

CHAPTER - 5

EXTENSION EDUCATION

5.1 Directorate of Extension Education

The Directorate of Extension Education was established for dissemination of the research findings and technical information through extension education programmes. The main function of the Directorate is to plan, coordinate, organize and guide the extension education programmes in the University and to ensure efficient working of the extension activities in close coordination with other departments and state voluntary organizations, other officers and scientists of the University. Extension Education is one of the triple functions of the Junagadh Agricultural University to boost up the agricultural production. The University has been making substantial contribution in diffusing and communicating agricultural technologies among the extension personnel and farming community of the

region. The technologies generated in agriculture and allied sciences by the University are being transferred to the end users. Dr. A.M. Parakhia, Director of Extension Education, supervised and guided the extension education activities during the reporting year.

5.2 Extension Education Council

The Extension Education Council was constituted according to the provision of the Gujarat Agricultural Universities Act-2004 in exercise of the statutes No. S.31 and notification of registrar No. JAU/Reg/Aca-2/Ext.Edu. Council/13887-13936/2013, Date 31-07-2013. During the year 2013-14, Extension Education Council meeting was organized on 28.02.2014. The members of Extension Education Council during 2013-14 were as under.

| No. | Name / Designation | Position |
|-----|--|----------|
| | The Vice Chancellor | |
| 1. | Dr. N.C. Patel, Hon'ble Vice Chancellor | Chairman |
| | The Director of Research | |
| 2. | Dr. C.J. Dangaria, Director of Research | Member |
| 3. | The Deans of Faculties | |
| | 1. Dr. A.V. Barad, Dean, Faculty of Agriculture | Member |
| | 2. Dr. N.K. Gontia, Dean, Faculty of Agril. Engg. & Technology | Member |
| | 3. Dr. A.Y. Desai, Dean, Faculty of Fisheries | Member |
| | 4. Dr. P.H. Tank, Dean, Faculty of Veterinary Sci. & A.H. | Member |
| | 5. Dr. V.P. Chovatia, Principal, College of Agriculture, JAU, Amreli | Invitee |
| 4. | Five Officer/ Extension Education Experts (Nominated by the Vice Chancellor) | |
| | 1. Dr. P.R. Kanani, Professor & Head, Department of Extension Education, JAU, Junagadh | Member |
| | 2. Dr. M.V. Ramdevputra, Principal, Agriculture Polytechnic, JAU, Dhari | Member |
| | 3. Dr. B.B. Kabaria, Programme Coordinator, Krishi Vigyan Kendra, JAU, Targhadia | Member |
| | 4. Dr. N.P. Shukla, Programme Coordinator, Krishi Vigyan Kendra, Sanosara | Member |



| | | |
|-----|--|------------------|
| 5. | Other Extension Education Expert/ Farm Manager, JAU, Junagadh | |
| | 1. Dr. B.L. Parmar, Assistant Extension Educationist, Sardar Smruti Kendra, JAU, Junagadh | Member |
| 6. | The Eminent Extension Education Experts outside the University concern with Farmers training (Nominated by the Vice Chancellor) | |
| | 1. Dr. A.O. Kher, Retd. Associate Director of Extension Education, JAU, Junagadh | Member |
| | 2. Dr. M.N. Papat, Retd. Associate Director of Extension Education, JAU, Junagadh | Member |
| | 3. Dr. Ashok Patel, Retd. Director of Extension Education, AAU, Anand | Member |
| 7. | Three Director of Agriculture/ Horticulture/ Animal Husbandry | |
| | 1. Dr. S.R. Chaudhari, Director of Agriculture, GoG, Gandhinagar | Member |
| | 2. Dr. B.S. Patel, Director of Horticulture, GoG, Gandhinagar | Member |
| | 3. Dr. A.J. Kachhia Patel, Director of Animal Husbandry, GoG, Gandhinagar | Member |
| 8. | Two Progressive farmers (Nominated by the Vice Chancellor) | |
| | 1. Shri Parshotambhai Sidapara, Jamka (Junagadh)- Cow based Agriculture | Member |
| | 2. Shri Rameshbhai Pansuriya, Kalavad (Jamnagar)- Manufacture of Agril. implements | Member |
| 9. | Associate Director of Extension Education, JAU, Junagadh | Member |
| 10. | Dr. A.M. Parakhia, Director of Extension Education, JAU, Junagadh | Member Secretary |

