



## Chapter - V

# EXTENSION EDUCATION

### 5.1 Directorate of Extension Education

The Directorate of Extension Education was established according to the Chapter-3 Part-IX vide Section 14.1(3) of the Gujarat Agricultural Universities Act-2004, 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 development departments and state voluntary organizations, other officers and scientists of the

University. Dr. A.M. Parakhia 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 power vested under Section 62(1) in pursuance of Section 17(5). During The year 2011-12, Extension Education Council meeting was organized on 11.01.2012. The members of Extension Education Council during 2011-12 were as under.

| No. | Name                   | Designation   |
|-----|------------------------|---|
| 1   | Dr. N.C. Patel         | Vice Chancellor (Chairman)                                      |
| 2   | Dr. C.J. Dangaria      | Director of Research & Dean PG Studies                          |
| 3   | Dr. A.M. Parakhia      | Director of Extension Education (Secretary)                     |
| 4   | Dr. A.V.Barad          | Principal & Dean, Agriculture Faculty                           |
| 5   | Prof. J.B.Savani       | Principal & Dean, Agril. Engg. & Tech. Faculty                  |
| 6   | Dr. A.Y. Desai         | Principal & Dean, Fisheries Science Faculty                     |
| 7   | Dr. R.R.Shah           | Principal & Dean, Vet. Faculty                                  |
| 8   | Dr. K.A. Khunt         | Principal & Dean, Agri. Business Institute                      |
| 9   | Dr. K.L. Dobaria       | Research Scientist (Groundnut)                                  |
| 10  | Dr. M.D. Khanpara      | Research Scientist (Cotton)                                     |
| 11  | Dr. P.U. Gajbhiye      | Research Scientist (AGB), CBF                                   |
| 12  | Dr. L.B. Ranaparia     | Principal, Horticulture Polytechnic                             |
| 13  | Dr. P.R. Kanani        | Professor & Head, Agril. Ext. Edu.                              |
| 14  | Dr. S.M. Upadhyay      | Professor & Head, Agril. Statistics                             |
| 15  | Dr. M.N. Kapadia       | Professor & Head, Agril. Entomology                             |
| 16  | Dr. P.N. Sarasavadia   | Professor, RERE, CAET   |
| 17  | Prof. D.M. Vyas        | Principal, Agro. Processing Polytechnic                         |
| 18  | Dr. B.B. Kunjadia      | Principal, Home Sci., Training Organizer, KVK, Amreli           |
| 19  | Prof. G.G.Marakana     | Asstt. Ext. Edu., SSK   |
| 20  | Dr. R. S. Chovatia     | Professor & Head, Horticulture                                  |
| 21  | Shri Babubhai Jasoliya | Farmers Representative, At: Ambala, Ta. Shihor, Dist. Bhavnagar |



### 5.3 Extension Education and Training Centres

| No.  | Type   | Location   |
|--|--|--|
| <b>Diploma/Certificate Courses</b>                     |  |  |
| 1  | Agriculture Diploma School                   | Halvad   |
| 2  | Livestock Inspector Training Centre          | Junagadh   |
| 3  | School of Baking                             | Junagadh   |
| 4  | <i>Mali</i> Training Centre                  | Junagadh   |
| <b>Training Programmes for Extension Workers</b>       |  |  |
| 1  | Training & Visit System Training Centre      | Junagadh, Targhadia                                |
| 2  | Centre of Excellence for Training (Oilseeds) | Junagadh   |
| <b>Training Programmes for Farmers/Farm Women</b>      |  |  |
| 1  | Krishi Vigyan Kendra                         | Jamnagar, Targhadia, Amreli, Khapat, Nanakandhasar |
| 2  | Sardar Smruti Kendra                         | Junagadh   |
| <b>Extension Education Programmes for Rural People</b> |  |  |
| 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   | 30                                   |
| 2   | Livestock Inspector Training     | 1 year       | Junagadh | 33 First Sem, 33 Second Sem.         |
| 3   | Bakery Training                  |              |          |                                      |
|     | ➤ Basic Course in Baking Science | 15/ 20 weeks | Junagadh | 07 (2 Batches)                       |
|     | ➤ Special Training to Women      | 1 week       | Junagadh | 92 (7 Batches)                       |
| 4   | <i>Mali</i> Training             | 6 months     | Junagadh | 06 (1 Batch)                         |

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.

