



Technical Bulletin No. 108

IIVR Vegetable Varieties/ Hybrids



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Table of Contents

	Page No.
Preface	v
List of vegetable varieties/hybrids developed by ICAR-IIVR	vii
Tomato	1
Brinjal	7
Chilli	12
Cucumber	16
Bitter gourd	17
Bottle gourd	18
Sponge gourd	21
Ridge Gourd	26
Satputia	28
Pumpkin	29
Summer squash	31
Ash gourd	32
Watermelon	34
Muskmelon	35
Long melon	36
Round melon	37
Pointed gourd	38
Pea	40
Cowpea	44
Indian bean (Dolichos bean)	47
French bean	51



Faba bean	54
Carrot	55
Radish	56
Cauliflower	59
Okra	61
Amaranth	69
Basella (Poi)	70
Chenopod (Bathua)	72
Spinach beet (Palak)	73
Water spinach (Karamua Sag)	74
Winged bean	75
Package of Practices (PoP)	76
Genetic Stocks/Unique Germplasm Developed by ICAR-IIVR	94
Varieties of ICAR-IIVR in seed chain	100
List of genotypes identified at Institute level only	103



Preface

Vegetable crops constitute major share in Indian agriculture in term of providing food and nutritional security. The vegetables contain high amounts of essential nutrients such as vitamins, minerals and dietary fibres which are crucial for our overall growth and wellness. Integrating a diverse assortment of vegetables in our daily diet can help in leading a healthier life. Incorporating a diverse range of vegetables into one's diet can effectively mitigate the likelihood of developing chronic ailments such as cardiovascular disease, diabetes, specific forms of cancer etc. India produced 212 million tonnes of vegetable from 11.3 million hectare area during 2022-23. Now, it is not only a question of providing enough vegetables for a balanced diet to more than 1.4 billion populations but also to provide quality vegetables acceptable in international market.

The ICAR-Indian Institute of Vegetable Research, Varanasi, is a premier research institute in India, dedicated exclusively to basic, strategic, and applied research and extension on vegetable crops in the country. The ICAR-IIVR is dedicated towards improving the quality and availability of vegetables for the countrymen through cutting edge research. ICAR-IIVR has developed several technologies in the last two decades which have facilitated vegetable growers across the country in additional income generation and crop diversification. Additionally, it plays a key role in the production of high-quality seeds for a wide range of vegetable crops, which is one of its core mandates.

Till date, ICAR-IIVR has developed 129 varieties/hybrids in 33 vegetable crops some of which are being grown on sizeable area in different parts of the country. Majority of the vegetable growers are either unaware about the developed improved varieties/ hybrids of vegetable crops or seeds of such varieties/hybrids, especially those bred at public sector are not readily available. A ready reckoner was published way back in 2011 having details of varieties/hybrids developed by ICAR-IIVR, Varanasi. A strong need was being felt to compile and update the details of latest varieties/hybrids developed by ICAR-IIVR in single document to be used as ready reference by various stakeholders. This bulletin is a sincere effort to compile the



salient features of varieties/hybrids developed by ICAR-IIVR, Varanasi, since its inception for mutual benefit of vegetable growers, researchers, academicians, policy makers and other stakeholders. Matching package of practices for scientific cultivation of selected crops has also been added for raising a good crop. The information regarding unique germplasm to be used in trait-specific breeding is also given. Publication of this technical bulletin will be very helpful to popularize the ICAR-IIVR's vegetable varieties/ hybrids among the farmers. I am very much thankful to scientists of ICAR-IIVR, for the excellent cooperation extended in supplying the desired information.

Nevertheless, I am sure that this technical bulletin would be useful for the vegetable scientists, teachers, seed technologists, extension specialists, students and the farmers of this country.

(Nagendra Rai)
Director (A)
ICAR-IIVR, Varanasi



Vegetable varieties/hybrids developed by ICAR-IIVR, Varanasi

Sr. No.	Crop (No.)	Name	Variety/Hybrid
Solanaceous vegetables			
1.	Tomato (12)	Kashi Tapas	Hybrid
2.		Kashi Adbhut	Hybrid
3.		Kashi Chayan	Variety
4.		Kashi Aman	Variety
5.		Kashi Amul	Variety
6.		Kashi Adarsh	Variety
7.		Kashi Abhimaan	Hybrid
8.		Kashi Amrit	Variety
9.		Kashi Anupam	Variety
10.		Kashi Vishesh	Variety
11.		Kashi Hemant	Variety
12.		Kashi Sharad	Variety
13.	Brinjal (10)	Kashi Utsav	Hybrid
14.		Kashi Uttam	Variety
15.		Kashi Modak	Variety
16.		Kashi Brinjal Green Round	Variety
17.		Kashi Vijay	Variety
18.		Kashi Himani	Variety
19.		Kashi Manohar	Hybrid
20.		Kashi Sandesh	Hybrid
21.		Kashi Taru	Variety
22.		Kashi Prakash	Variety
23.	Chilli (8)	Kashi Garima	Hybrid
24.		Kashi Abha	Variety
25.		Kashi Tej	Hybrid
26.		Kashi Ratna	Hybrid
27.		Kashi Sinduri	Variety



28.		Kashi Gaurav	Variety
29.		Kashi Anmol	Variety
30.		Kashi Surkh	Hybrid
Cucurbitaceous vegetables			
31.	Cucumber (1)	Kashi Nutan	Hybrid
32.	Bitter gourd (2)	Kashi Pratishtha	Variety
33.		Kashi Mayuri	Variety
34.	Bottle gourd (6)	Kashi Shubhra	Variety
35.		Kashi Kirti	Variety
36.		Kashi Kundal	Variety
37.		Kashi Kiran	Variety
38.		Kashi Ganga	Variety
39.		Kashi Bahar	Hybrid
40.	Sponge gourd (7)	Kashi Vandana	Variety
41.		Kashi Kalyani	Variety
42.		Kashi Shreya	Variety
43.		Kashi Rakshita	Hybrid
44.		Kashi Jyoti	Variety
45.		Kashi Saumya	Hybrid
46.		Kashi Divya	Variety
47.	Ridge gourd (2)	Kashi Nanda	Variety
48.		Kashi Shivani	Variety
49.	Satputia (1)	Kashi Khushi	Variety
50.	Pumpkin (3)	Kashi Basant	Variety
51.		Kashi Shishir	Hybrid
52.		Kashi Harit	Variety
53.	Summer squash (1)	Kashi Shubhangi	Variety
54.	Ash gourd (3)	Kashi Surbhi	Variety
55.		Kashi Ujwal	Variety
56.		Kashi Dhawal	Variety
57.	Watermelon (1)	Kashi Mohini	Variety



58.	Muskmelon (1)	Kashi Madhu	Variety
59.	Long melon (2)	Kashi Santushti	Variety
60.		Kashi Vidhi	Variety
61.	Round melon (1)	Kashi Hari	Variety
62.	Pointed gourd (4)	Kashi Parwal-141	Variety
63.		Kashi Suphal	Variety
64.		Kashi Amulya	Variety
65.		Kashi Alankar	Variety
Leguminous vegetables			
66.	Pea (8)	Kashi Purvi	Variety
67.		Kashi Tripti	Variety
68.		Kashi Ageti	Variety
69.		Kashi Samridhi	Variety
70.		Kashi Mukti	Variety
71.		Kashi Nandini	Variety
72.		Kashi Shakti	Variety
73.		Kashi Udai	Variety
74.	Cowpea (6)	Kashi Vishan	Variety
75.		Kashi Nidhi	Variety
76.		Kashi Kanchan	Variety
77.		Kashi Gauri	Variety
78.		Kashi Shyamal	Variety
79.		Kashi Unnati	Variety
80.	Indian bean (Bush type: 5)	Kashi Bouni Sem-9	Variety
81.		Kashi Bouni Sem-3	Variety
82.		Kashi Bouni Sem-14	Variety
83.		Kashi Bouni Sem-18	Variety
84.		Kashi Bouni Sem-207	Variety
85.	Indian bean (Pole type: 3)	Kashi Khushal	Variety
86.		Kashi Sheetal	Variety
87.		Kashi Haritima	Variety



88.	French bean (5)	Kashi Agrim	Variety
89.		Kashi Baingani	Variety
90.		Kashi Sampann	Variety
91.		Kashi Rajhans	Variety
92.		Kashi Param	Variety
93.	Faba bean (1)	Kashi Sampada	Variety
Cole & Root Crops			Variety
94.	Carrot (2)	Kashi Arun	Variety
95.		Kashi Krishna	Variety
96.	Radish (6)	Kashi Aardra	Variety
97.		Kashi Lohit	Variety
98.		Kashi Mooli-40	Variety
99.		Kashi Rituraj	Hybrid
100.		Kashi Hans	Variety
101.		Kashi Sweta	Variety
102.	Cauliflower (3)	Kashi Gobhi-25	Variety
103.		Kashi Agahani	Variety
104.		Kashi Kunwari	Variety
Okra			
105.	Okra (15)	Kashi Parakram	Variety
106.		Kashi Sahishnu	Variety
107.		Kashi Utkarsh	Variety
108.		Kashi Shristi	Hybrid
109.		Kashi Chaman	Variety
110.		Kashi Lalima	Variety
111.		Kashi Vardaan	Variety
112.		Kashi Kranti	Hybrid
113.		Kashi Bhairav	Variety
114.		Kashi Lila	Variety
115.		Kashi Pragati	Variety
116.		Kashi Satdhari	Variety



117.		Kashi Vibhuti	Variety
118.		Sheetla Jyoti	Hybrid
119.		Sheetla Uphar	Hybrid
Leafy & Other vegetables			
120.	Amaranth (2)	Kashi Chaulai-1	Variety
121.		Kashi Suhaavani	Variety
122.	Basella (Poi) (3)	Kashi Poi-1	Variety
123.		Kashi Poi-2	Variety
124.		Kashi Poi-3	Variety
125.	Chenopod (Bathua) (2)	Kashi Bathua-2	Variety
126.		Kashi Bathua-4	Variety
127.	Spinach beet (Palak) (1)	Kashi Baramasi	Variety
128.	Water spinach (<i>Karamua Sag</i>) (1)	Kashi Manu	Variety
129.	Winged bean	Kashi Annapurna	Variety

Total 129 Varieties/hybrids in 33 vegetable crops.



