**PROCEEDING OF ELEVENTH COMBINED JOINT AGRESCO MEETING OF CROP IMPROVEMENT OF STATE AGRICULTURAL UNIVERSITIES OF GUJARAT HELD AT AAU, ANAND DURING 7-9th APRIL, 2015**

**11.1 CROP IMROVEMENT:**

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| **Chairman** | **:** | Dr. A. R. Pathak, Hon. Vice Chancellor, JAU, Junagadh |
| **Co-Chairman** | **:** | Dr. K. B. Kathiria, Director of Research, AAU, Anand  Dr. S. Acharya, Associate Director of Research, SDAU, Sardarkrushinagar |
| **Rapporteurs:** | **:** | Dr. K. L. Dobaria / Dr. M. S. Pithia, JAU, Junagadh  Dr. Akarsh Parihar, AAU, Anand |

The details of recommendations and new technical programmes presented, discussed and approved during the session are as under:

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| --- | --- | --- | --- | --- | --- | --- |
| **Universities** | **Varietal proposals/Recommendations** | | | | **New Technical Programmes** | |
| **Farming Community** | | **Scientific Community** | |
| **Proposed** | **Approved** | **Proposed** | **Approved** | **Proposed** | **Approved** |
| AAU | 06 | 05 | - | - | 05 | 05 |
| JAU | 09 | 08 | - | - | - | - |
| NAU | - | - | - | - | 04 | 02 |
| SDAU | 03 | 02 | 01 | - | 05 | 05 |
| **Total** | **18** | **15** | **01** | **-** | **14** | **12** |

At the outset of this session, Dr. R. S. Fougat, Convener, CISC, AAU, welcomed all the scientists in the 11th Combined Joint AGRESCO meeting and requested the Chairman to conduct the session. Dr. A. R. Pathak, Hon’ble Vice-Chancellor, JAU and the Chairman of 11th Combined Joint AGRESCO meeting in his introductory remarks sensitized the house by emphasizing on the following points to be taken care by the scientists while formulating a variety development programme and release of a variety.

**1**. To gain the faith of farmers and traders in public sector varieties, farmer and market oriented breeding programmes should be initiated. The concerned traders / stake holders and millers may be invited before releasing a variety at the respective research station of the university and their consent should be taken regarding consumers’ preference for a variety. He cited few examples where very popular varieties were released by taking prior opinion of the farmers and allied stake holders such as GR-11 in rice and Lok-1 in wheat.

**2**. The varieties / hybrids released by the private sector companies should also be tested by SAU’s along with university generated material to have proper evaluation and good comparison and popularize university variety among farmers. The modalities for such testing may be set by Director of Research of respective universities.

**3**. The farmer’s innovative practices should be evaluated at university centers. In order to popularize the variety, more number of FLDs (at least 100) should be taken at farmers’ field. The farmers participatory approach in rice, maize and horse gram, is an example of such efforts.

**4**. Sharing of the breeding material must be done among the SAUs of the state.

**5**. In south Gujarat, sapota and mango are harvested together because of which sapota does not get remunerative price. Simply by fertilizer management, some farmers have been successful in manipulating flowering and thereby, harvesting period of sapota. Such farmers’ practices should be noticed and must be adopted by SAUs if found good.

**6**. There is no harm in testing good farmers’ material even directly under LSVTs at SAUs farms.

After briefings of the chairman, the session was followed by presentation of the recommendations for farming community. Dr. R. S. Fougat presented the report of AAU, Anand.

