JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH

F. Vegetable crops

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	22.2 Gujarat Junagadh Indian Bean 2 (GJIB 2)		

15. Tomato

15.1 Junagadh Tomato 3 (JT 3)

10.1	unagaun Tomato 5 (01 5)	
1	Name of crop	Tomato
2	Botanical name	Lycopercicum esculentum L.
3	Name of variety	Junagadh Tomato 3 (JT 3)
4	Parentage with details of its	The genotype was selection from the local collection
	pedigree	made from surrounding area of Kuwadava village of
		Rajkot district.
5	Breeding method	Pure line selection.
6	Year of release	2007-08
7	Gazette notification	Awaited
8	Acknowledge particulars about	JT 3 (JTL 02-7) IC: 565031
	the submission of germplasm	
	samples with NBPGR	
9	Potential yield (q/ha)	415.5

4.0		2016
10	Average yield (q/ha)	384.6
11	Recommended regions/areas of	The tomato variety is suitable for cultivation under
	adoption	open field condition in late <i>kharif</i> and <i>rabi</i> season
10		for Saurashtra region.
12	Characteristics/Distinguishing morp	
•	Plant height (cm)	69.5
•	Plant spread (cm)	36.9
•	Days to flower	47
•	Days to first picking	80
•	Number of branches	5.64
•	Number of locules	4.29
•	Fruit length (cm)	7.45
•	Fruit girth (cm)	16.08
•	Fruit weight (g)	54.9
•	No. of fruit/plant	31.52
•	Fruit yield/plant (kg)	1.731
•	Fruit colour	Red
•	Fruit shape	Flat round
•	Plant habit	Determinate
13	Agronomical Practices	Time of T. P.: August-September
		• Spacing: 75 x 60 cm.
		• Seed rate: 300 to 350 g/ha.
		• Fertilizer: N:P:K 75 : 37.5 : 62.5 kg/ha.
14	Specific attributes/Describe at	The plant is bushy type and heavy fruit bearer, the
	least two identifiable	plant fruit has thick skin, 4-5 locules high T. S. S.
	characteristics of the variety	content. The fruit is medium in size, flat round in
		shape with attractive red colour.
15	Quality / Nutritional / Other	• T. S. S. (%): 7.33
	features	• Total soluble sugar (%): 1.85
		• Ascorbic Acid (mg/100g) : 25.87
		• Carotenoids (mg/100g) : 12.40
		• Lycopine (mg/100g) : 4.93
		• Acidity (%): 1.70
		• Dry matter (%): 7.50
		• Peel colour (od/g): 1.39
16	Diseases and pests resistance	The leaf curl virus, leaf blight, and tomato spotted
	(give details of any resistance to	wilt virus are less in the variety. The fruit borer
	pest or diseases including races)	damage is less.
17	Days to last picking/ Maturity	155/ Medium maturity group.
	group	
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







1	Name of crop	Tomato
2	Botanical name	Lycopercicum esculentum L.
3	Name of variety	Gujarat Tomato 6 (GT 6)
4	Parentage with details of its	Junagadh Ruby x JT 3
	pedigree	(R-05-6-B-8-6-B-B)
5	Breeding method	Hybridization followed by pedigree method of
	6	selection
6	Year of release	2017-18
7	Gazette notification	Awaited
8	Acknowledge particulars about	GT 6 (JTL-12-07) IC : 625670
	the submission of germplasm	
	samples with NBPGR	
9	Potential yield (q/ha)	356.70
10	Average yield (q/ha)	316.05
11	Recommended regions/areas of	Tomato growing area of Gujarat state during late
	adoption	kharif-rabi season
12	Characteristics/Distinguishing morp	
•	Plant height (cm)	64.42
•	Plant spread (cm)	47.59
•	Days to first picking	99
•	Days to last picking	143
•	No. of pickings	10
•	Number of branches	3.20
•	Number of locules	4.08 (3-4)
•	Fruit length (cm)	4.42
•	Fruit girth (cm)	16.15
•	Fruit weight (g)	61.76
•	No. of fruit/plant	52
•	Fruit colour	Red
•	Fruit shape	Flat round
•	Plant habit	Determinate
13	Agronomical Practices	• Time of T. P. : July/August: for late <i>kharif</i>
		Sep./October: for Rabi
		• Spacing: 75 x 60 cm.
		• Seed rate: 300 to 350 g/ha.
		• Fertilizer: N:P:K 75 : 37.5 : 62.5 kg/ha.
14	Specific attributes/ Describe at	• Fruits are medium in size, flat round in shape
	least two identifiable	with groove and attractive red colour.
	characteristics of the variety	• Leaves are slightly broad and slightly green in
		colour.
		Branches are profuse in nature.
		Flowers are pale yellow in colour.
15	Quality / Nutritional / Other	• T. S. S. (%): 6.50
	features	• Total soluble sugar (%): 4.06
		• Ascorbic Acid (mg/100g) : 21.59
		• Lycopine (mg/100g) : 4.73
		• Acidity (%): 0.27
		• Protein: 0.39
16	Diseases and pests resistance	The reaction against leaf curl was found less and the
	(give details of any resistance to	damage due to fruit borer and leaf miner was found
	pest or diseases including races)	superior to check varieties.

17	Days to last picking/Maturity	143 (140-154)/Early maturity group.
	group	
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







16. Brinjal 16.1 Junagadh Brinjal Green Round 1 (JBGR 1)

1	Name of crop	Brinjal
2	Botanical name	Solanum melongena L.
3	Name of variety	Junagadh Brinjal Green Round 1 (JBGR 1)
4	Parentage with details of its	The genotype was collection from Ajab village of
	pedigree	Junagadh district and was maintained in germplasm
		as line No. 16 in the year 1999.
5	Breeding method	Pure line selection.
6	Year of release	2005-06
7	Gazette notification	S. O. 2978 (E) & Date: 26.12.2008
8	Acknowledge particulars about	JBGR 1 (JBGR-99-5) IC: 565030
	the submission of germplasm	
	samples with NBPGR	400.71
9	Potential yield (q/ha)	480.71
10	Average yield (q/ha)	401.07
11	Recommended regions/areas of	The brinjal variety is suitable for cultivation during late <i>kharif</i> and <i>rabi</i> season for Saurashtra and
	adoption	Middle Gujarat.
12	Characteristics/Distinguishing mor	J
12	Plant height (cm)	63.0
•	Plant spread (cm)	54.98
•	Days to first picking after T.P.	66
•	Number of branches/plant	4.27
•	Fruit length (cm)	14.26
•	Fruit girth (cm)	26.67
•	Fruit weight (g)	193.0
•	No. of fruit/plant	18.06
•	Fruit yield/plant (kg)	3.383
•	Fruit colour	Green
•	Fruit shape	Round
•	Fruit size	Medium to long
•	Plant habit	Semi spreading
13	Agronomical Practices	Time of T. P.: August-September
		• Spacing: 90 x 60 cm.
		• Seed rate: 350 g/ha.
		• Fertilizer: N:P:K 100 : 37.5 : 37.5 kg/ha.
14	Specific attributes/Describe at	Fruit are medium to big in size with round shape,
	least two identifiable	attractive green colour and good shining. Calyx and
	characteristics of the variety	pedicle are green and medium in size. Moderate

		grooves are present on fruits.
15	Quality / Nutritional / Other features	 T. S. S. (%): 5.88 Total soluble sugar (%): 3.82 Acidity (%): 1.64 Protein (%): 1.54 Glycoalkaloid (od/g.): 0.28 Peel colour (od/g.): 2.22 Poly phenol oxidase (od/min/g.): 1.83 Total phenol (mg/100g.): 50.70
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	The variety showed lower incidence of little leaf, jassids, whitefly, fruit borer.
17	Days to last picking/Maturity group	169/ Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural University, Junagadh-362 001 (Gujarat)





16.2 Gujarat Junagadh Brinjal 2 (GJB 2)

10.2	zujarat Junagaun Drinjai 4 (GJD 4	<u>'</u>
1	Name of crop	Brinjal
2	Botanical name	Solanum melongena L.
3	Name of variety	Gujarat Junagadh Brinjal 2 (GJB 2)
4	Parentage with details of its	JNDB-67 x Line No. JNDB-N-6
	pedigree	
5	Breeding method	Hybridization followed by pedigree method of
		selection.
6	Year of release	2009-10
7	Gazette notification	S. O. 2277 (E) & Date: 17.08.2015
8	Acknowledge particulars about	GJB 2 (JBR 02-11) IC: 573507
	the submission of germplasm	
	samples with NBPGR	
9	Potential yield (q/ha)	423.13
10	Average yield (q/ha)	342.94
11	Recommended regions/areas of	The brinjal variety is suitable for cultivation during
	adoption	late <i>kharif</i> for Gujarat state.
12	Characteristics/Distinguishing mor	phological in brief:
•	Plant height (cm)	53.96
•	Plant spread (cm)	60.58
•	Days to first picking after T.P.	60.6
•	Number of branches/plant	4.11
•	Fruit length (cm)	11.88
•	Fruit girth (cm)	14.91
•	Fruit weight (g)	68.4
•	No. of fruit/plant	26.17
•	Fruit yield/plant (kg)	1.790

