120.0	18.0	MR to red rot, R to smut, tolerant to drought & salinity, good jaggery quality
9	Co 99004 (Damodar)	2007	S.O. 122 (E)	-do-	Mid-late	116.7	18.8	MR to red rot & wilt, tolerant to drought & salinity, tolerant to internode borer, good jaggery quality
10	Co 2001-13 (Sulabh)	2009	S.O. 454 (E)	-do-	Mid-late	108.6	19.03	MR to red rot & smut, tolerant to drought & salinity, good ratooner, good jaggery quality
11	Co 2001-15 (Mangal)	2009	S.O. 454 (E)	-do-	Mid-late	113.0	19.37	MR to red rot & smut, tolerant to drought & salinity, good ratooner, good jaggery quality
12	Co 0218 (Shreyas)	2010	S.O. 2137 (E)	-do-	Mid-late	103.77	20.79	MR to red rot, R to smut, tolerant to drought & salinity, good ratooner, good jaggery quality
13	Co 0403 (Samriddhi)	2012	S.O. 2125 (E)	-do-	Early	101.6	18.16	MR to red rot, R to smut, tolerant to drought & salinity, good ratooner, good jaggery quality

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14	Co 06027	2013	S.O. 2817 (E)	Guj., MS, KN, Kerala, Interior of TN & AP, MP & CG	Mid-late	110.56	19.18	MR to red rot, tolerant to drought & salinity
15	Co Snk 05103	2014	S.O. 1919 (E)	-do-	Early	105.50	17.21	MR to red rot, smut & wilt, Resistant to sugarcane wooly aphid and tolerant to moisture stress & excellent ratooning ability
16	Co Snk 05104	2014	S.O. 1919 (E)	-do-	Mid-late	106.86	17.52	MR to red rot, smut. Tolerant to sugarcane wooly aphid, tolerant to salinity, water logging & moisture stress
17	Co N 05071 (Gujarat Sugarcane 5)	2016	S.O. 3540 (E)	-do-	Early	152	18.76	MR to wilt & red rot, tolerant to shoot borer & top borer, susceptible to red rot & scale insect
18	Co N 05072	2016	S.O. 3540 (E)	-do-	Mid-late	143	17.78	For south Gujarat
19	Co 09004 (Amritha)	2017	S.O. 2805 (E)	-do-	Early	109.85	18.94	MR to red rot, R to smut & YLD, tolerant to drought and salinity
<b>Coastal Zone</b>								
20	Co 86249 (Bhavani)	2000	S.O. 821 (E)	Coastal TN & AP and Odisha	Mid-late	104.2	18.7	MR to red rot, smut, tolerant to water logging, good ratooner
21	CoC 01061 (CoC (56) 23)	2006	S.O. 1572 (E)	-do-	Early	110.0	17.4	MR to red rot & tolerant to drought
22	CoOr 03151 (Sabita)	2011	S.O. 2326 (E)	-do-	Early	105.28	15.53	R to red rot & wilt, tolerant to internode, top & early shoot borers and scale insect, tolerant to drought & water logging
23	Co 06030	2013	S.O. 2817 (E)	-do-	Mid-late	103.33	16.60	MR to red rot
24	Co A 05323 (Revathi)	2017	S.O. 1007 (E)	-do-	Mid-late	103.18	16.74	MR to red rot & MS to smut, tolerant to moisture stress suitable for normal irrigated, limited irrigated & Rainfed condition, very good ratoon in AP, non-lodging canes
25	Co A 08323	2017	S.O. 1007 (E)	-do-	Early	106.30	16.41	R to red rot & HS to smut