**11.1.1 RECOMMENDATIONS**

**A. FARMING COMMUNITY**

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| --- | --- |
| **ANAND AGRICULTURAL UNIVERSITY** | |
| The proposals were presented by Dr. R. S. Fougat, Convener, AAU, Anand | |
| **11.1.1.1** | **MAIN RICE RESEARCH STATION, AAU, NAWAGAM** |
|  | **Proposal for release of a promising Rice culture IET – 22100 (Mahisagar)** |
|  | The proposed strain was tested in 23 trials conducted over 5 years in 6 locations of Middle and South Gujarat. It has yielded 5000-5500 kg/ha grain yield which is 29.8 and 6.6% higher yield over the checks GR-4 and GR-12, respectively. Further in per day productivity the culture revealed respectively 29.4 & 11.0% superiority over the check varieties GR-4 and GR-12. It possesses more no. of EBT (Effective Bearing Tillers), 8-11; no. of filled grains /panicle, 350-375 and Panicles/Sq. Mt, 289-299, than the check varieties. In quality characteristics, this culture has shown more hulling recovery (HR) i.e. 81.9%, Milling percentage, 71.08% and Head Rice Recovery (HRR), 62.4% than its check varieties. The proposed strain showed resistance against Leaf Blast (LB). Considering yield attributing characteristics and quality parameters, it is recommended for release for cultivation in rice growing areas of the Gujarat State with following suggestions.  **Suggestions:**  1**.**Tables in the proposal should be designated by the numbers and not as statements  2. The range should be checked for grain yield.  3. Stability index should be calculated considering common entries / years as the yield fluctuation is more.  4. The Gurjari should be excluded where as GR 4 and GR 12 should only be used as checks**.**  **(Action: Res. Sci.,Rice, MRRS, AAU, Nawagam)** |
| **11.1.1.2** | **MEDICINAL & AROMATIC PLANTS RESEARCH STATION, AAU, ANAND** |
|  | Proposal for release of Ashwagandha Variety **GUJARAT ANAND ASHWAGANDHA – 1 (GAA-1)** |
|  | The proposed variety is tall (mean height 60 cm) and have dark green foliage with Spad value of 47.50 of Chlorophyll content. The branches possess profusely stellate tomentose. The roots are dark brown in colour and comparatively thick, long and having more girth and root cortex is white in colour and thick. The proposed genotype has yielded 659 kg/ha dry root yield, which is 43.89 and 39.62 % higher than the national check RVA 100 and JA 20 (Three years mean), respectively under state trials. Under coordinated trials it has produced 18.48, 39.96 and 21.40 % higher dry root yield than the RVA 100, JA 20 and JA 134, (Checks), respectively. During five years of experimentation the proposed genotype AWS 1 has recorded 652 kg/ha dry root yield which is 32.79 and 39.91 % higher over RVA 100 and JA 20 respectively. Therefore, it is recommended for release in middle Gujarat.  **Suggestions:**  **1.** Ashwagandha being a self pollinated crop, the isolation distance should be written accordingly.  **2.** Check statistical analysis for disease / pest data.  **3.** Photograph must be as per the actual samples  **4.** The data of withanoloide content for year 2007-08 should be excluded.  **5.** The season rabi should be written instead of kharif / rabi.  **(Action: Res. Sci., M & AP Research Station, AAU, Anand)** |
| **11.1.1.3** | **MEDICINAL & AROMATIC PLANTS RESEARCH STATION, AAU, ANAND** |
|  | Proposal for release of *Aloe vera* Variety **GUJARAT ANAND KUVARPATHU – 1 (GAK-1)** |
