

Achievements in last five years (Crop Improvement)

2016 – GNR-5

- Long slender

2017 – GNR-7

- Super fine grain (MS)

2018 – GR-15

- Long bold (Biofortified)

2020 – GR-19 (Auranga)

- Short bold

**“SADVICHAR
PARIWAR
AWARD” by
GAAS in 2019**

Recently released variety GR-19 (Auranga)



Other recommended varieties for the farmers of AES-IV

SN	Crop	Recommended Variety
1.	Paddy	SLR 51214, Dandi, NAUR-1, GNR-2
2.	Wheat	GW-273, GW-496 and Lok-1
3.	Cotton	G. Cot Hy. 8
4.	Castor	GCH-4
5.	Other crops	Barely (RDC 552), Ber (vr. Gola), Brinjal (vr. Surati Ravaiya)

Achievements in last five years (Improved Agro techniques)

2016 – 3 Recommendations

- Effect of land configuration and INM in Sorghum (*Rabi*),
- Effect of Irrigation and Date of sowing on production of Salicornia,
- Effect of manuring in Garlic (*Rabi*)

2017 – 2 Recommendations

- Effect of irrigation and variety on fodder Sugar beet,
- Evaluating effect of enriched banana pseudostem sap (foliar spray) on Cotton

2018 – 2 Recommendations

- Study the N and K requirement of Beet root (*Rabi*) grown,
- Response of *Bt.* Cotton to INM

2019 – 1 Recommendation

- Effect of gypsum and INM on *kharif* rice and their residual effect on succeeding onion

Effect of irrigation and mulching on productivity of Brijnal under coastal salt affected soils



Major achievements (Soil improvement)

Chemical method

- Application of gypsum @75% GR + FYM or bio-compost was found effective

Biological method

- Trees: *Casurina equisetifolia*, *Acacia auriculiformis* and *Prosopis juliflora*
- Grass: Gutton panic cultivation for two years reclaim the salt affected soil
- Green manure: Growing of dhaincha as green manure prior to kharif paddy also improve physical and chemical properties in addition to 20 % saving in fertilizer N.
- Crop residues: Incorporation of wheat straw before kharif paddy and paddy straw before wheat improved yields of both the crops along with soil health.

**“SARDAR PATEL
AGRICULTURAL
RESEARCH
AWARD” in
1996-97
(Runner up)**

Gatton panic grass



Bioreclamation with Gatton panic grass



Unreclaimed Soil
(pH 9.43, EC 4.37 dS/m)



Bioreclaimed Soil (gatton panic)
(pH 8.00, EC 2.25 dS/m)

Identification of New Crop

Sr. No.	Crop	Variety	Yield obtained (kg./ha.)
1	Cotton (rainfed)	G cot-8	800-1000
2	Wheat	GW-273, GW-496 and Lok-1	3000-4000
3	Castor	GCH-4	2500-3000
4	Ber	Gola	7000-8000
5	Barley	RD-2552	4000-4500
6	Brinjal	Suarati Ravaiya	25000-50000
7	Gatton Panic	-	40000-50000