5.3 Extension Education and Training Centres

| No. | Course / Programme | Location |
|--|--|--|
| Diploma/Certificate Courses | | |
| 1 | Agriculture Diploma School | Halvad |
| 2 | School of Baking | Junagadh |
| 3 | <i>Mali</i> Training Centre | Junagadh |
| 4 | Agro Base ITI Centre | Junagadh, Mahuva |
| Training Programmes for Extension Workers | | |
| 1 | Training & Visit System Training Centre | Junagadh, Targhadia |
| 2 | Centre of Excellence for Training (Oilseeds) | Junagadh |
| Training Programmes for Farmers/Farm Women | | |
| 1 | Krishi Vigyan Kendra | Jamnagar, Targhadia, Amreli, Khapat, Nanakandhasar, Pipaliya |
| 2 | Sardar Smruti Kendra | Junagadh |
| Extension Education Programmes for Rural People | | |
| 1 | Farm Advisory Service Centre | Junagadh |
| 2 | Extension Programme for Fisheries | Okha |

Extension Education and Training Programmes (I) Diploma/Certificate Courses for Farm Youths

The Junagadh Agricultural University continued various Diploma/ Certificate courses during the year under report as per the details given below.

| No. | Name of Course | Duration | Location | No. of Students Completed the Course |
|-----|--|--------------------|----------------------|--------------------------------------|
| 1 | Agriculture Diploma | 2 years | Halvad | 29 |
| 2 | Bakery Training <ul style="list-style-type: none"> • Basic Course in Baking Science • Special Training to Women | 15 weeks 1 week | Junagadh Junagadh | 34 (2 Batches) 152 (12 Batches) |
| 3 | <i>Mali</i> Training | 6 months | Junagadh | 6 (1 Batch) |
| 4 | Agro Base ITI Centre <ul style="list-style-type: none"> • Seed Production Technology • Green House Construction & Systems Management | 6 months | Junagadh | 36 (1 Batch) 47 (Continue) |

All these courses are aiming to impart skill oriented practical training to farmers' son/daughter in order to provide an opportunity for self-employment and employment in different organizations.



Bakery Training for rural youth

(II) Training Programmes for Extension Workers / Officers

(A) Training & Visit System

Junagadh Agricultural University has taken-up the task of training the extension personnel of the Department of Agriculture and Horticulture through T & V System. The bimonthly workshops, pre-seasonal training workshops and short-term training programmes organized for the extension personnel of the Department of Agriculture and the number of SMSs/AEOs who attended the programmes are given below.



Agro base ITI Student

| No. | Type of programme | No. of Programmes | No of Participants |
|--------------|---------------------------------|-------------------|--------------------|
| 1 | Bimonthly Workshop | 04 | 127 |
| 2 | Pre-seasonal Training Programme | 02 | 74 |
| 3 | Agriculture - 6 (Oilseed) AGR-6 | 01 | 30 |
| 4 | Other Training | 03 | 98 |
| Total | | 10 | 329 |



Dr. A.M.Parakhia, DEE, addressing the Officers of Dept. of Agriculture & KVKs in Pre seasonal Training programme under T & V scheme



Officers of Dept. of Agriculture & KVKs are attending Bi monthly Training programme under T & V scheme

(B) Other Training Programmes

The centre has continued to provide Scientific Knowledge to the farmers. The details of the programmes are given below.

Khedut Shibir and Diagnostic team visit

| No. | Subject | No. of Activities | No. of Scientists allotted | Beneficiaries |
|-----|----------------------|-------------------|----------------------------|---------------|
| 1 | <i>Khedut Shibir</i> | 37 | 03/ <i>Shibir</i> | 8365 |
| 2 | Diagnostic Team | 04 | 4-5/Team | 175 |

Training programme of Second year Master degree students of Lok Bharti, Lok Seva Mahavidyalaya, Sanosara, Dist. Bhavnagar.

| No. | No. of Trainees | Period |
|-----|-----------------|--------------------------|
| 1 | 29 | 25.09.2013 to 28.09.2013 |

Collaborative training

| No. | Name of training | Duration | Co-Organizer | No. of Trainees |
|-----|---|---------------------|---|-----------------|
| 1 | Training Cum Workshop on Commodity Future & Market's in Agriculture | 10-12 March-2014 | National Institute of Agriculture Extension Management (MANAGE) Hyderabad | 22 |
| 2 | Workshop on New Dimension in Agriculture Extension Management | 05-07 December 2013 | Extension Education Institute (EEI) AAU, Anand | 29 |
| 3 | AGR-6 (Cotton Mini Mision) | 02-03 January 2014 | Joint Director of Agriculture and Directorate of Extension Education | 55 |



Group photo of Training Cum Workshop on Commodity Future & Market's in Agriculture



Dr. A.M. Parakhia, giving inaugural speech on Workshop on New Dimension in Agriculture Extension Management



Shri. V.P. Sharma ,Director, ITD & P, Hyderabad Distributing Certificate in Training Cum Workshop on Commodity Future & Market's in Agriculture



Dr. A.M. Parakhia, Distributing Certificate in Workshop on New Dimension in Agriculture Extension Management