|  | The proposed genotype was procured from DMAPR, Boriavi with IC No. 285626 during 2009 and was maintained and improved through Clonal selection. The proposed culture possesses more number of leaves (13.45), leaf length (53.78 cm), leaf width (8.48 cm) and more thickness (2.25 cm) and thereby giving higher leaf yield.GAK 1 yielded 114.13 t/ha fresh leaf yield which is 44.72 and 22.27% higher than Check 1 (Anand local) and check 2 (Kutch Selection) respectively. This genotype is also found superior for mucilage yield and dry exude content. It has yielded 66.25 t/ha mucilage which is 52.09 and 30.88 % higher than Check 1 and check 2 respectively. In want of one more year data, the proposal was deferred and considered as pre-release with following suggestions.  **Suggestions:**  **1.** The method used in development of this variety should be mentioned as “introduction” and not as “clonal selection”.  **2.** Proposal must be considered as pre-release and trial for one more year should be conducted at Anand, Nenpur / sonsoli  **3.** Table No-3 may be deleted and data of ‘Aloin-A’ content should be included as point number 9 in description of proposed variety.  **(Action: Res. Sci., M & AP Research Station, AAU, Anand)** |
| **11.1.1.4** | **REGIONAL COTTON RESEARCH STATION, AAU, VIRAMGAM** |
|  | Proposal for release of Desi Cotton Variety **GUJARAT ANAND DESI COTTON – 2 (GADC-2)** |
|  | The proposed variety Gujarat Anand Desi Cotton-2 was tested in rainfed conditions at 13 different locations and yields higher seed cotton than check varieties. The average seed cotton yield was 1640 kg/ha, which was an advantage of 39.9, 10.5, 5.8 and 2.8 per cent over V 797, G Cot 13, G Cot 21 and ADC 1, respectively. It gave 777 kg/ha lint yield which is 50.6, 17.7, 8.6 and 8.7 per cent higher than check varieties V 797, G Cot 13, G cot 21 and ADC 1, respectively. The fibre qualities i.e. 2.5 % Span length of 24.16 mm and fibre strength of 19.26 g/tex of Gvhv 655 reflects to higher market value than cultivated desi cotton varieties whereas, G Cot 21 recorded 22.45 mm SL and 17.24 g/tex strength. It shows superiority in fibre quality over cultivar G Cot 21.As far as Ginning out turn is concerned, Gvhv 655 had recorded average GOT of 45.4 %, whereas, G Cot 21 recorded 44.2 %. Two checks G Cot 21 and ADC 1 had produced average coarse fibre but Gvhv 655 had average/medium micronaire value of 4.88. Therefore, the proposed variety is recommended for desi cotton growing areas of north-west agro-climatic zone V and Bhal & Coastal Zone VIII. The variety is accepted for the release with following suggestions.  **Suggestions:**   1. It should be mentioned that AICRP does not conduct the trial on desi cotton; hence it was not evaluated under AICRP.   **(Action:Asso. Res. Sci., RCRS, AAU, Viramgam)** |
| **11.1.1.5** | **PULSES RESEARCH STATION, AAU, VADODARA** |
|  | Proposal for release of Green Gram Variety **GUJARAT ANAND MUNGBEAN – 5 (GAM-5)** |