Solanaceous vegetables

Crop: Tomato

1. Kashi Tapas (Hybrid)

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Indeterminate in growth : Fruits- Red and oblong : Average fruit weight: 40-45 g : Harvesting up to 1 st week of June
Yield	: 370-375 q/ha (summer season)
Recommended state	: Uttar Pradesh
Special attributes	: High temperature tolerant (38 ± 2 °C) and suitable for cultivation in summer season



2. Kashi Adbhut (Hybrid)

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Determinate in growth : Fruits- Red and oblong : Average fruit weight: 50-60 g : Harvesting up to mid-June & 5-7 days storability at room temperature in May-June
Yield	: 400-445 q/ha (summer season)
Recommended state	: Uttar Pradesh
Special attributes	: High temperature tolerant (38 ± 2 °C) and suitable for cultivation in summer season





3. Kashi Chayan

Notification year	: 2021 (AICRP-VC)
Gazette Notification	: S.O. 1480 (E) dt. 01.04.2021
Salient features	: Semi-determinate in growth : Fruits- Red, flat round and dark green shoulder : Average fruit weight: 100-120 g
Yield	: 500-550 q/ha
Recommended states	: Bihar, Jharkhand, Punjab, Uttar Pradesh, Goa, Madhya Pradesh and Maharashtra
Special attributes	: ToLCD resistant (<i>Ty-3</i> gene) : Suitable for tomato juice preparation



4. Kashi Aman

Notification year	: 2018 (AICRP-VC)
Gazette Notification	: S.O. 261(E) dt.16.01.2018
Salient features	: Determinate in growth : Fruits- Red, round and firm : Average fruit weight: 80-110 g
Yield	: 550-600 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand
Special attributes	: ToLCD resistant (<i>Ty-3</i> gene)





5. Kashi Amul

Notification year	: 2018 (AICRP-VC)
Gazette Notification	: S.O. 261(E) dt.16.01.2018
Salient features	: Semi-determinate in growth : Fruits- Red, round and firm : Average fruit weight: 90-115 g
Yield	: 500-600 q/ha
Recommended states	: Karnataka, Kerala, Puducherry and Tamil Nadu
Special attributes	: ToLCD resistant



6. Kashi Adarsh

Notification year	: 2016 (AICRP-VC)
Gazette Notification	: S.O. 3666 (E) dt. 06.12.2016
Salient features	: Semi-determinate in growth : Fruits- Red, round, firm : Average fruit weight: 80-115 g
Yield	: 550 q/ha
Recommended states	: Goa, Madhya Pradesh and Maharashtra
Special attributes	: ToLCD resistant





7. Kashi Abhimaan (Hybrid)

Notification year	: 2012 (AICRP-VC)
Gazette Notification	: S.O. 2363 (E) dt. 04.10.2012
Salient features	: Determinate in growth : Fruits- Deep red and firm : Average fruit weight: 90-100 g
Yield	: 800-900 q/ha
Recommended states	: Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Uttar Pradesh, Bihar and Jharkhand
Special attributes	: Moderately resistant to ToLCD



8. Kashi Amrit

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Determinate in growth : Fruits- Round and red : Average fruit weight: 80-90 g
Yield	: 600-620 q/ha
Recommended state	: Uttar Pradesh





9. Kashi Anupam

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Determinate plant growth : Fruits- Flatish round and red : Average fruit weight: 100-110 g
Yield	: 500-600 q/ha
Recommended states	: Delhi, Gujarat, Haryana and Rajasthan



10. Kashi Vishesh

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Determinate plant growth, : Fruits- Spherical and red : Average fruit weight- 80 g
Yield	: 400-500 q/ha
Recommended states	: Himachal Pradesh, Jammu & Kashmir, Uttarakhand, Bihar, Jharkhand, Uttar Pradesh, Punjab, Andhra Pradesh, Telangana, Chhatisgarh, Odisha, Karnataka, Kerala, Puducherry and Tamil Nadu
Special attribute	: ToLCD resistant





11. Kashi Hemant

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Determinate plant growth : Fruits- Round & red : Average fruit weight- 80-85 g
Yield	: 400-420 q/ha
Recommended states	: Andhra Pradesh, Telangana, Chhattisgarh, Orissa, Goa, Madhya Pradesh and Maharashtra



12. Kashi Sharad

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Indeterminate plant growth : Fruits- red, oval, firm and thick pericarp : Average fruit weight: 90-95 g
Yield	: 400-500 q/ha
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attribute	: Longer shelf life of fruit





Crop: Brinjal

1. Kashi Utsav (Hybrid)

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Dark purple long fruit
Yield	: 610-630 q/ha
Recommended states	: Madhya Pradesh, Maharashtra and Goa
Special attributes	: Moderately resistant to little leaf and <i>Phomopsis</i> blight under field condition : Remunerative for farmer of North India during summer season, if transplanted in January



2. Kashi Uttam

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Round purple fruits & starts first picking after 90 days of sowing : Soft pulp and less seeded
Yield	: 500-550 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Moderately resistant to <i>Phomopsis</i> blight : Tolerant to high moisture stress after 2 weeks of transplanting : Suitable for <i>Bharta</i> making





3. Kashi Modak

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Small round fruit & dark purple
Yield	: 450-500 q/ha
Recommended states	: Andhra Pradesh, Telangana, Chhattisgarh and Odisha
Special attributes	: Tolerant to shoot and fruit borer and <i>phomopsis</i> blight



4. Kashi Brinjal Green Round

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Medium sized, round, light green fruits with soft pulp and less-seeded : Suitable for early August transplanting and harvesting up to first week of April : 240-250 days crop duration (from transplanting to last picking)
Yield	: 550-600 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand
Special attributes	: Tolerant to moisture deficient (50-60 days) & high temperature up to 28-30°C (night) : Suitable for <i>Bharta</i> making





5. Kashi Vijay

Notification year	: 2021 (AICRP-VC)
Gazette Notification	: S.O. 1480 (E) dt. 01.04.2021
Salient features	: Bushy plants with sturdy stems, medium long fruits, purplish pink
Yield	: 470-530 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand
Special attributes	: Tolerant to <i>Phomopsis</i> blight and <i>Fusarium</i> wilt in field conditions : Suitable for <i>Kalaunji</i> making



6. Kashi Himani

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Medium long & shiny white fruits with less seeds
Yield	: 400-430 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for kharif season : Medicinal value for diabetic patients : Tolerant to fruit and shoot borer, moisture deficit and lodging





7. Kashi Manohar (Hybrid)

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Medium long fruits, pinkish purple with soft pulp and less seeded
Yield	: 650-700 q/ha
Recommended states	: Madhya Pradesh, Maharashtra and Goa
Special attributes	: Moderately resistant to Phomopsis blight and Fusarium wilt in field conditions : Tolerant to moisture deficient (50-60 days) & high temperature up to 28-30°C (night). : Suitable for curry and <i>Kalaunji</i> making



8. Kashi Sandesh (Hybrid)

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 2035 (E) dt. 28.11.2006
Salient features	: Fruits purple, medium, round, 30-40 fruits per plant & average fruit weight 350-400 g, soft pulp and less seeded : Harvesting starts from 55-60 days after transplanting
Yield	: 700 q/ha
Recommended states	: Bihar, Jharkhand, Punjab, Uttar Pradesh, Delhi, Gujarat, Haryana and Rajasthan
Special attributes	: Better keeping quality : Suitable for <i>Bharta</i> making





9. Kashi Taru

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E), 25.04.2006
Salient features	: Erect, plant height (120-130 cm), fruit long, glossy dark purple colour, length 31 cm & diameter 5 cm
Yield	: 700-750 q/ha
Recommended state	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attributes	: Picking starts 75-80 days after transplanting



10. Kashi Prakash

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Fruit shape long, light green sparsely spotted colour & average weight 190 g : Picking starts in 80-82 after transplanting
Yield	: 650-700 q/ha
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attribute	: Picking starts 80-82 days after transplanting





Crop: Chilli

1. Kashi Garima (Hybrid)

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: CMS-based high yielding hybrid : First picking start from 50 days of transplanting : Fruits 7-9 cm long, 0.8-1.0 cm width, thin pericarp, slightly wrinkled, pendant, straight and pointed and pungent
Yield	: 200-225 q/ha (green)
Recommended state	: Uttar Pradesh
Special attributes	: Tolerant to ChiLCV, thrips & mites under field condition : Suitable for export of green fruits



2. Kashi Abha

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Early to medium maturing, first picking from 50-60 days after transplanting : Crop duration 8-9 months & pungent
Yield	: 150-160 q/ha (green)
Recommended state	: Uttar Pradesh
Special attributes	: Multiple stress tolerant & good transportability





3. Kashi Tej (Hybrid)

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: CMS-based high yielding hybrid : Early maturing (70-75 days after sowing) : Fruits parrot green coloured, pendant, pungent (capsaicin 1.06%; 91500 SHU; vitamin C: 178 mg/100g FW), 10-12 cm long, 1.0-1.3 cm thick, pointed at apex
Yield	: 160-180 q/ha (green)
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for both table and red dry chillies



4. Kashi Ratna (Hybrid)

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: CMS-based high yielding hybrid : Semi-erect & green foliage : Fruits green coloured, pendant, pungent, 8-10 cm long, 1.1-1.3 cm thick, pointed at apex : Medium glossy with slightly rough fruit texture
Yield	: 200-230 q/ha (green)
Recommended state	: Uttar Pradesh
Special attributes	: Moderately tolerant to ChiLCV under field conditions





5. Kashi Sinduri

Notification year	: 2012 (AICRP-VC)
Gazette Notification	: S.O. 456(E) dt. 16.03.2012
Salient features	: Paprika type & determinate : 50% flowering in 30-35 days after transplanting : Non-pungent, high oleoresin content (15%) & ASTA colour value > 140
Yield	: 200-225 q/ha (Green)
Recommended states	: Karnataka, Kerala, Puducherry and Tamil Nadu
Special attribute	: Moderately resistant to anthracnose disease



6. Kashi Gaurav

Notification year	: 2012 (AICRP-VC)
Gazette Notification	: S.O. 456(E) dt. 16.03.2012
Salient features	: 50% flowering in 35-40 days after transplanting : Fruit colour dark green and dark red ripe
Yield	: 100 q/ha
Recommended states	: West Bengal and Assam
Special attributes	: Tolerant to thrips and mites





7. Kashi Anmol

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Plants are determinate, dwarf (60-70 cm) with nodal pigmentation on stem : First picking starts 55 days after transplanting
Yield	: 200-225 q/ha (Green)
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attribute	: Early variety suitable for rice-wheat cropping system



8. Kashi Surkh (Hybrid)

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 2035 (E), 28.11.2006
Salient features	: CMS-based hybrid : Fruits colour light green & suitable for green as well as red fruit production
Yield	: 240 q/ha (Green)
Recommended states	: Assam, West Bengal, Bihar, Jharkhand, Punjab, Uttar Pradesh, Andhra Pradesh, Telangana, Chhattisgarh, Orissa, Delhi, Gujarat, Haryana and Rajasthan
Special attribute	: Long attractive red fruits





Cucurbitaceous vegetables

Crop: Cucumber

1. Kashi Nutan (Hybrid)

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O.1362(E) dt. 12.03.2024
Salient features	: Early maturing hybrid, cylindrical long light green colour with mottling at peduncle side of fruit
Yield	: 175-180 q/ha
Recommended states	: Uttar Pradesh, Maharashtra, Madhya Pradesh and Goa
Special attributes	: Better keeping quality and suitable for rainy & summer seasons





Crop: Bitter gourd

1. Kashi Pratishta

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Suitable for processing i.e. chips making (long, slender and fleshy)
Yield	: 290-300 q/ha
Recommended state	: Goa, Madhya Pradesh and Maharashtra
Special attribute	: Long distance transportation



2. Kashi Mayuri

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Medium maturity and comparatively less seeds (10-15)/ fruit Uniform fruit shape and size
Yield	: 190-195 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Variety is capable of fruiting during hot summer (> 35 °C) : Tolerant to anthracnose, downey mildew and mosaic diseases : Longer shelf life of fruits