•	Fruit colour	Pink purple
•	Fruit shape	Medium long
•	Fruit size	Medium
•	Plant habit	Semi spreading
13	Agronomical Practices	 Time of T. P.: August for late <i>kharif</i> and October for <i>rabi</i> season. Spacing: 90 x 60 cm Seed rate: 300 to 350 g/ha. Fertilizer: N:P:K 100: 37.5: 37.5 kg/ha.
14	Specific attributes/Describe at least two identifiable characteristics of the variety	Fruit are medium long in shape and size with pink purple colour and good shining. Calyx and pedicle are green and medium in size. White dots are present on fruit tip surface and fruit pulp is white with less seeds.
15	Quality / Nutritional / Other features	 T. S. S. (%): 7.00 Total soluble sugar (%): 3.95 Acidity (%): 1.85 Protein (%): 1.67 Glycoalkaloid (od/g.): 0.36 Peel colour (od/g.): 2.43 Poly phenol oxidase (od/min/g.): 1.42 Total phenol (mg/100g.): 50.51
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	The variety has good tolerance against little leaf diseases and fruit borer, jassids, whitefly damage is also less.
17	Days to last picking/Maturity group	146/ Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural University, Junagadh-362 001 (Gujarat)







16.3 Guiarat Junagadh Brinial 3 (GJB 3)

10.5	10.5 Gujarat Junagaun Dinijar 5 (GJD 5)	
1	Name of crop	Brinjal
2	Botanical name	Solanum melongena L.
3	Name of variety	Gujarat Junagadh Brinjal 3 (GJB 3)
4	Parentage with details of its	JNDB-37 x JNDB-92
	pedigree	(1999-97-69-25-23-20-19)
5	Breeding method	Hybridization followed by pedigree method of
		selection.
6	Year of release	2011-12
7	Gazette notification	S.O. No. 261 (E), Dt. 16/01/2018
		S.O. No. 4868 (E), Dt. 14/09/2018
8	Acknowledge particulars about	GJB 3 (JBGR 06-7) IC: 589770
	the submission of germplasm	
	samples with NBPGR	
9	Potential yield (q/ha)	421.70

10	Average yield (q/ha)	393.88
11	Recommended regions/areas of	The brinjal variety is suitable for cultivation during
11	adoption	late <i>kharif</i> season for Gujarat state.
12	Characteristics/Distinguishing mor	
•	Plant height (cm)	45.55
•	Plant spread (cm)	61.51
•	Days to first picking after T.P.	75.80
•	Number of branches/plant	3.64
•	Fruit length (cm)	13.43
•	Fruit girth (cm)	22.02
	Fruit weight (g)	124.8
•		16.04
•	No. of fruit/plant	
•	Fruit yield/plant (kg)	1.903
•	Fruit colour	Green
•	Fruit shape	Oval
•	Fruit size	Medium
•	Fruit cross section	Few groove
•	Fruit position	Pendant
•	Plant growth habit	Semi spreading
13	Agronomical Practices	• Time of T. P.: 15 th August to 15 th September for
		late <i>kharif</i> season.
		• Spacing: 90 x 60 cm.
		• Seed rate: 300 to 350 g/ha.
		• Fertilizer: N:P:K 100 : 37.5 : 37.5 kg/ha.
14	Specific attributes/Describe at	Fruit are medium to big in size with oval shape.
	least two identifiable	Fruit are green in colour and good shining. Fruit
	characteristics of the variety	pulp is creamy white with less seeds and fruit surface is smooth.
15	Quality / Nutritional / Other	
13	Quality / Nutritional / Other features	• T. S. S. (%): 9.00
	reatures	• Total soluble sugar (%): 3.07
		• Acidity (%): 1.41
		• Protein (%): 1.48
		• Glycoalkaloid (od/g.): 0.4
		• Peel colour (od/g.): 1.48
		• Poly phenol oxidase (od/min/g.): 1.36
16	Dispesses and mosts resistance	• Total phenol (mg/100g.): 42.84
16	Diseases and pests resistance	The variety is good tolerance against little leaf
	(give details of any resistance to pest or diseases including races)	diseases and fruit borer, jassids, whitefly damage is also less.
	pest of diseases including faces)	a150 1055.
17	Days to last picking/Maturity	160/ Medium maturity group.
1,	group	200, Modelin materity Broup.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
_	<u> </u>	University, Junagadh-362 001 (Gujarat)







16.4 Gujarat Junagadh Long Brinjal 4 (GJLB 4)

	Gujarat Junagadh Long Brinjal 4 (
1	Name of crop	Brinjal
2	Botanical name	Solanum melongena L.
3	Name of variety	Gujarat Junagadh Long Brinjal 4 (GJLB 4)
4	Parentage with details of its	GBL-1 x Junagadh Oblong
	pedigree	
5	Breeding method	Hybridization followed by pedigree method of
		selection.
6	Year of release	2014-15
7	Gazette notification	S. O. 3666 (E) & Date: 06.12.2016
8	Acknowledge particulars about	GJLB 4 (JBL-08-8) IC: 612167
	the submission of germplasm	
0	samples with NBPGR	448.42
9	Potential yield (q/ha)	396.03
11	Average yield (q/ha)	The brinjal variety is suitable for cultivation during
11	Recommended regions/areas of adoption	late kharif season for Zone VI (Arid western plains
	adoption	of Rajasthan, Gujarat, Haryana and Delhi).
12	Characteristics/Distinguishing mor	
12	Plant height (cm)	62.22
•	Plant spread (cm)	73.15
	Days to first picking after T.P.	67
	Number of branches/plant	3.31
	Fruit length (cm)	13.81
	Fruit girth (cm)	16.75
•		102.10
•	Fruit weight (g)	21
•	No. of fruit/plant	2.140
•	Fruit yield/plant (kg) Fruit colour	
•		Light purple
•	Fruit shape of apex	Round
•	Fruit shape of general	Long
•	Fruit size	Small
•	Fruit glossiness at harvest	Strong
	maturity	Alama
•	Fruit stripes and patches	Absent
12	Plant growth habit	Semi spreading
13	Agronomical Practices	• Time of T. P.: 1 st to 15 th October
		• Spacing: 90 x 60 cm or 90 x 45 cm.
		• Seed rate: 400 to 500 g/ha.
1.4		• Fertilizer: N:P:K 100 : 37.5 : 37.5 kg/ha.
14	Specific attributes/Describe at	Fruit are medium in size with long shape. Fruit are
	least two identifiable	light purple in colour with good shining. Fruit pulp
15	characteristics of the variety Quality / Nutritional / Other	is white with less seeds and fruit surface is smooth.
13	features	• T. S. S. (%): 8.50
	Toutures	• Total soluble sugar (%): 3.36
		• Acidity (%): 1.19
		• Protein (%): 1.51
		• Glycoalkaloid (od/g.): 0.34
		• Peel colour (od/g.): 3.35
		• Poly phenol oxidase (od/min/g.): 1.30
		• Total phenol (mg/100g.) : 38.85

16	Diseases and pests resistance	The reaction as against little leaf diseases and fruit
	(give details of any resistance to	borer, jassids, whitefly damage is also less.
	pest or diseases including races)	
17	Days to last picking/Maturity	159/ Medium maturity group.
	group	
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







16.5 Gujarat Junagadh Brinjal Hybrid 4 (GJBH 4)

10.5	Gujarat Junagaun Drinjar Hybr			
1	Name of crop	Brinjal		
2	Botanical name	Solanum melongena	L.	
3	Name of variety	Gujarat Junagadh Bı	rinjal Hybrid 4 (GJI	3H 4)
4	Parentage with details of its	Line No. JBR-2-11	x Line No. JBR-03-	16
	pedigree			
5	Breeding method	Heterosis breeding		
6	Year of release	2014-15		
7	Gazette notification	S. O. 3666 (E) & Da		
8	Acknowledge particulars about	Accession		IC No.
	the submission of germplasm	1) GJBH 4 (JBI		612170
	samples with NBPGR	2) JBR-2-11 (F	, , , , , , , , , , , , , , , , , , ,	612171
		3) JBR-3-16 (m	nalel)	612172
9	Potential yield (q/ha)	547.88		
10	Average yield (q/ha)	428.01		
11	Recommended regions/areas of	The brinjal hybrid is		_
10	adoption	kharif season for Saurashtra and Middle Gujarat.		
12	Characteristics/Distinguishing m	<u> </u>		IDD 02.16
	Description of hybrid parents	(GJBH 4)	JBR-2-11	JBR-03-16
	DI (1:1()	JBH-07-1	47.10	62.20
•	Plant height (cm)	54.74	47.19	62.39
	Plant spread (cm)	69.28	54.94	53.38
•	J 1 C	64	61	51
•		153	146	145
•	Number of branches/plant	3.53	3.87	3.14
•		14.09	11.25	12.30
•	Fruit girth (cm)	16.24	14.28	17.38
•	Fruit weight (g)	79.30	63.00	85.20
•	No. of fruit/plant	28	26	24
•	Fruit yield/plant (kg)	2.23	1.79	2.04
•	Leaf length (cm)	12.5	19.5	15.0
•	Leaf width (cm)	9.0	7.0	8.0
•	Flower colour	Light purple	Light purple	Dark purple
•	Leaf margin	Pointed	Sinuate	Pointed
•	Leaf colour of vein	Light purple	Purple	Dark purple
•	Fruit colour	Deep yellow	Purple yellow	Yellow
•	Fruit colour of flesh	Greenish	Whitish	Greenish
_				

