JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGADH

Sr. No.	Variety/ Hybrid	
12.	Coconut	
	12.1 Coconut Hybrid T x D (Mahuva)	
13.	Custard Apple	
	13.1 Gujarat Junagadh Custard Apple 1 (GJCA 1)	
14.	Papaya	
	14.1 Gujarat Junagadh Papaya 1 (GJP 1)	

E. Plantation and Fruit crops

12. Coconut

12.1 Coconut Hybrid T x D (Mahuva)

1	Name of crop	Coconut
2	Botanical name	Cocos nucifera L.
3	Name of variety	Hybrid T x D (Mahuva)
4	Parentage with details of its	West Cost Tall x Dwarf Green
	pedigree	
5	Breeding method	Hybridization followed by method of selection.
6	Year of release	2005-06
7	Gazette notification	S. O. 2978 (E) & Date: 26.12.2008
8	Acknowledge particulars about	NA
	the submission of germplasm	
	samples with NBPGR	
9	Potential yield (nuts/palm/year)	66
10	Average yield (nuts/palm/year)	43
11	Recommended regions/areas of	Coastal area of the Gujarat State.
	adoption	
12	Characteristics/Distinguishing mor	
•	Plant height (m)	5.66 (Semi tall)
•	First flowering	3 year and 4 month
•	Number of leaves/palm	23
•	Trunk diameter (cm)	94
•	Number of	10
	inflorescence/palm/year	
•	Number of female	180
	buttons/palm/year	
•	Weight of nut (g)	1086
•	Weight of kernel (g)	111
•	Length of nut (cm)	20
•	Width of nut (cm)	13
13	Agronomical Practices	Planting time: June-July
		• Spacing: 7.5 x 7.5 m.
		• Fertilizer: N:P:K 7.5 : 4.7 : 2.5 kg/palm/year.
14	Specific attributes/Describe at	Semi tall, early bearing, buckling habit and nuts are
	least two identifiable	larger with round in shape. The hybrid is alternative/
	characteristics of the variety	replacement for existing hybrid D x T (Mahuva)
		problems for seed production.
15	Quality / Nutritional / Other	-
	features	
16	Diseases and pests resistance	Moderately tolerant to salt, drought, bud rot and
	(give details of any resistance to	<i>eriophyid</i> mite.

	pest or diseases including races)	
17	Days to maturity/Maturity group	Early maturity group.
18	Originating source/ Institute	Agricultural Research Station (Fruit crops), Junagadh Agricultural University, Mahuva-364 290
		(Gujarat)



13. Custard Apple:

13.1 Gujarat Junagadh Custard Apple 1 (GJCA 1)

1	Name of crop	Custard Apple
2	Botanical name	Annona squamosa L.
3	Name of variety	Gujarat Junagadh Custard Apple 1 (GJCA 1)
4	Parentage with details of its	Selection 18
	pedigree	
5	Breeding method	Clonal selection
6	Year of release	2008-09
7	Gazette notification	Awaited
8	Acknowledge particulars about the	NA
	submission of germplasm samples	
9	with NBPGR Potential fruit yield (kg/tree)	37.03
10	Average fruit yield (kg/tree)	26.81
10	Recommended regions/areas of	Saurashtra region of the Gujarat State.
11	adoption	Saurashira region of the Oujarat State.
12	Characteristics/Distinguishing morp	hological in brief:
•	Plant height (m)	4.61
•	Plant spread (N-S) (m)	5.11
•	Plant spread (E-W) (m)	5.22
•	Days to 1 st Reproductive flush	46.67
•	Days to 2 nd Reproductive flush	98.67
•	Days to 3 rd Reproductive flush	134.17
•	Days to fruit setting	24.75
•	Days to maturity	62.92
•	Fruit weight (g)	139.89
•	Fruit length (cm)	6.80
•	Fruit girth (cm)	7.06
•	Number of fruits per tree	214.92
•	Pulp weight per fruit (g)	42.55
•	Skin weight per fruit (g)	66.13
•	No. of seeds per fruit	22.10