Crop: Bottle gourd

1. Kashi Shubhra

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Fruits are cylindrical, green, attractive and medium long (28-30 cm)
Yield	: 590-600 q/ha
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attributes	: Tolerant to downey mildew : <i>Gutka</i> type variety and suitable for packaging, distant transportation & export



2. Kashi Kirti

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Fruits are green, small, cylindrical shape : Early maturing and high yielding over the check variety
Yield	: 440-460 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for distant marketing due to better post-harvest life : <i>Gutka</i> type variety





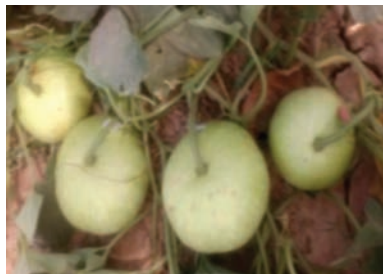
3. Kashi Kundal

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Oval shape fruit, sowing in 1 st fortnight of September : Days to 1 st harvest at 90-95 days after sowing
Yield	: 375-410 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for off season production under lower temperature : Tolerant to downy mildew and powdery mildew disease



4. Kashi Kiran

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Light green attractive round fruits : Average fruit weight ranges from 600-700 g and capable of producing 13-14 fruits/plant
Yield	: 450-480 q/ha
Recommended state	: Uttar Pradesh
Special attribute	: Tolerant to downey mildew





5. Kashi Ganga

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E), dt. 25.04.2006
Salient features	: Light green fruit, length 30cm and diameter 7 cm and individual fruit weight: 800-900 g
Yield	: 480-550 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Tolerant to powdery and downy mildew diseases



6. Kashi Bahar (Hybrid)

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Long fruited hybrid, fruit straight, light green, length 30-32 cm : Average weight 780-850 g
Yield	: 500-550 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for rainy and summer season cultivation : Tolerant to anthracnose, downy mildew and : <i>Cercospora</i> leaf spot under field conditions





Crop: Sponge gourd

1. Kashi Vandana

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Medium viny (3.5-5.50 m) with fruiting at every node : Fruits are green, long straight (18-25 cm on the flatbed, up to 27 cm on bower) and with 3.2-3.8 cm diameter : Average fruit weight of 125-150 g : Fruits harvest in 39-46 days from the date of sowing
Yield	: 150-200 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar, Jharkhand, Karnataka, Tamil Nadu, Kerala and Puducherry
Special attributes	: Tolerant to sponge gourd mosaic and downy mildew diseases under field condition





2. Kashi Kalyani

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Medium viny (3.5-5.50 m) with fruiting at every node : Fruits are dark green, long straight (20-25 cm on the flatbed, up to 32 cm on bower) and with 3.25-3.75 cm diameter : Average fruit weight ranges from 150-175 g : Fruit harvest in 42-45 days from date of sowing
Yield	: 150-200 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar, Jharkhand, Rajasthan, Gujarat, Haryana and Delhi
Special attributes	: Tolerant to sponge gourd mosaic & downy mildew diseases under field condition





3. Kashi Shreya

Notification year	: 2019 (AICRP-VC)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Medium viny (3.5-5.50 m) with fruiting at every node. : Fruits dark green, long straight (20-25 cm on flat bed, up to 32 cm on bower) and with 3-3.75 cm diameter : Fruits harvest at 50-55 days from sowing date
Yield	: 150-200 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand
Special attributes	: Resistant to sponge gourd mosaic & downy mildew diseases under field condition



4. Kashi Rakshita (Hybrid)

Notification year	: 2019 (AICRP-VC)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: High yielding hybrid, medium viny (3.5-5.50 m) with fruiting at every node : First harvesting at 48-52 days after sowing, dark green fruits, long straight (20-25 cm on flat bed & 30 cm on bower system) with 3-4 cm diameter
Yield	: 200-250 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand
Special attributes	: Tolerant to sponge gourd mosaic & downy mildew diseases under field condition





5. Kashi Jyoti

Notification year	: 2019 (AICRP-VC)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Medium viny (3.5-5.50 m) with fruiting at every node. : Fruits are light green, long straight (20-25 cm on flat bed up to 30 cm on bower) and with 2.5-3.0 cm diameter. : Average fruit weight ranges from 100 g to 140 g. : Fruits harvest at 50-55 days from date of sowing
Yield	: 150-180 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar, Jharkhand, Karnataka, Tamil Nadu, Kerala and Puducherry
Special attributes	: Tolerant to sponge gourd mosaic virus & downey mildew and root knot nematode



6. Kashi Saumya (Hybrid)

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Medium viny (3.5-5.50 m) with dark green foliage : Fruits are green, long straight 20-25 cm and may increase on bower up to 32 cm with a diameter of 2.5-3.25 cm
Yield	: 180-190 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Tolerant to sponge gourd mosaic virus & downey and powdery mildew under field condition : Suitable for river bed cultivation





7. Kashi Divya

Notification year	: 2012 (AICRP-VC)
Gazette Notification	: S.O. 456(E) dt. 16.03.2012
Salient features	: Fruiting starts 48-50 days after sowing, single plant bears 10-12 light green fruits : Fruit length size 15-16 cm and weight 80-85 g
Yield	: 250-300 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand
Special attributes	: Tolerant to sponge gourd mosaic virus & downey and powdery mildew under field condition





Crop: Ridge Gourd

1. Kashi Nanda

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	<ul style="list-style-type: none"> : Foliage is green, medium viny (3.5-5.5 m.) and first male and female flower appears on 34-39 days and 35-40 days after sowing, respectively : Fruits are green, long straight (15-20 cm and may increase on bower up to 23cm) with a diameter of 3.2-3.8 cm : Average fruit weight ranges from 100 g to 125g. : Fruits will be ready for harvest after 42-48 days from the date of sowing
Yield	: 140-180 q/ha
Recommended states	: Chhattisgarh, Odisha and Andhra Pradesh





2. Kashi Shivani

Notification year	: 2016 (AICRP-VC)
Gazette Notification	: S.O. 3666(E) dt. 06.12.2016
Salient features	: Foliage is green, medium viny (3.5-5.25 m.). First male and female flowers appear at node number 5-10 and 15-24, respectively : Fruits are green, long straight 20-30 cm and may increase on bower up to 40cm with a diameter of 3-4 cm : Average fruit weight ranges from 100 g to 150g. Fruit harvested 50-60 days after sowing
Yield	: 180-200 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand





Crop: Satputia

1. Kashi Khushi

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Hermaphrodite flower with cluster bearing fruiting habit. : Early maturing variety having light green fruit with ten dark superficial and continuous longitudinal ridges & may produce 130-150 fruits/plant
Yield	: 125-135 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for kharif season and can be also grown in spring season





Crop: Pumpkin

1. Kashi Basant

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Early maturing variety, round, mottle green colour & medium fruit weight 2.5-3.0 kg : Number of fruits/plant 3.0 to 4.5 having flesh thickness 3.0-3.25 cm : Carotenoid content of fruit is 2.6 mg/100 g
Yield	: 350-400 q/ha
Recommended states	: Chhattisgarh, Odisha and Andhra Pradesh
Special attributes	: Tolerant to pumpkin mosaic virus and downy mildew



2. Kashi Shishir (Hybrid)

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Early maturing hybrid with small round and mottled green fruits (2-2.25 kg) & 3-4 fruits/plant
Yield	: 380-420 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for summer & kharif seasons





3. Kashi Harit

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Vine short, early maturing, fruits colour green, spherical shape and weight 2.5-3.0 kg at green stage : Best for green fruit production
Yield	: 300-350 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for summer & kharif seasons





Crop: Summer squash

1. Kashi Shubhangi

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Medium maturing bushy variety bearing 8-10 medium size elongated dark green shining fruit with average fruit weight (800-900 g)
Yield	: 600-650 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Resistant to downey mildew : Most suitable for autumn and also can be grown in spring season





Crop: Ash gourd

1. Kashi Surbhi

Notification year	: 2014 (AICRP-VC)
Gazette Notification	: S.O. 244(E) dt. 24.01.2014
Salient features	: Fruit shape oblong & fruit size medium with average weight 9.5-10 kg : Flesh white with 8.5-8.7 cm thickness
Yield	: 700-750 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand



2. Kashi Ujwal

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 2035(E) dt. 28.11.2006
Salient features	: Less seeded fruits, average fruit weight 10-12 kg & fruit shape globular
Yield	: 400-500 q/ha
Recommended states	: Bihar, Jharkhand, Punjab, Uttar Pradesh, Karnataka, Kerala, Puducherry and Tamil Nadu





3. Kashi Dhawal

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Fruits shape oblong, average fruit weight 11-12 kg, fruit flesh white with 8.5-8.7 cm thickness & seed arrangements linear
Yield	: 550-600 q/ha
Recommended states	: Uttar Pradesh
Special attributes	: Crop duration 120 days





Crop: Watermelon

1. Kashi Mohini

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362 (E) dt. 12.03.2024
Salient features	: Early maturity (80 days after sowing) and better sweetness (TSS > 13°Brix)
Yield	: 540-560 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for summer and kharif season cultivation





Crop: Muskmelon

1. Kashi Madhu

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Fruits round with open prominent green sutures & weight 650-725 g : Flesh salmon orange and thick & 13-14% TSS
Yield	: 200-270 q/ha
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attributes	: Tolerant to powdery and downy mildew





Crop: Long melon

1. Kashi Santushti

Notification year	: 2021 (AICRP-VC)
Gazette Notification	: S.O. 1480 (E) dt. 01.04.2021
Salient features	: Fruit length 30 cm, average fruit weight 30-60 g : Fruit skin colour light green, smooth prominent ridges & crispy
Yield	: 150-200 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand



2. Kashi Vidhi

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Early, harvesting starts at 45-48 days after Sowing (4-5 days early compare to other variety) : Long fruit (25-35 cm), light green colour, crispy and free from carpel separation : High yield potential (340-360 q/ha) in 70 to 80 days crop duration
Yield	: 300-350 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Field tolerant to viruses and downy mildew





Crop: Round melon

1. Kashi Hari

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Early & light green fruit colour with round shape : High dry matter and better edible quality
Yield	: 150-160 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Fits well in any cropping system due to its short growing period (70-80 days) : Suitable for both seasons (Kharif & Summer)





Crop: Pointed gourd

1. Kashi Parwal-141

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Attractive light green fruit colour and slightly taper toward both stem and blossom ends : Fruit length 8-9 cm and diameter 2.5-3.0 cm : Harvesting starts 85-90 days after transplanting
Yield	: 225-250 q/ha
Recommended state	: Uttar Pradesh



2. Kashi Suphal

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Attractive light green with mild stripes, fleshy fruit with soft seed : Long duration of fruit retention on plants
Yield	: 180-200 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Better keeping quality





3. Kashi Amulya

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Less seeded 5-8 seed/fruit as compared to 25-30 seeds in normal variety & more fleshy : Attractive light green fruit with sparsely distributed white stripes
Yield	: 200-220 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Better keeping quality



4. Kashi Alankar

Notification year	: 2007 (SVRC-UP)
Gazette Notification	: S.O. 858(E) dt. 01.06.2007
Salient features	: Fruits colour green, spindle in shape and striped at distal end of the fruit : Single plant bears 120-130 fruits, fruit size length in 6.7cm and weight 25-27g
Yield	: 180-200 q/ha
Recommended states	: Uttar Pradesh





