ICAR-Agriculture Technology Application Research Institute Zone-VIII, Pune

Report of the Quinquennial Review Team (QRT) for the period of 2011-12 to 2018-19

| 1 | Name and location of KVK | Krishi Vigyan Kendra |
|---|---|---|
| | | Navsari Agricultural University |
| | | Eru Char Rasta |
| | | Navsari-396 450 |
| | | Gujarat |
| 2 | Name of the Head of KVK with postal | Dr.C.K.Timbadia |
| _ | address, Telephone / Mobile No. and email | Senior Scientist & Head |
| | address, receptione / widdle ivo. and chian | Mobile No: 98253864354, 9725006012 |
| | | E-mail:kvknavsari@nau.in/ |
| | | kvknavsari@yahoo.com |
| 3 | Name of District and State Head Qtrs. | Navsari District |
| | _ | Gujarat state |
| 4 | Sanction order No. and date | 13-I/2006-AE-I, Date: 18.3.06 |
| 5 | Date of Establishment | 18-03-2006 |
| 6 | Name and Address of the Host Organization | Directorate of Extension Education, |
| | | Navsari Agricultural University |
| | | Eru Char Rasta |
| | | Navsari-396 450 |
| | | Gujarat |
| | | Office: (02637) 282706 |
| | | E mail: dee@nau.in |
| 7 | Type of Host Organization | SAU |
| | (ICAR/SAU/NGO/Others) | |
| 8 | Name of the chairman/president/ secretary | Navsari Agricultural University |
| | of Host Organization with postal address, | Navsari, Eru char rasta, |
| | Telephone / Mobile No. and email. | Navsari -396450, Gujarat |

9. Mandate and functions

| Mandate | Functions/major activities |
|---|---|
| Arrange front-line demonstrations and | Established production potentials of technologies on |
| on-farm trials at farmer's fields | the farmers' fields, Viz., SRI method in rice, Pigeon |
| | pea (HY & tolerant to pest and disease) and In land |
| | aquaculture. |
| | Identified the location specificity of agricultural |
| | technologies under various farming systems viz., |
| | Nutrient management in pulses, disease and pest |
| | management in vegetables. |
| Organize short and long term vocational | Orient them in the frontier areas of technology |
| training courses | development; and Work as resource and knowledge |
| | centre |
| Organize on and off campus training | Updated their knowledge and skills in modern |
| programmes for farmers, rural women, | agricultural technologies |

| youth, and officers of the Department of | |
|--|--|
| Agriculture | |
| | To work as knowledge and resource centre of agricultural technologies for supporting initiatives of public, private and voluntary sector in improving the agricultural economy of the district. |
| | Provide farm advisories using ICT tools and other media means on varied subjects of interest of farmers |
| | In addition, KVKs produce quality technological products (seed, planting material, bio-agents, livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and converge with ongoing schemes and programs. |

10. Staff Position (based on Sanctioned Strength) and their mobility for the period under review

| S. No | Designation | No. of Sanct ioned Posts | Name of person | Pay scale (Rs.) | Date of Joining | Date of Leavi ng | Reason for leaving if any |
|----------|--------------------------|--------------------------------------|--------------------------|-----------------------|--------------------|---------------------------|---------------------------------|
| 1 | Programme Coordinator | 1 | Dr. C. K. Timbadia | 131400 - 217100 | 14.06.2010 | Conti | |
| 2 | SMS | 6 | Dr. R. M. Naik | 15,600- 39,100 | 12.05.94 | | Transfer |
| | | | Dr. M.A.Katariya | 15,600- 39,100 | 1.08.09 | | Transfer |
| | | | Dr.B.M.Tandel | 15,600- 39,100 | 22.3.11 | | Promotion |
| | | | Dr. K. A. Shah | 68900 - 205500 | 06.02.2012 | Conti | |
| | | | Prof. P. P. Patel | 68900 - 205500 | 01.02.2013 | Conti | |
| | | | Dr.Shivam Bhatt | 15,600- 39,100 | 01.10.2015 | 30.04 .2016 | Transfer |
| | | | Mrs. Minaxi Prajapati | 15,600- 39,100 | 1.11.10 | | Resignation |
| | | | Smt. G. J. Bhimani | 15,600- 39,100 | 11.09.12 | | Transfer |
| | | | Dr. P. H. Nayaka | 68900 - 205500 | 23.05.2013 | Conti | |

| | | | Prof. R.A. Gurjar | 57700 - | 30.04.2016 | Conti | |
|---|-------------|---|---------------------|----------|------------|-------|-------------|
| | | | | 182400 | | | |
| | | | Smt. Dipal Soni | 15,600- | 11.09.12 | 30.06 | Resignation |
| | | | | 39,100 | | .2019 | |
| | | | Dr. S. R. Salunkhe | 57700 - | 12.08.2015 | Conti | |
| | | | | 182400 | | | |
| 3 | Programme | 2 | Smt.R. B. Patel | 10,000/- | 20.08.08 | | Promotion |
| | Assistant/ | | | fix | | | |
| | (Farm | | Nital N.Patel | 10,000/- | 18.08.08 | | Promotion |
| | manager) | | | fix | | | |
| | | | Mr. A. N. Lad | 39900- | 20.10.2011 | Conti | |
| | | | | 126600 | | •••• | |
| 4 | Computer | 1 | Mr. C. B. Naik | 39900- | 14.08.2008 | Conti | |
| | programmer | 1 | | 126600 | | | |
| 5 | Accountant/ | 1 | Shri H.U.Solanki | 5,200- | 01.02.12 | | Transfer |
| | Superintend | | | 20,200 | | | |
| | ent | | Devendra Rasiklal | 25500- | 20.03.2010 | Conti | |
| | | | Rana | 81100 | | •••• | |
| | | | Shri Mangesh Patel | 5,200- | 01.02.12 | | Retired |
| | | | | 20,200 | | | |
| 6 | Driver cum | 2 | Shri. H. Z. Chauhan | 19900- | 23.08.2007 | Conti | |
| | mechanic | | | 63200 | | •••• | |
| 7 | Stenographe | 1 | Swapna T. R. | Fix - | 12.8.08 | | Promotion |
| | r | | | 5300/- | | | |
| 8 | Supporting | 2 | Shri Mahesh Rathod | 4440- | 28.06.11 | | |
| | Staff | | | 7,400 | | | |
| | | | Vacant | | | | |

11. Status of fund utilization (Rs. in lakh)

A. ICAR Main

| | D. L. A. II. | 201 | 1-12 | 201 | 2-13 | 201 | 3-14 | 201 | 4-15 | 201 | 5-16 | 201 | 6-17 | 2017 | '-18 | 2018 | 8-19 | TO | TAL |
|-------|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|--------|--------|-------------|--------|-------------|--------|--------|
| S.No. | Budget Head | S | U | S | U | S | U | S | U | S | U | S | U | S | U | S | U | S | U |
| Α. | Recurring contingencies | | | | | | | | | | | | | | | | | | |
| 1 | Pay and allowances | 53.00 | 51.25 | 43.00 | 42.82 | 61.15 | 61.12 | 72.00 | | 82.50 | 75.74 | 78.21 | 82.79 | 94.67 | 85.02 | 92.00 | 82.73 | 576.53 | 560.91 |
| 2 | Travelling allowances | 1.50 | 96:0 | 1.00 | 0.78 | 1.25 | 1.07 | 0.50 | 79.44 | 06.7 | 8.39 | 21.34 | 20.42 | 9.88 | 9.85 | 12.73 | 12.70 | 56.1 | 54.17 |
| 3 | Contingencies | 8.00 | 7.98 | 9.00 | 9.00 | 12.00 | 12.00 | 4.50 | | 7.9 | <u></u> | 21 | 20 | 9.6 | 9.6 | 12 | 12 | 33.5 | 28.98 |
| | Total (A) | 62.50 | 60.19 | 53.00 | 52.60 | 74.40 | 74.19 | 77.00 | 79.44 | 90.40 | 84.13 | 99.55 | 103.21 | 104.55 | 94.87 | 104.73 | 95.43 | 666.13 | 644.06 |
| В. | Non recurring contingencies | | | | | | | | | | | | | | | | | | |
| 1 | Works | 13.68 | 13.68 | | | | | | | • | | 3.80 | 3.79 | | | | • | 17.48 | 17.47 |
| 2 | Equipment including SWTL & Furniture | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | ı | • | - |

| 3 | Vehicle | 0.50 | 0.50 | • | | | | • | | • | | | • | • | ı | | | 0.50 | 0.50 |
|----|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|--------|-------|--------|--------|
| 4 | Library | - | - | - | - | - | | - | 1 | 1 | • | | | • | • | • | - | • | - |
| | Total (B) | 14.18 | 14.18 | 1 | 1 | 1 | 1 | | - | - | • | 3.80 | 3.79 | • | - | • | • | 17.98 | 17.97 |
| С. | Other if any | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | Total (A+B+C) | 76.68 | 74.37 | 53.00 | 52.60 | 74.40 | 74.19 | 77.00 | 79.44 | 90.40 | 84.13 | 103.35 | 107.00 | 140.55 | 94.87 | 104.73 | 95.43 | 684.11 | 662.03 |