•	Fruit shape of apex	Flattented	Flattented	Flattented
•	Fruit shape of general	Oblong	Oblong	Oblong
•	Fruit size	Medium	Medium	Medium
•	Fruit glossiness at harvest maturity	Strong	Strong	Medium
•	Fruit stripes and patches	Absent	Absent	Absent
•	Plant growth habit	Erect	Semi-spreading	Erect
13	Agronomical Practices	 Time of T. P.: 1st Spacing: 90 x 60 Seed rate: 400 to Fertilizer: N:P:K 	cm or 90 x 45 cm. 500 g/ha.	r∕ha.
14	Specific attributes/Describe at least two identifiable characteristics of the variety	Fruit are medium in pink purple in color white with less seed.	ur with good shinir	ng. Fruit pulp is
15	Quality / Nutritional / Other features	Total phenol (mg	gar (%): 3.33 7 8 d/g.): 0.35 g.): 2.71 lase (od/min/g.): 1.3 g/100g.): 38.18	
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	The reaction as ag borer, jassids, white	ainst little leaf dis	
17	Days to last picking/Maturity group	153/ Medium matur	ity group.	
18	Originating source/ Institute	Vegetable Research University, Junagad	_	_







16.6 Gujarat Round Brinjal 5 (GRB 5)

	10.0 Gujarat Koung Dinijar 5 (GKD 5)		
Γ	1	Name of crop	Brinjal
	2	Botanical name	Solanum melongena L.
	3	Name of variety	Gujarat Round Brinjal 5 (GRB 5)
	4	Parentage with details of its	JBR-03-16 x JBGR-06-07
		pedigree	(R-06-7-B-3-2-B-B)
	5	Breeding method	Hybridization followed by pedigree method of
			selection.
	6	Year of release	2017-18
	7	Gazette notification	Awaited
	8	Acknowledge particulars about	GRB 5 (JB-12-06) IC: 625671
		the submission of germplasm	
		samples with NBPGR	

9	Potential yield (q/ha)	471.93
10	Average yield (q/ha)	395.04
11	Recommended regions/areas of	Brinjal growing area of the Gujarat state during late
	adoption	kharif-rabi season
12	Characteristics/Distinguishing morphisms	phological in brief:
•	Plant height (cm)	70.33
•	Plant spread (cm)	80.88
•	Days to first picking after T.P.	64
•	Days to last picking after T.P.	163
•	Number of branches/plant	3.40
•	Fruit length (cm)	10.13
•	Fruit girth (cm)	17.95
•	Fruit weight (g)	87.68
•	No. of pickings	15
•	No. of fruit/plant	32
•	Fruit colour	Light green with purple shadow
•	Fruit shape of apex	Round
•	Fruit shape of general	Round
•	Fruit size	Medium
•	Fruit glossiness at harvest	Medium
	maturity	
•	Fruit stripes and patches	Present
•	Plant growth habit	Erect
•	Time of physiological ripeness	Early
13	Agronomical Practices	• Time of T. P.: 15 th August to 15 th September
		• Spacing: 90 x 60 cm
		• Seed rate: 300 to 350 g/ha.
		• Fertilizer: N:P:K 100 : 37.5 : 37.5 kg/ha.
14	Specific attributes/Describe at	1. Fruits are medium in size with medium round
	least two identifiable	shape
	characteristics of the variety	2. Fruit pulp is white with less seeds
		3. Fruits are pink purple in colour with good shining
		4. Cluster fruit bearing habit5. Purple shade on calyx
15	Quality / Nutritional / Other	• T. S. S. (%): 9.00
13	features	• Total soluble sugar (%): 4.12
	Touturos	• Acidity (%): 0.12
		• Protein (%): 0.89
		• Glycoalkaloid (od/g.): 0.47
		• Peel colour (od/g.): 2.92
		 Poly phenol oxidase (od/min/g.): 1.40
		 Total phenol (mg/100g.): 28.12
16	Diseases and pests resistance	With respect to the damage due to jassids, whitefly
	(give details of any resistance to	and % fruit borer damage, the proposed entry was
	pest or diseases including races)	found superior than check varieties.
17	Days to last picking/Maturity	163/ Medium maturity group.
	group	
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







16.7 Gujarat Round Brinjal 7 (GRB 7) (Sorath Ravaiya)

16.7	Gujarat Round Brinjal 7 (GRB 7) (
1	Name of crop	Brinjal	
2	Botanical name	Solanum melongena L.	
3	Name of variety	Gujarat Round Brinjal 7 (GRB 7)	
4	Parentage with details of its	JBR-02-11 x GOB-1	
	pedigree	(R-08-5-B-11-9-B-B-B)	
5	Breeding method	Hybridization followed by pedigree method of	
	X7 C 1	selection.	
6	Year of release	2019-20	
7	Gazette notification	Awaited	
8	Acknowledge particulars about	GRB 5 (JBR-14-07) IC 633632	
	the submission of germplasm samples with NBPGR		
9	Average yield (q/ha)	401.46	
10	Recommended regions/areas of	Brinjal growing area of the Gujarat state during late	
10	adoption	kharif-rabi season	
11	Characteristics/Distinguishing mor	v v	
•	Plant height (cm)	60.64	
•	Plant spread (cm)	61.85	
•	Days to first picking after T.P.	69	
•	Days to last picking after T.P.	169	
•	Number of branches/plant	3.79	
•	Fruit length (cm)	9.85	
•	Fruit girth (cm)	15.16	
•	Fruit weight (g)	64.48	
•	No. of pickings	16	
•	No. of fruit/plant	47	
•	Fruit colour	Pink purple	
•	Fruit shape of apex	Rounded	
•	Fruit shape of general	Ovoid	
•	Fruit size	Medium	
•	Fruit glossiness at harvest	Strong	
	maturity		
•	Fruit stripes and patches	Absent	
•	Plant growth habit	Semi spreading	
•	Time of physiological ripeness	Medium	
13	Agronomical Practices	• Time of T. P. : 15 th August to 15 th September	
		• Spacing: 90 x 60 cm	
		• Seed rate: 300 to 350 g/ha.	
		• Fertilizer: N:P:K 100 : 37.5 : 37.5 kg/ha.	
14	Specific attributes/Describe at	• Fruits are medium in size with round shape.	
	least two identifiable	• Fruit pulp is white with less seed.	

	characteristics of the variety	 Fruits are green in colour with purple shadow strips and good shining Plants are medium in size and erect type.
15	Quality / Nutritional / Other features	 T. S. S. (%): 8.00 Total soluble sugar (%): 3.17 Acidity (%): 0.17 Protein (%): 1.09 Glycoalkaloid (od/g.): 0.38 Peel colour (od/g.): 2.93 Poly phenol oxidase (od/min/g.): 1.57 Total phenol (mg/100 g.): 69.00
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	Less fruit and shoot borer damage (%), jassids and aphids.
17	Days to last picking/Maturity group	169/ Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural University, Junagadh-362 001 (Gujarat)







17. Okra

17.1 Gujarat Okra 3 (GO 3)

17.1	i Gujarai Okra 5 (GO 5)		
1	Name of crop	Okra	
2	Botanical name	Abelmoschus esculentus (L.) Moench	
3	Name of variety	Gujarat Okra 3 (GO 3)	
4	Parentage with details of its pedigree	HRB 55 x Arka Anamika	
5	Breeding method	Hybridization followed by pedigree method of selection.	
6	Year of release	2006-07	
7	Gazette notification	Awaited	
8	Acknowledge particulars about the submission of germplasm samples with NBPGR	GO 3 (JNDOL-03-1) IC: 553031	
9	Potential yield (q/ha)	110.50 (Zone VII) and (162.76) Zone VIII	
10	Average yield (q/ha)	86.68 (Zone VII) and (127.25 Zone) VIII	
11	Recommended regions/areas of adoption	The okra variety is suitable for cultivation during <i>kharif</i> season for semi-arid lava plateau and central high lands (Zone VII) comprising of Madhya Pradesh (Excluding Eastern Part) and Maharashtra stares and humid to semi-arid western Ghats and Karnataka plateau (Zone VIII) comprising of Karnataka, Kerala and Tamil Nadu states.	
12	Characteristics/Distinguishing mor	phological in brief:	