Leguminous vegetables

Crop: Pea

1. Kashi Purvi

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Early type (days to 50% flowering: 35-40); pods ready in 65-70 days; 10-13 pods/plant, 8-8.5 cm; 50-52% of shelling
Yield	: 108-117 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for multiple cropping sequence



2. Kashi Tripti

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Edible podded & mid-maturity; 50-56 days to flowering; 80-85 days to harvest; 12-15 pods/plant, 7.1-8.0 g/pod; 2-3 picking.
Yield	: 95-100 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Resistant to powdery mildew





3. Kashi Ageti

Notification year	: 2015 (AICRP-VC)
Gazette Notification	: S.O. 2277(E) dt. 17.08.2015
Salient features	: Determinate, dark green foliage, early & 8-9 pods/ plant : Pod weight 9-10 g & shelling 48.5-50%
Yield	: 100-120 q/ha
Recommended states	: Uttar Pradesh, Bihar, Jharkhand and Punjab



4. Kashi Samridhi

Notification year	: 2012 (AICRP-VC)
Gazette Notification	: S.O. 2363(E) dt. 04.10.2012
Salient features	: Late-maturing type : Pods green, straight & slightly curved at tips, 7.5- 8.0 cm long, 13-14/plant & avg. pod weight 5-6g, sweet (3.86% total sugar) & shelling 46-48%
Yield	: 120-140 q/ha
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attributes	: Powdery mildew resistant : Available when the early varieties are almost over & harvesting in 90-95 days after sowing





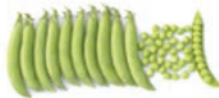
5. Kashi Mukti

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Early maturing, plant height is 50-53 cm & foliage light green : Pods 8.5-9 cm long, 8-9 bold soft textured seeds & shelling 48-49%
Yield	: 110-120 q/ha
Recommended states	: Uttar Pradesh
Special attributes	: Powdery mildew resistant



6. Kashi Nandini

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Early, 7-8 pods per plant, pods length 8-9cm : Pod filled with 8-9 seeds & shelling 47-48%
Yield	: 110-120 q/ha
Recommended states	: Himachal Pradesh, Jammu & Kashmir, Uttarakhand, Bihar, Jharkhand, Punjab, Uttar Pradesh, Karnataka, Kerala, Poducherry and Tamil Nadu





7. Kashi Shakti

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Medium maturing, 11-12 pods per plant : Pods length 10-11 cm, pod filled with 7.5-8.5 bold seed & selling 48-49%
Yield	: 140-160 q/ha
Recommended states	: Uttar Pradesh



8. Kashi Udai

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Early, 8-10 pods per plant & pod length 9-10 cm : Pod filled with 8-9 bold seed & selling 48%
Yield	: 100-110 q/ha
Recommended states	: Uttar Pradesh





Crop: Cowpea

1. Kashi Vishan

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Bush type variety with erect growth habit and photo-insensitive : Pods are 32-35 cm long, dark green & tender
Yield	: 140-160 q/ha (green pods)
Recommended states	: Uttar Pradesh, Bihar, Jharkhand and Punjab
Special attributes	: Pods free from parchment layer, Resistant to Cowpea golden mosaic virus



2. Kashi Nidhi

Notification year	: 2012 (AICRP-VC)
Gazette Notification	: S.O. 2363(E) dt. 04.10.2012
Salient features	: Dwarf and bushy type (45-50 cm height) : Photo-insensitive, early flowering in 35-40 days, first picking in 45-50 DAS : 40-45 pods/plant with pod length of 30-35 cm & pod colour dark green
Yield	: 150-175 q/ha (green pods)
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attribute	: Resistant to Cowpea golden mosaic virus





3. Kashi Kanchan

Notification year	: 2007 (AICRP-VC)
Gazette Notification	: S.O. 858(E) dt. 01.06.2007
Salient features	: Dwarf and bushy type (50-60 cm height) : Photo-insensitive, early flowering in 40-45 days & first picking in 50-55 DAS : 40-45 pods/plant with pod length of 30-35 cm & pod colour green
Yield	: 150-175 q/ha (green pods)
Recommended states	: Bihar, Jharkhand, Punjab, Uttar Pradesh, Andhra Pradesh, Telangana, Chhattisgarh, Orissa, Goa, Madhya Pradesh and Maharashtra
Special attribute	: Resistant to Cowpea golden mosaic virus



4. Kashi Gauri

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Dwarf and bushy type (70-75 cm height) : Photo-insensitive & early in flowering 35-40 days, first picking in 45-50 DAS : 35-40 pods/plant with pod length of 25-30 cm & pod colour light green
Yield	: 100-125 q/ha (green pods)
Recommended state	: Uttar Pradesh
Special attribute	: Resistant to Cowpea golden mosaic virus





5. Kashi Shyamal

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Dwarf and bushy type (70-75 cm height) : Photo-insensitive, early in flowering 35-40 days & first picking in 45-50 DAS : 45-50 pods/plant with pod length of 30-35 cm & pod colour green
Yield	: 75-100 q/ha (green pods)
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attribute	: Resistant to Cowpea golden mosaic virus



6. Kashi Unnati

Notification year	: 2007 (SVRC-UP)
Gazette Notification	: S.O. 858(E) dt. 01.06.2007
Salient features	: Dwarf and bushy type (40-45 cm height) : Photo-insensitive, early in flowering 30-35 days & first picking in 40-45 DAS : 40-45 pods/plant with pod length of 30-35 cm & pod colour light green
Yield	: 125-150 q/ha (green pods)
Recommended state	: Uttar Pradesh
Special attribute	: Resistant to Cowpea golden mosaic virus





Crop: Indian bean (Dolichos bean)

1. Kashi Bouni Sem-3

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Bush type, plant height 80-85 cm : First picking after 80-85 days of sowing
Yield	: 255-260 q/ha
Recommended states	: Delhi, Gujarat, Haryana, Rajasthan, Goa, Madhya Pradesh, Maharashtra, Karnataka, Kerala, Puducherry and Tamil Nadu
Special attributes	: Tolerant to day temperature of up to 35°C : Free from Dolichos yellow vein mosaic virus



2. Kashi Bouni Sem-9

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Bush type, plant height 70-75 cm, first picking after 70-75 days of sowing
Yield	: 240-245 q/ha
Recommended states	: Goa, Madhya Pradesh and Maharashtra
Special attributes	: Tolerant to day temperature of up to 35°C : Free from Dolichos yellow vein mosaic virus





3. Kashi Bouni Sem-14

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Bush type (50-60 cm plant height) & first picking starts at 90-95 days after seed sowing : Peak fruiting period last week of December to last week of January. : Pods are green, 10-12 cm in length, 2.60-2.80 cm in width and per pod weight 7.9 g
Yield	: 295-300 q/ha
Recommended states	: Goa, Madhya Pradesh, Maharashtra, Karnataka, Kerala, Puducherry and Tamil Nadu
Special attributes	: Tolerant to day temperature up to 35°C & 135-140 days crop duration (3-4 pickings) : Tolerant to DYMV during cropping season in field



4. Kashi Bouni Sem-18

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Bushy type (plant height 70-80 cm) : Purple pods, slightly curved 8-10 cm in length 1.8-2 cm in width and per pod weight 7 g : First picking starts 90-95 days after seed sowing : Peak fruiting period last week of January last week of February
Yield	: 340-350 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar, Jharkhand, Rajasthan, Gujarat, Haryana and Delhi
Special attributes	: Tolerant to DYMV during cropping season in field : Tolerant to day temperature up to 35°C & crop duration of 145-150 days (5-6 pickings)





5. Kashi Bouni Sem-207

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: Proposed
Salient features	: Bushy growth habit (no staking required), plant height 65-70 cm : First picking starts 90-95 days after sowing (Oct) and harvesting up to last week of March : Pods are 10-12 cm in length and 2.50-2.80 cm in width having 9.0 g per pod weight with an average yield in 5 pickings
Yield	: 236 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar, Jharkhand, Rajasthan, Gujarat, Haryana and Delhi
Special attributes	: Tolerant to DYMV under field condition. : Tolerant to high temperature up to 35°C (day)



6. Kashi Khushal

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692(E) dt. 05.02.2019
Salient features	: Pole type variety has shiny dark green, slightly curved glabrous fruit containing 4-5 coffee colour seed
Yield	: 385-390 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Tolerant to high temperature and DYMV





7. Kashi Sheetal

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692(E) dt. 05.02.2019
Salient features	: Pole type, medium maturity and good pod quality
Yield	: 350-360 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Tolerant to low temperature and DYMV



8. Kashi Haritima

Notification year	: 2012 (AICRP-VC)
Gazette Notification	: S.O. 2363(E) dt. 04.10.2012
Salient features	: Pole type, 250-300 pods per plant, average pod length of 14-15cm : Pods colour green, soft in texture & free from parchment layer
Yield	: 350-375 q/ha
Recommended states	: Andman & Nicobar, North East States, Bihar, Jharkhand, Punjab, Uttar Pradesh, Andhra Pradesh, Telangana, Chhattisgarh, Orissa, Goa, Madhya Pradesh and Maharashtra





Crop: French bean

1. Kashi Agrim

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Bears purplish flowers, pods bright green, fleshy, tender, straight, cylindrical and free from parchment. : Bears about 20-25 pods/plant & 15-16 cm in length, 0.8-0.9 cm in width and 6.5-6.6 g in weight
Yield	: 125-150 q/ha (green pod)
Recommended states	: Jammu and Kashmir, Himachal Pradesh and Uttarakhand
Special attribute	: Resistant to Sclerotinia rot disease



2. Kashi Baingani

Notification year	: 2021 (AICRP-VC)
Gazette Notification	: S.O. 1480 (E) dt. 01.04.2021
Salient features	: Purple-podded pole type : Pod length 14-15 cm & flowers 70-80 days after sowing
Yield	: 155-160 q/ha (green pod)
Recommended states	: Jammu and Kashmir, Himachal Pradesh, Uttarakhand, Goa, Madhya Pradesh, Maharashtra, Karnataka, Kerala, Puducherry and Tamil Nadu
Special attribute	: Anthocyanin rich/purple pods





3. Kashi Sampann

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692(E) dt. 05.02.2019
Salient features	: Late maturing, bush type high yielding with round & light green pods
Yield	: 250-300 q/ha (green pod)
Recommended state	: Uttar Pradesh
Special attribute	: Tolerant to GYMV



4. Kashi Rajhans

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692(E) dt. 05.02.2019
Salient features	: Bushy variety has dark green & thin round slightly curved fleshy : Free from parchment and smooth surface pod
Yield	: 235-240 q/ha (green pod)
Recommended state	: Uttar Pradesh
Special attributes	: Tolerant to French bean golden yellow mosaic virus





5. Kashi Param

Notification year	:	2006 (AICRP-VC)
Gazette Notification	:	S.O. 2035(E) dt. 28.11.2006
Salient features	:	Plants are determinate (70 cm long), leaves are dark green : Pod is fleshy, length 14.7 cm, round & dark green
Yield	:	120-140 q/ha (green pod)
Recommended states	:	Himachal Pradesh, Jammu & Kashmir, Uttarakhand, Goa, Madhya Pradesh and Maharashtra





Crop: Faba bean

1. Kashi Sampada

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Plants of are tall (90-100 cm height) with 6-8 primary branches : Pods 6-7 cm long with width 1.3-1.5 cm, each node having 3-4 pods with 4 ovules per pod : Green pods are soft and suitable for table purpose
Yield	: 155-160 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Green pods are rich in L-DOPA : Tolerant to powdery mildew and charcoal rot under field condition





Cole & Root Crops

Crop: Carrot

1. Kashi Arun

Notification year	: 2022 (AICRP-VC)
Gazette Notification	: S.O. 3254 (E) dt. 20.07.2022
Salient features	: Tropical type, roots are attractive red in colour (21-23 cm in length, 110-125 g in weight & 8.5-9.0 °Brix TSS). Danvers (triangular) in shape : Higher frequency (>90%) of self-coloured core : Ready to harvest in 90-100 days
Yield	: 300-350 q/ha
Recommended states	: Madhya Pradesh, Maharashtra, Goa, Karnataka, Tamil Nadu, Kerala and Puducherry
Special attributes	: Good source of lycopene (7.25-7.50 mg/100 g FW) and beta-carotene (3.5-3.7 mg/100 g FW).