Other training

| No. | Name of training | Duration | Organizer | No. of Trainees |
|-----|---|------------------|--|-----------------|
| 1 | Training Programme on Crop's Grown in Green House/Net house | 05-19 March-2014 | Directorate of Extension Education JAU, Junagadh | 32 |



Dr. A.M. Parakhia, Distributing Certificate in Training Programme on Crop's Grown in Green House/Net house to Farmers

(III) Training/ Extension Education Programmes for Farmers/Farm Women

(A) Training Programmes

Training is essential to increase the efficiency of farmers, farm women, rural youths, *etc.* On-campus as well as off-campus training programmes were organized based on the need and interest of the farming community.

Through the Transfer of Technology (TOT) Centres, 197 on-campus and 275 off-campus training programmes were organized, wherein 15294 participants received training. The details are given in Table 5.1.

Table 5.1 Training programmes organized by the Transfer of Technology Centres (KVKs) for farmers/farm women during the year 2013-14

| No. | TOT Centre | No. of Trg. Prog. | No. of participants | | Total | |
|-----|--------------------|-------------------|---------------------|--------------|-------------|--------------|
| | | | Male | Female | | |
| 1 | KVK, Jamnagar | A | 55 | 1932 | 150 | 2082 |
| | | B | 72 | 3407 | 553 | 3960 |
| 2 | KVK, Targhadia | A | 26 | 519 | 156 | 675 |
| | | B | 42 | 974 | 211 | 1185 |
| 3 | KVK, Amreli | A | 31 | 716 | 165 | 881 |
| | | B | 44 | 766 | 629 | 1395 |
| 4 | KVK, Khapat | A | 34 | 624 | 195 | 819 |
| | | B | 54 | 895 | 491 | 1386 |
| 5 | KVK, Nanakandhasar | A | 40 | 984 | 30 | 1014 |
| | | B | 45 | 1129 | 07 | 1136 |
| 6 | KVK, Pipalia | A | 11 | 273 | 0 | 273 |
| | | B | 18 | 466 | 22 | 488 |
| | Total | A | 197 | 5048 | 696 | 5744 |
| | | B | 275 | 7637 | 1913 | 9550 |
| | Grand Total | | 472 | 12685 | 2609 | 15294 |

A= On-campus; B= Off-campus



On Campus training programme at KVK Amreli



Off Campus training programme at KVK Nana Kandhasar

(B) Extension Activities

The Transfer of Technology (TOT) centres also planned and organized extension activities like seminar/workshop/symposium, field/farmer's day, agriculture fair/exhibition, film/slide/video show, field visit, cattle camp, farmers' group/demonstration meeting, *etc.* by which total 2,87,903 beneficiaries benefited. The details of the extension activities organized and number of participants are given in Table 5.2

KVKs play an important role to provide guidance for income generation to the farmers by imparting skill oriented trainings. Besides, the KVKs conducted variety of extension activities, on farm testing, *etc.* The KVKs are also collecting feedback on farmers' problems, which are sent to the concerned scientists as these will provide guideline in reforming further research.

Table 5.2 Extension activities carried out by TOT centres during 2013-14

| No. | Name of activity | KVK | | | | | | Total |
|-----|---|----------------|---------------|----------------|----------------|----------------|------------|-----------------|
| | | Targhadia | Jamnagar | Khapat | Amreli | Nana Kandhasar | Pipalia | |
| 1 | Krusha Mela | 02 (150000) | 01 (35000) | 01 (2125) | 01 (3050) | 01 (4210) | 00 | 06 (194385) |
| 2 | Field day | 04 (145) | 35 (795) | 11 (207) | 18 (258) | 20 (446) | 04 (92) | 92 (1943) |
| 3 | Guidance on farm | 43 (147) | 178 (471) | 160 (160) | 161 (395) | 24 (68) | 18 (24) | 584 (1265) |
| 4 | Guidance to visitors | 124 (1710) | 147 (4737) | 2230 (2230) | 1586 (1586) | 110 (5130) | 48 (60) | 4245 (15453) |
| 5 | Press note | 05 | 01 | 01 | 08 | 06 | - | 21 |
| 6 | Khedut shibir/ Night shibir/ Group discussion | 11 (319) | 15 (3491) | 04 (79) | 09 (89) | 08 (56) | 02 (42) | 49 (4076) |
| 7 | Guidance through Telephone | (3361) | (6520) | (1505) | (915) | (210) | (214) | (12725) |