•	Plant height (cm)	133
•	Days to 50 % flowering	47
•	Number of branches/plant	2.17
•	Fruit length (cm)	13.43
•	Fruit girth (cm)	5.40
•	10 fruit weight (g)	156
•	No. of fruit/plant	18.99
•	Intermodal length (cm)	1.56
•	Fruit colour	Green
13	Agronomical Practices	Sowing season: <i>Kharif</i>
		• Spacing: 60 x 30 cm
		• Seed rate: 8 to 10 kg/ha.
		• Fertilizer: N:P:K 100 : 50 : 50 kg/ha.
14	Specific attributes/Describe at	The plant has deeply lobed (serrated) leaves, which
	least two identifiable	is the special mark for identification of variety.
	characteristics of the variety	
15	Quality / Nutritional / Other	The pods are green, tender, smooth and attractive.
	features	
16	Diseases and pests resistance	YVMV diseases and jessids & pod borer incidence
	(give details of any resistance to	is less.
	pest or diseases including races)	
17	Days to last picking/Maturity	105/Medium maturity group.
	group	
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)





17.2 Gujarat Okra Hybrid 2 (GOH 2)

	Gujarat Okra Hybrid 2 (GOH 2)	,
1	Name of crop	Okra
2	Botanical name	Abelmoschus esculentus (L.) Moench
3	Name of variety	Gujarat Okra Hybrid 2 (GOH 2)
4	Parentage with details of its	KS-404 x HRB-108-2
	pedigree	
5	Breeding method	Heterosis breeding
6	Year of release	2008-09
7	Gazette notification	S. O. 2978 (E) & Date: 26.12.2008
8	Acknowledge particulars about	Accession IC No.
	the submission of germplasm	1) GOH 2 (JOH-02-2) 560491
	samples with NBPGR	2) KS-404 (female) 560492
		3) HRB-108-2 (male) 560493
9	Potential yield (q/ha)	152.19
10	Average yield (q/ha)	148.36
11	Recommended regions/areas of	It is suitable for cultivation during <i>kharif</i> season for
	adoption	Saurashtra and Middle & South Gujarat. It has also
		release in Zone II (West Bengal and Assam), IV

		(Rajasthan, Guja (Excluding Easte	Plain of UP, Bihar a rat, Haryana and Nev ern Part, Maharashtr Kerala and Tamil N	v Delhi), VII (MP a and Goa)) and
12	Characteristics/Distinguishing m	orphological in bri	lef:	
	Descriptions of hybrid parents	GOH 2	KS-404	HRB-108-2
		(JOH-02-2)	(Female)	(Male)
•	Plant height (cm)	158.8	141.4	152.1
•	Days to 50 % flowering	43.4	43.8	42.2
•	No. of fruit/plant	24.5	18.4	22.3
•	Fruit length (cm)	11.8	11.8	11.2
•	Fruit girth (cm)	5.8	6.1	5.5
•	10 fruit weight (g)	139	142	135
•	Intermodal length (cm)	6.7	6.5	6.8
•	Fruit colour	Green	Green	Green
•	Fruit size	Medium	Thick	Medium
•	Stem colour initial stage	Green	Green	Green
•	Stem colour at flowering &	Reddish	Reddish	Reddish
	fruiting stage			
•	Leaf shape	Deeply lobbed	Deeply lobbed	Deeply lobbed
		serrated	serrated	serrated
•	Base of petals colour	Pinkish red in	Pinkish red only	Pinkish red in
		both the sides	in the inner sides	both the sides
13	Agronomical Practices	Sowing seaso		
		• Spacing: 60 x		
		• Seed rate: 8 to		
			P:K 100 : 50 : 50 kg/h	
14	Specific attributes/Describe at		eeply lobbed and serr	
	least two identifiable		n green and maturity	
	characteristics of the variety	_	reen, tender and at pinkish red on both si	
15	Quality / Nutritional / Other	• Dry weight (%	•	lues.
13	features	Moisture (%)	*	
	Toutures	• Fiber (%) : 0.		
		• Protein (%):		
		• Acidity (%):		
		• ' '	Sugar (%): 1.24	
			d (mg/100g): 5.83	
16	Diseases and pests resistance		ases and jessids & po	od borer incidence
	(give details of any resistance	is less.	ases and Jessias ee po	
	to pest or diseases including			
	races)			
17	Days to last picking/Maturity	110/Medium mat	turity group.	
	group			
18	Originating source/ Institute	_	rch Station, Junagadl	_
		University, Junag	gadh-362 001 (Gujara	t)







17.3 Gujarat Junagadh Okra 3 (GJO 3)

17.3	Gujarat Junagadh Okra 3 (GJO 3)		
1	Name of crop	Okra	
2	Botanical name	Abelmoschus esculentus (L.) Moench	
3	Name of variety	Gujarat Junagadh Okra 3 (GJO 3)	
4	Parentage with details of its	Arka Abhay x VRO-4	
	pedigree	(K-96-6-1-2-1-3-1-B)	
5	Breeding method	Hybridization followed by pedigree method of	
		selection.	
6	Year of release	2009-10	
7	Gazette notification	Awaited	
8	Acknowledge particulars about	GJO 3 (JOL-2K-19) IC: 565033	
	the submission of germplasm		
	samples with NBPGR	104.47	
9	Potential yield (q/ha)	184.47	
10	Average yield (q/ha)	The the wife skeep growing areas of Guignet state	
11	Recommended regions/areas of adoption	The <i>kharif</i> okra growing areas of Gujarat state.	
12	Characteristics/Distinguishing mor	hological in brief:	
12	Plant height (cm)	151.1	
•	Days to 50 % flowering	44.2	
•	Number of branches/plant	2.37	
•	Fruit length (cm)	11.70	
•	Fruit girth (cm)	5.57	
•	10 fruit weight (g)	128	
•	No. of fruit/plant	19.0	
•	Intermodal length (cm)	7.52	
•	Fruit colour	Green	
•	Stem colour at initial stage	Green	
•	Stem colour at flowering &	Reddish	
	fruiting stage		
•	Leaf shape	Deeply lobbed and serrated	
13	Agronomical Practices	Sowing season: <i>Kharif</i>	
		• Spacing: 60 x 30 cm	
		• Seed rate: 8 to 10 kg/ha.	
		• Fertilizer: N:P:K 100 : 50 : 50 kg/ha.	
14	Specific attributes/Describe at	The leaves are deeply lobbed and serrated. Stem	
	least two identifiable	colour at initial stage in green and maturity stage is	
	characteristics of the variety	reddish. The variety registered superior green fruit	
		yield, tender and attractive.	
15	Quality / Nutritional / Other	• Dry weight (%): 8.70	
	features	• Moisture (%): 91.30	
		• Fiber (%): 0.69	

		 Protein (%): 0.99 TSS (%): 7.50 Total Phenols (mg/100g): 0.698 Total Soluble Sugar (%): 1.39
		Ascorbic Acid (mg/100g): 0.29
16	Diseases and pests resistance	The YVMV disease incidence is less. The reaction
	(give details of any resistance to	to major pests like jessids, thrips, whiteflies & pod
	pest or diseases including races)	borer damage is also less.
17	Days to last picking/Maturity	115/Medium maturity group.
	group	
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







17.4 Gujarat Junagadh Okra Hybrid 3 (GJOH 3)

1	Name of crop	Okra		
2	Botanical name	Abelmoschus esculentus ((L.) Moench	
3	Name of variety	Gujarat Junagadh Okra H	lybrid 3 (GJOH	3)
4	Parentage with details of its	JF-108-2 x JM-03-1		
	pedigree			
5	Breeding method	Heterosis breeding		
6	Year of release	2010-11		
7	Gazette notification	S. O. 2277 (E) & Date: 17		
8	Acknowledge particulars about	Accession	IC No.	
	the submission of germplasm	1) GJOH 3 (JOH-05-		
	samples with NBPGR	2) JF-108-2 (female)		
		3) JM-03-1 (male)	585610	
9	Potential yield (q/ha)	153.65		
10	Average yield (q/ha)	137.44		
11	Recommended regions/areas of	The <i>kharif</i> okra growing a		
	adoption	Orissa, Andhra Prade		<i>O</i> ,,
		(Rajasthan, Gujarat, Hary		
		(MP (Excluding Eastern)	part), Maharash	tra and Goa) at
10		national level.		
12	Characteristics/Distinguishing me			77.500.1
	Descriptions of hybrid parents	GJOH 3	JF-108-2	JM-03-1
		(JOH-05-9	(Female)	(Male)
•	Plant height (cm)	122.3	141.4	128.2
•	= 1.j = 10 0 0 / 1 == 1.	40.5	41.8	42.2
•	Number of fruits per plant	18.6	16.4	15.3
•	Fruit length (cm)	11.5	11.8	10.6
•	Fruit girth (cm)	4.99	4.95	5.56
•	10 fruit weight (g)	1392	135	132
•	Intermodal length (cm)	5.41	6.52	5.68
•	Fruit colour	Dark green	Green	Dark green

13	Agronomical Practices Specific attributes/Describe at least two identifiable	 Sowing season: <i>Kharif</i> Spacing: 60 x 30 cm Seed rate: 8 to 10 kg/ha. Fertilizer: N:P:K 100: 50: 50 kg/ha. The leaves are deeply lobbed and serrated. Stem colour
	characteristics of the variety	at initial stage in green and maturity stage is reddish. The pods are smooth, dark green, tender and attractive in colour.
15	Quality / Nutritional / Other features	 Dry weight (%): 11.39 Moisture (%): 88.61 Fiber (%): 1.15 Protein (%): 1.46 TSS (%): 9.00 Total Phenols (mg/100g): 0.593 Total Soluble Sugar (%): 1.26 Ascorbic Acid (mg/100g): 6.30
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	The YVMV disease incidence was less. The reaction to major pests like jessids, thrips, whiteflies & pod borer damage is also less.
17	Days to last picking/Maturity group	105/Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural University, Junagadh-362 001 (Gujarat)