##### (II) Training Programmes for Extension Workers

###### (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.



| No.          | Type of programme               | Programmes | No of Participants |
|--------------|---------------------------------|------------|--------------------|
| 1            | Bimonthly Workshop              | 4          | 156                |
| 2            | Pre-seasonal Training Programme | 3          | 121                |
| 3            | Agriculture - 6 (Oilseed)       | 1          | 53                 |
| <b>Total</b> |                                 | <b>8</b>   | <b>330</b>         |

### (B) Other Training Programmes

The centre has continued to provide better training to the extension personnel and technical personnel of KVKs to improve their technical competency. The details about numbers of the attended the programmes are given below.

### Khedut shibir

| No. | Subject                         | No. of Activities | No. of Scientists allotted (Approx.) | Beneficiaries |
|-----|---------------------------------|-------------------|--------------------------------------|---------------|
| 1   | <i>Khedut Shibir</i>            | 42                | 3                                    | 7000          |
| 2   | Demonstration (Diagnostic Team) | 05                | 4-5                                  | 250           |

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

| No. | No. of Trainees | Date                                    |
|-----|-----------------|---|
| 1   | 30              | 12.09.2011 to 16.09.2011<br>(Five days) |

### Collaborative training

| No. | Name of training   | Duration             | Organizer   | No. of Trainees |
|-----|--|----------------------|---|-----------------|
| 1   | Gujarat & Rajasthan Zone-VI (KVK) Annual Zonal Workshop            | 09-11 .06.2011       | Zonal Project Director Zone-VI, CAZRI campus, ICAR, Jodhpur (Rajasthan)                     | 87              |
| 2   | National Level Model Training Course "Good Agricultural Practices" | 28.09.11 to 05.10.11 | Directorate of Extension, Ministry of Agriculture & Cooperation, Govt. of India, New Delhi. | 16              |
| 3   | National Level Training Programme " Writing for Print Media"       | 27-29 .02.2012       | National Institute of Agriculture Extension Management (MANAGE), Hyderabad                  | 25              |

### (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, 204 on-campus and 252 off-campus training programmes were organized, wherein 15452 participants received training. The details are given in Table 5.1.

**Table 5.1 Training programmes organized by the Transfer of Technology Centres for farmers/farm women during the year 2011-12**

| No. | TOT Centre     | No. of Training Programme | No. of participants |        |             |       | Total |      |
|-----|----------------|---------------------------|---------------------|--------|-------------|-------|-------|------|
|     |                |                           | Male                | Female | Rural Youth | Other |       |      |
| 1   | KVK, Jamnagar  | A                         | 26                  | 521    | 124         | 79    | 113   | 837  |
|     |                | B                         | 39                  | 1017   | 300         | 0     | 0     | 1317 |
| 2   | KVK, Targhadia | A                         | 37                  | 532    | 204         | 159   | 236   | 1132 |
|     |                | B                         | 54                  | 952    | 242         | 200   | 48    | 1442 |



| No.                | TOT Centre         |   | No. of Training Programme | No. of participants |             |             |            | Total        |
|--------------------|--------------------|---|---------------------------|---------------------|-------------|-------------|------------|--------------|
|                    |                    |   |                           | Male                | Female      | Rural Youth | Other      |              |
| 3                  | KVK, Amreli        | A | 66                        | 1165                | 726         | 78          | 77         | 2046         |
|                    |                    | B | 56                        | 3389                | 1003        | 55          | 42         | 4489         |
| 4                  | KVK, Khapat        | A | 37                        | 888                 | 105         | 0           | 0          | 993          |
|                    |                    | B | 57                        | 1104                | 298         | 0           | 4          | 1406         |
| 5                  | KVK, Nanakandhasar | A | 38                        | 672                 | 215         | 0           | 0          | 887          |
|                    |                    | B | 46                        | 889                 | 0           | 14          | 0          | 903          |
|                    | Total              | A | 204                       | 3778                | 1374        | 316         | 426        | 5894         |
|                    |                    | B | 252                       | 7351                | 1843        | 269         | 94         | 9557         |
| <b>Grand Total</b> |                    |   | <b>456</b>                | <b>11129</b>        | <b>3217</b> | <b>585</b>  | <b>520</b> | <b>15452</b> |

A= On-campus B=Off-campus

### (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 72215 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 feed backs provide guideline in reforming further research.