S= Sanctioned U= Utilized

B. ICAR funded research/extension projects other than main

| S.No. | Name of the | 201 | 1-12 | 201 | 2-13 | | 13- 4 | | 14- 15 | 201: | 5-16 | 201 | 6-17 | 201 | 7-18 | 201 | 8-19 | TOT | ΓAL |
|-------|-------------|-----|------|-----|------|---|----------|---|-----------|------|------|-------|------|------|-------|-------|-------|--------|-------|
| 5.NO. | project | S | U | S | U | S | U | S | U | S | U | S | U | S | U | S | U | S | U |
| | | | | | | | | | | | | | | | | | | | |
| 1 | NICRA | - | - | - | - | - | - | - | - | - | - | - | - | - | • | - | - | - | - |
| 2 | ARYA | - | - | - | - | • | • | - | • | - | - | - | - | - | ı | 6.84 | 0.08 | 6.84 | 0.08 |
| 3 | VATICA | • | | | - | | | - | • | - | - | - | - | - | - | - | - | - | - |
| 4 | KSHAMTA | - | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5 | NARI | • | • | • | - | ı | ı | - | ı | ı | - | - | - | 1 | 1 | 1 | - | - | - |
| 6 | Seed hub | - | | | - | | | - | • | - | - | 85.0 | 0.03 | 31.0 | 30.03 | 34.0 | 16.89 | 150.0 | 46.95 |
| 7 | Kisan mela | | | | | | | | | 1.60 | 1.60 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 4.00 | 4.00 |
| 8 | Soil kit | | | | | | | | | 1.25 | 1.23 | 0.86 | 0.86 | | · | | | | |
| | Total | | | | - | | | - | - | 2.85 | 2.83 | 86.66 | 1.69 | 31.8 | 30.83 | 41.64 | 17.77 | 160.84 | 51.03 |

C. Projects other than ICAR (Through ATARI or Direct to Host Institute)

| | | Name | | 11-12 | 201 | 2-13 | | 3-14 | 201 | 4-15 | 2015 | 5-16 | 201 | 16-17 | | 7-18 | | 8-19 | ТО | TAL |
|-------|------------------------|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| S.No. | Name of the project | of funding agency/ Scheme | S | U | S | U | S | U | S | U | S | U | S | U | S | U | S | U | S | U |
| 1 | CFLD on Pulses | NFSM | 1 | - | 1 | 1 | 1 | 1 | - | - | 1.50 | 1.50 | 6.60 | 3.56 | 2.06 | 2.02 | 12.38 | 3.72 | 22.54 | 10.8 |
| 2 | CFLD on Oilseeds | NMOOF | I | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| 3 | TSP | | 8.00 | 6.12 | 59.44 | 45.30 | 25.60 | 20.75 | 50.85 | 23.46 | 97.27 | 93.65 | 1 | 1 | 1 | 1 | 1 | 1 | 241.16 | 189.28 |
| 4 | ASCI | RKVY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | ı | - | 3.40 | 3.38 | | | 3.88 | 3.85 | 7.28 | 7.23 |
| 5 | Adaptive trial | Govt.of Gujarat | 22.50 | 22.50 | 19.75 | 19.75 | 3.00 | 3.00 | 14.30 | 14.14 | 12.20 | 12.19 | 9.00 | 8.86 | 12.50 | 12.49 | 12.00 | 11.99 | 105.25 | 104.92 |
| 6 | Inland aquaculture | Govt.of Gujarat | 3.50 | 3.50 | 7.50 | 7.49 | 8.50 | 8.50 | 19.40 | 19.40 | 17.68 | 17.66 | 19.25 | 19.24 | 23.70 | 23.61 | 23.25 | 23.22 | 122.78 | 122.62 |
| | Total | | 34 | 32.12 | 69'98 | 72.54 | 37.1 | 32.25 | 84.55 | 57 | 128.65 | 125 | 38.25 | 35.04 | 38.26 | 38.12 | 51.51 | 42.78 | 499.01 | 434.85 |

D. Contribution of host institute, if any

| S.No. | Name of the project/activity | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 | TOTAL |
|-------|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| 1 | KVK Building | - | - | - | - | - | - | - | - | - |
| 2 | Contingency | - | - | - | - | - | - | - | - | - |
| 3 | Soil Health day | - | - | - | - | - | - | - | - | - |
| 4 | Farm Pond | - | - | - | - | - | - | - | - | - |
| 5 | Soil Lab | - | - | - | - | - | - | - | - | - |
| 3 | instrumtens | | | | | | | | | |
| 6 | Farm Godawon | - | - | - | - | - | - | - | - | - |
| 7 | Main Building | - | - | - | - | - | - | - | - | - |
| / | Extension | | | | | | | | | |
| 8 | Farm Fencing | - | - | - | - | - | - | - | - | - |
| 9 | Farm Development | - | - | - | - | - | - | - | - | - |
| | Total | - | - | - | - | - | - | - | - | - |

E. Status of Revolving Fund

(Rs in Lakh)

| S.No. | Particulars | 2011- | 2012- | 2013- | 2014- | 2015- | 2016- | 2017- | 2018- | TOTAL |
|--------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 3.110. | r ai ticulai s | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | |
| 1 | Opening | | | | | | | | | |
| | balance as on 1 st April | 9.93 | 1.60 | 16.65 | 12.89 | 10.70 | 5.61 | 5.81 | 3.61 | 66.80 |
| 2 | Income during the year | 7.75 | 30.05 | 16.80 | 14.64 | 9.43 | 10.88 | 6.85 | 9.56 | 105.94 |
| 3 | Expenditure | | | | | | | | | |
| | during the year | 16.08 | 14.99 | 20.56 | 16.83 | 14.52 | 10.68 | 9.05 | 7.51 | 110.22 |
| 4 | Amount refunded to ICAR | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| 5 | Closing balance as on 31st March | 0.60 | 16.65 | 12.89 | 10.70 | 5.61 | 5.81 | 3.61 | 5.65 | 62.52 |

12. Status of Infrastructural facilities available at KVK

A. Created with ICAR funds

| Items | Det | tails |
|------------------|--------------------------------------|------------------------|
| Land | 20 ha | |
| Office Buildings | 550 Sq. Mtr. | |
| Farmers' Hostel | 300 Sq. Mtr. | |
| Staff quarters | 06 | |
| Vehicles | Bolerao, Tempotraveller, Qualis, Mol | bile soil testing Van, |
| | Bajaj Discover and E Auto | |
| Tractors | Mahindra and Mini tractor | |
| e-connectivity | N- Computing- 09 PC's with Internet | facility |
| Demo units | Inland Aquaculture Units | |
| Threshing Floor | ICAR | Rs.1.44 lakh |
| Farm godown | ICAR | Rs.3.88 lakh |
| Seed hub godown | ICAR | Rs. 35 Lakh |
| Fencing | | |
| ATIC | | |
| Any other | | |

B. Created with funds other than ICAR

| Sr | Name of | Source | Stage | | | | | | | | | | |
|----|------------|--------|-----------------|---------|------------------|---------|--------|-------------|--|--|--|--|--|
| | building | of | | Complet | te | | Incomp | lete | | | | | |
| N | | fundin | Completio | Plint | Expenditur | Startin | Plint | Status of | | | | | |
| 0. | | g | n | h | e (Rs.) | g year | h | constructio | | | | | |
| | | | Year | area | | | area | n | | | | | |
| | | | | (Sq.m) | | | (Sq.m) | | | | | | |
| 1 | Rain | Und | er RKVY Proj | ect | | | | | | | | | |
| | Water | | constructed | | | | | | | | | | |
| | harvesting | (370 | 00 litre capaci | ty) | | | | | | | | | |
| | system | | 1 | | | | | | | | | | |
| 2 | ICT lab | RKVY | - | - | | | | | | | | | |
| 3 | Other | | | | | | | | | | | | |
| 4 | Farm | State | March-14 | - | 5.00 lakh | | | | | | | | |
| | godown | Plan | | | | | | | | | | | |
| | | Scheme | | | | | | | | | | | |
| 5 | Farmer's | State | March-17 | - | 5.00 lakh | | | | | | | | |
| | urinal | Plan | | | | | | | | | | | |
| | | Scheme | | | | | | | | | | | |
| 6 | Block | State | March-17 | - | 2.00 lakh | | | | | | | | |
| | Paving | Plan | | | | | | | | | | | |
| | | Scheme | | | | | | | | | | | |
| 7 | Fish Pond | State | March-18 | - | 2.25 lakh | | | | | | | | |
| | | Plan | | | | | | | | | | | |
| | | Scheme | | | | | | | | | | | |
| 8 | Vehicle | State | March-18 | - | 3.80 lakh | | | | | | | | |
| | Shed | Plan | | | | | | | | | | | |
| | | Scheme | | | | | | | | | | | |
| 9 | Road | State | March-18 | - | 4.00 lakh | | | | | | | | |
| | Expansion | Plan | | | | | | | | | | | |
| | | Scheme | | | | | | | | | | | |