17.5 Guiarat Junagadh Okra Hybrid 4 (GJOH 4)

17.5	17.5 Gujarat Junagadn Okra Hybrid 4 (GJOH 4)		
1	Name of crop	Okra	
2	Botanical name	Abelmoschus esculentus (L.) Moench	
3	Name of variety	Gujarat Junagadh Okra Hybrid 4 (GJOH 4)	
4	Parentage with details of its	JF-55 x JOL-2K-19	
	pedigree		
5	Breeding method	Heterosis breeding	
6	Year of release	2014-15	
7	Gazette notification	S.O. No. 261 (E), Dt. 16/01/2018	
8	Acknowledge particulars about	Accession IC No.	
	the submission of germplasm	GJOH 4 (JOH-08-19) 611697	
	samples with NBPGR	JF-55 (female) 611698	
		JOL-2K-19 (male) 611699	
9	Potential yield (q/ha)	143.36	
10	Average yield (q/ha)	140.00	
11	Recommended regions/areas of	The okra hybrid suitable for cultivation during <i>kharif</i>	
	adoption	season for Zone VI (Arid Western Plains of Rajasthan,	
		Gujarat, Haryana and Delhi) and Zone VII (Madhya	
		Pradesh and Maharashtra) release at state and national	
		levels.	

12	Characteristics/Distinguishing morphological in brief:			
	Descriptions of hybrid parents	GJOH 4	JF-55	JOM-2K-19
		(JOH-08-19	(Female)	(Male)
•	Plant height (cm)	109.50	90.10	95.50
•	Days to 50 % flowering	45.35	48.50	45.00
•	Days to first picking	53	55	52
•	Number of fruits per plant	20.51	15.16	18.30
•	Fruit length (cm)	11.89	10.68	10.38
•	Fruit girth (cm)	5.31	5.32	5.14
•	10 fruit weight (g)	123	119	109
•	Fruit colour	Medium dark green,	Dark green,	Light green,
		tender, long and	tender, short	tender, medium
		attractive		long
•	Leaf shape	Deeply lobbed and	Deeply	Deeply lobbed
		serrated	lobbed and	and serrated
1.2	A	0 1	serrated	
13	Agronomical Practices	• Sowing season: Ki		
		• Spacing: 60 x 30 c		
		• Seed rate: 8 to 10	_	
1.4	9 10 11 17	• Fertilizer: N:P:K 1		
14	Specific attributes/Describe at	The leaves are deeply		
	least two identifiable	at seedling stage co fruiting stage colour	_	•
	characteristics of the variety	medium dark green		
		colour. Flower colour	_	
		red in colour.	on base of the	nower petar ngm
15	Quality / Nutritional / Other	NA NA		
	features			
16	Diseases and pests resistance	The YVMV disease i	ncidence was les	ss. The reaction to
	(give details of any resistance	major pests like jessi	ds, thrips, white	flies & pod borer
	to pest or diseases including	damage was also less		
	races)			
17	Days to last picking/Maturity	102/Medium maturity	group.	
10	group	T	· · · · · · · · · · · · · · · · · · ·	
18	Originating source/ Institute	Vegetable Research S	•	_
		University, Junagadh	-302 001 (Gujara	ιτ <i>)</i>





17.6 Gujarat Okra 6 (GO 6)

1	Name of crop	Okra
2	Botanical name	Abelmoschus esculentus (L.) Moench
3	Name of variety	Gujarat Okra 6 (GO 6)
4	Parentage with details of its	AOL-03-1 x JOL-2K-19
	pedigree	(K-2007-5-B-6-4-B-B)
5	Breeding method	Hybridization followed by pedigree method of
		selection.

6	Year of release	2017-18
7	Gazette notification	Awaited
8	Acknowledge particulars about the submission of germplasm samples with NBPGR	GO 6 (JOL-11-12) IC: 625723
9	Potential yield (q/ha)	154.68
10	Average yield (q/ha)	125.44
11	Recommended regions/areas of adoption	The <i>kharif</i> okra growing areas of Gujarat state.
12	Characteristics/Distinguishing mor	phological in brief:
•	Plant height (cm)	111.83
•	Days to 50 % flowering	45
•	Fruit length (cm)	12.94
•	Fruit girth (cm)	5.84
•	10 fruit weight (g)	146.4
•	No. of pickings	14
•	No. of fruit/plant	14.79
•	Intermodal length (cm)	7.53
•	Fruit colour	Dark green
•	Stem colour at initial stage	Green
13	Agronomical Practices	 Sowing season: 15th June to 15th July Spacing: 60 x 30 cm Seed rate: 8 to 10 kg/ha. Fertilizer: N:P:K 150: 50: 50 kg/ha.
14	Specific attributes/Describe at least two identifiable characteristics of the variety	 Fruits are smooth, tender, dark green in colour and attractive. Leaf petiole length is short. Flower petal colour is cream. Calyx is green in colour. Shape of fruit is apex is narrow acute. Hairiness on seed is present.
15	Quality / Nutritional / Other features	 Dry weight (%): 8.70 Moisture (%): 91.30 Protein (%): 1.05 TSS (%): 8.50 Total Phenols (mg/100g): 0.30 Total Soluble Sugar (%): 1.31 Ascorbic Acid (mg/100g): 6.49
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	The fruit borer, jassids, white fly and YVMV incidence was found less as compared to all check varieties.
17	Days to last picking/Maturity group	99/Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural University, Junagadh-362 001 (Gujarat)







18. Garlic

18.1 Gujarat Garlic 4 (GG 4)

1	Name of crop	Garlic
2	Botanical name	Allium sativum L.
3	Name of variety	Gujarat Garlic 4 (GG 4)
4	Parentage with details of its	The genotype was selection from the local collection
-	pedigree	made from surrounding area of Choki village of
	pedigice	Junagadh district and maintained in germplasm as
		line No. 213.
5	Breeding method	Clonal selection.
6	Year of release	2006-07
7	Gazette notification	S. O. 2978 (E) & Date: 26.12.2008
8	Acknowledge particulars about	GG 4 (JG-99-213) IC: 573470
	the submission of germplasm	
	samples with NBPGR	
9	Potential yield (q/ha)	93.24
10	Average yield (q/ha)	89.33
11	Recommended regions/areas of	The garlic variety is suitable for cultivation under
	adoption	rabi season for Saurashtra and Middle Gujarat and
		Zone IV (Gujarat & Rajasthan).
12	Characteristics/Distinguishing morp	
•	Plant height (cm)	55
•	No. of leaves/Plant	11.5
•	No. of cloves/Bulb	21.0
•	Bulb polar diameter (cm)	2.72
•	Bulb equator diameter (cm)	3.82
•	Clove length (cm)	2.17
•	Clove girth (cm)	0.89
•	Bulb weight (g)	19.1
•	Bulb colour	White
•	Leaf colour	Medium green
•	Leaf width	Narrow
•	Bulb size	Medium
13	Agronomical Practices	Sowing season : Second fortnight of October
		• Spacing: 15 x 10 cm
		• Seed rate: 500 to 700 kg cloves/ha.
		• Fertilizer: N:P:K 50 : 50 : 50 kg/ha.
14	Specific attributes/Describe at	The bulbs are medium in size, compact and white in
	least two identifiable	colour, the leaf width is narrow with medium green
	characteristics of the variety	colour.
15		
	Quality / Nutritional / Other	• T. S. S. (*Brix): 36.12
	Quality / Nutritional / Other features	T. S. S. (*Brix): 36.12Soluble sugar (%): 22.59

		• Ascorbic Acid (mg/100g) : 6.44
		, , ,
		• Carotenoids (mg/100g) : 0.45
		• Pyruvic acid (mg/g.): 2.86
		• Protein (%): 1.14
		• Dry matter (%): 38.45
		• Drying ratio : 2.60
16	Diseases and pests resistance	The stem phylum leaf blight and powdery mildew
	(give details of any resistance to	disease and thrips are less in the variety.
	pest or diseases including races)	
17	Maturity group	134/Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