**Table 5.2 Extension activities carried out by TOT centres during 2011-12**

| No. | Name of activity                              | KVK           |              |                |             |                | Total          |
|-----|---|---------------|--------------|----------------|-------------|----------------|----------------|
|     |   | Targhadia     | Jamnagar     | Khapat         | Amreli      | Nana Kandhasar |                |
| 1   | Krusha Mela                                   | -             | 1<br>(3550)  | 2<br>(466)     | -           | 10<br>(1023)   | 13<br>(5039)   |
| 2   | Field day                                     | 4<br>(181)    | 6<br>(174)   | 8<br>(160)     | 9<br>(104)  | 18<br>(336)    | 45<br>(955)    |
| 3   | Guidance on farm                              | 23<br>(238)   | 22<br>(105)  | 280 (280)      | 58<br>(195) | 24<br>(343)    | 407<br>(1161)  |
| 4   | Guidance to visitors                          | 220<br>(2648) | 187<br>(187) | 1121<br>(1121) | 107 (144)   | 87<br>(2823)   | 1722<br>(6923) |
| 5   | Press note                                    | 10            | 4            | 2              | 8           | -              | 24             |
| 6   | Khedut shibir/ Night shibir/ Group discussion | 26<br>(547)   | 3<br>(87)    | 4<br>(341)     | 6<br>(205)  | -              | 39<br>(1180)   |
| 7   | Guidance through Telephone                    | (2700)        | (1050)       | (1017)         | (506)       | (72)           | (5345)         |
| 8   | Guidance through Letter                       | 2             | 126          | -              | -           | -              | 128            |
| 9   | Demonstrations                                | 35<br>(1467)  | -            | -              | 26<br>(280) | -              | 61<br>(1747)   |



| No. | Name of activity                                    | KVK          |              |              |               |                | Total                   |
|-----|---|--------------|--------------|--------------|---------------|----------------|-------------------------|
|     |   | Targhadia    | Jamnagar     | Khapat       | Amreli        | Nana Kandhasar |                         |
| 10  | Krushgi gosthi/<br>Seminar                          | 8<br>(141)   | 3<br>(1215)  | 17<br>(467)  | 24<br>(114)   | 5<br>(319)     | 57 (2256)               |
| 11  | Khedut meeting                                      | -            | 8<br>(234)   | 9<br>(147)   | -             | 4<br>(210)     | 21<br>(591)             |
| 12  | T.V. Programme                                      | 26           | -            | 5            | -             | 3              | 34                      |
| 13  | Radio talk  | 12           | 3            | 3            | -             | 5              | 23                      |
| 14  | Popular articles                                    | 12           | 3            | -            | 8             | -              | 23                      |
| 15  | Video show/ Film<br>show                            | 19<br>(1248) | 6<br>(300)   | 36<br>(960)  | -             | 20<br>(775)    | 81<br>(3283)            |
| 16  | Cattle camp   | 15<br>(4068) | -            | -            | -             | 3<br>(255)     | 18<br>(4323)            |
| 17  | Extension prog./<br>Training                        | -            | 1<br>(3550)  | -            | -             | 10<br>(1023)   | 11<br>(4573)            |
| 18  | Literature<br>distribution                          | -<br>(6800)  | 17<br>(1860) | 10<br>(3406) | 10<br>(1400)  | 2115<br>(2200) | 2152<br>(15666)         |
| 19  | Literature published                                | 13           | -            | 2            | 16<br>(1400)  | 2<br>(288)     | 33<br>(1688)            |
| 20  | Lectures  | 47<br>(4609) | -            | -            | 143<br>(4950) | 41<br>(3096)   | 231<br>(12655)          |
| 21  | Field diagnostic                                    | -            | 17<br>(588)  | -            | 140<br>(140)  | -              | 157<br>(728)            |
| 22  | Scientist's farm visit                              | 33<br>(356)  | -            | -<br>(64)    | -<br>(33)     | -              | 33<br>(453)             |
| 23  | Vocational training                                 | -            | 5<br>(122)   | 7<br>(126)   | -             | 4<br>(88)      | 16<br>(336)             |
| 24  | Crop demonstration                                  | 12<br>(159)  | 120<br>(120) | -            | -             | -              | 132<br>(279)            |
| 25  | Sponsored training                                  | -            | -            | -            | -             | 1<br>(25)      | 1<br>(25)               |
| 26  | Collaboration<br>training                           | -            | -            | -            | -             | 11<br>(380)    | 11<br>(380)             |
| 27  | <i>Krushgi-Go-Vidya</i><br>subscriber<br>Registered | -            | (5)          | (178)        | -             | -              | (183)                   |
| 28  | Diagnostic team                                     | 23<br>(238)  | 22<br>(38)   | 142<br>(317) | 14<br>(174)   | 4<br>(42)      | 205<br>(809)            |
| 29  | Student   | 1<br>(39)    | -            | -            | -             | -              | 1<br>(39)               |
| 30  | Celebration of<br>technology week                   | 1<br>(767)   | -            | -            | 1<br>(430)    | 1<br>(401)     | 3<br>(1598)             |
| 31  | Child day   | -            | -            | -            | -             | -              | -                       |
| 32  | Press released of<br>Agril. related                 | 8            | 2            | -            | -             | -              | 10                      |
|     |   |              |              |              |               | <b>Total</b>   | <b>5692<br/>(72215)</b> |