|  | The genotype VMS 6 was developed by pure line selection from germplasm maintained at Vadodara. This genotype yielded 1890 kg/ha grain yield which is 34.84 and 16.19 per cent higher over the check varieties GM 4 and Meha, respectively, at Vadodara under three testing. At Navsari, this genotype produced 2382 kg/ha grain yield which is significantly higher to the tune of 84.08 and 25.10 per cent during summer 2014 over both the checks GM-4 and Meha, respectively. Moreover, the entry poised at par with the check varieties GM-4 and Meha at Junagadh and Sardarkrushinagar during 2014.It has average yield under Middle Gujarat condition to the tune of 1890 kg/ha. The genotype has bold seed size with more seeds per pod, attractive shiny grain appearance and less stony seeds. The proposed genotype had very low disease intensity MYMV (4.1%) as compared to the check GM 4 (66.8 %).The population of whitefly (0.44 per leaf) and Pod borer damage (7.77%) was lower as compared to the check GM 4. It is recommended for release in Gujarat for summer cultivation with following suggestions.  **Suggestions:**  **1.** Add name of contributing scientists from other centers.  **2.** Selection pressure of YVM should be maintained in future so as to sustain the resistance.  **3.** Proposal should be recasted by considering data of all the centres and the variety may be released for whole Gujarat.  **(Action: Res. Sci., Pulses Res. Station, AAU, Vadodara)** |
| **11.1.1.6** | **CASTOR &SEED SPICES RESEARCH STATION, AAU, SANAND** |
|  | Proposal for release of Dill Seed Variety **GUJARAT ANAND DILL SEED – 1 (GAD-1)** |
|  | The genotype yielded 1561 kg/ha seed yield, which is 15.53 % higher over check variety GD-3 under rainfed condition whereas it yielded 1885 kg/ha seed yield which is 12.02 % higher over check variety GD-3 under irrigated condition. It is 10 days early in maturity (av. 133 days) as compared to GD-3 (143 days). The seeds are less flattened and medium in size. The genotype has more number of umbels (12.1-51.4), more number of umbellets/umbels (21.5-50.1), number of seeds/umbellets (22.0-32.7) and shorter plant height (73-127cm) compared to check variety. Looking to above characteristics, it is recommended for release in north and middle Gujarat with following suggestions.  **Suggestions:**   1. The objective should be reframed mentioning yield. The data for disease / pest must be added in the proposal.   **(Action:Asstt. Res. Sci., Castor & Seed Spices Res. Station, AAU, Sanand)** |
| **JUNAGADH AGRICULTURAL UNIVERSITY** | |
| The proposals were presented by Dr. L. K. Dhaduk, Convener, JAU, Junagadh. | |
| **11.1.1.7** | **Pulses Research Station, JAU, Junagadh** |
|  | Proposal for release of a promising chickpea variety **Gujarat Junagadh Gram 6 (GJG 1003)** |
|  | This variety has produced (1867 kg/ha) 13.6, 21.9 and 5.2 per cent higher seed yield over check varieties Gujarat Gram 1 (1643 kg/ha), Gujarat Gram 2 (1531 kg/ha) and Gujarat Junagadh Gram 3 (1775 kg/ha), respectively. Seeds of this variety are of medium size and dark brown in colour with 19.9 % protein. This variety is resistant to wilt (8.7 %) and Stunt (5.0 %) diseases. It is recommended for release in Gujarat under rainfed conditions with following suggestions.  **Suggestions:**  **1.** Sick plot condition should be mentioned in wilt data.  **(Action: Res. Sci., Chickpea JAU, Junagadh)** |
| **11.1.1.8** | **Vegetable Research Station, JAU, Junagadh** |
|  | Proposal for release of a promising brinjal variety **Gujarat Junagadh Brinjal 4 (JBL-08-8)** |