18.2 Gujarat Junagadh Garlic 5 (GJG 5)

	Nome of oron	Garlic
1	Name of crop	
2	Botanical name	Allium sativum L.
3	Name of variety	Gujarat Junagadh Garlic 5 (GJG 5)
4	Parentage with details of its	The genotype was collection from local market of
	pedigree	Visavadar of Junagadh district and maintained in
		germplasm as line No. 260.
5	Breeding method	Clonal selection.
6	Year of release	2013-14
7	Gazette notification	S. O. No. 261 (E), Dt.16/01/2018
8	Acknowledge particulars about	GJG 5 (JG-07-13) IC: 611307
	the submission of germplasm	
	samples with NBPGR	
9	Potential yield (q/ha)	81.32
10	Average yield (q/ha)	79.42
11	Recommended regions/areas of	The garlic variety is suitable for cultivation under
	adoption	rabi season for Saurashtra and Middle Gujarat.
12	Characteristics/Distinguishing morphisms	phological in brief:
•	Plant height (cm)	44.88
•	No. of leaves/Plant	12.23
•	No. of cloves/Bulb	17.85
•	Bulb polar diameter (cm)	2.87
•	Bulb equator diameter (cm)	3.18
•	Clove size (diameter)	Medium
•	Clove colour and colour flesh	White
•	10 Bulb weight (g)	130.92
•	Bulb colour	White
•	Leaf colour	Light green
•	Leaf width	Narrow
•	Leaf waxiness	Weak
•	Leaf shape	Strongly concave
•	Bulb size	Compact and Medium

	T	T
13	Agronomical Practices	Sowing season : Second fortnight of October
		• Spacing: 15 x 10 cm
		• Seed rate: 500 to 700 kg cloves/ha.
		• Fertilizer: N:P:K 50 : 50 : 50 kg/ha.
14	Specific attributes/Describe at	The bulbs are medium in size, compact and
	least two identifiable	attractive white in colour, the leaf width is medium
	characteristics of the variety	with light green colour.
15	Quality / Nutritional / Other	• T. S. S. (*Brix): 37.50
	features	• Total carbohydrate (%): 26.71
		• Total protein (%): 3.72
		• Reducing sugar (%): 2.34
		• Ascorbic Acid (mg/100g): 6.87
		• Carotenoids (mg/100g) : 0.44
		• Pyruvic acid (mg/g.): 2.93
		• Dry matter (%): 38.89
		• Drying ratio : 2.57
16	Diseases and pests resistance	The stem phylum leaf blight and powdery mildew
	(give details of any resistance to	disease and thrips are less in the variety.
	pest or diseases including races)	
17	Maturity group	Early maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







19. Onion

19.1 Gujarat Junagadh Red Onion 11 (GJRO 11)

17.1	19.1 Gujarat Junagaun Keu Omon 11 (GJKO 11)			
1	Name of crop	Onion		
2	Botanical name	Allium cepa L.		
3	Name of variety	Gujarat Junagadh Red Onion 11 (GJRO 11)		
4	Parentage with details of its	The sample of red onion was local collection from		
	pedigree	Mahuva taluka of Bhavnagar district and maintained		
		in germplasm No. 117 (Mahuva-7).		
5	Breeding method	Mass selection.		
6	Year of release	2014-15 and 2015-16 (Area expansion)		
7	Gazette notification	S.O. No. 4868 (E), Dt. 14/09/2018		
8	Acknowledge particulars about	GJRO 11 (JDRO-07-13) IC: 612169		
	the submission of germplasm			
	samples with NBPGR			
9	Potential yield (q/ha)	371.63		
10	Average yield (q/ha)	336.29		
11	Recommended regions/areas of	The onion variety is suitable for cultivation in rabi		
	adoption	season under irrigated condition of Gujarat state.		
12	Characteristics/Distinguishing morphological in brief:			
•	Number of leaves/ pseudo stem	10.02		
•	Foliage length (cm)	49.54		

•	Bulb length (cm)	3.96	
•	Bulb girth (cm)	5.36	
•	Bulb weight (g)	59.61	
•	Bolting (%)	2.34	
•	Jointed bulbs (%)	1.74	
•	Bulb colour	Red	
•	Bulb shape	Flat globe	
•	Thickness of rings	Medium	
•	Firmness of flesh	Medium	
•	Colour of epidermis of fleshy scale	Purple	
•	Predominant number of axes	Three	
•	Cross section	Asymmetrical	
•	Degree of spitting into bulb lets	Absent	
•	Foliage attitude	Erect	
•	Foliage waxiness	Present	
13	Agronomical Practices	• Time of T. P.: November-December	
		• Spacing: 15 x 10 cm	
		• Seed rate: 8 to 10 kg/ha.	
		• Fertilizer: N:P:K 75 : 60 : 50 kg/ha.	
14	Specific attributes/Describe at	The bulbs are medium in size, flat globe in shape	
	least two identifiable	and red in colour and recorded less jointed bulb per	
1.5	characteristics of the variety	cent (1.74 %).	
15	Quality / Nutritional / Other features	• Moisture (%): 89.44	
	leatures	• T. S. S. (*Brix): 13.14	
		• Soluble sugar (%): 1.22	
		• Reducing sugar (%): 0.36	
		Non reducing sugar (%): 0.86Ascorbic Acid (mg/100g): 3.89	
		• Pyruvic acid (mg/100g.): 11.35	
		• Total Protein (%): 1.16	
		• Total phenol mg/100g : 13.66	
		• Acidity (%): 0.34	
16	Diseases and pests resistance	Purple blotch disease and thrips is less in the variety.	
	(give details of any resistance to	,	
	pest or diseases including races)		
17	Days to maturity/Maturity group	124/ Medium maturity group.	
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural	
		University, Junagadh-362 001 (Gujarat)	







19.2 Gujarat Junagadh White Onion 3 (GJWO 3)

	1	Name of crop	Onion
Ī	2	Botanical name	Allium cepa L.

3	Name of variety	Gujarat Junagadh white Onion 3 (GJWO 3)	
4	Parentage with details of its	The sample of white onion was local collection from	
	pedigree	Talaja taluka of Bhavnagar district and maintained	
		in germplasm No. 120 (Borda village).	
5	Breeding method	Mass selection.	
6	Year of release	2015-16	
7	Gazette notification	S. O. No. 261 (E), Dt.16/01/2018	
8	Acknowledge particulars about	GJWO 3 (JWO-05-7) IC: 612168	
	the submission of germplasm		
	samples with NBPGR		
9	Potential yield (q/ha)	519.33	
10	Average yield (q/ha)	398.06	
11	Recommended regions/areas of	The onion variety is suitable for cultivation in <i>rabi</i>	
	adoption	season under irrigated condition of Gujarat state.	
12	Characteristics/Distinguishing morphisms		
•	Number of leaves/ pseudo stem	10.7	
•	Foliage length (cm)	49.7	
•	Bulb length (cm)	4.23	
•	Bulb girth (cm)	5.16	
•	Bulb weight (g)	65.73	
•	Bolting (%)	1.02	
•	Jointed bulbs (%)	1.70	
•	Bulb colour	White	
•	Bulb shape	Flat globe	
	Thickness of rings	Medium	
•	Thickness of neck	Thick	
•	Firmness of flesh	Medium	
	Colour of epidermis of fleshy	White	
•	scale	Winte	
•	Predominant number of axes	Three	
•	Cross section	Asymmetrical	
•	Degree of spitting into bulb lets	Absent	
•	Foliage attitude	Erect	
•	Foliage waxiness	Present	
	Anthocyanin pigmentation		
13	Anthocyanin pigmentation Agronomical Practices	Dark green	
13	Agronomical Fractices	• Time of T. P.: November-December	
		• Spacing: 15 x 10 cm	
		• Seed rate: 8 to 10 kg/ha.	
1.4	Charles of the land of the lan	• Fertilizer: N:P:K 75 : 60 : 50 kg/ha.	
14	Specific attributes/Describe at	The bulbs are medium in size, flat globe in shape	
	least two identifiable	and white in colour and foliage is dark green. Four	
	characteristics of the variety	months storage study, the weight loss per cent (18.06	
		%) has also observed lower. The variety is suitable for dehydration purpose.	
15	Quality / Nutritional / Other	· · · ·	
13	features	• Moisture (%): 90.73	
	reatures	• T. S. S. (*Brix): 13.15	
		• Soluble sugar (%): 1.04	
		• Reducing sugar (%): 0.24	
		• Non reducing sugar (%): 0.79	
		• Ascorbic Acid (mg/100g): 3.19	
		• Pyruvic acid (mg/100g.): 11.35	

		 Total Protein (%): 1.19 Total phenol mg/100g: 18.23 Acidity (%): 0.37
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	Purple blotch disease and thrips are less in the variety.
17	Days to maturity/Maturity group	123/ Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







20. Sponge Gourd 20.1 Gujarat Sponge Gourd 1 (GSG 1)

1	Name of crop	Sponge Gourd
2	Botanical name	Luffa cylindrica Roem.
3	Name of variety	Gujarat Sponge Gourd 1 (GSG 1)
4	Parentage with details of its	The genotype was collection from Ajab, village
	pedigree	Junagadh district and maintained in germplasm lion
		No. 55.
5	Breeding method	Mass selection.
6	Year of release	2004-05
7	Gazette notification	S. O. 597 (E) & Date: 25.04.2006
8	Acknowledge particulars about	GSG 1 (JSGL-55) IC: NA
	the submission of germplasm	
	samples with NBPGR	
9	Potential yield (q/ha)	213.20
10	Average yield (q/ha)	131.29
11	Recommended regions/areas of	The sponge gourd variety is suitable for cultivation
	adoption	during kharif season for the Gujarat state and Zone
		VII (MP (Excluding Eastern Part), Maharashtra and
10		Goa).
12	Characteristics/Distinguishing mor	
•	Daye to male flowering	44.00
•	Days to female flowering	44.63
•	Days to first picking	59.91
•	Days to last picking	109.12
•	Vine length (m)	5.5
•	Fruit length (cm)	23.22
•	Fruit girth (cm)	12.64
•	Fruit weight (g)	147.36
•	No. of fruit / plant	11.98
•	Fruit yield / plant (kg)	1.765
•	No. of pickings	16.77
•	Fruit colour	Light green
•	Fruit size	Medium