Figures in parentheses indicate number of beneficiaries/copies



### (C) Front Line Demonstrations

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

In all, 545 FLDs were conducted on various

oilseeds and pulses, viz., castor, mustard, groundnut, sesamum, cotton, gram, wheat, pearl millet and cumin in 203.8 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 2011-12**

| No. | Centre            | Crop                  | Variety/<br>Treatment | No.<br>of<br>FLDS | Area<br>(ha) | Av. yield (q/ha) |             | Increase in<br>yield (%) |
|-----|-------------------|-----------------------|-----------------------|-------------------|--------------|------------------|-------------|--------------------------|
|     |                   |                       |                       |                   |              | Demo.            | Local check |                          |
| 1   | KVK,<br>Targhadia | Groundnut             | GG-5                  | 10                | 4            | 11.86            | 10.82       | 9.61                     |
|     |                   | Sesamum               | GT-2                  | 5                 | 2            | 11.50            | 10.30       | 11.65                    |
|     |                   | Green gram            | GM-4                  | 5                 | 2            | 5.2              | 4.8         | 8.33                     |
|     |                   | Black gram            | GU-1                  | 8                 | 3.2          | 4.2              | 3.8         | 10.53                    |
|     |                   | Pearl Millet          | GHB-538               | 20                | 8            | 25.67            | 24.35       | 5.42                     |
|     |                   | Groundnut             | GG-20                 | 10                | 4            | 15.8             | 15.0        | 5.33                     |
|     |                   | Cotton                | Bt.                   | 50                | 20           | 32.35            | 30.83       | 4.93                     |
|     |                   | Wheat                 | GW-366                | 12                | 4.8          | 45.31            | 42.10       | 7.62                     |
|     |                   | Cumin                 | GC-4                  | 15                | 6            | 7.17             | 6.70        | 7.01                     |
|     |                   | Mineral Mittha Powder | V.M. All Powda        | 10                | -            | 16.30            | 15.50       | 5.16                     |
| 2   | KVK,<br>Jamnagar  | Groundnut NPV         | GG-20                 | 5                 | 2            | 16.56            | 14.06       | 17.78                    |
|     |                   | Groundnut             | GG-20                 | 5                 | 2            | 17.19            | 14.37       | 19.62                    |
|     |                   | Chickpea              | GG-3                  | 15                | 6            | 31.25            | 22          | 21.98                    |
|     |                   | Wheat                 | GW-366                | 20                | 8            | 58.13            | 48.12       | 20.80                    |
|     |                   | Cumin                 | GC-4                  | 10                | 4            | 7.81             | 6.56        | 19.05                    |
|     |                   | Pearl millet          | GHB-538               | 20                | 8            | 33.75            | 28.75       | 17.39                    |
| 3   | KVK,<br>Amreli    | Groundnut             | GG-2                  | 10                | 4            | 23.9             | 21.9        | 9.13                     |
|     |                   | Groundnut             | GG-20                 | 10                | 4            | 20.19            | 18.38       | 9.85                     |
|     |                   | Sesame                | GS-1                  | 10                | 4            | 17.58            | 15.19       | 15.73                    |
|     |                   | Gram                  | GG-3                  | 20                | 10           | 23.55            | 21.50       | 9.53                     |
|     |                   | Cumin                 | GC-4                  | 10                | 4            | 4.92             | 4.45        | 10.56                    |
|     |                   | Wheat                 | GW-366                | 25                | 10           | 44.72            | 39.20       | 14.08                    |
|     |                   | Sesame                | GT-3 (Til-3)          | 20                | 8            | 12.09            | 11.21       | 7.85                     |
|     |                   | Bajra                 | GHB-538               | 20                | 8            | 27.10            | 25.13       | 7.84                     |
| 4   | KVK,<br>Khatpat   | Wheat                 | GW-366                | 20                | 10           | 48.13            | 43.34       | 11.05                    |
|     |                   | Coriander             | GC-2                  | 10                | 4            | 17.9             | 16.15       | 10.84                    |
|     |                   | Gram NPV              | GG-3                  | 10                | 4            | 17.24            | 16.54       | 4.23                     |
|     |                   | Cotton                | Bt.                   | 25                | 10           | 30.10            | 25.61       | 17.53                    |