|  | This variety had recorded a mean fruit yield of 396.03 q/ha which was 30.81 and 25.83 per cent higher over check varieties GOB-1(302.75 q/ha) and GBL-1 (314.73q/ha), respectively. The little leaf disease (5.08 %) was less as compared to check variety GOB-1(6.15%). Jassid (3.04/leaf), whitefly (4.70/leaf) and fruit borer (11.05 %) were less as compared to check variety GOB-1 (12.43%). The protein (1.51 %) and total soluble sugar (3.36 %) were also more than check varieties. The fruits of GJB-4 are medium in size with long shape and light purple colour with good shining. It is recommended for release in Gujarat with following suggestions.  **Suggestion:**  **1.** Name of the variety should be kept as GJLB-4 (Gujarat Junagadh Long Brinjal-4)  **(Action: Res. Sci.- G &O, JAU, Junagadh)** |
| **11.1.1.9** | **Vegetable Research Station, JAU, Junagadh** |
|  | Proposal for release of a promising brinjal hybrid **Gujarat Junagadh Brinjal Hybrid 3 (JBH-07-1)** |
|  | This hybrid gave a mean fruit yield of 428.01 q/ha which was 14.11 and 25.68 per cent higher over hybrid checks GBH-2 (375.08 q/ha) and ABH-1 (340.57 q/ha), respectively. It has recorded 6.63 and 7.66 per cent higher fruit yield than the private hybrids Navina (VNR Seeds) and ARBH-201 (Ankur Seeds), respectively. The little leaf disease (4.42%) was less as compared to check variety GBH-2 (4.98%). The damage due to jassid (2.84/leaf), whitefly (3.93/leaf) and fruit borer (4.93 %) were less as compared to hybrid checks. The protein (1.48 %) and total soluble sugar (3.33 %) were more as compared to hybrid checks. The fruits of this hybrid are medium in size with oblong shape and pink purple colour with good shine. It is recommended for release in Saurashtra and Middle Gujarat.  **Suggestion:** Accepted. Name of the variety should be kept as GJBH-4 (Gujarat Junagadh Brinjal Hybrid-4)  **(Action: Res. Sci.- G &O, JAU, Junagadh)** |
| **11.1.1.10** | **Vegetable Research Station, JAU, Junagadh** |
|  | Proposal for release of a promising Sponge gourd variety **Gujarat Junagadh Sponge Gourd 2 (JSG-05-04)** |
|  | This variety had recorded a mean fruit yield of 114.04 q/ha, which was 18.05 and 19.18 per cent higher than state check variety GSG-1 (96.60 q/ha) and National check variety Pusa Chikni (95.69 q/ha). Further, mosaic (8.25 %),downy mildew score (1.46), fruit fly damage (12.86 %) and leaf miner larvae (5.61/leaf) were less as compared to check varieties. The pulp/skin ratio (12.393), total soluble solids (6.25 %), total soluble sugar (1.67 %), protein (0.218 %) and chlorophyll total (1.53 mg/g) were more as compared to check varieties. The fruits of GJSG-2 are long in size, green colour with good shine. It is recommended for release in Gujarat with following suggestions.  **Suggestions:**   1. The character male / female ratio should be deleted. 2. Correct SEm in Table-1 for the year 2009-10   **(Action: Res. Sci.-G & O, JAU, Junagadh)** |
| **11.1.1.11** | **Vegetable Research Station, JAU, Junagadh** |
|  | Proposal for release of a promising onion variety **Gujarat Junagadh Red Onion 11 (JDRO-07-13)** |
|  | This variety had recorded a mean bulb yield of 323.55 q/ha which was 21.57, 18.71 and 15.41 per cent higher over check varieties AGFL-Red (266.15 q/ha), Pilli Patti (272.55 q/ha) and Talaja-Red (280.34 q/ha), respectively. The purple bloch (12.67 %) was less as compared to check varieties AGFL-Red (20.30%), Pilli Patti (23.56%) and Talaja-Red (24.28%). Population of thrips (5.7/leaf) was found less as compared to check varieties. It was found less pungent (Pyruvic acid: 1.22 %) as compared to check varieties AGFL-Red and Talaja-Red. In this variety, 12.94 per cent total soluble solids were recorded. The bulbs of GJRO-11 are medium in size with flat globe shape and red in colour.  It is recommended for release in Gujarat (except south Gujarat) with following suggestion.  **Suggestion:**   1. This variety should be tested for one more year at Navsari.   **(Action: Res. Sci.-G & O, JAU, Junagadh)** |