•	Seed colour	Black
13	Agronomical Practices	Time of sowing : June-July
		• Spacing: 150 cm x 100 cm
		• Seed rate: 2 kg/ha.
		• Fertilizer: N:P:K 50 : 25 : 25 kg/ha.
14	Specific attributes/Describe at	The fruit of this variety are medium size, good shape
	least two identifiable	with attractive light green colour and contain higher
	characteristics of the variety	Soluble Sugar (1.99 %).
15	Quality / Nutritional / Other	• Moisture (%): 92.17
	features	• Soluble sugar (%): 1.99
		• Reducing sugar (%): 0.948
		• Non reducing sugar (%): 1.042
		• Chlorophyll 'a' (mg/g): 0.093
		• Chlorophyll 'b' (mg/g): 0.071
		• Soluble protein (%): 0.345
16	Diseases and pests resistance	Downy mildew disease and leaf miner are less in the
	(give details of any resistance to	variety.
	pest or diseases including races)	
17	Days to last picking/Maturity group	109 days/Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)







20.2 Gujarat Junagadh Sponge Gourd 2 (GJSG 2)

1	Name of crop	Sponge Gourd	
2	1	1	
2	Botanical name	Luffa cylindrica (L.) Roem	
3	Name of variety	Gujarat Junagadh Sponge Gourd 2 (GJSG 2)	
4	Parentage with details of its	Pusa Chikni x NSG 28	
	pedigree		
5	Breeding method	Hybridization followed by pedigree method of	
		selection.	
6	Year of release	2014-15	
7	Gazette notification	Awaited	
8	Acknowledge particulars about	GJSG 2 (JSG-05-04) IC: 616390	
	the submission of germplasm		
	samples with NBPGR		
9	Potential yield (q/ha)	139.73	
10	Average yield (q/ha)	114.04	
11	Recommended regions/areas of	The sponge gourd variety is suitable for the	
	adoption	cultivation during <i>kharif</i> season for the Saurashtra	
		and Middle Gujarat region.	
12	Characteristics/Distinguishing morphological in brief:		
•	Daye to male flowering	39	
•	Days to female flowering	43	

•	Days to first picking	55
•	Days to last picking	98
•	Vine length (m)	7.78
•	Fruit length (cm)	27.29
•	Fruit girth (cm)	12.37
•	Fruit weight (g)	162.02
•	No. of fruit / plant	13.36
•	Fruit yield / plant (kg)	2.16
•	No. of primary branches/vine	3
•	Fruit skin colour	Green
•	Fruit size	Long
•	Fruit shape	Cylindrical
•	Seed colour	Black
•	Flash texture	Smooth
•	Flower size	Medium big
•	Early plant vigor	Very good
•	Plant growth habit	Long vine
•	Stem pubescence	Smooth
•	Stem shape	Angular
13	Agronomical Practices	• Time of sowing : 15 th June to 15 th July
		• Spacing: 200 cm x 100 cm
		• Seed rate: 3 kg/ha.
		• Fertilizer: N:P:K 50 : 25 : 25 kg/ha.
14	Specific attributes/Describe at	The fruit of this variety are long size, green colour,
	least two identifiable	shining. Leaf size is large and multifold leaf margin
	characteristics of the variety	and more tendrils branching (1+4).
15	Quality / Nutritional / Other	• Moisture (%): 93.06
	features	• Dry Wt. (%): 6.94
		• TSS (%): 6.25
		• Soluble sugar (%): 1.671
		• Reducing sugar (%): 0.781
		• Non reducing sugar (%): 0.890
		• Chlorophyll 'A' (mg/g): 0.62
		• Chlorophyll 'B' (mg/g): 0.91
1.0	Diagona and mosts resistance	Soluble protein (%): 0.218 Magain Dayway milday diagage and fruit fly loof
16	Diseases and pests resistance	Mosaic, Downy mildew disease and fruit fly, leaf
	(give details of any resistance to pest or diseases including races)	miner are less in the variety.
17	Days to last picking/Maturity	98 days/Early maturity group.
1 /	group	70 days, Dairy maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
	<u> </u>	University, Junagadh-362 001 (Gujarat)
-		







21.1 Gujarat Junagadh Ridge Gourd Hybrid 1 (GJRGH 1)

21.1	21.1 Gujarat Junagadh Ridge Gourd Hybrid 1 (GJRGH 1)			
1	Name of crop	Ridge Gourd		
2	Botanical name	Luffa acutangula 1		
3	Name of variety	Gujarat Junagadh		id 1 (GJRGH 1)
4	Parentage with details of its	JRGL 11 x JRGL	32	
	pedigree			
5	Breeding method	Heterosis breeding	5.	
6	Year of release	2011-12		
7	Gazette notification	Awaited		
8	Acknowledge particulars	Accession		No.
	about the submission of	1) GJRGH 1	` /	780
	germplasm samples with NBPGR	2) JRGL-32 (3) JRGL-11 (
9	Potential yield (q/ha)	3) JRGL-11 (146.22	Female) 587	182
10	Average yield (q/ha)	113.30		
11	Recommended regions/areas		table for the culti	vation during <i>kharif</i>
11	of adoption	season for the Sau		•
12	Characteristics/Distinguishing n			Gujurut 10g1011.
	Description of the parents	GJRGH 1	JRGL-11	JRGL-32 (Male)
	P. 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	(JRGH-28)	(Female)	(1.202)
•	Daye to male flowering	46.30	47.90	44.45
	Days to female flowering	52.14	53.43	49.25
	First male appearing node	6.30	8.90	7.83
	First female appearing node	7.80	12.50	10.26
•	Male and female flower ratio	11.10	9.35	10.25
•	Days to first picking	59	60	65
	Days to last picking	110	109	102
•		5.10	4.80	5.73
	No. of primary branches/vine	8.50	7.60	6.60
	Fruit length (cm)	34.63	31.18	32.23
	Fruit girth (cm)	11.87	11.40	10.81
•	Fruit weight (g)	119.43	112.82	108.10
•	No. of fruit / plant	17.08	13.36	14.10
•	Fruit yield / plant (kg)	2.016	1.523	1.750
•	Petiole length (cm)	11.6	10.80	11.30
•	Pedicle length (cm)	9.20	8.10	10.0
•	Number of ridges on fruit	10	10	10
•	100 seed weight	15.50	11.50	12.10
•	Fruit skin colour	Green	Green	Green
•	Fruit size	Long	Medium	Large
•	Fruit shape	Elliptical	Elliptical	Curve
•	Seed colour	Black	Black	Black
•	Flash texture	Smooth	Smooth	Smooth
•	Flower size	Big	Medium	Medium
•	Ridge expression	Highly	Prominent	Medium prominent
		prominent		
•	Early plant vigor	Very good	Good	Good
•	Plant growth habit	Medium vine	Medium vine	Long vine
•	Stem pubescence	Smooth	Smooth	Smooth
•	Stem shape	Angular	Angular	Angular
•	Tendril	Present	Present	Present

•	Tendril type	Coiled	Coiled	Coiled
•	Tendril branching	Branched (1+3)	Branched (1+3)	Branched (1+4)
•	Leaf margin	Multifold	Multifold	Serrate
•	Leaf size	Large	Medium	Large
•	Leaf pubescence nature	Intermediate	Soft	Soft
•	Leaf pubescence density	Dense	Sparse	Dense
•	Sex type	Monocious	Monocious	Monocious
13	Agronomical Practices	Spacing: 200 cSeed rate: 3 kg		·
14	Specific attributes/Describe at least two identifiable characteristics of the variety	The fruit of this h Petiole and ped expression of the	ybrid are long size icle length is n	e with green colour. nore and the ride ominent. Dorsal side
15	Quality / Nutritional / Other features	 Moisture (%): Dry Wt. (%): 6 TSS (%): 5.83 Total sugar (% Reducing sugar Non reducing set Pulp/Skin ration Chlorophyll 'Better (%): 0 Fiber content (%): 0 	93.20 6.80): 1.29 r (%): 0.753 sugar (%): 0.538 o: 5.634 o' (mg/g): 1.240 .230 %): 2.328	
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	disease. Fruit fly hybrid.	and mines per l	ainst downy mildew leaf are less in the
17	Days to last picking/Maturity group	109 days/Medium	maturity group.	
18	Originating source/ Institute	_	rch Station, Jun adh-362 001 (Gujar	_