| No.          | Centre                | Crop                | Variety/<br>Treatment            | No. of<br>FLDS | Area<br>(ha) | Av. yield (q/ha) |             | Increase in<br>yield (%) |
|--------------|-----------------------|---------------------|----------------------------------|----------------|--------------|------------------|-------------|--------------------------|
|              |                       |                     |                                  |                |              | Demo.            | Local check |                          |
| 5            | KVK,<br>Nanakandhasar | Groundnut           | GG-20                            | 10             | 4            | 17.48            | 15.33       | 14.02                    |
|              |                       | Sesame              | Guj. Til-2                       | 10             | 4            | 5.90             | 5.20        | 13.46                    |
|              |                       | Green Gram          | GM-4                             | 10             | 4            | 8.67             | 7.53        | 15.14                    |
|              |                       | Cotton              | Bt.                              | 10             | 4            | 27.70            | 23.65       | 17.12                    |
|              |                       | Bio -agent<br>G.nut | <i>Trichoderma<br/>harzianum</i> | 25             | 10           | 17.18            | 15.14       | 13.47                    |
|              |                       | Mustard             | GM-2                             | 10             | 4            | 16.35            | 14.33       | 14.10                    |
|              |                       | Gram                | GG-3                             | 10             | 4            | 15.16            | 13.38       | 13.30                    |
|              |                       | Cumin               | GC-4                             | 20             | 8            | 7.09             | 6.21        | 14.17                    |
|              |                       | Wheat               | GW-496                           | 20             | 10           | 40.22            | 35.51       | 13.26                    |
| <b>Total</b> |                       |                     |                                  | <b>545</b>     | <b>220.0</b> |                  |             |                          |

#### (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   | 6                 | 1462400             |
| 2   | Agril. Exhibitions (participation)                      | 6                 | 36895               |
| 3   | <i>Khedut/Mahila Shibir</i> /Group Meeting/Crop Seminar | 2                 | 555                 |
| 4   | Spot Guidance / Guidance through Letters                | 145               | 1350                |
| 5   | Agril. Literature Exhibition                            | 7                 | 44757               |
|     |   | <b>166</b>        | <b>1545957</b>      |

#### (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 Samities* in rural areas.
- To carry out different extension activities through GKS in different villages.
- To know the feedbacks from the farmers.

