Department of Seed Science and Technology

Recommendations

Farming Community

Chick pea

The farmers cultivating chickpea varieties GG-1 and GJG-3 are advised for priming of seeds with KNO3 100 ppm solution (100 mg in 1000 ml water) for eight4hours, followed by shade drying before sowing for maximum germination per cent and seedling vigour.

ચણાની ખેતી કરતાં ખેડૂતો માટે ચણાની જાત જીજી-૧ અને જીજેજી-૩ ના બીજમાં અંકુરણ વધારવા તથા છોડના તંદુરસ્ત વિકાસ માટે બીજ માવજત તરીકે બીજાને પોટેશિયમ નાઇટ્રેટ $KNO_3$૧૦૦ પી.પી.એમ. (૧૦૦ મિલી ગ્રામ/ ૧ લિ) દ્રાવણમાં વાવણી પહેલા ૮ કલાક પલાળી છાયડામાં સુકવીને વાવેતર કરવાની ભલામણ કરવામાં આવે છે.

Bottle Gourd

Bottle gourd hybrid seed producer/farmers of middle Gujarat agro-climatic zone are recommended to follow trailing method for hybrid seed production to get higher seed yield and net profit per hectare with better seed germination and vigour during *kharif* season.

મધ્ય ગુજરાતનાં કૃષિ આબોહવાકિય વિસ્તાર માં દુધીના પાકમાં સંકર બીજ ઉત્પાદન કરતાં ઉત્પાદકો/ખેડૂતોને ભલામણ કરવામાં આવે છે કે દુધીના પાકમાં માંડવા પધ્ધતિ અનુસરતા ખરીફ ઋતુમાં સંકર બીજ ઉત્પાદન અને ચોખ્ખુ વળતર પ્રતિ હેક્ટર વધુ મળે છે સાથે બીજમાં અંકુરણ ક્ષમતા અને જુસ્સો વધુ જળવાઇ રહે છે .

Scientific recommendation

Green Gram

It is recommended that seeds should be treated with imidacloprid 48% FS @2.5 ml/kg seeds, thiram 75% WS @ 3g/kg seed and polymer seed coating @5 ml/kg seeds followed by storage in polythene bag (700 gauge) or Double lined poly bags or Non-woven bag for retaining higher seed germination percent in Green Gram seeds at the end of nine months of storage period.

Senna

It is recommended that seeds of Senna (*Senna alexandrina* Mill) should be mechanically scarified for 2 to 3 minutes followed by seed priming treatment with Bio NPK (5ml/kg seeds) for getting higher seed germination percent and seedling vigour.

Okra

It is recommended that seed producer of Gujarat Anand Okra 8 (Anand Komal) should harvest the okra fruits at 60-65 days after fruit formation with 20 number of fruits retention per plant for higher germination (as per Indian minimum seed certification standards) and higher seed yield under the middle Gujarat condition.

Departmental AGRESCO Approved Research Project

Sr. No	Research Project Title	Approved Year	Sponsored	Status
1.	Effect of seed priming treatment in cumin	**2013-14**	AAU, Anand	**Concluded**
2.	Effect of seed priming treatment in chickpea	**2013-14**	AAU, Anand	**Concluded**
3.	Identification of genes related to artificially aged seeds in maize	**2013-14**	AAU, Anand	**Concluded**
4.	Effect of accelerated aging on seed vigour viability and oil quality of soybean	**2015-16**	AAU, Anand	**Concluded**
5.	Seed viability and vigour studies of different genotypes of desi cotton (*Gossypium herbaceum***)**	**2016-17**	AAU, Anand	**Concluded**
6.	Effect of growing methods on seed yield and quality in Bottle gourd [Lagenaria siceraria (Molina) Standl] GABGH-1	**2017-18**	AAU, Anand	**Concluded**
7.	Study on the effect of storage container, polymer film coating, fungicide and insecticides on storability of green gram.	**2017-18**	AAU, Anand	**Concluded**
8.	Effect of different scarification and biofertilizer treatments on seed quality enhancement in Senna (*Cassia angustifolia* Vahl.)	**2020-21**	AAU, Anand	**Concluded**
9.	Effect of number of fruit retention and days to fruit maturity on seed yield and quality parameters of okra	**2022-23**	AAU, Anand	**Concluded**
10.	Studies on germination and seedling vigour of summer groundnut seeds stored under different packaging materials	**2022-23**	AAU, Anand	**Concluded**
11.	Effect of pre-sowing seed treatments on seedling establishment, growth and yield of direct seeded rice under middle Gujarat conditions	**2022-23**	AAU, Anand	**Ongoing**
12.	Influence of different seed treatments on seed germination and vigour parameter in Holy Basil (*Ocimum tenuiflorum* L.)	**2023-24**	AAU, Anand	**Ongoing**