21.2 Gujarat Ridge Gourd 2 (GRG 2)

1	Name of crop	Ridge Gourd
2	Botanical name	Luffa acutangula Roxb. L.
3	Name of variety	Gujarat Ridge Gourd 2 (GRG 2)
4	Parentage with details of its	HARG-110 x ARGS-07-41
	pedigree	
5	Breeding method	Hybridization followed by pedigree method of selection
6	Year of release	2018-19
7	Gazette notification	Awaited
8	Acknowledge particulars	JRG-13-06 (GRG-2) IC: 628559
	about the submission of	

	germplasm samples with NBPGR		
9	Average yield (q/ha)	105.70	
10	Recommended regions/areas	This ridge gourd variety is suitable for the cultivation	
	of adoption	during <i>kharif</i> season in the areas of Saurashtra and Middle Gujarat	
11	Characteristics/Distinguishing r	v	
	Description of the parents	GRG-2 (JRG-13-06)	
•	Daye to male flowering	43	
•	Days to female flowering	47	
•	First male appearing node	9.10	
•	First female appearing node	14.10	
•	Male and female flower ratio		
•	Days to first picking	58	
•	Days to last picking	99	
•	Vine length (m)	6.88	
•	No. of primary branches/vine	5.40	
•	Fruit length (cm)	32.95	
•	Fruit girth (cm)	11.80	
•	D '('1(/)	128.15	
•	NT CC 1 / 1	16.10	
•	Fruit yield / plant (kg)	2.063	
•	Petiole length (cm)	Medium (8.1-10 cm)	
•	Pedicle length (cm)	Long (> 10 cm)	
•	Number of ridges on fruit		
•	100 seed weight	Low (<10 g)	
•	Fruit skin colour	Green	
•	Fruit size	Long	
•	Fruit shape	Elongate	
•	Seed colour	Black	
•	Flash texture	Soft	
•	Flower size		
•	Ridge expression		
•	Early plant vigor		
•	Plant growth habit	Long viny (> 5.5 m)	
•	Stem pubescence	Absent	
•	Stem shape	Angular	
•	Tendril		
•	Tendril type		
•	Tendril branching		
	Leaf margin	Serrate	
•	Leaf size	Large	
•	Leaf pubescence nature	Soft	
•	Leaf pubescence density		
•	Sex type		
12	Agronomical Practices	• Time of sowing : 15 th June to 15 th July	
		• Spacing: 200 cm x 100 cm	
		• Seed rate: 3 kg/ha.	
		• Fertilizer: N:P:K 50 : 25 : 25 kg/ha.	
13	Specific attributes/Describe at	The fruit of this hybrid are long size with green colour.	

	least two identifiable characteristics of the variety	Petiole and pedicle length is more and the ride expression of the fruit is highly prominent. Dorsal side petal having five prominent nerves-male flowers.
14	Quality / Nutritional / Other features	 Moisture (%): 93.20 Dry Wt. (%): 6.80 TSS (%): 5.83 Total sugar (%): 1.29 Reducing sugar (%): 0.753 Non reducing sugar (%): 0.538 Pulp/Skin ratio: 5.634 Chlorophyll 'B' (mg/g): 1.240 Protein (%): 0.230 Fiber content (%): 2.328
15	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	The hybrid is medium tolerance against downy mildew disease. Fruit fly and mines per leaf are less in the hybrid.
16	Days to last picking/Maturity group	109 days/Medium maturity group.
17	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural University, Junagadh-362 001 (Gujarat)

22. Indian Bean

22.1 Gujarat Junagadh Indian bean 11 (GJIB 11)

4	N. C	(301D 11)
1	Name of crop	Indian bean
2	Botanical name	Dolichos lablab L.
3	Name of variety	Gujarat Junagadh Indian bean 11 (GJIB 11)
4	Parentage with details of its	The genotype was collection from the local
	pedigree	collection was maintained in germplasm as lion No.
		16.
5	Breeding method	Pure line selection.
6	Year of release	2010-11
7	Gazette notification	S. O. 1498 (E), Dt.01.04.2019
8	Acknowledge particulars about	GJIB 11 (JIB (V) 16 IC: 587779
	the submission of germplasm	
	samples with NBPGR	
9	Potential pod yield (q/ha)	111.31
10	Average pod yield (q/ha)	95.39
11	Recommended regions/areas of	The Indian bean variety is suitable for cultivation
	adoption	during late kharif season in Saurashtra and Middle
		Gujarat.
12	Characteristics/Distinguishing morphisms	
•	Plant height (cm)	57.25
•	Plant spread (cm)	49.31
•	No. of branches/plant	4.91
•	Pod length (cm)	13.22
•	Pod width (cm)	1.09
•	Ten pod weight (g)	53.44
•	No. of seeds per pod	5.11
•	Days to first picking	98
•	Days to last picking	149
•	Pod colour	Green

•	Pod shape	Medium long
•	Pod size	Medium
•	Plant habit	Semi spreading
13	Agronomical Practices	 Time of sowing: 15th to 30th September Spacing: 150 cm x 75 cm Seed rate: 8 to 10 kg/ha. Fertilizer: N:P:K 20: 40: 00 kg/ha.
14	Specific attributes/Describe at least two identifiable characteristics of the variety	The pod of this variety is medium long in size with green colour. Plant is semi spreading and flower is violate in colour.
15	Quality / Nutritional / Other features	 Moisture (%): 86.3 Dry matter (%): 13.7 Poly phenol oxidase (od/min/g.): 0.14 Glycoalkaloid (od/gm.): 0.32 TSS (%): 11.6 Peel colour (od/g.): 1.36 Protein (%): 2.12 Acidity (%): 3.56 Total phenol (mg/100g.): 27.23 Total soluble sugar (%): 1.93
16	Diseases and pests resistance (give details of any resistance to pest or diseases including races)	The variety possessed tolerance leaf spot and leaf blight disease. Mosaic virus incidence is also recorded less (1.22 %) in the variety. The reaction of pod borer, leaf miner and aphids damage are also recorded lower.
17	Days to last picking/Maturity group	149 days/Medium maturity group.
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural University, Junagadh-362 001 (Gujarat)





22.2 Gujarat Junagadh Indian bean 2 (GJIB 2)

22.2 Gujurut sunuguan matan bean 2 (GSID 2)		
1	Name of crop	Indian bean (<i>Papdi</i>)
2	Botanical name	Dolichos lablab L.
3	Name of variety	Gujarat Junagadh Indian bean 2 (GJIB 2)
4	Parentage with details of its	JNDIB 88 x JNDIB 23
	pedigree	(1998-7-7-18-14-13)
5	Breeding method	Hybridization followed by pedigree method of
		selection.
6	Year of release	2011-12
7	Gazette notification	S. O. 3666 (E) & Date: 06.12.2016
8	Acknowledge particulars about	GJIB 2 (JIB (P)-04-14 IC: 589768
	the submission of germplasm	
	samples with NBPGR	
9	Potential pod yield (q/ha)	143.11
10	Average pod yield (q/ha)	112.46

11	Recommended regions/areas of	The Indian bean (papdi) variety is suitable for
	adoption	cultivation during late <i>kharif</i> season in Saurashtra
		and Middle Gujarat.
12	Characteristics/Distinguishing mor	· ·
•	Plant height (cm)	77.86
•	Plant spread (cm)	65.24
•	No. of branches/plant	5.55
•	Pod length (cm)	8.00
•	Pod width (cm)	1.997
•	Ten pod weight (g)	50.25
•	No. of seeds per pod	4.28
•	Days to first picking	91.0
•	Days to last picking	155.86
•	Pod colour	Green
•	Pod shape	Flat and medium long
•	Pod size	Big
•	Pod tip	Acute
•	Pod edge	Green
•	Pod curvature	Curved
•	Plant habit	Semi erect
•	Stem colour	Green
•	Petiole length	Short
•	Petiole colour	Green
•	Leaf blade tip angle	Very acute
•	Leaf blade colour	Green
•	Corolla colour	White
•	Inflorence spike length	Long
•	Pedicle length and thickness	Intermediate
•	Grain colour	Light green
13	Agronomical Practices	• Time of sowing : 15 th August to 15 th September
		• Spacing: 120 cm x 60 cm
		• Seed rate: 15 to 20 kg/ha.
		• Fertilizer: N:P:K 20 : 40 : 00 kg/ha.
14	Specific attributes/Describe at	The pod of this variety is flat and medium long in
	least two identifiable characteristics of the variety	shape with green colour. Plant is semi spreading and flower is white in colour. Grain colour is light green
	characteristics of the variety	and inflorescence length is more.
15	Quality / Nutritional / Other	 Moisture (%): 82.53
	features	• Dry matter (%): 17.47
		Poly phenol Oxidase (od/min/gm.): 0.133
		• Glycoalkaloid (od/gm.): 0.26
		• TSS (%): 15.5
		• Peel colour (od/gm.): 1.17
		• Protein (%): 4.69
		• Acidity (%): 2.26
		• Total phenol (mg/100g.) : 32.64
		• Total soluble sugar (%): 2.23
16	Diseases and pests resistance	The variety possessed leaf spot and leaf blight
	(give details of any resistance to	disease intensity is also less. The reaction of pod
	pest or diseases including races)	borer, leaf miner and aphids damage are also recorded lower.
		recorded rower.

17	Days to last picking/Maturity	156 days/Medium maturity group.
	group	
18	Originating source/ Institute	Vegetable Research Station, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat)