| | | | | | | | | |
|--------------|---|--------------|--------------|--------------|--------------|--------------|-------------|-------------------|
| 8 | Demonstrations | 25 (473) | 00 | 12 (1304) | 15 (142) | 00 | 00 | 52 (1919) |
| 9 | Krushgi gosthi/ Seminar | 09 (208) | 09 (815) | 13 (652) | 02 (142) | 10 (538) | 01 (53) | 44 (2408) |
| 10 | Khedut meeting | 03 (112) | 16 (396) | 12 (208) | 00 | 04 (108) | 07 (161) | 42 (985) |
| 11 | T.V. Programme | 08 | 06 | 03 | 01 | 03 | 00 | 21 |
| 12 | Radio talk | 07 | 01 | 00 | 00 | 02 | 00 | 10 |
| 13 | Popular articles | 23 | 08 | 00 | 15 | 07 | 00 | 53 |
| 14 | Video show/ Film show | 27 (551) | 25 (2065) | 49 (1546) | 00 | 21 (1169) | 00 | 122 (5331) |
| 15 | Cattle camp | 09 (573) | 00 | 00 | 00 | 04 (92) | 00 | 13 (665) |
| 16 | Extension prog./ Training | 09 (94) | 04 (101) | 01 (24) | 98 (3726) | 03 (96) | 00 | 115 (4041) |
| 17 | Literature distribution | (3519) | (2323) | (2263) | (526) | (2210) | (200) | (11041) |
| 18 | Literature published | 00 | 00 | (01) | (16) | 00 | (22) | 17 |
| 19 | Lectures | 20 (1740) | 72 (8609) | 64 (1205) | 73 (9105) | 49 (2463) | 00 | 278 (23122) |
| 20 | Scientist's Farm visit | 43 (147) | 178 (471) | 160 (160) | 45 (156) | 35 (108) | 00 | 461 (1042) |
| 21 | Vocational training | 02 (48) | 02 (69) | 08 (198) | 01 (27) | 01 (24) | 00 | 14 (366) |
| 22 | Crop demonstration | 12 (105) | 00 | 00 | 79 (183) | 00 | 90 (90) | 181 (378) |
| 23 | Sponsored/ Collaboration training | 23 (925) | 15 (724) | 15 (1004) | 03 (356) | 01 (145) | 09 (403) | 66 (3557) |
| 24 | Krushgi-Go-Vidya subscriber Registered | (03) | 00 | (46) | 00 | 00 | 00 | (49) |
| 25 | Diagnostic team | 49 (422) | 141 (197) | 02 (1) | 45 (96) | 08 (47) | 12 (17) | 257 (780) |
| 26 | Student (RAWI) | 01 (23) | 04 (31) | 00 | 00 | 02 (115) | 00 | 07 (169) |
| 27 | Celebration of technology week | 01 (575) | 01 (460) | 01 (570) | 01 (521) | 01 (475) | 00 | 05 (2601) |
| 28 | Soil Sample Analyzed | (5450) | 00 | (124) | (20) | 00 | 00 | (5594) |
| 29 | Participated in Agril. Exhibition | 00 | 00 | 02 (2125) | 02 (1856) | 01 (210) | 00 | 05 (4191) |
| 30 | Partheniyam Week | 01 (45) | 01 (42) | 01 (171) | 01 (25) | 01 (122) | 00 | 05 (405) |
| Total | | | | | | | | 6765 |
| | | | | | | | | (2,98,491) |

Figures in parentheses indicate number of beneficiaries/copies

(C) Front Line Demonstrations (FLD)

The front line demonstration aims to demonstrate the production potentialities of newly released and pre-released production technologies of cotton, wheat, cumin, vegetables, pulses and oilseeds on farmer's field.

In all, 684 FLDs were conducted on various oilseeds and pulses, viz., castor, mustard, groundnut, sesamum, cotton, gram, wheat, pearl millet and cumin in 279.5 ha during *kharif* and *rabi* seasons through KVKs. The results are presented in Table 5.3

