

## **OBJECTIVES & FUTURE GOAL, WRS, NAU, BARDOLI**

### **Crop Improvement:**

1. Strengthening of genetic resources of wheat which include collection, evaluation, characterization and maintenance of germplasm for making use in future breeding programme.
2. Screening of high temperature tolerance culture of Wheat crop for South Gujarat
3. To develop an early maturing high yielding variety which can be fitted in Rice-Wheat cropping sequences taken after paddy by late sown in irrigated condition of south Gujarat
4. To develop high yielding, Late heat tolerance, Rust disease resistant wheat variety for south Gujarat region
5. Testing of newly developed genotypes under various categories of trials such as PET, SST, LST and AVT in timely and late sowing conditions.
6. Seed production of wheat, gram, moong and rice crops in various classes such as breeder, foundation, certified and T. F. L. of different varieties on large scale to cater the need of farmers and various seed producing agencies.
7. Development of wheat variety having high water and nutrition using efficiency
8. Development of location specific, short duration, heat tolerance, high yielding, biofortified (Zn & Fe rich) wheat varieties

### **Resource Management:**

1. Increase wheat productivity through improved cultural and resource management practices
2. To find out Performance of Rice-Wheat based cropping sequence in presence and absence of Green Manure.
3. To test the response of genotypes to limited irrigations in Wheat
4. To evaluate the Rice-Wheat -Pulses cropping sequence in south Gujarat
5. Agronomical fortification of Zn and Fe in wheat crop
6. Maximized grain yield of wheat by utilizing PGR and bio stimulant (homobrassinolide, novel and novel square, isabion syngeta, ambition bayer, all new products for terminal heat tolerant prevent against pollen sterility)
7. Development of suitable production technologies under conservation agriculture systems (Rice-Wheat by Rice straw mulching and zero tillage, Micro-irrigation in wheat, Bio fertilizer seed treatment azotobactor, PSB, KSB)

### **Extension:**

1. Dissemination of the newly developed varieties and technologies through Front Line Demonstrations.