13. Utilization of Hostel Facilities

Year of construction: 2010-11 No. of beds: 12

| Year | No. of trainees stayed | Trainee days (days stayed) | Reason for shortfall if any |
|---------|------------------------|----------------------------|-----------------------------|
| 2011-12 | 132 | 13 | |
| 2012-13 | 115 | 106 | |
| 2013-14 | 134 | 191 | |
| 2014-15 | 13 | 5 | Nil |
| 2015-16 | 30 | 8 | |
| 2016-17 | 55 | 11 | |
| 2017-18 | 91 | 35 | |
| 2018-19 | 249 | 40 | |

14. Utilization of Staff Quarters

| Year | No. of quarters available | No. of quarters in use | SLF generated (Rs) | Remarks if any |
|---------|------------------------------|------------------------|--------------------|----------------|
| 2011-12 | | | | |
| 2012-13 | | | | |
| 2013-14 | 5 | 3 | | |
| 2014-15 | 5 | 4 | | |
| 2015-16 | 5 | 4 | | |
| 2016-17 | 5 | 4 | | |
| 2017-18 | 5 | 4 | | |
| 2018-19 | 5 | 4 | | |

15. Status of land utilization at KVK

| S.No. | Item | Area (ha) |
|-------|---------------------------|-----------|
| 1 | Under buildings | 550 sq.m. |
| 2 | Under demonstration units | 0.50 |
| 3 | Under crops | 17.00 |
| 4 | Under horticulture | - |
| 5 | Pond | 1.00 |
| 6 | Others(Road, Gowdown etc) | 0.50 |
| | Total | 20.00 |

16. Details of SAC meetings conducted during last eight years

| Year | No. of meetings | Date/s of meeting | No. of members attended |
|---------|-----------------|-------------------|-------------------------|
| 2011-12 | 1 | 8/8/11 | 26 |
| 2012-13 | 1 | 1/9/12 | 44 |
| 2013-14 | 2 | 10/4/13 | 23 |
| | | 10/2/14 | 30 |
| 2014-15 | 1 | 19/2/15 | 26 |
| 2015-16 | 1 | 22/216 | 27 |
| 2016-17 | 1 | 2/3/17 | 26 |
| 2017-18 | 1 | 19/3/18 | 26 |
| 2018-19 | 1 | 20/3/19 | 26 |

17. Details of KVK jurisdiction and its profile:

| Particulars | Details |
|---|--|
| Total No. of blocks in the district and their | 6 :Jalalpore, Navsari, Gandevi, Chikhali, |
| names | Khergam, Vansda |
| No. of blocks under KVK's jurisdiction | 6 |
| and their names | |
| Names of adjoining districts / blocks | Jalalpore, Navsari, Gandevi, Chikhali, Vansda, |
| | Khergam |
| Climate details and agroclimatic zones | Rainfall: 2500 mm and more |
| | Type of Soil: Deep black with few patches of |
| | coastal alluvial, laterite and medium black soils. Soil Characteristics: Most of the area cultivated, |
| | some area non Cultivated under shallows and |
| | Past forest |
| | Soil fertility: Nitrogen-poor, Phosphorus |
| | medium, Potash High. |
| Major farming systems /enterprises | Agri - horticulture system |
| | Agri - horti- silviculture system |
| | Agri - horti- livestock production system |
| | Horti- livestock production system |
| | Horti- livestock - inland aquaculture production |
| | system |
| a) Soil types | Type of Soil: Deep black with few patches of |
| | coastal alluvial, laterite and medium black soils. |
| | Soil Characteristics: Most of the area cultivated. Some area non Cultivated under sallow and Past |
| | forest |
| | Soil fertility: Nitrogen-poor, Phosphorus- |
| | medium, Potash-High. |
| Major crops | Paddy, Pigeon pea, Sugarcane, Gram, Green |
| | gram, Maize, Mango, Sapota, Banana, Papaya, |
| | Onion, Brinjal, Okra, Cluster bean ,Cowpea, |
| | Cucurbits, Spider lily, Chilli, Garlic, Turmeric, |
| | Ginger |
| Major livestock | Cattle, Buffalo, Sheep, Goats, Rabbits, Pigs, |
| Major throat areas | Poultry Birds |
| Major thrust areas | • Vitahan gandaning |
| Soil health conservation Integrated forming | Kitchen gardening Seed treatment |
| • Integrated farming | Seed treatment Fish sulture method |
| • Seed production | • Fish culture method |
| Scientific management of livestock | Organic farming Granding distributions |
| Quality feed management for animal Nalva addition | Crop diversification Food management in colf |
| Value addition | Feed management in calf P: |
| • IPDM | Disease management in animals Fig. 4. 11: 2. 5: 1. 11: 2. 5: 1. 11: 11: 11: 11: 11: 11: 11: 11: 11: |
| • Cropping system | Fish stocking & fish composition |
| Any other | Marine, Inland, Shrimp |

18. Major Activities Undertaken during last eight years

a. Year wise activities undertaken

| Year | List activities undertaken |
|---------|--|
| 2011-12 | Innovative Farmers' Meet of Gujarat - 2011 |
| | Cage Fish Farming |
| | TOT (Transfer Of Technology) through Religious Organization |
| | Modern Techniques to reach huge mass of the farmers |
| | 6 th National Conference on KVKs-2011 |
| | Enhancing Farmers' income through developing value added |
| | product – A KVK Intervention |
| 2012-13 | Memorandum of Understanding (MoU) with Navsari Taluka Sangh |
| | Seminar On Amrit Krishi |
| | Kisan Goshti at Dandi |
| | 7 th Annual Zonal Workshop for KVKs of Zone VI - 2012 |
| | Celebration Of 'Sunhara Kal' Programme At Krishi Vigyan Kendra, Navsari |
| | Khedut Din at village Limzar |
| | 'kisan goshthi' on the importance of Silicylic acid in Agriculture |
| | Celebration of Technology week (For women empowerment) |
| | Sweet corn MoU with Saraf Food Ltd, Vadodra |
| | Mahila Shibir on integrated fish farming and cattle farming system |
| | Celebration of International Women's Day (9 th March-2013) |
| | Farmer's discussion on mango farming |
| | Kitchen Garden for Health improving component of rural family |
| 2013-14 | Mahindra Samriddhi India Agri Award 2014 |
| | DG Appreciated Inland Aquaculture of KVK Navsari |
| | Celebration of 85 th ICAR Foundation Day by KVK, Navsari |
| | Awareness Programme on Small Farmers' Agribusiness Consortium (SFAC) |
| | Farmer's Day |
| | Dr. Sadamate Visit to Pathari Village Pond on 15 th October, 2013 |
| | An awareness Programme on Protection of Plant Varieties & Farmers Rights |
| | Authority Act. |
| | Celebration of Farm Innovator's Day -2013 |

| Krishi Vigyan Kendra, Navsari Agricultural University, Navsari One day orientation training programme on processing & preparation of value added products with Soybean. Celebration of International Women's Day (7th March-2014) 2014-15 Awareness camp on Malnutrition Role of Anganwadi worker's in combating malnutrition Celebration of International year of family farming-2014 86th ICAR foundation day celebration Ultra High Density Plantation in mango – A new dimension in Navsari farmers Mahila Shibir on Importance of breast feeding and their benefits to infants Awareness Programme on Malnutrition Knowledge saves lives - Krishi Vigyan Kendra, Navsari Contribution to breast cancer awareness programme. Awareness Programme on Animal Husbandry |
|--|
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| Awareness Programme on Malnutrition Knowledge saves lives - Krishi Vigyan Kendra, Navsari Contribution to breast cancer awareness programme. |
| Knowledge saves lives - Krishi Vigyan Kendra, Navsari Contribution to breast cancer awareness programme. |
| cancer awareness programme. |
| |
| Awareness Programme on Animal Husbandry |
| |
| Technology Week Celebration |
| Celebration of International Women's Day (24 th March-2015) Impossible works |
| can be possible in the world if women united together Women's achievements |
| appreciated in the International Women's Day celebration at Navsari |
| 2015-16 Kisan Sammelana cum Exhibition |
| Mahila Sammelan- cum- Health Check Up Camp |
| Fish farmers' shibir/seminar |
| Training on Petroleum- Energy Conservation |
| Garib Kalyan Mela |
| International Soil health Day-2015 |
| Shivyog Holistic Farming |
| Knowledge saves lives - Krishi Vigyan Kendra, Navsari Contribution to breast |
| cancer awareness |
| International Women's Day- 2016 (18th March, 2016) |
| 2016-17 Awarenees Programme on Pradhamantri Fasal Beema Yojana (PMFBY) And |
| Agriculture Fair At KVK, Navsari |
| Five Different States Programme Coordinators Visit To KVK, Navsari |