Table 5.3: Performance of frontline demonstrations organized during 2013-14

| No | Centre | Crop | Variety/ Treatment | No. of FLDS | Area (ha) | Av. yield (q/ha) | | Increase in yield check |
|----|-------------------|----------------------------|-----------------------|----------------|--------------|----------------------------------|----------------------------------|-------------------------------|
| | | | | | | Demo. | Local | |
| 1 | KVK, Targhadia | Groundnut | IDM/GG-20 | 10 | 4 | 28.19 | 24.70 | 14.13 |
| | | Groundnut | GG-5 | 10 | 4 | 22.36 | 21.17 | 5.62 |
| | | Sesamum | GT-3 | 10 | 4 | 6.90 | 6.03 | 14.43 |
| | | Cotton | Bt. Cotton | 10 | 4 | 31.63 | 29.44 | 7.44 |
| | | Green gram | Int.Cr/GM-4 | 5 | 2 | 2.42 | 2.18 | 11.01 |
| | | Green gram | GM-4 | 20 | 8 | 8.62 | 8 | 7.75 |
| | | Cluster bean (Gumguvar) | G-1 | 10 | 4 | 8.28 | 7.91 | 4.67 |
| | | Gram | GG-3 | 5 | 2 | 17.05 | 15.65 | 8.95 |
| | | Wheat | GW-496 | 10 | 4 | 48.37 | 44.25 | 9.31 |
| | | Cumin | GC-4 | 10 | 4 | 8.82 | 8.05 | 9.56 |
| | | Livestock | Vetcolyte | 20 | - | 1580 | 1475 | 7.12 |
| | | Livestock | Mineral Mixture | 10 | 10 | Avg.milk prod.1550 kg/lact | Avg.milk prod.1475 kg/lact | 5.06 |
| | | Oat | Kent | 20 | 2 | 490 | 465 | 10.53 |
| | | Solar | Box type | | | | | |
| 2 | KVK, Jamnagar | energy | solar Cooker | 10 | - | - | - | - |
| | | Groundnut | GG-20 | 10 | 4 | 32.69 | 29.36 | 11.34 |
| | | Green Gram | GM-4 | 10 | 4 | 13.00 | 11.64 | 11.68 |
| | | Cotton | Bt. Cotton | 25 | 10 | 36.38 | 33.88 | 7.38 |
| | | G'nut (Trichoderma) | GG-20 | 5 | 2 | 30.14 | 26.35 | 14.38 |
| | | G'nut (NPV) | GG-20 | 5 | 2 | 36.88 | 32.76 | 12.58 |
| | | Pearl Millet | GHB-732 | 20 | 8 | 17.73 | 15.52 | 14.24 |
| | | Brinjal | IPM | 5 | 2 | 347.00 | 320.75 | 8.18 |
| | | Chilli | IPM | 5 | 2 | 112.50 | 106.86 | 5.28 |
| | | Wheat | GW-366 | 19 | 9.5 | 49.34 | 43.37 | 13.77 |
| | | Cumin | GC-4 | 10 | 4 | 12.56 | 11.26 | 11.55 |
| 3 | KVK, Amreli | Chick pea | GJG-3 | 15 | 6 | 22.29 | 19.86 | 12.24 |
| | | Soyabean | GS-3 | 10 | 4 | 13.24 | 10.59 | 25.02 |
| | | Maize | HQPM-1 | 10 | 4 | 7.56 | 6.38 | 18.50 |



| | | | | | | | | |
|---|---------------------------|------------|---------------------------|------------|--------------|-------|-------|-------|
| | | Cotton | INM | 10 | 4 | 23.19 | 21.16 | 9.59 |
| | | Gram | GG-3 | 10 | 4 | 12.23 | 11.10 | 10.18 |
| | | Cumin | GC-4 | 10 | 4 | 5.77 | 5.23 | 10.33 |
| | | Wheat | GW-366 | 20 | 8 | 42.31 | 38.66 | 9.44 |
| 4 | KVK, Khapat | Groundnut | INM/GG-20 | 20 | 10 | 31.15 | 27.05 | 15.16 |
| | | Sesame | GT-2 | 10 | 4 | 11.90 | 10.71 | 11.11 |
| | | Pigeon pea | GT-101 | 10 | 4 | 22.28 | 20.14 | 10.63 |
| | | Green gram | GM-4 | 5 | 2 | 11.78 | 10.78 | 9.28 |
| | | Cotton | INM /Bt | 25 | 10 | 42.35 | 37.06 | 14.27 |
| | | Lucerne | Anand-2 | 13 | 5 | 751 | 681 | 10.28 |
| | | Gram | GG-3 | 16 | 8 | 20.42 | 18.82 | 8.50 |
| | | Coriander | GC- 2 | 10 | 4 | 14.05 | 12.95 | 8.50 |
| | | Wheat | INM /Lok-1/ GW-496/366 | 20 | 10 | 36.83 | 33.41 | 10.24 |
| | | Chick Pea | GG-3 | 16 | 8 | 20.42 | 18.82 | 8.50 |
| 5 | KVK, Nana kandhasar | Wheat | GW-366 | 20 | 08 | 35.02 | 30.79 | 13.74 |
| | | Cumin | Guj.Cumin-4 | 20 | 08 | 07.27 | 06.55 | 11.00 |
| | | Gram | Guj.Gram-3 | 10 | 04 | 16.20 | 14.42 | 12.34 |
| | | Green Gram | Guj.moong-4 | 10 | 04 | 07.85 | 06.82 | 15.10 |
| | | Sesame | Guj.Til-3 | 10 | 04 | 06.75 | 05.91 | 14.21 |
| | | G'nut | GG-31 | 10 | 04 | 17.65 | 15.30 | 15.36 |
| | | G'nut | Bio-Agent | 05 | 02 | 19.40 | 16.66 | 16.45 |
| | | Cotton | Bt Irrigated | 25 | 10 | 22.60 | 19.93 | 13.40 |
| 6 | KVK, Pipalia | Groundnut | IPM/GG-20 | 20 | 15 | 21.37 | 18.9 | 13.07 |
| | | Groudnut | IDM/ Trichoderma | 10 | 4 | 20.77 | 19.00 | 9.34 |
| | | Chick pea | GG-3 | 10 | 5 | 22.5 | 19.75 | 13.92 |
| | | Wheat | GW-366 | 10 | 5 | 50.62 | 46.22 | 9.53 |
| | | Cotton | Bt. Cotton | 10 | 4 | 33.12 | 28.43 | 16.51 |
| | | Cumin | GC-4 | 10 | 4 | 8.75 | 8.05 | 8.70 |
| | | | Total | 684 | 279.5 | | | |