| **11.1.1.12** | **Vegetable Research Station, JAU, Junagadh** |
|  | Proposal for release of a promising onion variety **Gujarat Junagadh White Onion 2 (JWO-05-7)** |
|  | This variety was deferred by the house with following suggestions  **Suggestions:**   1. The trial should be conducted for one more year. 2. The proposed variety should be compared with GAWO-2 3. Industrial preference should be taken for dehydration.   **(Action: Res. Sci.,G & O, JAU, Junagadh)** |
| **11.1.1.13** | **Vegetable Research Station, JAU, Junagadh** |
|  | Proposal for release of a promising okra hybrid **Gujarat Junagadh Okra Hybrid 4 (JOH-08-19)** |
|  | This hybrid recorded a mean fruit yield of 135.94 q/ha, which was 46.91 per cent higher over check variety Pusa Sawani (92.50 q/ha) while with hybrid check the GJOH-4 recorded 145.74 q/ha fruit yield which was 23.86 per cent higher than GJOH-3 (117.67q/ha). It also yielded 17.11, 28.04 and 30.69 per cent higher yield over one private check HOK-152 and two public sector checks Arka Anamika and Pusa Sawani, respectively. The yellow vain mosaic (36.71%) was found less as compared to check variety Gujarat Okra Hybrid-2 (46.15 %). The jassid (5.26), thrips (4.79), whitefly (4.76) and fruit borer (4.66 %) damage were less than check varieties. The pods of this hybrid are medium dark green, tender, long and attractive. It is recommended for release in Gujarat with following suggestion.  **Suggestion:**   1. This hybrid should be given to KVK of south Gujarat to grow at farmers’ field for popularization.   **(Action: Res. Sci.-G & O, JAU, Junagadh)** |
| **11.1.1.14** | **Agricultural Research Station, JAU, Amreli** |
|  | Proposal for release of a promising sesame variety **Gujarat Junagadh Til 5 (AT 231)** |
|  | This variety recorded the seed yield of 1241 kg/ha which was 22.39 % higher than the check variety Gujarat Til 3 (1014 kg/ha). Oil yield of proposed variety was 22.22 % higher than Gujarat Til 3. Proposed variety matured in 91 days and contains 46.98 per cent oil in its seeds, which are white in colour and bolder in size. This variety was approved by the house for cultivation in summer season.  **Suggestion:**   1. The table 7, 8, 9 should be removed for submission of proposal to GSSSC.   **(Action: Res. Sci.-Oilseeds, JAU, Amreli)** |
| **11.1.1.15** | **Pulses Research Station, JAU, Junagadh** |
|  | Proposal for release of a promising pigeonpea variety **Gujarat Junagadh Pigeonpea (GJP 0901) - area expansion.** |
|  | This variety has produced (2115, 2045 & 1987 kg/ha) 38.78, 10.06 and 27.62 per cent higher seed yield over check varieties, BDN 2 (1524 kg/ha), ICPL 87119 (1858 kg/ha) and Vaishali (1557 kg/ha), respectively. This variety is medium late (176 days) in maturity. GJP 1 is also found moderately resistant to wilt (13.89 %) and SMD (13.89 %) disease. The seeds of this variety are bold in size with white colour. This variety is recommended for Gujarat state.  **(Action: Res. Sci.,Chickpea, JAU, Junagadh)** |
| **NAVSARI AGRICULTURAL UNIVERSITY, NAVSARI** | |
| **There was no release proposal from Navsari.** | |
| **S.D. AGRICULTURAL UNIVERSITY, Sardarkrushinagar** | |
| The proposals were presented by Dr. Y. Ravindra Babu, Convener, SDAU, Sardarkrushinagar | |