•	Seed weight per fruit (g)	9.35
•	Pulp-seed ratio	4.62
•	Pulp-skin ratio	0.66
13	Agronomical Practices	Transplting time: June-July
		• Spacing: 6 x 6 m.
		• No. of plants per hector: 277
		• Fertilizer: N:P:K 200 : 100 : 50 g/plant.
14	Specific attributes/Describe at	Tree is more vigorous. The fruits are medium in
	least two identifiable	size, more number of fruits and fruit yield/tree with
	characteristics of the variety	less number of seeds per fruit and higher pulp.
15	Quality / Nutritional / Other	• Reducing sugar (%) : 12.38
	features	• Total sugar (%) : 16.55
		• TSS (B^{0}) : 23.49
16	Diseases and pests resistance (give	Low black spot infection.
	details of any resistance to pest or	
	diseases including races)	
17	Days to maturity/Maturity group	63 days/medium maturity group.
18	Originating source/ Institute	Department of Horticulture, Junagadh Agricultural
		University, Junagadh-362 001 (Gujarat).



14. Papaya

14.1 Gujarat Junagadh Papaya 1 (GJP 1)

1	Name of crop	Рарауа
2	Botanical name	Carica papaya L.
3	Name of variety	Gujarat Junagadh Papaya 1 (GJP 1)
4	Parentage with details of its	Selection from local culture No. 4
	pedigree	
5	Breeding method	Mass selection
6	Year of release	2016-17
7	Gazette notification	-
8	Acknowledge particulars about the	IC: 623504
	submission of germplasm samples	
	with NBPGR	
9	Potential fruit yield (kg/tree)	37.08 (92.69 t/ha.)
10	Average fruit yield (kg/tree)	33.81 (84.52 t/ha.)
11	Recommended regions/areas of	Saurashtra region of the Gujarat State.
	adoption	
12	Characteristics/Distinguishing morph	ological in brief:
•	Plant height (m)	172.28
•	No. of leaves per plant	36.38
•	Bearing height (cm)	66.17
•	Stem girth (cm)	31.56
•	No. of nodes to first flower	18.44
•	Length of inter node (cm)	4.48
•	Days to flowering (days)	93.12

•	No. of flower bud/node (female)	5.73
•	Length of pistilate flower bud (cm)	4.18
•	Length of main flower bud	1.98
	peduncle (cm)	
•	Length of main flower stalk in male	31.46
	plant (cm)	
•	Length of staminate flower	2.06
	peduncle (cm)	
•	Length of staminate flower bud	1.92
	(cm)	22.07
•	Fruit length (cm)	22.97
•	Fruit girth (cm)	44.65
•	Number of fruits per tree	36.38
•	Fruit weight (kg)	1.65
•	Pulp weight per fruit (g)	1327.93
•	Peel weight per fruit (g)	238.38
•	Seed weight per fruit (g)	97.37
•	Pulp-seed ratio	1230.56
•	Pulp-peel ratio	5.58
•	Shelf life (Days)	2.99
•	RSPV (%) at harvest	15.49
13	Agronomical Practices	• Time of transplanting: March-April.
		• Spacing: 1.8 x 1.8 m.
		• No. of plants per hectare : 3000
		• Fertilizer: N:P:K 200 : 200 : 250 g/plant.
14	Specific attributes/Describe at least	Medium size fruit with oblong shape and green
	two identifiable characteristics of	colour. The pulp is with soft palatable texture. It
	the variety	has also good pulp colour i.e. orange yellow with
1.5		sweet taste.
15	Quality / Nutritional / Other	• Reducing sugar (%) : 5.54
	features	• Non reducing sugar (%) : 2.41
		• Total sugar (%) : 7.95
1.6		• TSS (B ⁰) : 11.92
16	Diseases and pests resistance (give	The papaya Ring Spot Virus is less.
	details of any resistance to pest or diseases including races)	
17	Days to maturity/Maturity group	232 days/early maturity group
17	Originating source/ Institute	232 days/early maturity group Department of Horticulture, Junagadh Agricultural
10	Originating source/ institute	University, Junagadh-362 001 (Gujarat)
L		Onversity, sunagaan 302 001 (Oujarat)