(D) Farm Advisory Service Scheme, SSK, Junagadh

The Farm Advisory Service Scheme has been continued at SSK, Junagadh with a view to provide guidance and the latest information to the farmers on scientific farming. The farmers were advised

regarding their farm problems through correspondence and field visit. This centre acted as a link among research scientists, extension workers and farmers. During the year under report, various extension activities carried out by the centre are given below.

| No. | Name of activity | No. of activities | No. of participants |
|--------------|------------------------------------|-------------------|---------------------|
| 1 | Agril. Fair | 1 | 50,450 |
| 2 | Agril. Exhibitions (participation) | 3 | 26,630 |
| 4 | Agril. Literature Exhibition | 10 | 25,670 |
| Total | | 14 | 1,02,750 |



(E) Extension Activities under Centre of Communication (COC) Scheme

Objectives of COC Scheme

- To establish the *Gram Kisan Samitis* (GKS) in the rural areas.
- To train the members of *Gram Kisan Samitis* in leadership, communication and cooperation for transfer of technologies.

- To disseminate the latest agricultural and allied technologies through *Gram Kisan Samitis* in rural areas.
- To carry out different extension activities through GKS in different villages.
- To know the feedbacks from the farmers.

Three-day on campus training programme under Centre of Communication (COC) Scheme

| No. | Subject | No. of Training Programmes | No. of Beneficiaries |
|--------------|--|----------------------------|----------------------|
| 1 | Training programmes for farmers on scientific farming | 04 | 170 |
| 2 | Training programmes for farm women on Adarsh Pasupalan, Grain storage techniques <i>etc.</i> | 01 | 30 |
| Total | | 05 | 200 |

One-day on campus training programme under Centre of Communication (COC) Scheme

| No. | Subject | No. of Training Programmes | No. of Beneficiaries |
|--------------|---|----------------------------|----------------------|
| 1 | Advanced Training on Good Agriculture Practices (GAP) | 04 | 148 |
| 2 | Inter Face Training | 01 | 35 |
| Total | | 05 | 183 |

Formation of *Gram Kisan Samitis* during the year 2013-14

| No. | Village | Taluka | District | No. of <i>Gram Kisan Samitis</i> |
|-----|---------------|--------------|-----------|----------------------------------|
| 1 | Sivarajgadhd | Gondal | Rajkot | 1 |
| 2 | Kolaki | Upleta | Rajkot | 1 |
| 3 | Mevasa | Jetpur | Rajkot | 1 |
| 4 | Khokhad dal | Rajkot | Rajkot | 1 |
| 5 | Mandalkundala | Gondal | Rajkot | 1 |
| 6 | Kaliyar | Rajkot | Rajkot | 1 |
| 7 | Rampar | Lathi | Amreli | 1 |
| 8 | Vekariya | Savarkundala | Amreli | 1 |
| 9 | Boravav | Talana | Junagadh | 1 |
| 10 | Sutarapada | Sutarapada | Junagadh | 1 |
| 11 | Choki | Junagadh | Junagadh | 1 |
| 12 | Sukhapur | Bhesan | Junagadh | 1 |
| 13 | Samega | Manavadar | Junagadh | 1 |
| 14 | Vadal | Junagadh | Junagadh | 1 |
| 15 | Prabhatpur | Junagadh | Junagadh | 1 |
| 16 | Moravadi | Kalavad | Jamanagar | 1 |



| | | | | |
|--------------|---------|------------|------------|-----------|
| 17 | Gingani | Jamjodhpur | Jamanagar | 1 |
| 18 | Umarala | Kalavad | Jamanagar | 1 |
| 19 | Navagam | Kalavad | Jamanagar | 1 |
| 20 | Bela | Sanosara | Bhavanagar | 1 |
| Total | | | | 20 |