2. Kashi Krishna

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Roots are black (solid purple) in colour and Danvers (triangular) : Ready to harvest in 95-105 days after sowing : Excellent source of anthocyanins (275-300 mg/ 100 g FW), total phenolics (300-325 mg GAE/100 g FW) and total flavnoids (130-150 mg CE/100 g FW)
Yield	: 200-220 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Higher antioxidants ability (FRAP: 55-60 µmol TE/ g FW i.e. 22-fold higher than red/orange carrot) : Suitable for salad, juice, halwa, nutraceutical and food supplements





Crop: Radish

1. Kashi Aardra

Notification year	: 2021 (AICRP-VC)
Gazette Notification	: S.O. 1480 (E) dt. 01.04.2021
Salient features:	: Leaves dark-green and soft with entire leaf-margin : Roots are attractive white in colour, long and icicle in shape : Roots are ready to harvest in 40-45 days after sowing
Yield	: 450- 500 q/ha
Recommended states	: Assam and West Bengal
Special attributes	: Less tapered root and wide adaptability



2. Kashi Lohit

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Attractive red colour tapered roots. : Lyrate leaf with red petiole : Ready to harvest in 40-45 DAS : High in anthocyanins (39.9 µg/g FW) and phenolic content (30.3 mg/100g FW)
Yield	: 400- 450 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Delayed pithiness, good source of vitamin-C and higher antioxidant activity





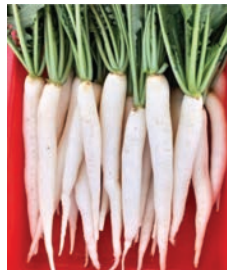
3. Kashi Mooli-40

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Roots are attractive white in colour, long (25-28 cm) and tapered in shape : Lyrate type of leaf morphology/shape : Roots are ready to harvest in 45-50 days after sowing
Yield	: 300- 350 q/ha (winter) & 200-230 q/ha (summer)
Recommended state	: Uttar Pradesh
Special attributes	: Delayed pithiness and late bolting habit makes it suitable for longer field stay after root development



4. Kashi Rituraj

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362 (E) dt. 12.03.2024
Salient features	: First CMS-based hybrid (F ₁) : Lust-green leaves along with sinuate leaf shape and attractive-white roots : Good quality long roots (17-20 cm) during off-seasons : Ready to root harvest in 33-40 days after sowing.
Yield	: 350-450 q/ha during off-season and 600-675 q/ha during winter season.
Recommended state	: Uttar Pradesh
Special attributes	: High temperature tolerance (40-43 °C) : Suitable for round the year cultivation, except rainy season (winter, spring, summer and autumn season)





5. Kashi Hans

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Ready for harvest after 40-45 days of sowing Soft and smooth leaves like spinach : Roots straight and tapering type, 30-35 cm long and 3.5-4.2 cm in diameter
Yield	: 430-450 q/ha
Recommended state	: Uttar Pradesh
Special attribute	: Tolerate to pithiness



6. Kashi Sweta

Notification year	: 2006 (SVRC-UP)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Early harvesting (30-35 days after sowing) : Roots 25-30cm long, 3.3-4.0 cm in diameter : Straight & tapering with pointed tip
Yield	: 450-470 q/ha
Recommended state	: Uttar Pradesh





Crop: Cauliflower

1. Kashi Gobhi-25

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Katki/ November maturity (first fortnight of November at nearly 25°C temperature) : Curds are ready to harvest in 60-70 days after transplanting : Curds are whitish in colour, compact and hemispherical : Marketable curd weight is 450-650 g
Yield	: 250-280 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Free from riceyness and leafiness



2. Kashi Agahani

Notification year	: 2008 (AICRP-VC)
Gazette Notification	: S.O. 2978(E) dt. 26.12.2008
Salient features	: Mid-late maturity group
Yield	: 250-280 q/ha
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh





3. Kashi Kunwari

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 24.04.2006
Salient features	: Early maturity group : Curds are semi-dome type, white compact, fine texture and weight about 300-450 g
Yield	: 300-350 q/ha
Recommended states	: Bihar, Jharkhand, Punjab and Uttar Pradesh
Special attributes	: Suitable time of sowing in end of June to July under Indian plain conditions





Crop: Okra

1. Kashi Parakram

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Shiny green fruits with 12-14 cm length
Yield	: 130-155 q/ha
Recommended states	: Delhi, Haryana, Gujarat and Rajasthan
Special attributes	: Resistant to both YVMV and ELCV diseases : Suitable sowing for both spring-summer and rainy seasons



2. Kashi Sahishnu

Notification year	: 2024 (AICRP-VC)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Dark green fruits & easy to harvest
Yield	: 140-145 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar and Jharkhand
Special attributes	: Resistant to both YVMV and ELCV diseases





3. Kashi Utkarsh

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Plant height (110-115 cm), short inter-nodal length (2-3 cm) and flowering starts at lower node (5-6). : Fruiting period: 48-120 days & number of harvesting: 35-37 : Fruits uniform dark green, self colour & length 14-15 cm and diameter 1.45-1.50 cm
Yield	: 165-170 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Resistant to both YVMV & OELCV diseases



4. Kashi Shristi (Hybrid)

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Medium tall and short internodes and narrow angled 2-3 branches : Dark green fruits, medium fruit length.
Yield	: 180-190 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Tolerant to YVMV : Suitable for both summer and kharif season





5. Kashi Chaman

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Plants are medium tall (120-125 cm) : Fruits dark green with fruit length of 11-14 cm
Yield	: 150-160 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Resistant to YVMV and OLECV under field conditions : Suitable for both summer and rainy season



6. Kashi Lalima

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Reddish purple fruits, medium tall and short internodes : Rich in anthocyanin and phenolics
Yield	: 140-150 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Tolerant to YVMV and OLCV. : Suitable for summer and Kharif seasons : Rich in anthocyanin





7. Kashi Vardaan

Notification year	: 2015 (AICRP-VC)
Gazette Notification	: S.O. 2277(E) dt. 17.08.2015
Salient features	: Fruiting period 48-105 days after seed sowing & short intermodal length : Bears about 19-20 fruits/plant & individual fruit weight 12-14g
Yield	: 150-160 q/ha
Recommended states	: Uttar Pradesh, Bihar, Jharkhand and Punjab
Special attributes	: Resistant to YVMV and OLCV



Kashi Vardaan

8. Kashi Kranti (Hybrid)

Notification year	: 2012 (AICRP-VC)
Gazette Notification	: S.O. 2363(E) dt. 04.10.2012
Salient features	: First harvest starts 45-46 days after seed sowing & dark green fruits : Individual plants bears about 17-18 fruits of 8-10 cm length
Yield	: 125-145 q/ha
Recommended states	: Uttar Pradesh, Bihar, Jharkhand and Punjab
Special attributes	: Resistant to YVMV and OLCV under field condition





9. Kashi Bhairav

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Fruit colour dark green, length 10-12 cm at marketable stage
Yield	: 160-180 q/ha
Recommended states	: The whole of India
Special attributes	: Resistant to YVMV and OLCV under field condition



10. Kashi Lila

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 2035(E) dt. 28.11.2006
Salient features	: Flowering starts 30-34 days after sowing & fruits green 13-15 cm long
Yield	: 150-170 q/ha
Recommended states	: Andhra Pradesh, Telangana, Chhattisgarh, Odisha, Goa, Madhya Pradesh and Maharashtra
Special attributes	: Resistant to YVMV under field condition





11. Kashi Pragati

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: First flower appears after 36-38 days after sowing : Bears 23-25 fruits/plant & 8-10 cm fruit length at marketable stage
Yield	: 180-190 q/ha (rainy), 130-140 q/ha (summer)
Recommended states	: Bihar, Jharkhand, Punjab, Uttar Pradesh, Andhra Pradesh, Telangana, Chhattisgarh and Odisha
Special attributes	: Resistant to YVMV and OLCV



12. Kashi Satdhari

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Seven ridges variety, flowering starts 42 days after sowing : Bears 18-25 fruits/plant of 13-15 cm length at marketable stage
Yield	: 110-140 q/ha
Recommended states	: The whole of India
Special attributes	: Resistant to YVMV





13. Kashi Vibhuti

Notification year	: 2006 (AICRP-VC)
Gazette Notification	: S.O. 597(E) dt. 25.04.2006
Salient features	: Dwarf growth habit 2-3 branches with short internodal length. : Flowering starts on 4 th to 5 th nodes after 38-40 days after sowing. : Bears 18-22 fruits/plant with 8-10 cm length at marketable stages
Yield	: 170-180 q/ha
Recommended states	: Delhi, Gujarat, Haryana and Rajasthan
Special attributes	: Resistant to YVMV and OLCV



14. Sheetla Jyoti (Hybrid)

Notification year	: 2001 (AICRP-VC)
Gazette Notification	: S.O. 1135(E) dt. 15.11.2001
Salient features	: Flowering starts 30-40 days after sowing : Fruit colour green & length 12-14 cm at marketable stage
Yield	: 160-180 q/ha
Recommended states	: Delhi, Gujarat, Haryana and Rajasthan
Special attributes	: Resistant to YVMV and OLCV under field condition





15. Sheetla Uphar (Hybrid)

Notification year	: 2001 (AICRP-VC)
Gazette Notification	: S.O. 1135(E) dt. 15.11.2001
Salient features	: Flowering starts 38-40 days after sowing, : Fruits colour green, length 11-13 cm at marketable stage
Yield	: 150-170 q/ha
Recommended states	: Punjab, Uttar Pradesh, Bihar, Jharkhand, Goa, Madhya Pradesh, Maharashtra
Special attributes	: Resistant to YVMV and OLCV under field condition





Leafy & other vegetables

Crop: Amaranth

1. Kashi Chaulai-1

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362(E) dt. 12.03.2024
Salient features	: Plant height- 40-45 cm; stem diameter-1.35 cm at the time of 1st cutting. : Upper leaf colour greenish purple and lower leaf colour light purple with purple veins. : First green harvest starts after 4-5 weeks of sowing
Yield	: 350-400 q/ha
Recommended state	: Uttar Pradesh