#### Formulation of *Gram Kisan Samitis* during the year 2011-12

| No.          | District | Taluka       | No. of <i>Gram Kisan Samitis</i> |
|--------------|----------|--------------|----------------------------------|
| 1            | Rajkot   | Dhoraji      | 1                                |
| 2            | Amreli   | Lathi        | 2                                |
| 3            | Junagadh | Malia Hatina | 2                                |
| 4            | Junagadh | Mendarada    | 4                                |
| 5            | Junagadh | Vanthali     | 2                                |
| 6            | Junagadh | Keshod       | 3                                |
| 7            | Junagadh | Una          | 1                                |
| 8            | Junagadh | Sutrapada    | 1                                |
| 9            | Junagadh | Junagadh     | 4                                |
| 10           | Jamnagar | Lalpur       | 1                                |
| <b>Total</b> |          |              | <b>21</b>                        |

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

| No. | Subject  | No. of Training Programmes | No. of Beneficiaries |
|-----|--|----------------------------|----------------------|
| 1   | Seed Production technology for farmers/ farm women | 04                         | 109                  |



Training programmes for farm women



Training programmes for farmers



Celebration of field day



**Khedut Shibirs organized during the year 2011-12 under COC scheme**

| No. | Name of the Taluka      | No. of shibirs | No. of participants | Subjects covered  |
|-----|-------------------------|----------------|---------------------|---|
| 1   | Lathi (Amreli)          | 2              | 88                  | Agriculture, Horticulture, Animal Husbandry and Efficient use of water through adoption of drip, sprinkler or micro irrigation systems. |
| 2   | Malia Hatina (Junagadh) | 1              | 66                  |   |
| 3   | Junagadh(Junagadh)      | 2              | 143                 |   |
| 4   | Amreli (Amreli)         | 1              | 78                  |   |
| 5   | Talala (Junagadh)       | 1              | 47                  |   |
| 6   | Mendarada (Junagadh)    | 1              | 10                  |   |
| 7   | Keshod (Junagadh)       | 1              | 51                  |   |
| 8   | Visavadar (Junagadh)    | 1              | 31                  |   |
| 9   | Upleta (Rajkot)         | 1              | 52                  |   |
|     | <b>Total</b>            | <b>11</b>      | <b>566</b>          |   |

**Bakery Talim organized during the year 2011-12 under COC scheme**

| No. | Name of the Taluka   | No. of shibirs | No. of participants | Subject covered              |
|-----|----------------------|----------------|---------------------|------------------------------|
| 1   | Junagadh (Junagadh)  | 1              | 25                  | Making Bakery items in home. |
| 2   | Mendarada (Junagadh) | 2              | 94                  |                              |
|     | <b>Total</b>         | <b>3</b>       | <b>119</b>          |                              |

**(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 | LITC, Junagadh | School of Baking, Junagadh | Total          |
|-----|--|--------------------------------|------------------------------|----------------|----------------------------|----------------|
| 1   | <i>Krusha Mela</i>                                   | -                              | 1<br>(437)                   | 2              | -                          | 3<br>(437)     |
| 2   | Guidance on farm                                     | -<br>(1205)                    | 3<br>(14)                    | -              | -                          | 3<br>(1219)    |
| 3   | Guidance to visitors                                 | -<br>(6067)                    | 40<br>(1823)                 | 70<br>(2900)   | 43<br>(1452)               | 153<br>(12242) |
| 4   | Press note   | -                              | 3<br>(14)                    | -              | -                          | 3<br>(14)      |
| 5   | <i>Khedut shibir/ Night shibir/ Group discussion</i> | -                              | 4<br>(357)                   | -              | -                          | 4<br>(357)     |
| 6   | Guidance through Telephone                           | -                              | (52)                         | (629)          | -                          | (681)          |
| 7   | Guidance through Letter                              | -                              | (19)                         | -              | -                          | (19)           |
| 8   | Demonstrations                                       | -                              | 2<br>(10)                    | -              | -                          | 2<br>(10)      |