Khedut Shibirs organized during the year 2013-14 under COC scheme

| No. | Village | Taluka (District) | No. of shibirs | No. of participants | Subjects covered |
|--------------|-------------|---------------------|----------------|---------------------|---|
| 1 | Choki | Junagadh (Junagadh) | 2 | 123 | Agriculture, Horticulture, Animal Husbandry and Efficient use of water through adoption of drip, sprinkler or micro irrigation systems. |
| 2 | Datrana | Mendarda (Junagadh) | 1 | 55 | |
| 3 | Kerana | Junagadh (Junagadh) | 1 | 42 | |
| 4 | Chandravadi | Mendarda (Junagadh) | 1 | 42 | |
| Total | | | 05 | 262 | |

Bakery Talim organized during the year 2013-14 under COC scheme

| No. | Village | Taluka (District) | No. of shibirs | No. of participants | Subject covered |
|--------------|---------------|----------------------|----------------|---------------------|--------------------------------------|
| 1 | Talala | Talala (Junagadh) | 1 | 42 | Preparation of Bakery items at home. |
| 2 | Moti Monapari | Visavadar (Junagadh) | 1 | 48 | |
| 3 | Choki | Junagadh (Junagadh) | 1 | 35 | |
| 4 | Datrana | Mendarada (Junagadh) | 1 | 56 | |
| 5 | Yamunavadi | Junagadh (Junagadh) | 1 | 43 | |
| 6 | Chandaravadi | Mendarada (Junagadh) | 1 | 27 | |
| Total | | | 06 | 251 | |

(F) Extension Activities carried out by Extension Education Centres

Extension activities carried out by various Extension Education Centres during the year are given below.

| No. | Name of activity | Sardar Smruti Kendra, Junagadh | Fisheries Res. Station, Okha | School of Baking, Junagadh | Total |
|-----|----------------------|--------------------------------|------------------------------|----------------------------|---------------|
| 1 | Krusha Mela | 01 (50450) | 03 (1360) | 1 (185) | 5 (51995) |
| 2 | Guidance on farm | - (2050) | 11 (29) | 02 (31) | 13 (2110) |
| 3 | Guidance to visitors | 151 (7379) | 16 (146) | 35 (1488) | 202 (9013) |
| 4 | Press note | - | 04 | - | 04 |

| | | | | | |
|--------------|---|---------------|-------------|-------------|---------------------------|
| 5 | Khedut shibir/ Night shibir/ Group discussion | 33 (1299) | 03 (90) | - | 36 (1389) |
| 6 | Guidance through Telephone | (2890) | - | - | (2890) |
| 7 | Guidance through Letter | 04 | - | - | 04 |
| 8 | Demonstration | - | 01 (24) | - | 01 (24) |
| 9 | Krushi gosthi/Seminar | - | 02 (129) | - | 02 (129) |
| 10 | Video show/ Film show | - | 01 (58) | - | 01 (58) |
| 11 | Literature distribution | (6653) | 01 (60) | - | 01 (6713) |
| 12 | Literature Publication | 06 | - | - | 06 |
| 13 | Fisheries Training | - | 01 (83) | - | 01 (83) |
| 14 | Agri.Exhibition | 03 (26630) | - | 01 (185) | 04 (26815) |
| 15 | Agri.Literature show | 03 (25670) | - | - | 03 (25670) |
| 16 | Graduate student | - | 06 (53) | - | 06 (53) |
| 17 | Visitors | (1990) | (102) | - | (2092) |
| Total | | | | | 256 (1,27,735) |

Figures in parentheses indicate no. of beneficiaries/copies

5.4 Radio Talks and TV Programmes

The scientists of the university delivered radio talks from time to time on various agricultural and allied subjects from All India Radio, Rajkot. Moreover, the agricultural messages were also broadcasted from All India Radio, Rajkot. During the year under report, 23 such talks were delivered on different topics related to agriculture, horticulture, agricultural engineering, fisheries, animal husbandry, etc.

In all, 21 television programmes covering various aspects of agriculture, animal husbandry, agricultural engineering, horticulture, fisheries, home science, etc. were telecasted through Doordarshan Kendra, Rajkot in "Gram Jagat" "Krishi Darshan" programme for the benefit of farming community.

5.5 Publication of Extension Education Literature

| No | Name of Office | Publication | | | Total |
|--------------|--------------------------------|-------------|-----------|------------------|-----------|
| | | Pemplets | Folder | Booklet/ Book | |
| 1 | Sardar Smruti Kendra, Junagadh | - | - | 06 | 06 |
| 2 | DEE Office, Junagadh | - | 03 | - | 03 |
| Total | | - | 03 | 06 | 09 |

University news bulletin named as "JAU News letter" is being published regularly by Directorate of Extension Education.