| | Famer's Interaction on Pre-Kharif Season | | | | | | | | | |
|---------|---|--|--|--|--|--|--|--|--|--|
| | Seminar on System of Rice Intensification [SRI] | | | | | | | | | |
| | Khet ozar kit Distribution and Farmers Shibir At Village Vesma | | | | | | | | | |
| | One-day Seminar and Interaction on organic Farming | | | | | | | | | |
| | One day Seminar on Plant-Protection on Organic Farming" In Association With | | | | | | | | | |
| | NCRI, Hyderabad | | | | | | | | | |
| | Krishi Vigyan Kendra Participated in "Beti Bachao, Shaskta Banao Abhiyan" | | | | | | | | | |
| | World Fisheries Day Celebration | | | | | | | | | |
| | One day Seminar on Organic Farming in Association With Bharatiya Kisan | | | | | | | | | |
| | Sangh-Guajarat Region | | | | | | | | | |
| | International Soil Health day & Pre Rabi Campaign 2016 | | | | | | | | | |
| | 21 Days ASCI Training on Floriculturist (Protected Cultivation) | | | | | | | | | |
| | Krishi Vigyan Kendra, Navsari Contribution To Breast Cancer Awareness Camp | | | | | | | | | |
| | Celebration of Technology Week | | | | | | | | | |
| | 21 Days ASCI Training on Shrimp/Fish Hatchery Production Work | | | | | | | | | |
| | Farmer's Interaction on Dial out Conference With Reliance Foundation | | | | | | | | | |
| | Farmer's Interaction on Pre- Rabi Samelan | | | | | | | | | |
| 2017-18 | PRA For New Adopted Villages | | | | | | | | | |
| | Keri Mahostav & Formation of NOFCO | | | | | | | | | |
| | Khedut Shibir on Horticultural Crops | | | | | | | | | |
| | World Veterinary Day | | | | | | | | | |
| | Training on Biofertlizer | | | | | | | | | |
| | Protection of Plant Varieties and Farmers Right Act (PPV & FRA) & | | | | | | | | | |
| | Celebration of World Environment Day | | | | | | | | | |
| | Celebration of International Yoga Day | | | | | | | | | |
| | One day Seminar on "Organic Farming" and Launching of NOFCO In | | | | | | | | | |
| | Association With Jilla Panchayat, Navsari | | | | | | | | | |
| | Mahila Krishi Diwas | | | | | | | | | |
| | Sankalp Se Siddhi Programme | | | | | | | | | |
| | Mahila Kisan Diwas | | | | | | | | | |
| | Animal Health Check Up Camp | | | | | | | | | |
| | World Fisheries Day | | | | | | | | | |

| | Swachhata Abhiyan |
|---------|---|
| | Soil Health Day Celebration |
| | Agriculture Education Day |
| | Formation of Gramin Mahila Bank |
| | Sajiv Kheti Workshop |
| | Krishi Vigyan Kendra, Navsari Contribution To Breast Cancer Awareness Camp |
| | Seminar on "Happy Path To Success" |
| | Inservice Training on Organic Farming |
| | Women Empowerment Through Gender Resource Centre |
| | Unnat Bharat Abhiyan Programme |
| | Seminar on Kitchen Garden |
| | A New Crop – Gherkin |
| | Famer's Interaction on Dial Out Conference With Reliance Foundation |
| | Botanical Pesticide Preparation at KVK, Navsari |
| | Waste Decomposer- Direction For Use |
| | Fruit Fly Trap (Methyl Eugenol) Preparation |
| | Video Conference - "Krishi Unnati Mela" Live Telecast From New Delhi |
| | PPV & FRA Awareness and Crop Diversity |
| | Celebration of international Women's Day (28 th march) Digital era for women |
| | empowerment |
| 2018-19 | Smriti Z Irani Union Cabinet Minister of Textiles, Government of India, visited |
| | KVK Navsari and chaired a farmer's meet. |
| | Celebration of Mahila Kisan Diwas |
| | Free Medical Health Check up Camp |
| | Traffic Rules Awareness Programme |
| | Breast Cancer Awareness Programme |
| | Organic Farming Seminar |
| | Organic farming certification procedure programme |
| | Celebration of Kisan Diwas |
| | 25 Days Skill India Training on Assistant Gardener |
| | 25 Days Skill India Training for shrimp farmers |
| | Women Empowerment through Skill Development on Sewing |
| 1 | |

| Vocational training on Bakery Products |
|---|
| Awareness programme on Red Revolution |
| Awareness programme on Leprosy Disease |
| Live telecast programme of Pradhanmantri Kishan Samman Nidhhi (PM- |
| Kishan) on 24 th February 2019 |
| Lord Ganesh Ceremony Wastes (Flowers) Converted into organic manure |
| Celebration of Technology Week |
| International Women's Day (Rabi Crop Summit and Agriculture Fair) |
| pre rabi farmers sammelan" and international women's day – 2019 |
| Seminar on Organic farming in Mango and use of bio-pesticides |

b. Details of targets and achievements

| Name of | 20 | 11-12 | 20 | 2012-13 | | 2013-14 | | 2014-15 | | 2015-16 | | 2016-17 | | 2017-18 | | 18-19 | | Total | |
|-------------------------------------|---------|------------|----------|-------------|----------|-----------|----------|-----------|-----------|-------------|-----------|------------|-----------|------------|-----------|------------|------------|----------|--|
| activity | Т | A | T | A | Т | A | T | A | Т | A | Т | A | Т | A | Т | A | T | A | |
| OFT | | | | | | | | | | | | | | | | | | | |
| (i)No. of technologies | 6 | 2 | 5 | 3 | 5 | 2 | 8 | 2 | 8 | 6 | 6 | 6 | 5 | 4 | 4 | 4 | 47 | 29 | |
| (ii) No. of farmers | 36 | 12 | - | 22 | 34 | 14 | 68 | 16 | 8 | 6 | 41 | 41 | 48 | 38 | 24 | 38 | 259 | 187 | |
| FLD | | | | | | | | | | | | | | | | | | | |
| (i)No. of technologies | 18 6 | 580.5 9 | 103 | 6761.2 6 | 123 | 547.4 | 142 | 862.8 | 141 | 456.4 | 121 | 264.7 3 | 165 | 596.7 1 | 242 | 546.2 | 1223 | 10616.09 | |
| (ii) No. of farmers | 21 8 | 2649 | 103 0 | 18558 | 230 | 2613 | 465 | 3219 | 766 | 2902 | 846 | 2133 | 1106 | 3328 | 1616 | 2816 | 6277 | 38218 | |
| TRAINING | | | | | | | | | | | | | | | | | | | |
| (i)No. of courses | 76 | 192 | 81 | 213 | 35 | 107 | 27 | 110 | 108 | 144 | 55 | 94 | 51 | 109 | 33 | 95 | 466 | 1064 | |
| (ii) No. of participants | - | 7232 | 202 5 | 10457 | 166 0 | 4559 | 940 | 4824 | 2865 | 6147 | 1425 | 4745 | 1250 | 5074 | 825 | 4450 | 10990 | 47488 | |
| EXTENSIO N ACTIVITIE S | | | | | | | | | | | | | | | | | | | |
| (i)No. of programmes | 16 6 | 1882 | 166 | 895 | 165 | 798 | 54 | 1107 | 6780 | 7597 | 1104 | 4515 | 87 | 1238 | 75 | 679 | 8597 | 18711 | |
| (ii) No. of participants | - | 12370 | - | 25703 | - | 7032 5 | - | 3205 5 | 3000 0 | 41890 | 7036 | 53600 | 4636 | 55442 | 4604 | 376.9 5 | 46276 | 291761.9 | |
| Seed production | - | 4320 | - | 50.7 | - | 5618 | 66 | 656 | 35 | 72.38 | 57 | 68.52 | 20.4 | 79.30 | 20.4 | 135.3 2 | 198.8 | 11000.22 | |
| Planting material production | - | 70100 | - | 54575 | - | 4307 0 | 720 0 | 88853 | 5000 | 164775 5 | 3000 0 | 32868 | 5400 0 | 10420 | 2400 0 | 3700 | 12020 0 | 1951341 | |
| Live stock strains production | - | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | 1 | 1 | - | 0 | 0 | |
| Bio products production | - | 10331 | - | 103750 | - | - | - | 7912.5 | - | 11912 | - | 2015 | | 1000 | - | 1170 | 0 | 138090.5 | |

19. SWOT (Strengths, Weakness, Opportunities and Threats) Analysis of KVK, Navsari

Taluka wise SWOT analysis:

Navsari Taluka

| <u>Strength</u> | <u>Weakness</u> |
|---|---|
| Adjacent to Navsari city | Water logging |
| Paddy + Sugarcane cultivation | High infestation of pest and diseases |
| Chiku and mango growers | Urbanization |
| Co-operatives | |
| • MIS | |
| <u>Opportunities</u> | <u>Threats</u> |
| Vegetable cultivation in green houses | Urbanization |
| • Food processing & Value addition of paddy | Non availability of farm labour |
| Cold storage & cold chain | |
| • Organic farming for Jaggery production & | |
| vegetables for retail market | |
| Drainage | |
| Farm mechanization | |

Jalalpore Taluka

| Strength | <u>Weakness</u> |
|--|--|
| Cultivable land | Coastal salinity and sea water ingress |
| Neighboring Surat and Navsari city | Water logging |
| Canal irrigation | Poor soil fertility |
| Co-operatives | Poor water quality |
| Opportunities | <u>Threats</u> |
| Chiku and Mango orchard. | Non availability of farm labour |
| Vegetable cultivation | Storm – high wind velocity |
| • Fisheries | Fluctuation in market price |
| Nursery activities | Water logging |
| Rain Water harvesting | |
| Land reclamation through drainage | |
| • Agro forestry along the coast – Ecotourism | |

