

<b>Experiment:</b>		<b>BH-</b>
<b>1.</b>	<b>Title of the experiment</b>	: <b>PET of Tomato</b>
<b>2.</b>	<b>Investigator</b>	: <b>Principal investigator:</b> Dr. J.M.Vashi <b>CO-PI:</b> Dr. A. I. Patel <b>Associates:</b> Dr.Hetal R. Rathod
<b>3</b>	<b>Location</b>	: Vegetable Research Farm, Regional Horticultural Research Station, A.C.H., NAU, Navsari
<b>4.</b>	<b>Agroclimatic situation</b>	: South Gujarat Heavy Rainfall Zone AES-III
<b>5.</b>	<b>Year and Season</b>	: <b>Rabi - 2024-25</b>
	<b>(A) Experimental Detail</b>	:
	<b>(a) Design</b>	: RBD
	<b>(b) Replication</b>	: 3
	<b>(c) Treatments</b>	: 6+4 (C) = 10
	<b>(d) Spacing</b>	: 90 x 45 cm
	<b>(e) Plot size</b>	: 1.8 x 3.6 m

**Table : 1 Fruit yield**

Sr. No.	Entries	Fruit Yield (q/ha)	Fruit Yield / Plot (kg)	% increase over check			
				GT 6 (C)	GT 7 (C)	DVRT 2 (NC)	Kashi Aman (NC)
1	NTL-24-01	307.36	19.92	13.47	8.07	13.66	8.16
2	NTL -24-02	327.57	21.23	20.93	15.18	21.13	15.28
3	NTL-24-03	240.38	15.58				
4	NTL-23-02	251.13	16.27				
5	NTL-23-03	293.88	19.04	8.49	3.33	8.68	3.42
6	NTL 23-04	269.70	17.48				
7	GT – 6 (C)	270.88	17.55				
8	GT- 7 (C)	284.41	18.43				
9	DVRT – 2 (NC)	270.42	17.52				
10	Kashi Aman (NC)	284.16	18.41				
	<b>S.Em. ±</b>	14.88	0.96				
	<b>C.D. at 5 %</b>	44.20	2.86				
	<b>CV %</b>	9.20					

**Conclusion:**

The trial comprised of six entries with two state checks *i.e.* GT-6, GT-7 and two national check *i.e.* DVRT-2, Kashi Aman conducted at Navsari during *Rabi*-2024-25. Highest fruit yield was recorded by NTL-24-02 (327.57 q/ha) with 20.93, 15.18, 21.13 and 15.28 per cent higher yield over two state checks GT-6, GT-7 and two national check DVRT-2, Kashi Aman, respectively.

**Table: 2 Ancillary observations:**

Sr. No.	Entries	Plant Height (cm)	Average Fruit			Days to 50% flowering	No. of fruits/plant	No. Branches/plant	TLCV(%)
			Length (cm)	Girth (cm)	Wt. (g)				
1	NTL-24-01	87.67	5.51	10.54	56.28	54.33	20.07	5.60	10.42
2	NTL -24-02	97.70	6.78	12.55	66.43	53.33	22.07	6.47	8.33
3	NTL-24-03	74.40	5.72	10.66	52.62	56.67	17.80	5.40	18.75
4	NTL-23-02	84.02	5.62	10.73	58.65	55.33	16.73	5.67	16.67
5	NTL-23-03	73.67	5.50	12.50	65.73	58.00	17.73	5.53	14.58
6	NTL 23-04	70.20	5.62	10.93	59.54	60.67	16.40	5.80	14.58
7	GT – 6 (C)	85.43	5.60	10.94	63.27	59.33	15.87	5.47	18.75
8	GT- 7 (C)	93.67	6.18	11.48	61.29	55.33	18.20	6.27	12.50
9	DVRT – 2 (NC)	87.07	5.95	9.86	57.17	56.00	17.20	5.47	16.67
10	Kashi Aman (NC)	82.97	5.75	10.09	59.38	56.00	17.33	5.40	18.75
1	NTL-24-01	87.67	5.51	10.54	56.28	54.33	20.07	5.60	10.42