Establishment of AGRISNET studio and Community Radio Station (CRS):

AGRISNET studio is established for the production of various multi media gadgets/ video CDs on modern agricultural technologies for farmers. During *Krusha Mahotsav-2013*, video CD on four agricultural technologies (Advantages of mulching, Recycling of agricultural waste, Role of micro nutrients in crop production, Protected cultivation) in Gujarati were prepared and distributed in each village of seven districts of Saurashtra.

Infra- structural facilities for establishment of community radio station (*JUNAGADH KRUSHIVANI*) is created. The equipments for recording, editing and broadcasting have been purchased. The station will start functioning after getting License from Government of India.

5.6 Coordination of Extension Activities with Department of Agriculture, Horticulture, Animal Husbandry and Other Line Departments

Junagadh Agricultural University planned and organized various extension education programmes/ activities in coordination with different line departments of the state. The structural linkages exist under T & V system by constituting the technical committee at district, zonal and state level. The agricultural programmes of All India Radio as well as Doordarshan were finalized by such coordinated efforts. In AGRESKO, the officers of other departments are the members and they contribute in formulation of technical programmes as well as in

finalizing the recommendations for the farmers. The functional linkages also exist under T & V system through bi-monthly workshops, pre-seasonal workshops, fortnightly training, diagnostic team, state level crop seminars/workshop, *etc.* The coordination exists in follow-up programmes as well as in planning of farm trials. For transfer of technologies to the farmers, the farmer's day, *krushi mela*, group discussion, film show, *etc.* were organized through collaborative efforts.

5.7 Orientation Training Programme

During the year under report, 29 scientists/ teachers of the University were deputed for participating in the orientation training programmes/ Seminar/Workshop/Symposium, *etc.* organized within and outside the state to upgrade knowledge and skill for improving their faculty competence in respective disciplines.

Krusha Mahotsav-2013

Government of Gujarat is celebrating *Krusha Mahotsav* since 2005-06. In the *Krusha Mahotsav-2013*, Junagadh Agricultural University has spared services of about 300 scientists/ officers to advise the farming community about the latest agricultural technologies. *Khedut shibirs* were organized in different districts by APMCs and other organizations. The details of *shibirs* organised by the university are given below.

| No. | District | Beneficiaries Nos. |
|--------------|---------------|--------------------|
| 1. | Junagadh | 2,922 |
| 2. | Rajkot | 895 |
| 3. | Bhavnagar | 6,146 |
| 4. | Amreli | 81 |
| 5. | Surendranagar | - |
| 6. | Jamnagar | 3,684 |
| 7. | Porbandar | 1,344 |
| Total | | 15,072 |



Inaguration of *Krushi Mela-2013* by Hon'ble Chief Minister Shri Narendrabhai Modi at Jamjodhpur

Seminars organized during the *Krushi Mahotsav- 2013*

| No. | Subject | Place | Date | Beneficiaries Farmers/ Farm women |
|-----|---|------------|-----------|-----------------------------------|
| 1. | Importances of Micro Nutrients in Agriculture Crop Production | Jamjodhpur | 25.05.201 | 250 |



Hon'ble Chief Minister Shri Narendrabhai Modi giving inaugural speech in the *Krushi Mela-2013* held at Jamjodhpur

Beneficiaries of *Krushi Mahotsav-2013*

| No. | District | Beneficiaries |
|--------------|---------------|-----------------|
| 1. | Junagadh | 41,740 |
| 2. | Rajkot | 22,429 |
| 3. | Bhavnagar | 35,320 |
| 4. | Amreli | 94,749 |
| 5. | Surendranagar | 15,044 |
| 6. | Jamnagar | 42,431 |
| 7. | Porbandar | 6,546 |
| Total | | 2,58,259 |



A large number of Farm women remain present in the *Krushi Mela- 2013* held at Jamjodhpur



Hon'ble Vice Chancellor Dr. N.C. Patel & Agri. Minister Shri Babubhai Bokhiria Welcoming to Hon'ble Chief Minister Shri Narendrabhai Modi at Jamjodhpur



Beneficiaries of Seminar organized during *Krushi Mela-2013* held at Jamjodhpur



Hon'ble VC Dr. N.C. Patel inaugurate the SAC meeting at KVK, Jamnagar



Beneficiaries of Seminar organized during *Krushi Mela-2013* held at Jamjodhpur



Ex.Hon'ble Agriculture minister Shri Dilipbhai Sanghani inaugurate the SAC meeting at KVK, Amreli



Celebration of Technology Week at KVK Nana Kandhasar



Ex.Hon'ble Agriculture minister Shri Dilipbhai Sanghani inaugurate the SAC meeting at KVK, Amreli