2. Kashi Suhaavani

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Plant height- 40-45 cm; stem diameter-1.35 cm at the time of 1 st cutting; green leaf and stem. : Soft and succulent leaves (8.22 cm long and 8.06 cm wide) & prominent leaf veins : First green harvest starts after 4-5 weeks of sowing
Yield	: 350-400 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: March sowing- 130-150 days : August sowing- 90-110 days



Basella (Poi)

1. Kashi Poi-1

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Green vines/stem with green succulent leaves : First picking starts 40 days after transplanting & continues up to 220-230 days at 20-30 days interval
Yield	: 500-510 q/ha
Recommended state	: Uttar Pradesh



2. Kashi Poi-2

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Fast growing variety with bush type, green stems and leaves : First picking starts 38-40 days after transplanting and continues up to 140-150 days at 20-30 days interval
Yield	: 635 q/ha
Recommended state	: Uttar Pradesh





3. Kashi Poi-3

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Fast growing plant having twinning growth habit : Red stem and mid ribs & high betalain content : First picking starts 40 days after transplanting & continues up to 240-250 days at 20-25 days interval
Yield	: 600-610 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for year round cultivation





Crop: Chenopod (Bathua)

1. Kashi Bathua-2

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Green coloured leaf, petiole and stem : Luxuriant plant growth with waxy pubescence on leaf : First picking starts 40 DAS and it continued up to 120 days at regular interval
Yield	: 350-375 q/ha
Recommended state	: Uttar Pradesh
Special attributes	: Excellent source of vitamin C, vitamin A, folic acid, minerals, phenolics along with higher antioxidant ability



2. Kashi Bathua-4

Notification year	: 2019 (SVRC-UP)
Gazette Notification	: S.O. 692 (E) dt. 05.02.2019
Salient features	: Purplish-green coloured leaf, petiole and stem : Luxuriant plant growth with waxy pubescence on leaf : First picking starts 40 DAS and it continued up to 120 days at regular interval
Yield	: 400-425 q/ha
Recommended state	: Uttar Pradesh





Crop: Spinach beet (Palak)

1. Kashi Baramasi

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362 (E) dt. 12.03.2024
Salient features	: Leaves are attractive, smooth, succulent, lust-green, luxuriant growth and delayed bolting : Dry matter is about 15-16% and good source of vitamin C i.e. 65-75 mg/100 FW : Higher yields are obtained under short-day and mild temperature
Yield	: 500-800 q/ha (August to Nov. sowing), 120-170 q/ha (Dec. to February sowing), 180-235 q/ha (March to July sowing)
Recommended state	: Uttar Pradesh
Special attributes	: Suitable for round the year cultivation : Delayed bolting habit : Tolerant to high temperature (40-45 °C) and humidity





Crop: Water spinach (*Karamua Sag*)

1. Kashi Manu

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362 (E) dt. 12.03.2024
Salient features	: Fast growing variety : First harvesting starts 20-25 days after seed sowing and year round cultivation
Yield	: 693-1000 q/ha (leaf biomass)
Recommended state	: Uttar Pradesh
Special attribute	: Suitable for inter-cropping, crop rotations and upland cultivation : Tolerant to high temperature in summer season and water-logging : Climate resilient variety : Nutritionally rich leafy vegetable : Low energy input crop





Crop: Winged bean

1. Kashi Annapurna

Notification year	: 2024 (SVRC-UP)
Gazette Notification	: S.O. 1362 (E) dt. 12.03.2024
Salient features	: First pod picking starts 60-65 days after seed sowing : Green pods remains edible up to 26 days after anthesis
Yield	: 350-400 q/ha (pod)
Recommended state	: Uttar Pradesh
Special attribute	: Suitable for growing even in marginal field conditions





Brief Package of Practices (PoP)



Tomato

Aspect	Details
Botanical Name	<i>Solanum lycopersicum</i>
Popular Varieties/ Hybrids	Kashi Chayan, Kashi Aman, Kashi Adarsh, Kashi Tapas (Hy), Kashi Abhimaan (Hy), Kashi Adbhut (Hy)
Climatic Requirements	Warm weather (20°C - 30°C); frost-sensitive
Soil Type	Well drained loam or sandy loamy soils rich in organic matter with a pH range of 6.5-7.5 is suitable for growing crop.
Sowing Time	Rabi: September; Kharif: June-July; Summer: January
Seed Rate	200-300g/ha (OP); 100-200g/ha (Hybrid)
Nursery & Transplanting	Nursery-raised seedlings (25-30 days); Spacing: 60 x 45 cm; Rabi: October; Kharif: July-August; Summer: February
Fertilizer Requirement	150 kg N, 80 kg P ₂ O ₅ , 100 kg K ₂ O per hectare; FYM: 20-25 tons/ha
Irrigation	Regular, especially during flowering/ fruiting; Drip irrigation recommended
Weed Control	Manual weeding (2-3 times); Mulching (organic/plastic)
Harvesting	90-120 days after Transplanting; Harvest at mature green to red stage
Yield	40-50 tons/ha under good management
Post-Harvest	Storage: 12-16°C; Transportation in ventilated crates
Major Diseases	Late blight, Early blight, Bacterial wilt, Leaf curl virus
Major Pests	Fruit borer, Whitefly, Aphids, Thrips, Leaf miner



Brinjal (Eggplant)

Aspect	Details
Botanical Name	<i>Solanum melongena</i>
Popular Varieties/ Hybrids	Kashi Vijay, Kashi Modak, Kashi Himani, Kashi Uttam, Kashi Manohar (Hy)
Climatic Requirements	Warm climate (25°C - 30°C); sensitive to frost
Soil Type	Well-drained sandy loam; pH 5.5-6.0
Sowing Time	Rabi: Oct-Nov; Kharif: May-June
Seed Rate	400-500g/ha (OP); 200-250g/ha (Hybrid)
Nursery & Transplanting	Transplant 25-30 days old seedlings; Spacing: 75 x 60 cm
Fertilizer Requirement	120 kg N, 80 kg P ₂ O ₅ , 80 kg K ₂ O per hectare; FYM: 20-25 tons/ha
Irrigation	Regular intervals; avoid water stress during flowering/fruiting
Weed Control	2-3 hand weeding; Mulching
Harvesting	120-150 days after Transplanting; harvest when fruits are tender
Yield	25-35 tons/ha
Post-Harvest	Store in 10-13°C with 85-90% RH; avoid bruising during transportation
Major Diseases	Bacterial wilt, <i>Phomopsis</i> blight, Little leaf, Damping-off
Major Pests	Shoot and fruit borer, Whitefly, Aphids, Jassids



Chilli

Aspect	Details
Botanical Name	<i>Capsicum annuum</i>
Popular Varieties/ Hybrids	Kashi Anmol, Kashi Garima, Kashi Abha; Kashi Ratna (Hy)
Climatic Requirements	Warm climate (20°C - 30°C); sensitive to frost
Soil Type	Well-drained sandy loam; pH 5.5-6.8
Sowing Time	Rabi: Oct-Nov; Kharif: June-July
Seed Rate	300-400g/ha(OP); 150-200g/ha (Hybrid)
Nursery & Transplanting	Transplant 30-35 days old seedlings; Spacing: 60 x 45 cm
Fertilizer Requirement	120 kg N, 80 kg P ₂ O ₅ , 80 kg K ₂ O per hectare; FYM: 20-25 tons/ha
Irrigation	Regular, especially during flowering and fruiting
Weed Control	Pendimethalin @ 1.25 kg/ha or oxyflourfen @ 0.2 kg/ha in combination with one hoeing or weeding at 45 days after transplanting
Harvesting	50-60 days after Transplanting
Yield	20-25 tons/ha (green chilli)
Post-Harvest	Drying and proper storage to avoid moisture damage for red chilli
Major Diseases	Anthracnose, Powdery mildew, Leaf curl virus, Fusarium wilt
Major Pests	Thrips, Aphids, Fruit borer, Mites



Cucumber

Aspect	Details
Botanical Name	<i>Cucumis sativus</i>
Popular Hybrid	Kashi Nutan
Climatic Requirements	Warm and humid climate (25°C - 30°C), grows best in sunny conditions
Soil Type	Well-drained sandy loam; pH 6.0 - 7.5
Sowing Time	Summer: Feb-Mar; Kharif: June-July
Seed Rate	2.5-3 kg/ha
Transplanting	Direct sowing; Spacing: 120 x 60 cm
Fertilizer Requirement	100 kg N, 50 kg P ₂ O ₅ , 50 kg K ₂ O per hectare; FYM: 15-20 tons/ha
Irrigation	Regular intervals, especially during flowering and fruiting
Weed Control	Manual weeding 2-3 times, mulching suppresses weeds
Harvesting	45-50 days after sowing; harvest when fruits are tender
Yield	20-25 tons/ha
Major Diseases	Powdery mildew, Downy mildew, Anthracnose, Angular leaf spot, CMV, Leaf curl
Major Pests	Fruit fly, Red pumpkin beetle, Aphids, Thrips, White Fly



Bitter gourd

Aspect	Details
Botanical Name	<i>Momordica charantia</i>
Popular Varieties/ Hybrids	Kashi Mayuri, Kashi Pratistha
Climatic Requirements	Warm and humid climate (25°C - 35°C)
Soil Type	Well-drained sandy loam; pH 6.0 - 7.0
Sowing Time	Summer: Feb-Mar; Kharif: June-July
Seed Rate	4-5 kg/ha
Transplanting	Direct sowing; Spacing: 150 x 60 cm
Fertilizer Requirement	100 kg N, 60 kg P ₂ O ₅ , 40 kg K ₂ O per hectare; FYM: 15-20 tons/ha
Irrigation	Regular intervals, especially during flowering and fruiting
Weed Control	Manual weeding 2-3 times
Harvesting	90-100 days after sowing; harvest when fruits are tender
Yield	25-30 tons/ha
Post-Harvest	Immediate marketing due to perishability
Major Diseases	Powdery mildew, Downy mildew, Cercospora leaf spot, Mosaic virus
Major Pests	Fruit fly, Aphids, Red pumpkin beetle, Thrips, White Fly



Bottle gourd

Aspect	Details
Botanical Name	<i>Lagenaria siceraria</i>
Popular Varieties/ Hybrids	Kashi Ganga, Kashi Shubhra, Kashi Kiran, Kashi Bahar (Hy)
Climatic Requirements	Warm and humid climate (25°C - 35°C)
Soil Type	Well-drained sandy loam; pH 6.0 - 7.5
Sowing Time	Summer: Feb-Mar; Kharif: June-July
Seed Rate	3.5-4.5 kg/ha
Transplanting	Direct sowing; Spacing: 200 x 75 cm
Fertilizer Requirement	100 kg N, 80 kg P ₂ O ₅ , 60 kg K ₂ O per hectare; FYM: 15-20 tons/ha
Irrigation	Regular intervals, especially during flowering and fruiting
Weed Control	Manual weeding 2-3 times
Harvesting	90-100 days after sowing; harvest when fruits are tender
Yield	40-60 tons/ha
Post-Harvest	Store in cool, ventilated conditions
Major Diseases	Powdery mildew, Downy mildew, Anthracnose, Mosaic virus, Cercospora leaf spot
Major Pests	Red pumpkin beetle, Fruit fly, Aphids, Leaf miner