Vansada Taluka

Strength Weakness • Possibility of organic farming • Marginal and land less farmers Technology adoption Technical know how • Suitable agro climatic condition for agriculture • Highly eroded soils and horticulture crop. • In balance use of fertilizer Nursery activity **Opportunities Threats** Agro forestry • Migration of villagers • Fluctuation in market price Back yard poultry Apiculture • Quality Seed production & nursery for raising planting material Solar energy Drip irrigation • Rain water harvesting Organic farming • Short duration vegetable cultivation

Chikhli Taluka

| Strength | <u>Weakness</u> |
|--|------------------------------------|
| • Cultivable land – Sugarcane and paddy | Recommended practices not followed |
| production | • Low SRR (Seed Replacement Ratio) |
| Dairy farming | Imbalance use of fertilizer |
| Suitable agro climatic condition for agriculture | |
| and horticulture crop. | |
| Irrigation facility | |
| <u>Opportunities</u> | Threats |
| Banana & Vegetable cultivation | Fluctuation in market price |
| • MIS | Erratic and uncertainty of rain |
| Tuber crop cultivation. | |
| Paddy+Sugarcane cropping system | |

Khergam Taluka

| Strength | Weakness |
|--|--|
| Cultivable land – paddy production | • Recommended package of practices for the |
| Dairy farming | particular crop is not followed |
| • Suitable agro climatic condition for agriculture | Low SRR (Seed Replacement Ratio) |
| and horticulture crop. | No information regarding fertility status of the |
| Irrigation facility | - 0 |

| Opportunities | <u>Threats</u> |
|--|---|
| Banana & Vegetable cultivation | Fluctuation in market price |
| • MIS | Erratic and uncertainty of rain |
| Tuber crop cultivation. | |
| Paddy+Sugarcane cropping system | |

Gandevi Taluka

| Strength | <u>Weakness</u> |
|---|--|
| Possibility of organic farming | Marginal and land less farmers |
| Technology adoption | Higher incidence of pest and disease |
| Co-operatives | Imbalance use of fertilizer |
| Fruit processing | • Low SRR (Seed Replacement Ratio) |
| Nursery activity | |
| <u>Opportunities</u> | <u>Threats</u> |
| Sprinkler irrigation & MIS | Fluctuation in market price |
| • Quality Seed production & nursery for raising | Erratic and uncertainty of rain |
| planting material | |
| Apiculture | |
| Fruit processing | |
| Inter cropping in orchard | |

SWOT Addressing Issues

Non availability of Seed & Planting material

| Strength | <u>Weakness</u> |
|--|--|
| New varieties are available with | Poor seed replacement ratio |
| Universities | • Inadequate availability quality seed at |
| Seed Corporations of Government | appropriate time |
| Farmers co-operative | |
| <u>Opportunities</u> | <u>Threats</u> |
| • Marginal farmers can get higher income through | Possibility of seed borne disease if not treated |
| seed farms & nursery raising | Adulteration of seeds /planting material |

Soil Health

| <u>Strength</u> | <u>Weakness</u> |
|---|--|
| • Know how exist in the University | Marginal and resource poor farmers |
| Government agencies exist | Poor knowledge about balance use of fertilizers |
| Scope of crop residue management | |
| Feasibility of crop diversification | |

| Good farmers co-operative network for fertilizer distribution | |
|---|---------------------------|
| <u>Opportunities</u> | Threats |
| Organic farming | Decrease in production |
| Protective cultivation | Conversion to waste lands |
| Rain water harvesting and efficient utilization | |
| • Infrastructure for establishing industry for Food | |
| Processing & Farm machinery | |

Labour shortage

| Strength | Weakness |
|---------------------------------------|--|
| Availability of youth | Lack of interest in farming |
| | Lack of Scientific information and skill |
| | Better remuneration in industry |
| | Drudgery in farming operations |
| Opportunities | Threats |
| Training & Skill development | • Farmers may shift to other occupations |
| Support to agriculture based industry | |
| & Farm mechanization | |

Education / Training

| <u>Strength</u> | <u>Weakness</u> |
|---|--|
| KVK and University head quarter | Marginal and resource poor farmers |
| Government Extension Departments | Low literacy rate in some talukas |
| Active and dedicated NGOs | |
| Farmers Co-operative | |
| <u>Opportunities</u> | <u>Threats</u> |
| Employment generation in rural area | Shifting to allied professions |
| • Increase production through scientific approach | |
| Efficient utilization of input | |
| • Narrowing down gap between potential and | |
| realized productivity | |

Water logging & Secondary Salinization

| Strength | Weakness |
|----------------------|---|
| Sugar Cooperatives | • Non availability of technical man power for |
| Technology available | laying subsurface drains |

| Opportunities | Threats | |
|--|--|--|
| Crop diversification | Decrease in production | |
| Area extension under MIS | Fluctuation in price of farm produce | |
| Bio reclamation and Subsurface drainage | | |

Coastal Salinity

| Strength | Weakness | | |
|---|---|--|--|
| Coastal fisherman have dexterity for aquaculture | • Inadequate infrastructure for fish seed | | |
| Government agencies exist | production | | |
| Feasibility of crop diversification | • Poor facilities for soil and water testing, | | |
| | disease diagnosis for fisheries | | |
| | Sea water ingress of inundation | | |
| <u>Opportunities</u> | <u>Threats</u> | | |
| • Fish farming | Decrease in production | | |
| Rain water harvesting | | | |
| Agro forestry – Eco tourism | | | |
| Casuarina, Eucalyptus, Mangrove, Arjun, | | | |
| Acacia auriculiformis plantation | | | |
| Infrastructures for fisheries | | | |
| Subsurface drainage | | | |

Quality water

| <u>Strength</u> | Weakness | | |
|--|--|--|--|
| Canal command area | In adequate conjunctive use | | |
| Scope of rain water harvesting | • Poor quality of ground water in mid plain of | | |
| • Strong Govt. support for rain water harvesting of | coastal region. | | |
| MIS | Deforestation & Urbanization | | |
| <u>Opportunities</u> | Threats | | |
| Area expansion under MIS | • Deteriorate soil / animal / human health | | |
| Aquaculture (Fresh and brackish) | Poor production | | |
| Crop diversification | Maintenance and repair of MIS | | |

Low Milk Production

| Strength | <u>Weakness</u> | | |
|---|---|--|--|
| Dairy Cooperatives | Low milk yield in buffalo and cows | | |
| Demand of milk and its products | Poor management practices | | |
| | Repeat breeding and long calving interval | | |
| | Low availability of quality fodder | | |

| Opportunities | <u>Threats</u> |
|---|------------------------|
| Cross Breeding Programmes | Fluctuation milk price |
| Proper Vaccination & Medication | |
| Supply of good quality drinking water | |
| Shelter to animals | |
| Mechanized dairy farming | |
| Use of agriculture waste as fodder | |

Alternate sources of Energy

| <u>Strength</u> | <u>Weakness</u> | |
|--------------------------------------|--|--|
| Abundant Solar Energy | High cost of SPV | |
| Dairy cooperatives | • Lack of Know how | |
| <u>Opportunities</u> | <u>Threats</u> | |
| Future energy source | Shortage of electric power supply | |
| Use of bio gas to meet local demands | Widening gap between demand and supply | |
| Pollution free Environment | | |
| | | |

20. Brief account of progress made towards modernization of office, equipments, staff amenities, transport, O& M reforms etc

| S. | Particular | Efforts made | | |
|-----|---|--|--|--|
| No. | | | | |
| 1. | Furniture | Developed state of art interior in KVK office and provided | | |
| | | sophisticated cabins for each SMS & PAs with good quality | | |
| | | furniture. | | |
| 2 | Rain water harvesting | 37,000 liter capacity, this water is used for the laboratory for | | |
| | Structure | analysis purpose | | |
| 3. | Internet, LAN | 4 GBPS speed internet connectivity and LAN connectivity | | |
| | connectivity & wi-fi | among all computers. Also KVK headquarters having wi-fi | | |
| | campus | connectivity. | | |
| 4. | 4. Diesel generator With the capacity of 40 killowatt lits for the ba | | | |
| | loss. It helps to run the programme during power cut. | | | |
| 5. | Solar panel | Solar panel is installed above the KVK roof, it's a type of | | |
| | | energy conservation and also helps in the go green concept | | |
| 6. | Drinking water automatic | <u> </u> | | |
| | dispenser machine | pure drinking water at KVK head quarter for staff & visitors. | | |
| 7. | Godown for storage | Storage purpose viz., seeds, bio-fertilizers and other farm | | |
| | purpose | materials | | |
| 8. | Seed hub godown with | This godown facilitates the work of cleaning, grading and | | |
| | sophisticated machine | packing of seeds particularly produced in the seed hub | | |
| | | project | | |
| 9. | Grain thresher | Multipurpose grain thresher | | |
| 10. | Computer systems with | KVK provided modern computer systems with accessories to | | |
| | Accessories | all technical & non technical staff with LAN connectivity as | | |
| | | well as wi-fi for smooth connectivity & work. | | |

| 11. | Office Jeep & Tractor | KVK is having office Jeep for performing the field work. Also KVK is supporting for use of two wheeler bike for field visit & technical work. one tractor and also one power tiller for field operations | | |
|-----|-----------------------|--|--|--|
| 12. | Traveler | 14 seater traveler is utilized for the short distance exposure tour for the advantage of famers and also group of scientist to conduct field day / farmers shibir / exhibitions in and around the district | | |
| 13. | E - Auto | KVK, Navsari is 3 KM away from the main gate, every year 40,000 farmers are visiting this KVK. Some of the farmers are not able to walk away Hence KVK provided E auto. As a concept of conservation of energy and environment this KVK has E auto for mobilization of farmers | | |

