

# Technology Developed

## ✚ Recommendations

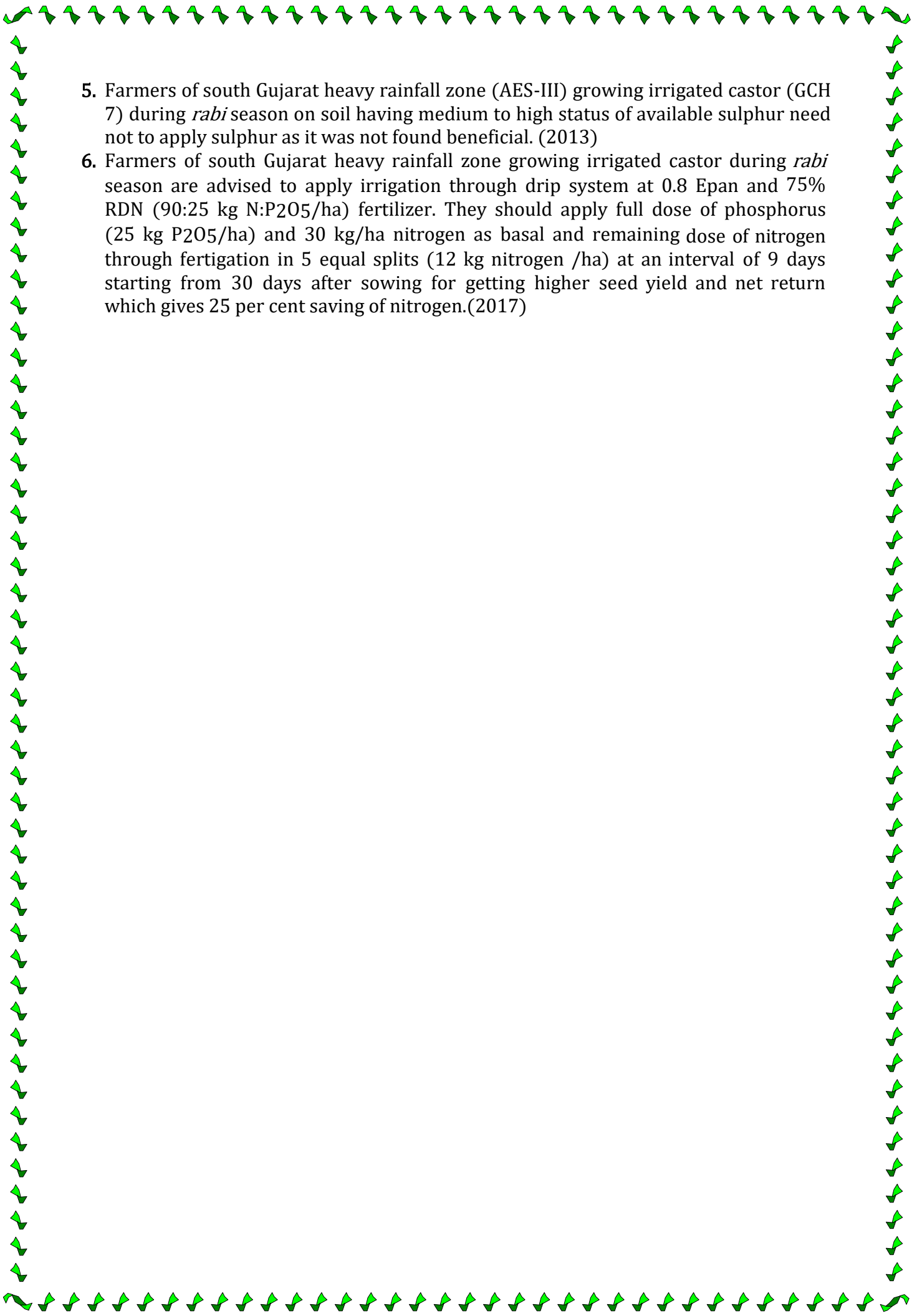
### A. Pulses recommendations for farmer

1. Farmers of South Gujarat Heavy Rainfall Agro climatic Zone(AES-III), growing greengram (Co 4) during *rabi* season, are recommended to sow the crop at 45 cm x 10 cm spacing and apply 20-40 kg NP/ha as basal for getting higher yield and net return. (2016)
2. Farmers of south Gujarat heavy rainfall zone (AES-III), growing pigeon pea cv. GT 102 during *rabi* seasons are advised to sow the crop at 60 cm x 20 cm spacing and applied recommended dose of fertilizers i.e. 25:50:00 N:P2O5:K2O kg/ha as basal dose for getting higher yield and net return. (2017)
3. Farmers of south Gujarat heavy rainfall zone (AES-III), growing vegetable Indian bean variety GNIB 21, are advised to apply 4 irrigation of 50 mm depth at sowing, branching, flowering and after first picking, and 40 kg N/ha as basal dose for achieving profitable yield. (2017)

**Note:-** Information of variety is in the achievement part.

### B. Castor recommendations for farmer

1. The proposed castor hybrid NCH-1 yielded 2444 kg/ha resulting 21.2%, 46.2% and 44.5% higher seed yield than hybrid checks GCH-7, DCH-519 and DCH-177, respectively. The hybrid NCH-1 having medium plant height and long primary as well as secondary spikes. The hybrid is resistant to wilt disease and tolerant to various larval and sucking pest of castor. The hybrid GNCH-1 is recommended for late-*kharif* and *rabi* season in South and Middle Gujarat in irrigated conditions under rice based cropping system. (2015)
2. Farmers of south Gujarat heavy rainfall zone (AES-III) growing irrigated castor (GCH-7) during *rabi* season are advised to follow recommended practices of weed management, fertilizer application and need based plant protection to achieve higher yield and net profit. However, under the situations of resource constraints, the resources should be prioritized in order of 'Weed management > Fertilizer application > Plant protection. (2013)
3. Farmers of south Gujarat heavy rainfall zone (AES-III) growing irrigated castor (GCH-7) during *rabi* season are advised to sow the crop at 120 cm x 90 cm spacing. (2013)
4. Farmers of south Gujarat heavy rainfall zone (AES-III) growing irrigated castor (GCH 7) during *rabi* season are advised to apply 120 kg N/ha in three equal splits for achieving higher seed yield and economic returns. One-third nitrogen should be applied as basal and remaining at 35-40 and 75-80 DAS. Phosphorous and potassium application should be made on soil test basis. (2013)

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5. Farmers of south Gujarat heavy rainfall zone (AES-III) growing irrigated castor (GCH 7) during *rabi* season on soil having medium to high status of available sulphur need not to apply sulphur as it was not found beneficial. (2013)
  6. Farmers of south Gujarat heavy rainfall zone growing irrigated castor during *rabi* season are advised to apply irrigation through drip system at 0.8 Epan and 75% RDN (90:25 kg N:P<sub>2</sub>O<sub>5</sub>/ha) fertilizer. They should apply full dose of phosphorus (25 kg P<sub>2</sub>O<sub>5</sub>/ha) and 30 kg/ha nitrogen as basal and remaining dose of nitrogen through fertigation in 5 equal splits (12 kg nitrogen /ha) at an interval of 9 days starting from 30 days after sowing for getting higher seed yield and net return which gives 25 per cent saving of nitrogen.(2017)