| **11.1.1.16** | **Centre of Excellence For Research On Wheat, S. D. Agricultural University, Vijapur, Dist. Mehsana** |
|  | Proposal for release of wheat variety **GDW *(Aestivum)* 451(GW 451)** |
|  | The variety GDW (*Aestivum)* 451 (GW 451) proposed for whole Gujarat under irrigated and timely sown conditions. The Proposed variety has attractive compact plant type with good tillers and gave 53. 92 q/ha grain yield which is 17.05, 9.12, 8.77 and 2.87 per cent higher than checks GW 496, GW 366, LOK 1 and GW 322 respectively. The variety showed resistant to black and brown rust with good grain quality for high iron (40 ppm) and zinc (28 ppm) content. The proposal was accepted with following suggestions.  **Suggestions:**  1. The name of the variety should be as per norms of SAUs *i.e.,* GW-451  2. The Table-5 should be deleted from the proposal  3. Important yield contributing traits should be given in the proposal.  **[Action: Research Scientist (Wheat), SDAU, Vijapur]** |
| **11.1.1.17** | **Centre of Excellence For Research On Pulses, S. D. Agricultural University, Sardarkrushinagar** |
|  | Proposal for release of cowpea variety **GDC 6 (GC 521)** |
|  | The proposal was deferred for want of one year more data and considered as pre-release with following suggestions.  **Suggestions:**  1. The name of the variety should be GC-6 instead of GDC-6 and trial should be conducted for one more year at three locations.  2. The type of the data presented i.e. LSVT/SSVT should be given in the proper defined Performa.  3. Ancillary and disease and pest data should be incorporated.  **[Action : Research Scientist (Pulses), SDAU, sardarkrushinagar]** |
| **11.1.1.18** | **Centre For Research On Seed Spices, S. D. Agricultural University, Jagudan** |
|  | Proposal for release of ajwain variety **GDA 2 (JA-110)** |
|  | The proposed variety recorded an average seed yield of 1134 kg/ha, which was 14.55 per cent higher than GA-1. The seeds of GDA-2 are bold and uniform in size with attractive color, hot pungency and fast aroma. The essential oil content in seed was 4.6 per cent and thymol in volatile oil was 30.84 per cent which are 6.98 and 10.98 per cent higher than GA-1, respectively. The proposal was accepted for ajwain growing areas of Gujarat.  **Suggestions:**  1. The Table-1 should be modified by deleting data of trials average and state average as well.  2. The Table-4 should be deleted and situation / (incidence) of diseases and pests should be mentioned in text form.  3. The name of the variety should be GA 2 instead of GDA 2.  **[Action: Research Scientist (Spices), SDAU, Jagudan]** |
| **B. Scientific Community** | |
| **NAVSARI AGRICULTURAL UNIVERSITY, NAVSARI** | |
| **Dr.M.R.Naik**, Convener, Crop improvement Sub-Committee of NAU presented 5 scientific recommendations related to diseases and pests as approved in Plant Protection Sub-Committee of NAU for the information of the house. | |
| **S.D.Agricultural University, Sardarkrushinagar** | |
| **11.1.1.19** | **CIL, S. D. Agricultural University, Sardarkrushinagar** |
|  | Differential staining for easy, rapid and cost effective method for identification of high iron and zinc concentrations in wheat flour. |
| Recommendation was not accepted as it was never presented and approved as new technical programme in any of the AGRESCO committee meeting of SDAU.  **(Action: Assistant Research Scientist, CIL, SDAU, Sardarkrushinagar)** |