21. Efforts and achievements made in the last eight years towards up gradation of knowledge and skills of staff of KVK i.e. Human Resource Development at different institutes/SAUs

| Sr. | Name of the | Designation | Training/workshop | Name of | Duration |
|-----|--------------------|----------------|--|---------------------------------------|------------|
| No. | staff | | attended | Organization | (Days) |
| 1. | Dr.B.M.Tandel | Scientist | Workshop on Farm | MANAGE Hyderabad | 5 days |
| | | (Horticulture) | Business management | | |
| 2. | Dr.B.M.Tandel | Scientist | Workshop on | MANAGE Hyderabad | 3 days |
| | | (Horticulture) | AGMARKNET | | |
| 3. | Dr.B.M.Tandel | Scientist | Workshop on | EEI, Anand | 3 days |
| | | (Horticulture) | Participatory rural | | |
| | | | appraisal | | |
| 4. | Dr.B.M.Tandel | Scientist | Training on | NAARM, Hyderabad | 6 days |
| | | (Horticulture) | Management of | | |
| | | | human resources and | | |
| | | | administration in | | |
| | | | agriculture | | |
| 5. | Dr.B.M.Tandel | Scientist | Training on Pedagogy | NAARM, Hyderabad | 6 days |
| | | (Horticulture) | and curriculum | | |
| | | ~ | development | | |
| 6. | Dr.B.M.Tandel | Scientist | Training on | NAARM, Hyderabad | 6 days |
| | | (Horticulture) | Management of | | |
| | | | research project and | | |
| | | | intellectual property | | |
| 7 | D D M T 11 | G : 4: 4 | in agriculture | | 7 1 |
| 7. | Dr.B.M.Tandel | Scientist | Workshop on | EEI, Anand | 5 days |
| | | (Horticulture) | Application of PRA | | |
| | | | tools in agril. Extension | | |
| 8. | Dr.B.M.Tandel | Scientist | | Agriculture tools | 3 days |
| ٥. | Dr.b.ivi. i alidei | | Workshop on Indian | research centre Bardoli, | 5 days |
| | | (Horticulture) | blacksmithy forum on Agriculture tools and | · · · · · · · · · · · · · · · · · · · | |
| | | | traditional | Gujarat | |
| | | | Blacksmithy " Present | | |
| | | | trends and future | | |
| | | | prospect " | | |
| | | | prospect | | |

| | | 1 | T | T T | |
|-------------|---|---|-------------------------|---------------------------------------|------------|
| 9. | Dr.B.M.Tandel | Scientist | Workshop on | EEI, Anand | 3 days |
| | | (Horticulture) | Application of PRA | | |
| | | | tools in agril. | | |
| | | | Extension | | |
| 10. | Dr.B.M.Tandel | Scientist | Workshop on New | EEI, Anand | 3 days |
| | | (Horticulture) | approaches and | | |
| | | | methods in agril. | | |
| | | | Extension | | |
| 11. | Dr.B.M.Tandel | Scientist | Workshop on Human | EEI, Anand | 3 days |
| | | (Horticulture) | Resource | , | 3 |
| | | | development | | |
| 12. | Dr.B.M.Tandel | Scientist | Workshop on Urban | NAU, Navsari | 1 days |
| | 21,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1, | (Horticulture) | peri urban horticulture | 1,120,1,0,1 | 1 days |
| 13. | Dr.B.M.Tandel | Scientist | Training on Protected | DEE, NAU, Navsari | 8 days |
| 13. | DI.D.IVI. Tandel | (Horticulture) | cultivation for | DEE, WYO, Wavsair | o days |
| | | (Horticulture) | horticultural crops | | |
| 14. | Dr.Prabhu | Scientist | • | NIDUM Hydarahad | 7 dove |
| 14. | | (Plant | Rodent management | NIPHM, Hyderabad | 7 days |
| | Nayaka | ` | | | |
| 1.5 | Du Duc 1-1 | protection) | IZ1 | DDI A 1 | 2 1- |
| 15. | Dr.Prabhu | Scientist | Knowledge | EEI, Anand | 3 days |
| | Nayaka | (Plant | management system | | |
| | | protection) | and web designing for | | |
| | | | agricultural extension | | |
| 16. | Dr.Prabhu | Scientist | Participatory | EEI, Anand | 3 days |
| | Nayaka | (Plant | programme planning | | |
| | | protection) | monitoring and | | |
| | | | evaluation | | |
| 17. | Dr.Prabhu | Scientist | Establishment of | NIPHM, Hyderabad | 3 days |
| | Nayaka | (Plant | mother cultures of | | |
| | | protection) | different bio-control | | |
| | | | agents and | | |
| | | | mycorrhiza | | |
| 18. | Dr.Prabhu | Scientist | Management of | EEI, Anand | 3 days |
| | Nayaka | (Plant | commodity interest | | - |
| | | protection) | groups and farmers | | |
| 19. | Dr.Prabhu | Scientist | Recent innovations in | ICAR-IARI, New Delhi | 21 days |
| | Nayaka | (Plant | management of organic | , , , , , , , , , , , , , , , , , , , | • |
| | , | protection) | producation system | | |
| 20. | Dr.Prabhu | Scientist | Fundamentals of plant | NIPHM, Hyderabad | 21 days |
| | Nayaka | (Plant | health management | , , | . . |
| | | protection) | for plant health | | |
| | | 1 ///////////////////////////////////// | doctors | | |
| 21. | Dr.Prabhu | Scientist | Writing and | MANAGE Hyderabad | 3 days |
| <i>-</i> 1. | Nayaka | (Plant | documentation skills | 1/11 11 (11 CL) 11 y doi do dd | 2 days |
| | 11474114 | protection) | for extension officers | | |
| 22. | Dr. Prabhu | Scientist | Recent development in | SKUAST, Kashmir | 21 days |
| 44. | Nayaka | (Plant | organic production | Srinagar | 21 days |
| | inayana | protection) | system under changing | Simagai | |
| | | protection) | climate scenario | | |
| 23. | Dr. Prabhu | Scientist | One day orientation | New Delhi | 1 days |
| | Nayaka | (Plant | workshop and launch | | <i>J</i> |
| | · <i>y</i> | protection) | of Unnat Bharat | | |
| | | protection) | Abhiyan 2.0 | | |
| | | | 7 10 m y an 2.0 | | |

| 24. | Dr.Prabhu | Scientist | Workshop on annual | ABM, NAU, Navsari | 2 days |
|-------------|--------------------|----------------------|--|--|---------------|
| | Nayaka | (Plant | action plan | | |
| | | protection) | | | |
| 25. | Dr.K.A.Shah | Scientist | Recent trends in | Jabalpur | 21 days |
| | | (Agronomy) | sustainable | | |
| | | | management of soil | | |
| | | | health for doubling | | |
| 26 | Da M. A. Matanizza | Scientist | the farmer's income | A coni aviltuma ta ala | 2 days |
| 26. | Dr.M.A.Katariya | | Agriculture tools and traditional Blacksmith | Agriculture tools research centre Bardoli, | 3 days |
| | | (Animal | traditional blacksiniti | · · | |
| 27. | Dr.M.A.Katariya | Science) Scientist | World trade | Gujarat) AAU, Anand | 1 days |
| 21. | Di.M.A.Katariya | (Animal | organization and its | AAU, Allaliu | 1 days |
| | | Science) | impact on agriculture | | |
| 28. | Dr.M.A.Katariya | Scientist | Role of Veterinarians | NAU, Navsari | 1 days |
| 20. | Di.M.A.Katariya | (Animal | in containment of | NAO, Navsaii | 1 days |
| | | Science) | Antimicrobial | | |
| | | Science) | resistance. | | |
| 29. | Dr.M.A.Katariya | Scientist | Newer approaches for | IVRI, Izatnagar (UP). | 21 days |
| <i>2</i>). | Di.iviiXataniya | (Animal | feed security and | 1 v IXI, izumagai (O1). | 21 days |
| | | Science) | safety. | | |
| 30. | Dr.M.A.Katariya | Scientist | Global Conference on | New Delhi. | 3 days |
| 50. | | (Animal | women in agriculture. | Tiew Benni. | 3 days |
| | | Science) | Wolfield III wglicollow | | |
| 31. | Dr.M.A.Katariya | Scientist | ICT application in | AAU, Anand | 1 days |
| 01. | | (Animal | agriculture and allied | 1110,1111111 | 1 00,5 |
| | | Science) | field. | | |
| 32. | Dr.M.A.Katariya | Scientist | Value added Science | NAU, Navsari | 1 days |
| | | (Animal | awareness to | ŕ | Ĭ |
| | | Science) | strengthen women's | | |
| | | | role in climate | | |
| | | | resilient agriculture & | | |
| | | | sustainable develop. | | |
| 33. | Dr.M.A.Katariya | Scientist | Livestock based | MPUAT, Udaipur | 8 days |
| | | (Animal | integrated farming | | |
| | | Science) | system for | | |
| | | | improvement of rural | | |
| | | a : : | livelihood. | | |
| 34. | Dr.M.A.Katariya | Scientist | Nutrition-Health | Sher-e-Kashmir | 3 days |
| | | (Animal | Interactions for | University of | |
| | | Science) | Optimum Livestock | Agricultural Science | |
| | | | Production & Human | and Technology, | |
| 25 | Da M A Vataria | Coigntint | Welfare. | Jammu | 5 dama |
| 35. | Dr.M.A.Katariya | Scientist (Animal | Community Radio for | HAU, Hisar (Haryana) | 5 days |
| | | (Animai Science) | agricultural | | |
| 36. | Dr.M.A.Katariya | Scientist | development Precision nutrition: a | NAU, Navsari | 8 days |
| 50. | Di.m.A.Katanya | (Animal | tool for sustainable | INAU, INAVSAII | o uays |
| | | Science) | dairy production. | | |
| 37. | Dr.M.A.Katariya | Scientist | Knowledge | AAU, Anand | 3 days |
| 51. | Di.wi.A.Kalanya | (Animal | management system | mio, manu | 5 days |
| | | Science) | and web designing for | | |
| | | Defence) | agricultural extension. | | |
| | <u> </u> | <u> </u> | agricultural extension. | <u> </u> | |

