

## Experiment:

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1. Title of the experiment : **LSVT on Sponge gourd**
  2. Location : Regional Horticultural Research Station,  
ASPEE College of Horticulture,  
Navsari Agricultural University, Navsari
  3. Agro-ecological situation : South Gujarat Heavy Rainfall Zone, AES – III
  4. Year and Season : *Late Kharif – 2025*
  5. Principal Investigator : Dr J.M.Vashi
- Co- Investigators : Dr. A.I.Patel and Dr. D.R.Bhanderi
6. Experimental Details :
    - (a) Design : RBD
    - (b) Replication : 3
    - (c) Treatments : 8+2 (C) = 10
    - (d) Spacing : 150 x 100 cm
    - (e) Plot size : 3.0 x 5.0 m

**Table 1: Fruit Yield (q/ha)**

| Sr.No. | Entries           | Replications |        |        | Total           | Mean Fruit Yield (q/ha) | % increase over best check Anand Mrudula (C) |
|--------|-------------------|--------------|--------|--------|-----------------|-------------------------|--|
|        |                   | I            | II     | III    |                 |                         |  |
| 1      | ASGS 21-12        | 138.87       | 165.68 | 142.78 | 447.33          | 149.11                  | 21.16  |
| 2      | ASGS 21-05        | 140.20       | 124.67 | 133.06 | 397.92          | 132.64                  |  |
| 3      | ASGS 22-01        | 137.53       | 119.47 | 132.18 | 389.18          | 129.73                  |  |
| 4      | ASGS 22-02        | 106.13       | 119.33 | 95.33  | 320.80          | 106.93                  |  |
| 5      | JSG 20-06         | 79.27        | 117.33 | 88.67  | 285.27          | 95.09                   |  |
| 6      | JSG 21-01         | 101.20       | 108.67 | 93.33  | 303.20          | 101.07                  |  |
| 7      | JSG 21-04         | 119.62       | 104.40 | 108.87 | 332.88          | 110.96                  |  |
| 8      | JSG 22-11         | 92.80        | 105.60 | 126.40 | 324.80          | 108.27                  |  |
| 9      | Anand Mrudula (C) | 124.67       | 135.33 | 109.20 | 369.20          | 123.07                  |  |
| 10     | Pusa Chickni (NC) | 136.27       | 104.67 | 112.67 | 353.60          | 117.87                  |  |
|        |                   |              |        |        | <b>S.Em.±</b>   | 7.81                    |  |
|        |                   |              |        |        | <b>CD at 5%</b> | 23.19                   |  |
|        |                   |              |        |        | <b>CV%</b>      | 11.51                   |  |

**Conclusion:**

This trial was comprised of ten entries including two checks conducted at vegetable research farm during Late kharif-2025. Analysis showed significant results among entries for this trait (Table-1). The highest yield was recorded by entry ASGS 21-12 ( 149.11 q/ha) which is 21.16 percentage increase over Anand Mrudula.

**Table 2: Ancillary observations**

| Sr.No. | Entries              | Days to 50 %<br>flowering |            | No.of<br>fruit<br>per<br>plant | Average fruit  |               |               | Mosaic<br>(%) |
|--------|----------------------|---------------------------|------------|--------------------------------|----------------|---------------|---------------|---------------|
|        |                      | Male                      | Female     |                                | Length<br>(cm) | Girth<br>(cm) | Weight<br>(g) |               |
|        |                      | 1                         | ASGS 21-12 |                                | 41.00          | 45.67         | 20.47         |               |
| 2      | ASGS 21-05           | 39.00                     | 44.00      | 16.27                          | 26.69          | 11.25         | 122.73        | 3.00          |
| 3      | ASGS 22-01           | 42.67                     | 47.00      | 15.13                          | 24.63          | 10.92         | 137.53        | 3.67          |
| 4      | ASGS 22-02           | 41.67                     | 45.33      | 14.00                          | 28.37          | 10.78         | 126.67        | 3.33          |
| 5      | JSG 20-06            | 43.33                     | 45.33      | 14.07                          | 23.25          | 11.16         | 104.00        | 3.33          |
| 6      | JSG 21-01            | 43.00                     | 46.00      | 15.60                          | 25.92          | 12.26         | 109.20        | 3.67          |
| 7      | JSG 21-04            | 40.67                     | 45.00      | 15.13                          | 20.57          | 11.19         | 120.80        | 3.00          |
| 8      | JSG 22-11            | 42.33                     | 46.67      | 15.60                          | 20.90          | 9.98          | 114.00        | 3.00          |
| 9      | Anand<br>Mrudula (C) | 41.33                     | 44.67      | 17.20                          | 19.89          | 10.79         | 120.80        | 3.67          |
| 10     | Pusa Chickni<br>(NC) | 41.67                     | 44.00      | 16.20                          | 21.41          | 10.98         | 117.20        | 3.00          |