| No. | Name of activity                       | Sardar Smruti Kendra, Junagadh | Fisheries Res. Station, Okha | LITC, Junagadh | School of Baking, Junagadh | Total                  |
|-----|--|--------------------------------|------------------------------|----------------|----------------------------|------------------------|
| 9   | Krushgi gosthi/ Seminar                | -                              | 2<br>(243)                   | -              | -                          | 2<br>(243)             |
| 10  | T.V. Programme                         | -                              | -                            | 9              | -                          | 9                      |
| 11  | Radio talk                             | -                              | -                            | 1              | -                          | 1                      |
| 12  | Video show/ Film show                  | -                              | 2<br>(24)                    | -              | -                          | 2<br>(24)              |
| 13  | Literature distribution                | -                              | 3<br>(86)                    | 64<br>(11420)  | -                          | 67<br>(11506)          |
| 14  | Literature published                   | 5<br>(20500)                   | 4<br>(5000)                  | 5<br>(40007)   | -                          | 14<br>(65507)          |
| 15  | Lectures                               | -                              | -                            | 2<br>(61)      | -                          | 2<br>(61)              |
| 16  | Krushgi-Go-Vidya subscriber Registered | 174                            | -                            | -              | -                          | (174)                  |
| 17  | Cattle camp                            | -                              | -                            | 1<br>(80)      | -                          | 1<br>(80)              |
| 18  | Bakery Training                        | -                              | -                            | -              | 12<br>(800)                | 12<br>(800)            |
| 19  | Graduate student                       | -                              | 4<br>(22)                    | 10<br>(100)    | -                          | 14<br>(122)            |
| 20  | Visitors                               | (4055)                         | (105)                        | (1739)         | -                          | (5899)                 |
| 21  | L.I. Training                          | -                              | -                            | 7<br>(68)      | -                          | 7<br>(68)              |
|     |  |                                |                              |                | <b>Total</b>               | <b>299<br/>(99476)</b> |

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, nearly 41 such talks were delivered on different topics related to agriculture, horticulture, agricultural engineering, fisheries, animal husbandry, etc.

In all, 42 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" programme regularly for the benefit of farming community.





## 5.5 Publication of Extension Education Literature

During the year, total 23 publications (20 folders and 3 booklets) were published by different departments.

| No.          | Name of Office   | Type of Publication |          | Total     |
|--------------|--|---------------------|----------|-----------|
|              |  | Folder              | Booklets |           |
| 1            | Director of Extension Education, JAU, Junagadh                               | 16                  | 1        | 17        |
| 2            | Vegetable Research Station, JAU, Junagadh                                    | -                   | 1        | 1         |
| 3            | Deptt. of Soil & Water Engg., College of Agril. Engg. & Tech., JAU, Junagadh | 2                   | 1        | 3         |
| 4            | School of Baking   | 2                   | -        | 2         |
| <b>Total</b> |  | <b>20</b>           | <b>3</b> | <b>23</b> |

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

## 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, 16 scientists/teachers of the University were deputed for participating in the orientation training programmes

organized within and outside the state to upgrade knowledge and skill for improving their faculty competence in respective disciplines.

### **Krushi Mahotsav-2011**

Government of Gujarat has started the celebration of *Krushi Mahotsav* from 2005-06. In the *Krushi Mahotsav-2011*, Junagadh Agricultural University has spared services of about 700 scientists/ officers to advise the farming community about the latest agricultural technologies. *Khedut shibirs* were organized in different districts. The details of *shibirs* organised by the university are given below.

| No. | District  | Taluka             | Date       | Beneficiaries Nos. |
|-----|-----------|--------------------|------------|--------------------|
| 1   | Junagadh  | Talala             | 13.05.2011 | 70                 |
|     |           | Visavadar          | 22.05.2011 | 225                |
|     |           | Una                | 23.05.2011 | 50                 |
| 2   | Rajkot    | Wankaner (Satapar) | 14.05.2011 | 150                |
|     |           | Wankaner           | 17.05.2011 | 250                |
| 3   | Amreli    | Amreli             | 08.05.2011 | 700                |
|     |           | Dhari              | 03.06.2011 | 175                |
| 4   | Bhavnagar | Botad              | 29.05.2011 | 175                |
|     |           | Palitana           | 02.06.2011 | 325                |
|     |           | Bhavnagar          | 04.06.2011 | 220                |
|     |           | Mahuva             | 10.06.2011 | 650                |