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<b>North Central Zone</b>								
26	CoS 91230 (Raseeli)	2000	S.O. 821 (E)	Pun. Har. Raj., Central & Western U.P. and UK	Mid-late	68.2	18.8	MR to red rot, tolerant to top, shoot & stalk borers
27	Co Pant 90223	2000	S.O. 821 (E)	-do-	Mid-late	73.3	18.5	MR to red rot, tolerant to water logging
28	CoH 92201 (Haryana 92)	2001	S.O. 92 (E)	-do-	Early	70.0	18.2	MR to red rot, tolerant to GSD & smut, toerant to drought condition
29	CoS 95255 (Rachna)	2004	S.O. 642 (E)	-do-	Early	70.5	17.5	MR to red rot, excellent ratooner
30	CoS 94270 (Sweta)	2005	S.O. 122 (E)	-do-	Mid-late	81.0	17.2	MR to red rot, excellent ratooner
31	CoH 119 (Haryana Ganna 119)	2007	S.O. 1566 (E)	-do-	Mid-late	82.8	17.5	MR to red rot and tolerant to moisture stress, sodicity. Resistance to GSD, smut & tolerant to top borer, moderately tolerant to shoot borer
32	Co 98014 (Karan 1)	2007	S.O. 122 (E)	-do-	Early	76.3	17.6	MR to red rot, tolerant to drought & water logging, suitable for co-generation
33	CoS 96268 (Mithas)	2007	S.O. 1178 (E)	-do-	Early	91.90	17.9	MR to red rot, good ratooner
34	CoPant 97222	2007	S.O. 122 (E)	-do-	Mid-late	88.2	18.2	MR to red rot, tolerant to drought, water logging & salinity
35	CoJ 89 (CoJ 20193)	2007	S.O. 1178 (E)	-do-	Mid-late	75.9	17.9	MR to red rot, suitable for late crushing and co-generation, good jaggery quality
36	CoS 96275 (Sweety)	2007	S.O. 1178 (E)	-do-	Mid-late	80.8	17.3	MR to red rot, good ratooner
37	Co 0118 (Karan 2)	2009	S.O. 449 (E)	-do-	Early	78.2	18.45	MR to red rot, tolerant to water stress & water logging
38	Co 0238 (Karan 4)	2009	S.O. 454 (E)	-do-	Early	81.08	17.99	MR to red rot, good ratoonability in winters, tolerant to water stress & water logging
39	Co 124 (Karan 5)	2010	S.O. 2137 (E)	-do-	Mid-late	75.71	18.22	MR to red rot, tolerant to water stress & water logging

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40	Co 0239 (Karan 6)	2010	S.O. 2137 (E)	Pun. Har. Raj., Central & Western U.P. and UK	Early	79.23	18.58	MR to red rot, tolerant to water stress & water logging
41	CoH 128	2012	S.O. 456 (E)	-do-	Mid-late	76.23	17.70	MR to red rot, tolerant to top & early shoot borers
42	Co 0237 (Karan 8)	2012	S.O. 2125 (E)	-do-	Early	71.33	18.78	MR to red rot, tolerant to water logging, good ratooner
43	Co 05011 (Karan 9)	2012	S.O. 1708 (E)	-do-	Mid-late	82.47	18.00	MR to red rot & wilt, suitable for harvesting in winter
44	CoPK 05191 (Pratap Ganna 1)	2013	S.O. 312 (E)	-do-	Early	81.12	17.06	MR to red rot, tolerant to drought & water logging, good ratooner
45	Co 05009	2013	S.O. 2817 (E)	-do-	Early	75.89	17.44	MR to red rot, tolerant to water logging and low temperature
46	Co 09022 (Karan 12)	2017	S.O. 2805 (E)	-do-	Mid-late	83.56	17.49	MR to red rot, suitable for water logging condition
47	CoLk 9204 (Ikshu 3)	2017	S.O. 1379 (E)	-do-	Mid-late	82.80	17.00	R-MR to red rot & smut and LS to major insect-pests, excellent under water logging condition
48	CoLK 09204 (Ikshu- 3)	2018	S.O. 1379 (E)	-do-	Mid-late	82.8	17.00	