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|------|---|---------------|------------------------|---------------------|----------|
| 38. | Dr.M.A.Katariya | Scientist | Advances in animal | NAU, Navsari | 1 days |
| | | (Animal | disease diagnosis and | | |
| | | Science) | health management. | | |
| 39. | Mr.Chirag | Computer | ICT Application in | EEI,Anand | 3 days |
| | B.Naik | Programmer | agriculture and allied | | |
| | | | field | | |
| 40. | Mr.Chirag B. | Computer | Project planning and | NIAEM, Hyderabad | 5 days |
| | Naik | Programmer | management using | | |
| | | | MS project | | |
| 41. | Mr.Chirag B. | Computer | Knowledge | EEI, Anand | 6 days |
| | Naik | Programmer | management system | | - |
| | | | and web designing for | | |
| | | | agricultural extension | | |
| 42. | Mr.Chirag B. | Computer | Training programme | NAID, Hyderabad | 6 days |
| | Naik | Programmer | on social media for | , , , | |
| | | B | effective and | | |
| | | | knowledge | | |
| 43. | Pro. P.P.Patel | Scientist | Recent advances in | CMFRI, Kochin | 6 days, |
| 13. | 110.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | (Fisheries) | aquaculture for | Civil IXI, IXOCIIII | o aays, |
| | | (1 isheries) | popularization | | |
| | | | through KVKs | | |
| 44. | Pro. P.P.Patel | Scientist | workshop on Human | ATIC, NAU, Navsari | 3 days |
| 44. | rio. r.r.ratei | | resource development | ATIC, NAU, Navsaii | 3 days |
| 15 | Due D.D.Detal | (Fisheries) | ^ | WWAEGII Habbal | 21 dans |
| 45. | Pro. P.P.Patel | Scientist | winter school on | KVAFSU, Hebbal, | 21 days |
| | | (Fisheries) | "Empowerment of | Bengalaru | |
| | | | Fish farmers and | | |
| | | | Entrepreneurship | | |
| | | | development" | | |
| 46. | Pro. P.P.Patel | Scientist | Skill development in | OFTRI, Udaipur | 5 days |
| | | (Fisheries) | ornamental Fisheries | | |
| 47. | Pro. P.P.Patel | Scientist | Participatory | ATIC, NAU, Navsari | 3 days |
| | | (Fisheries) | programme planning, | | |
| | | | monitoring and | | |
| | | | evaluation | | |
| 48. | Pro. P.P.Patel | Scientist | National seminar on | ATIC, NAU, Navsari | 2 days |
| | | (Fisheries) | "Magnitude of | | |
| | | | extension approaches | | |
| | | | in agricultural | | |
| | | | development" | _ | |
| 49. | Pro. P.P.Patel | Scientist | Role and function of | SPIPA, Ahmedabad | 2 days |
| | | (Fisheries) | drawning and | | |
| | | , | disbursing officer | | |
| 50. | Pro. P.P.Patel | Scientist | New Dimension in | MANAGE, Hyderabad | 5 days |
| | | (Fisheries) | Extension | | |
| 51. | Pro. P.P.Patel | Scientist | domain skill training | CAZRI, Jodhpur | 2 days |
| | | (Fisheries) | for Hatchery | , | <i>y</i> |
| | | (| production workers | | |
| 52. | Pro. P.P.Patel | Scientist | National orientation | NFDB, Hyderabad | 2 days |
| J 2. | 110.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | (Fisheries) | workshop for | 1,122, 11, 4014044 | 2 30,5 |
| | | (1.151101105) | Fisheries subject | | |
| | | | Matter specialists. | | |
| 53. | Pro. P.P.Patel | Scientist | workshop on | ATIC, NAU, Navsari | 3 days |
| 55. | 1 10. 1 .F .F alti | (Fisheries) | Management of | ATIC, NAU, Navsail | 3 days |
| | | (Fisheries) | ivianagement of | | |

| 1 | | 1 | 1:4 : | Ι | |
|-----|-------------------|---------------------|-------------------------------------|--------------------------|---------|
| | | | commodity interest | | |
| | | | groups and farmers | | |
| | | | organization | | |
| 54. | Pro. P.P.Patel | Scientist | Summer school on | Agronomy Division, | 21 days |
| | | (Fisheries) | integrated farming | IARI, New Delhi | |
| | | | system for farmers' | | |
| | | | empowerment and | | |
| | | | entrepreneurial | | |
| | | | development | | |
| 55. | Dr.Sumit R. | Scientist | Recent development | SKUAST, Kashmir | 21 days |
| | Salunkhe | (Extension | in organic production | Srinagar | |
| | | Education) | system under | | |
| | | | changing climate | | |
| | | | scenario | | |
| 56. | Prof R.A. Gurjar | Scientist | Pulses post harvest | CIPHET Punjab | 21 days |
| | • | (Horticulture) | loss reduction | | - |
| 57. | Dr.Sumit R. | Scientist | National Seminar on | AAU,Anand | 2 days |
| | Salunkhe | (Extension | extension strategies | · | • |
| | | Education) | for doubling the | | |
| | | Í | farmer's income for | | |
| | | | livelihood secuirty | | |
| 58. | Dipal N.Soni | Scientist | National Seminar on | AAU,Anand | 2 days |
| | | (Home | extension strategies | | , ~ |
| | | science) | for doubling the | | |
| | | | farmer's income for | | |
| | | | livelihood secuirty | | |
| 59. | Dr.C.K.Timbadia | Scientist | National Seminar on | Surat | 1 days |
| | 21,0,11,11110,000 | (Senior | Agri Food processing | | 1 days |
| | | Scientist & | connect to prime | | |
| | | Head) | minister-Kisahn | | |
| | | l loud) | Smpada Yojana | | |
| 60. | Dr.Sumit R. | Scientist | International | Shimla | 2 days |
| 00. | Salunkhe | (Extension | conference on | Sililia | 2 days |
| | Barankiie | Education) | agricultural, | | |
| | | Laucation) | horicultural & plant | | |
| | | | science | | |
| 61. | Dr.Sumit R. | Scientist | Workshop on annual | ABM, NAU, Navsari | 2 days |
| 01. | Salunkhe | (Ext Educ) | action plan | Abivi, NAO, Navsaii | 2 days |
| 62. | Dr. K.A.Shah | Scientist Scientist | Natural resource | Collage of Horticulture, | 21 Day |
| 02. | DI. K.A.Silali | | | KAU, Thrissur, | 21 Day |
| | | (Agronomy) | managements strategies in a climate | KAU, Illiissui, | |
| | | | • | | |
| 62 | Dr.K.A.Shah | Scientist | change scenario | Center of Advanced | 21 Day |
| 63. | Dr.K.A.Snan | | Farming system for | | 21 Day |
| | | (Agronomy) | the future:- | Faculty Training in | |
| | | | Approaches and | Agronomy, Tamil Nadu | |
| C 4 | D. IZ A Cl. 1 | g : .: . | applications | Agri Uni, Coimbatore | 10 D |
| 64. | Dr.K.A.Shah | Scientist | Advancement | CSSRI, Karnal | 10 Days |
| | | (Agronomy) | technologies in land | | |
| | | | and water remediation | | |
| | | ~ | and management | | |
| 65. | Dr.K.A.Shah | Scientist | New Approaches and | EEI, AAU, Anand | 2 Days |
| | | (Agronomy) | Methods in Agril. | | |
| | | 1 | Extension | | |