**11.1.2 NEW TECHNICAL PROGRAMME**

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| --- | --- | --- | --- | --- |
| **Sr. No.** | **Title** | | **Suggestions** | **Remarks** |
| **Anand Agricultural University, Anand** | | | | |
| **Genetics & Plant Breeding Department, BACA, AAU, Anand** | | | | |
| 11.1.2.1 | Morphological and molecular characterization of Soybean (*Glycine max* L. Merrill.) genotypes. | | Approved with following suggestion/s  1. At least 30-40 genotypes should be tested in study.  2. Protein, oil and other quality parameters should be estimated.  **(Action: Prof. & Head, Dept. of Genetics & Pl. Breeding, BACA, AAU, Anand)** | - |
| **Seed Science & Technology Department, BACA, AAU, Anand** | | | | |
| 11.1.2.2 | Effect of accelerated aging on seed viability, vigour and oil quality of different genotypes of Soybean. | | Approved with following suggestion/s  1. Variety GS-2 should be added.  2. Should be evaluated for seed borne pathogens.  3. Alpha-amylase activity should be recorded.  **(Action: Prof. & Head, Dept. of Seed Science & Technology, BACA, AAU, Anand)** | - |
| 11.1.2.3 | Effect of seed pelleting and storage environment on seed viability and vigour in Onion | | Approved  **(Action: Prof. & Head, Dept. of Seed Science & Technology, BACA, AAU, Anand)** | - |
| **Medicinal & Aromatic Plants Res. Station, AAU, Anand** | | | | |
| 11.1.2.4 | Collection, conservation and establishment of Charoli (*Buchanania lanzan* Spreng) genotypes at Anand | | Approved  **(Action: Res. Sci., M & AP Res. Station, AAU, Anand)** | - |
| **Tribal Research-cum-Training Centre, AAU, Devgadhbaria** | | | | |
| 11.1.2.5 | Preliminary Evaluation Trial of Promising Local Germplasm of Urdbean | | Approved with following suggestion/s  1. Seed colour, seed shape and protein content should be included as observation.  **(Action: Unit Head & Asso. Res. Sci., TRTC, AAU, DevgadhBaria)** | - |
| **Junagadh Agricultural University, Junagadh** | | | | |
| There was no any new technical programme | | | | |
| **Navsari Agricultural University, Navsari** | | | | |
| **Main Sorghum Research Station, NAU, Surat** | | | | |
| 11.1.2.6 | Large Scale varietal Trial on Grain Sorghum (under conserved moisture condition) | Deferred with following suggestion.   1. The already ongoing experiment on the same aspect should be reformed and the proposed experiment be incorporated as part of that experiment.   **(Action: Res. Sci. (Sorghum), NAU, Surat** | | - |
| 11.1.2.7 | Large Scale varietal Trial on Grain Sorghum (under protective irrigation) | Deferred with following suggestion.   1. The already ongoing experiment on the same aspect should be reformed and the proposed experiment be incorporated as part of that experiment.   **(Action: Res. Sci. (Sorghum), NAU, Surat** | | - |
| 11.1.2.8 | Preliminary Evaluation Trial on Sorghum (summer) | Approved with following suggestion   1. The word summer should be replaced by early summer in the title.   **(Action: Res. Sci. (Sorghum), NAU, Surat** | | - |
| 11.1.2.9 | Small Scale Varietal Trial on Grain Sorghum (summer) | Approved with following suggestion   1. The word summer should be replaced by early summer in the title.   **(Action: Res. Sci. (Sorghum), NAU, Surat** | | - |
| **S.D.Agricultural University, sardarkrushinagar** | | | | |
| **Cotton Research station, SDAU., Talod** | | | | |
| 11.1.2.10 | Testing and evaluation of new Bt cotton hybrids under North Gujarat condition at 60 cm X 45 cm spacing. | Approved with following suggestions.   1. Title should be changed as “To identify a genotype of new cotton hybrids under North Gujarat conditions at 60 cm X 45 cm spacing.” 2. Incorporate word identify for evaluation in title. 3. Correct objective by writing identify in place of evaluate. 4. Add disease and pest reactions in objectives.   **(Action: Res. Sci. (Cotton), SDAU., Talod** | | - |
| **CIL, S.D.Agricultural University, Sardarkrushinagar** | | | | |
| 11.1.2.11 | Identification of putative target genes for Iron and Zinc concentrations in bread wheat. | Approved with following suggestions.   1. Genotypes with extreme value of iron and zinc should be included. 2. Take this as pot trial.   **(Action: Assistant Research Scientist CIL, S.D.Agricultural University, Sardarkrushinagar** | | - |
| **Department of Genetics and Plant Breeding, S.D.A.U., S.K.Nagar** | | | | |
| 11.1.2.12 | Identification of molecular markers for heat tolerance at flowering stage in pearl millet. | Approved  1.Use only inbreds and advanced breeding lines  2. Mention the name of molecular markers.  **(Action: Professor & Head, Department of Genetics and Plant Breeding, S.D.A.U., S.K.Nagar)** | | - |
| **Department of Genetics and Plant Breeding, S.D.A.U., S.K.Nagar** | | | | |
| 11.1.2.13 | Tagging of wilt resistant gene(s) in castor (*Ricinus communis* L) | Approved  **(Action: Professor & Head, Department of Genetics and Plant Breeding, S.D.A.U., S.K.Nagar)** | | - |
| **COBS., S.D.A.U., S.K.Nagar** | | | | |
| 11.1.2.14 | Molecular characterization of wilt resistance in cumin (*Cuminum cyminum* L.) | Approved with following suggestion.   1. Use GC-2 and GC-4 varieties in this study.   **(Action: Asst. Professor, COBS., S.D.A.U., Sardarkrushinagar)** | |  |

**11.1.3. General Suggestions**

1. The suggestions made at the time of sub-committee meeting of SDAU should be incorporated compulsorily in the research report to be presented at the Combined Joint AGRESCO meeting.

2. A meeting should be called by the Research scientists to decide the data / observation to be recorded by the scientists of the respective centers and the same report should be sent to the Director of Research of the concerned university.