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<b>North Eastern Zone</b>								
50	Co 87263 (Sarayu)	2000	S.O. 821 (E)	Eastern U.P., Bihar, W.B., Jha.	Early	66.3	17.4	MR to red rot, smut, tolerant to shoot borer, drought & water logging
51	Co 87268 (Moti)	2000	S.O. 821 (E)	-do-	Early	85.0	17.5	MR to red rot, R to smut, tolerant to Suitable for drought & water logging condition
52	Co 89029 (Gandak)	2001	S.O. 1134 (E)	-do-	Early	70.6	16.3	MR to red rot, smut, tolerant to top borer and shoot borer, tolerant to drought & water logging
53	BO 128 (Pramod)	2001	S.O. 92 (E)	-do-	Mid-late	69.6	17.6	MR to red rot, wilt & smut, tolerant to water logging & salinity
54	CoSe 95422 (Rasbhari)	2001	S.O. 1134 (E)	-do-	Early	67.8	17.7	MR to red rot, Suitable for normal irrigated condition
55	CoSe 92423 (Rajbhog)	2001	S.O. 1134 (E)	-do-	Mid-late	70.1	17.5	MR to red rot, excellent ratooner
56	CoSe 96234 (Rashmi)	2004	S.O. 624 (E)	-do-	Early	64.1	17.9	MR to red rot, non-loding, suitable for autumn, spring, early and late sown condition
57	CoSe 96436 (Jalpari)	2004	S.O. 624 (E)	-do-	Mid-late	67.1	17.7	MR to red rot, tolerant to water logging
58	CoLk 94184 (Birendra)	2008	S.O. 2458 (E)	-do-	Early	76.0	18.0	MR to red rot, tolerant to drought & water logging
59	Co 0232 (Kamal)	2009	S.O. 454 (E)	-do-	Early	67.82	16.51	MR to red rot, tolerant to top borer, water logging & early drought
60	Co 0233 (Kosi)	2009	S.O. 454 (E)	-do-	Mid-late	67.77	17.54	MR to red rot, tolerant to top borer, water logging & early drought
61	CoSe 01421 (Imarti)	2013	S.O. 2817 (E)	-do-	Early	65.87	17.36	MR to red rot, smut & wilt, good ratooner
62	CoP 06436 (CoP 2061)	2015	S.O. 268 (E)	-do-	Mid-late	74.25	17.35	MR to red rot, smut & wilt good ratooner & tolerant to lodging
63	CoLk 12207 Ikshu 6	2019	S.O. 3220 (E)	UP, Bihar, W.B., Jharkhand & Assam	Mid-late	91.50	16.90	R to MR reaction to red rot & smut. Good performance under moisture stress condition.
64	CoLk 12209 Ikshu 7	2019	-do-	-do-	Mid-late	81.97	18.41	R to MR reaction to red rot & smut. Good performance under moisture stress condition.



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63	Co 0232	2009	S.O. 454 (E)	Assam	Early	67.82	16.51	MR to red rot, tolerant to top borer, water logging & early drought
64	Co 0233	2009	S.O. 454 (E)	-do-	Mid-late	67.77	17.54	MR to red rot, tolerant to top borer, water logging & early drought
65	Co P 06436 (Co P 2061)	2015	S.O. 268 (E)	-do-	Mid-late	74.25	17.35	MR to red rot, smut & wilt
66	Co Pb 09181 (CoPb 91)	2016	S.O. 3540 (E)	Punjab		102	17.00	Tolerant to red rot, good ratooner
67	Co N 03131	2016	S.O. 3540 (E)	Gujarat	Early	147	18.50	For south Gujarat
68	Co N 04131	2016	S.O. 3540 (E)	-do-		135	18.13	MR to Red rot & less susceptible to smut
69	Co N 07072	2016	S.O. 3540 (E)	-do-		136	18.50	MR to Red rot & less susceptible to smut
70	Co N 09072	2017	S.O. 2805 (E)	Gujarat	Early	129	18.00	MR to Red rot & wilt, non lodging
71	Co C 25	2018	S.O. 399 (E)	TN	Early	145		MR to Red rot & less susceptible to shoot borer, good ratooner
72	Co VC 99463	2018	S.O. 1379 (E)	Karnataka	Mid-late	170		Drought tolerant, good rationing ability
73	VSI 12121 (VSI 08005)	2019	SO. 3220	Maharashtra	Mid-late	Adsali- 162.16 Pre-season- 148.49 Suru- 133.19		Tolerant to drought, good ratooner, moderate resistant to red-rot and wilt diseases.
74	Ranga (CoV 15356)	2019	-do-	Andhra Pradesh	Early	120-130		moderately resistant to red rot and smut
75	Swarna mukhi (CoT 10367)	2019	-do-	-do	Early	110		Good ratooner. Resistant to Red rot, wilt, smut and Pokkah boieng. Susceptible to Borers.

**MR – Moderate Resistant, R- Resistant**