Luffa (Sponge gourd/Ridge round)

Aspect	Details
Botanical Name	<i>Luffa acutangula</i> (Ridge gourd), <i>Luffa cylindrica</i> (Sponge gourd)
Popular Varieties/ Hybrids	RG-Kashi Shivani, Kashi Nanda, SG- Kashi Shreya, Kashi Vandana, Kashi Kalyani, Kashi Jyoti, Kashi Rakshita, Kashi Saumya
Climatic Requirements	Warm season crop, optimal temperature 25- 30°C
Soil Type	Well-drained sandy loam soil with good organic matter; pH 6.0 - 7.5
Sowing Time	Summer: Feb-Mar; Kharif: June-July
Seed Rate	3-4 kg/ha
Transplanting	Spacing of 150 x 50 cm, seeds sown 2-3 cm deep
Fertilizer Requirement	100 kg N, 60 kg P ₂ O ₅ , 60 kg K ₂ O per hectare; FYM: 15-20 tons/ha
Irrigation	Regular intervals, especially during flowering and fruiting
Weed Control	Manual weeding 2-3 times in early stages
Harvesting	90-120 days after sowing; harvest when fruits are tender
Yield	15-20 tons/ha
Post-Harvest	Sorting, grading, packaging; storage in cool, dry conditions
Major Diseases	Powdery mildew, Downy mildew, Mosaic virus, Anthracnose
Major Pests	Fruit fly, Red pumpkin beetle, Aphids, Leaf miner, Melon weevil



Pumpkin

Aspect	Details
Botanical Name	<i>Cucurbita moschata</i>
Popular Varieties/ Hybrids	Kashi Shishir, Kashi Basant, Kashi Harit
Climatic Requirements	Warm and humid climate (25°C - 30°C)
Soil Type	Well-drained sandy loam; pH 6.0 - 7.5
Sowing Time	Summer: Feb-Mar; Kharif: June-July
Seed Rate	3-4 kg/ha
Transplanting	Direct sowing; Spacing: 250-300 x 75 cm
Fertilizer Requirement	100 kg N, 60 kg P ₂ O ₅ , 60 kg K ₂ O per hectare; FYM: 15-20 tons/ha
Irrigation	Regular intervals, especially during flowering and fruiting
Weed Control	Manual weeding 2-3 times
Harvesting	55-60 days after sowing; harvest fruits according to marketing stage
Yield	30-40 tons/ha
Major Diseases	Powdery mildew, Downy mildew, Mosaic virus, Anthracnose
Major Pests	Fruit fly, Red pumpkin beetle, Aphids, Leaf miner, White fly



Watermelon

Aspect	Details
Botanical Name	<i>Citrullus lanatus</i>
Popular Varieties/ Hybrids	Kashi Mohini, Kashi Pitamber
Climatic Requirements	Temperature: 24°C to 30°C, Rainfall: Well-distributed during early growth; dry conditions during fruit maturation
Soil Type	Sandy loam to loamy soil with good drainage, pH: 6.0 to 7.5
Sowing Time	Summer (Jan-Feb); Kharif (July-Aug)
Seed Rate	3-4 kg/ha depend on varieties
Transplanting	25-30 days seedlings are ready for transplanting
Fertilizer Requirement	100-120 kg N, 50-60 kg P ₂ O ₅ , 60 kg K ₂ O per hectare; FYM: 20-25 tons/ha; Apply N in 2-3 split doses (basal and topdressing)
Irrigation	Requires regular irrigation during early stages; reduce during flowering and fruit development
Weed Control	Manual weeding during the early stages, Mulching suppress weeds and improve quality harvest
Harvesting	80-100 days after sowing; Harvest when the fruit produces a dull sound when tapped and the tendrils near the fruit dry
Yield	40-60 tons/ha
Post-Harvest	Store up to 15 days at room temperature
Major Diseases	Alternaria blight, downy mildew, Fusarium wilt, Bud necrosis virus
Major Pests	Thrips, White fly, Fruit fly



Pea

Aspect	Details
Botanical Name	<i>Pisum sativum</i>
Popular Varieties/ Hybrids	Kashi Nandani, Kashi Uday, Kashi Purvi
Climatic Requirements	Cool season crop, optimal temperature 10-18°C
Soil Type	Loamy, well-drained soil with pH 6.0-7.5
Sowing Time	Winter (October-November)
Seed Rate	70-100 kg/ha
Transplanting	Spacing of 30 x 10 cm, seeds sown 3-5 cm deep
Fertilizer Requirement	20 kg N, 60 kg P ₂ O ₅ , 40 kg K ₂ O per hectare; FYM: 15-20 tons/ha
Irrigation	Moderate irrigation, especially during flowering and pod filling
Weed Control	Pre-emergence herbicide application, hand weeding if necessary
Harvesting	90-110 days after sowing, harvest when pods are fully developed
Yield	2.5-3.5 tons/ha
Post-Harvest	Sorting, grading, packaging; cool storage for fresh peas
Major Diseases	Powdery mildew, Rust, Fusarium wilt, Downy mildew
Major Pests	Pod borer, Aphids, Thrips, Cutworms



Cowpea

Aspect	Details
Botanical Name	<i>Vigna unguiculata</i>
Popular Varieties/ Hybrids	Kashi Kanchan, Kashi Nidhi, Kashi Unnati, Kashi Gauri, Kashi Vishan
Climatic Requirements	Warm season crop, optimal temperature 25-35°C
Soil Type	Sandy loam to clay loam, well-drained
Sowing Time	Summer (March-April), Kharif (June-July)
Seed Rate	35-40 kg/ha (Bush type); 10-15 kg/ha (Pole type)
Transplanting	Spacing of 30 x 15 cm, seeds sown 3-4 cm deep
Fertilizer Requirement	20 kg N, 60 kg P ₂ O ₅ , 40 kg K ₂ O per hectare; FYM: 15-20 tons/ha
Irrigation	Light irrigation, avoid waterlogging
Weed Control	2-3 Manual weeding or pre-emergence herbicides
Harvesting	70-80 days after sowing, harvest when pods are fully mature
Yield	11-12 tons/ha (Bush type); 12-13 tons/ha (Pole type)
Post-Harvest	Sorting, grading, packaging; cool storage for fresh cowpeas
Major Diseases	Rust, Anthracnose, Mosaic virus, Angular leaf spot
Major Pests	Bean fly, Aphids, Thrips, Pod borer



Indian bean

Aspect	Details
Botanical Name	<i>Lablab purpureus</i>
Popular Varieties/ Hybrids	Kashi Haritima, Kashi Sheetal, Kashi Bouni Sem-3
Climatic Requirements	Tropical & Sub-tropical, Warm and humid for veg. growth, Fruiting required cool and dry climate, sensitive to frost
Soil Type	Loam, well-drained with pH 6.0-7.5
Sowing Time	October (Bush type); June-July (Pole type)
Seed Rate	25-30 kg/ha (Bush type); 10-12 kg/ha (Pole type)
Transplanting	Spacing of 60 x 30 cm (Bush type), 100 x 75 cm (Pole type) seeds sown 3-5 cm deep
Fertilizer Requirement	20-25 kg N, 40-50 kg P ₂ O ₅ , 30-40 kg K ₂ O per hectare; FYM: 12-15 tons/ha (Bush type); 10kg/pit (Pole/pandal type)
Irrigation	6-8 days interval during hot weather and 13-15 days in winter
Weed Control	2-3 Manual weeding; pendimethalin/ Propanil/Fluchloralin @2ml/lit after sowing
Harvesting	100-110 days after sowing (Bush type); 150-160 days (Pole type), harvest when pods are green
Yield	25-30 tons/ha
Post-Harvest	Sorting, grading, packaging; cool storage for fresh beans
Major Diseases	Anthracnose, Mosaic virus, Angular leaf spot
Major Pests	Bean fly, Aphids, Thrips, Pod borer



Okra

Aspect	Details
Botanical Name	<i>Abelmoschus esculentus</i>
Popular Varieties/ Hybrids	Kashi Pragati, Kashi Sathdhari, Kashi Chaman, Kashi Lalima
Climatic Requirements	Warm and humid climate (25°C - 35°C)
Soil Type	Well-drained sandy loam; pH 6.0 - 6.8
Sowing Time	Summer: Jan-Feb; Kharif: June-July
Seed Rate	12-15 kg/ha for spring summer and 8-10 for kharif crop.
Transplanting	Direct sowing; Spacing: 60 x 45 cm
Fertilizer Requirement	100 kg N, 60 kg P ₂ O ₅ , 50 kg K ₂ O per hectare; FYM: 20-25 tons/ha
Irrigation	Regular, especially during flowering and pod formation
Weed Control	Manual weeding 2-3 times
Harvesting	45-60 days after sowing; harvest tender pods
Yield	10-12 tons/ha (Early crop); 16-18 tons/ha (Main season)
Post-Harvest	Immediate marketing due to perishability
Major Diseases	Yellow vein mosaic virus, Powdery mildew, Fusarium wilt
Major Pests	Fruit and shoot borer, Whitefly, Aphids, Jassids



Cauliflower

Aspect	Details
Botanical Name	<i>Brassica oleracea</i> var. <i>botrytis</i>
Popular Varieties/ Hybrids	Kashi Gobhi-25
Climatic Requirements	Temperature around 20-30 °C for growth; however, 25+2 °C is required for initiation and development of curds.
Soil Type	Fertile, well-drained loamy soils; pH 6.0 - 7.0
Sowing Time	July-August
Seed Rate	400-450g/ha
Transplanting	August-September; Transplant 4-5 weeks old seedlings; Spacing: 45 x 45 cm
Fertilizer Requirement	120 kg N, 60 kg P ₂ O ₅ , 50 kg K ₂ O per hectare; FYM: 20-25 tons/ha
Irrigation	Regular, especially during head formation
Weed Control	Manual weeding 2-3 times, Earthing-up at 40-45 DAT.
Harvesting	60-70 days after Transplanting
Yield	20-25 tons/ha
Post-Harvest	Cool storage and careful handling
Major Diseases	Black rot, Damping-off, Alternaria leaf spot, Downy mildew
Major Pests	Cutworms, Diamondback moth, Aphids, Cabbage butterfly



Radish

Aspect	Details
Botanical Name	<i>Raphanus sativus</i>
Popular Varieties/ Hybrids	Kashi Aardra, Kashi Sweta, Kashi Hans, Kashi Mooli-40, Kashi Lohit, Kashi Rituraj
Climatic Requirements	Cool climate (15°C - 30°C)
Soil Type	Loose, sandy loam soil; pH 5.5 - 6.8
Sowing Time	Rabi: Sept-Nov; Summer: Feb-May
Seed Rate	5-7 kg/ha
Transplanting	Direct sowing; Spacing: 30-40 x 4-5 cm
Fertilizer Requirement	60 kg N, 40 kg P ₂ O ₅ , 40 kg K ₂ O per hectare; FYM: 10-15 tons/ha
Irrigation	Regular, especially during root development
Weed Control	One hand weeding and hoeing; Earthing-up around 25-30 DAS.
Harvesting	40-70 days after sowing; harvest when roots reach edible size
Yield	40-50 t/ha (Main season); 20-25 t/ha (Off-season)
Post-Harvest	Immediate marketing or short-term cool storage
Major Diseases	Alternaria leaf blight
Major Pests	Aphids, Flea beetle



Carrot

Aspect	Details
Botanical Name	<i>Daucus carota</i>
Popular Varieties/ Hybrids	Kashi Arun, Kashi Krishna
Climatic Requirements	Cool climate (15°C - 25°C); frost-sensitive
Soil Type	Deep, loose, well-drained sandy loam; pH 6.0 - 7.0
Sowing Time	Rabi: Sept-Oct
Seed Rate	5-6 kg/ha
Transplanting	Direct sowing; Spacing: 40 x 4-5 cm
Fertilizer Requirement	100 kg N, 60 kg P ₂ O ₅ , 50 kg K ₂ O per hectare; FYM: 20-25 tons/ha
Irrigation	Regular, especially during root development
Weed Control	2-3 manual weeding; 1-2 hoeing followed by earthing up
Harvesting	90-110 days after sowing; harvest fully grown roots
Yield	25-30 tons/ha
Post-Harvest	Store in cool, ventilated conditions
Major Diseases	Alternaria leaf blight, Scab
Major Pests	Carrot rust fly



Palak (Spinach)

Aspect	Details
Botanical Name	Spinach beet or Palak or Beet leaf [<i>Beta vulgaris</i> L. subsp. <i>vulgaris</i> (Cicla Group)]
Popular Varieties/ Hybrids	Kashi Baramasi
Climatic Requirements	Cool and temperate climate (15°C - 20°C)
Soil Type	Well-drained loamy soils; pH 6.0 - 7.0, salt tolerant vegetable
Sowing Time	Rabi: Oct-Nov; Summer: Feb-March
Seed Rate	12-15 kg/ha
Transplanting	Direct sowing; Spacing: 40 x 3-4 cm
Fertilizer Requirement	40 kg N, 40 kg P ₂ O ₅ , 30 kg K ₂ O per hectare; FYM: 30-35 tons/ha
Irrigation	Regular, especially during vegetative growth
Weed Control	Manual weeding 2-3 times
Harvesting	25-30 days after sowing; harvest tender leaves
Yield	Rabi:50-70 tons/ha; Off season: 20-40 tons/ha
Post-Harvest	Immediate marketing due to perishability
Major Diseases	Damping-off, Cercospora leaf spot
Major Pests	Leaf miner, Aphids, Cutworms



Genetic Stocks/Unique Germplasm Developed by ICAR-IIVR, Varanasi

Sr. No.	Crop	Donor identity	INGR No.	Year	Unique traits
1.	Bitter Gourd	GY-63	INGR03037	2003	Gynoecious line with high yield and attractive fruits
2.	Pointed Gourd	IIVRPG-105	INGR03035	2003	Seedless fruit, obligate parthenocarpic with long duration fruiting
3.	Okra	No315	INGR05026	2005	New plant type (Dwarf, bushy with short internodal length)
4.	Pumpkin	SA 90	INGR05027	2005	High carotenoid content
5.	Tomato	F-6050	INGR06036	2006	High carotene, Jointless
6.	Tomato	F-7028-1	INGR06037	2006	High lycopene (7.86mg/100g) and carotenoides
7.	Chilli	BS 35	INGR07039	2007	Resistant to leaf curl virus disease
8.	Snap-melon	B-159	INGR07044	2007	Downy mildew resistance
9.	Okra	-	INGR09125	2009	Thin (0.9 cm) and long fruited (26 cm)
10.	Tomato	NBPGR Tomato-1	INGR09065	2009	High total soluble solids (TSS: 6.0 °Brix)
11.	Carrot	CMS A-line & B-line	INGR10110	2010	Petaloid type stable male sterile line of Asiatic carrot, suitable for development of hybrid
12.	Sponge Gourd	VRSG-52-1	INGR10159	2010	Cluster bearing habit of fruiting



13.	Pea	VRP-500	INGR15009	2015	For triple podded at every node.
14.	Pea	VRP-147	INGR15028	2015	Resistant to downy mildew and rust
15.	Pea	VRP-343	INGR15029	2015	Resistant to powdery mildew
16.	Pea	VRPM-901-5	INGR19077	2019	Capable to produce 3-5 pods/peduncle at multiple flowering nodes (Multi-podded genotype).
17.	Radish	VRRAD-201 & VR-RAD-202	INGR20032	2020	Cytoplasmic Male Sterile (CMS) line. First CMS line of radish from Public sector in India developed at ICAR-IIVR, Varanasi, UP.
18.	Collard green	Kashi Kale-1	INGR20035	2020	A tropical type flowers and sets seeds during spring season at Varanasi, Uttar Pradesh
19.	Pea	VRPSel-17	INGR21139	2021	A versatile vegetable pea genotypes bearing single flower per peduncle on all the floral nodes
20.	Tomato	VRT12-1-3-2	INGR21149	2021	Shown broad spectrum resistance to ToLCV, carries Ty3 gene, bears uniform ripening fruits and has greater combining ability.
21.	Tomato	VRT2-2-3-1	INGR21150	2021	Shown broad spectrum resistance to ToLCV, carries Ty3 gene, bears fruits with green shoulder and has greater combining ability.



22.	Tomato	VRT6-1-4	INGR21151	2021	A Ty2 and Ty3 pyramided line, offers broad spectrum resistance to ToLCV, bears uniform ripening fruits.
23.	Tomato	VRT4-55-20	INGR21216	2021	Broad spectrum resistance to Tomato leaf curl virus (ToLCV). Ty-2 and Ty-3 gene pyramided line.
24.	Radish	VRRAD-12 & VR-RAD-204	INGR21220	2021	Cytoplasmic Male Sterile (CMS) line having lyrate leaf shape and blunt root (almost cylindrical root shape).
25.	Tomato	H-88-78-1	INGR22049	2022	Root Knot Nematode resistance. Alternaria solani resistance. ToLCV resistance and Heat tolerance.
26.	Spinach Beet	VRPLK-2	INGR22086	2022	Delayed bolting habit by 16-33 days favours 1-2 more number of cutting(s) during year round sowing
27.	Pea	VRPE-29	INGR22087	2022	Extra Early Genotype of Vegetable Pea (<i>Pisum sativum</i> var. <i>hortense</i>). synchronous maturity, thus suitable for single picking or Mechanical harvesting and Multiple cropping.
28.	Carrot	VRCAR-252 & Kashi Krishna	INGR22088	2022	VRCAR-252 is a petalod-CMS line of black carrot with better heterotic potential for root yield and uniformity.



29.	Carrot	VRCAR-214 & Kashi Arun	INGR22160	2022	VRCAR-214 is a petaloid-CMS line of red carrot with better heterotic potential for root yield, uniformity & lycopene content; valuable for development of potential F1 hybrids; and cost-effective multiplication of hybrid seeds.
30.	Sponge Gourd	VRSG-7-17	INGR23052	2023	Characteristic aroma which resembles with the typical aroma of 'Basmati rice' in its various plant parts.



IGNR22087: Extra early peas



INGR03035: Seedless pointed gourd



IGNR07044 : Downey mildew resistant snapmelon



INGR10159: Cluster-bearing sponge gourd



IGNR22086: Heat tolerant, baramasi palak



INGR05027: High-carotenoid pumpkin



INGR21220: CMS & Maintainer line of radish



H-88-78-1 (INGR 22049): Multiple resistance (RKN, early blight, ToLCV & high temp.)



INGR20035: Tropical kale



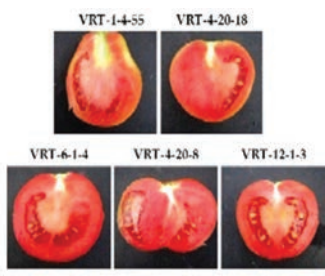
VRT-12-1-3-2 (INGR21149): ToLCV resistant



VRT-2-2-3-1 (INGR21150): ToLCV resistant



VRT-4-55-20 (INGR21216): ToLCV resistant



VRT-6-1-4 (INGR21151): ToLCV resistant



List of Varieties/hybrids of ICAR-IIVR, Varanasi in seed chain in last ten years (2014-2023)

Crop	Variety/Hybrid
Amaranth	Kashi Suhawani
Ash gourd	Kashi Dhawal
	Kashi Surbhi
Bathua	Kashi Bathua - 2
	Kashi Bathua - 4
Bitter gourd	Kashi Mayuri
Bottle gourd	Kashi Ganga
	Kashi Kirti
	Kashi Kundal
	Kashi Kiran
	Kashi Bahar (F1)
Brinjal	Kashi Uttam
	Kashi Taru
	Kashi Sandesh (F1)
	Kashi Komal
	Kashi Prakash
Carrot	Kashi Arun
	Kashi Krishna
Cauliflower	Kashi Gobhi -25
Chilli	Kashi Anmol
	Kashi Abha
	Kashi Gaurav
	Kashi Ratna (F1)
	Kashi Tej (F1)
	Kashi Surkh (F1)



Cowpea	Kashi Nidhi
	Kashi Kanchan
	Kashi Gauri
	Kashi Shyamal
	Kashi Vishan
	Kashi Unnati
Cucumber	Kashi Nutan (F1)
Indian Bean (Sem)	Kashi Haritama
	Kashi Khushal
	Kashi Sheetal
	Kashi Bouni Sem - 3
	Kashi Bouni Sem - 9
	Kashi Bouni Sem- 207
	Kashi Bouni Sem - 14
	Kashi Bouni Sem - 18
French bean	Kashi Rajhans
	Kashi Sampann
	Kashi Param
Musk Melon	Kashi Madhu
Okra	Kashi Chaman
	Kashi Kranti
	Kashi Pragati
	Kashi Lalima
	Kashi Vibhuti
Palak	Kashi Baramasi
Pea	Kashi Nandani
	Kashi Udai
	Kashi Ageti
	Kashi Mukti
	Kashi Samridhi
	Kashi Shakti
	Kashi Samrath



Pointed gourd	Kashi Alankar
	Kashi Sufal
	Kashi Amulya
Pumpkin	Kashi Harit
Radish	Kashi Hans
	Kashi Mooli-40
	Kashi Lohit
	Kashi Shweta
	Kashi Adra
Ridge gourd	Kashi Shivani
	Kashi Nanda
Satputia	Kashi Khushi
Sponge gourd	Kashi Shreya
	Kashi Jyoti
	Kashi Rakshita (F1)
	Kashi Soumya (F1)
	Kashi Divya
	Kashi Kalyani
Summer squash	Kashi Shubhangi
Tomato	Kashi Chayan
	Kashi Aman
	Kashi Adarsh
	Kashi Vishesh
	Kashi Amrit
	Kashi Anupam
	Kashi Abhimaan (F1)



In addition, following nine vegetable genotypes in different crops were identified at institute level but could not be Gazette notified by the CVRC:

1. Kashi Abhay (Tomato hybrid)
2. Kashi Early (Chilli hybrid)
3. Kashi Komal (Brinjal hybrid)
4. Kashi Kanak (Pea variety)
5. Kashi Aarti (Pea variety)
6. Kashi Mangali (Okra variety)
7. Kashi Mahima (Okra hybrid)
8. Kashi/ Sheetla Mohini (Okra variety)
9. Kashi Sudha (Cowpea variety)

Note: Kashi Vishwanath (Chilli Variety) was later renamed as Kashi Surkh