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|------|------------------|-----------------|------------------------|-----------------------------|---------|
| 66. | Dr.K.A.Shah | Scientist | Managing stress in | CAZRI, Jodhpur | 2 Days |
| | | (Agronomy) | dry lands under | | |
| | | | climate change | | |
| | | | scenarios | | |
| 67. | Dr.K.A.Shah | Scientist | India cotton: Gearing | Navsari Agricultural | 3 Days |
| | | (Agronomy) | up or global | University, Surat | |
| | | | leadership | | |
| 68. | Dr.K.A.Shah | Scientist | ICAR- Post linkage | Indian council of | 1 Days |
| | | (Agronomy) | model | Agricultural Research, | |
| | | | | New Delhi | |
| 69. | Dr.K.A.Shah | Scientist | Technological | ASM foundation, New | 3Days |
| | | (Agronomy) | challenges and | Delhi and NAU, | • |
| | | | Human Resources for | Navsari | |
| | | | climate smart | | |
| | | | horticulture- issues | | |
| | | | and strategies | | |
| 70. | Dr.K.A.Shah | Scientist | Enhancing the | AAU, Anand | 1 Days |
| , 0. | 21.12.11.011011 | (Agronomy) | preparedness of | 71110, mana | 1 Days |
| | | (1 igronomy) | agricultural | | |
| | | | contingencies in | | |
| | | | Kharif 2015 for | | |
| | | | Gujarat | | |
| 71 | Dr.K.A.Shah | Scientist | Sensitization cum | ATADI CAZDI | 2 Davis |
| 71. | Dr.K.A.Snan | | | ATARI, CAZRI | 2 Days |
| | | (Agronomy) | workshop on Rabi | Campus, Jodhpur | |
| | | | pulses crop – | | |
| | | | integrated crop | | |
| | | ~ | management | 1 T 1 D 1 G 1 T D 1 | |
| 72. | Dr.K.A.Shah | Scientist | Review cum | ATARI, CAZRI | 1 Days |
| | | (Agronomy) | workshop on IARI- | Campus, Jodhpur | |
| | | | Post office Linkage | | |
| | | | Extension Model | | |
| 73. | Dr.K.A.Shah | Scientist | SMART SUMMIT- | PEARL- A Foundation | 1 Days |
| | | (Agronomy) | 2016 | for educational | |
| | | | | excellence | |
| 74. | Dr.K.A.Shah | Scientist | Workshop cum | ATARI, Zone VI, Pune | 3 Days |
| | | (Agronomy) | Training on Cluster | at NAU, Navsari | |
| | | | Front Line | | |
| | | | Demonstration | | |
| | | | (CFLDs) on pulses | | |
| | | | and oil seeds for | | |
| | | | Krishi Vigyan Kendra | | |
| | | | of Gujarat | | |
| 75. | Dr.K.A.Shah | Scientist | Regional workshop | Dept. of Plant variety | 1 Days |
| | | (Agronomy) | on Protection of Pant | and Farmers right act | • |
| | | | varieties and farmers | Dept. of Agri. and | |
| | | | right Act | farmer welfare, New | |
| | | | | Delhi, GOI at NAU, | |
| | | | | Navsari | |
| 76. | Dr.K.A.Shah | Scientist | International | The society of tropical | 2 Days |
| | _ 11211 21211111 | (Agronomy) | Conference on | Agriculture, New Delhi | |
| | | (1.51011011119) | Agriculture, | 1 - Silvandio, 110 W Dollil | |
| | | | Horticulture and Plant | | |
| | | | Sciences | | |
| | | <u> </u> | Sciences | <u> </u> | |

| 77. | Dr.K.A.Shah | Scientist | National Workshop | Main Sorghum | 1 Days |
|-----|------------------|----------------------|--|---------------------------------------|---------|
| | | (Agronomy) | on Digital field book | Research Station, NAU, | J |
| | | | | Surat and Indian Inst of | |
| | | | | Millet Res, Hydrabad. | |
| 78. | Dr.K.A.Shah | Scientist | Value added science | Navsari agricultural | 1 Days |
| | | (Agronomy) | awareness to | University, Navsari | |
| | | | strengthen women's role in climate | | |
| | | | resilient agriculture | | |
| | | | and sustainable | | |
| | | | development | | |
| 79. | Dr.K.A.Shah | Scientist | Gandhiji and Global | Lokseva | 2 Days |
| | | (Agronomy) | piece | Mahavidhalaya, | · |
| | | | | Lokbharti, Sanosar | |
| | | | | Bhavnagar | |
| 80. | Dr.K.A.Shah | Scientist | Tropical and | Navsari agricultural | 3 Days |
| 0.1 | Da V A Chah | (Agronomy) Scientist | Subtropical fruits | University, Navsari | 2 Davis |
| 81. | Dr.K.A.Shah | (Agronomy) | Role of organic farming in climate | ASPEE Collage of Horticultural and | 2 Days |
| | | (Agronomy) | resilient and | Forestry NAU, Navsari | |
| | | | sustainable agriculture | Tolostry 14710, 14avsull | |
| 82. | Dr.K.A.Shah | Scientist | Dimension of | Society of Extension | 1 Days |
| | | (Agronomy) | Extension Education | Education, Gujarat and | • |
| | | | in Holistic | Anand Agricultural | |
| | | | Development of | University, Anand | |
| 2.2 | | ~ | farmers | | |
| 83. | Dr.K.A.Shah | Scientist | Conservation of | science and | 1 Days |
| | | (Agronomy) | biodiversity and sustainable | Technology, Department of Science | |
| | | | development | and Technology, | |
| | | | de veropinent | Gandhinagar | |
| 84. | Dr.K.A.Shah | Scientist | Magnitude of | Society of Extension | 2 Days |
| | | (Agronomy) | Extension | Education, Gujarat and | |
| | | | Approaches in | Navsari Agricultural | |
| | | | Agricultural | University | |
| 05 | Dr. V. A. Chah | Cojentist | Development Enhancement of gran | N.M. Callaga of | 1 Davis |
| 85. | Dr.K.A.Shah | Scientist (Agronomy) | Enhancement of crop productivity through | N. M. Collage of Agricultural, NAU, | 1 Days |
| | | (rigionomy) | physiological | Navsari and Indian | |
| | | | intervention | Society for Plant | |
| | | | | Physiology, New Delhi | |
| 86. | Dr.K.A.Shah | Scientist | Gujarat ma Sajiv | The Gujarat | 1 Days |
| | | (Agronomy) | Kheti | Association for | |
| | | | | Agricultural Sciences, | |
| 07 | D., V. A. Cl., 1 | Catanat 4 | Dlant Darter ' | Ahmedabad | 1D |
| 87. | Dr.K.A.Shah | Scientist (Agronomy) | Plant Protection in organic Farming | PPAG, MIDH, GAAS, NAU, Navsari | 1Days |
| 88. | Dr.K.A.Shah | (Agronomy) Scientist | Extension Plus: | Society of extension | 2 Days |
| 30. | D1.13.7 1.D11q11 | (Agronomy) | Expanding the | education, Gujarat and | 2 Days |
| | | (8- 33) | horizons of extension | Sardarkrushinagar | |
| | | | for holistic | Dantiwada Agricultural | |
| | | | agricultural | University, | |
| | | | development | Sardarkrushinagar | |

| 89. | Dr.K.A.Shah | Scientist | Integrated Farming | Indian Society of | 3 Days |
|-----|-----------------------|-----------------------|--|-------------------------|----------|
| | | (Agronomy) | System for Enhancing | Extension Education, | · |
| | | | Farmers' Income and | New Delhi & West | |
| | | | Nutritional Security | Bengal University of | |
| | | | | Animal & Fisheries | |
| | | | | Sciences, Kolkata | |
| 90. | Shri A.N.Lad | Farm | Plant Protection in | PPAG, MIDH, GAAS, | 1Days |
| | ~ | manager | organic Farming | NAU, Navsari | |
| 91. | Shri A.N.Lad | Farm | National Workshop | Main Sorghum | 1 Days |
| | | manager | on Digital field book | Research Station, NAU, | |
| | | | | Surat and Indian | |
| | | | | Institute of Millet | |
| 02 | Shri A.N.Lad | Голи | Notional workshop on | Research, Hydrabad. | 2 Day |
| 92. | Snri A.N.Lau | Farm | National workshop on "Pesticide Residue: | NAU,Navsari | 2 Day |
| | | manager | | | |
| | | | management and techniques for food | | |
| | | | safety and security | | |
| 93. | Dr. C. K. | Senior | Regional Seminar on | Kashmir Gram Udyog | 2 days |
| /3. | Timbadia | Scientist & | "Awareness, | Sangh and Navsari | _ 441,5 |
| | | Head | Motivation and | Agricultural University | |
| | | | Technology Transfer | held at NAU., Navsari | |
| | | | for Development of | , | |
| | | | Beekeeping in | | |
| | | | Gujarat" | | |
| 94. | Dr. C. K. | Senior | State level Seminar on | Navsari Chapters Indian | 2 days |
| | Timbadia | Scientist & | "Organic Farming for | Society of Agronomy | |
| | | Head | Environment Safety | Gujarat Association for | |
| | | | and Agriculture | Agricultural Science | |
| | | | Sustainability" | and Navsari | |
| | | | | Agricultural University | |
| 05 | Dr. C. K. | Comina | Ctota I aval Caminan | held at NAU., Navsari . | 1 4000 |
| 95. | Dr. C. K. Timbadia | Senior Scientist & | State Level Seminar | NAU, Navsari | 1 days |
| | Tillibadia | Head | of Library and Information Science | | |
| | | Head | 2011 on "Role of | | |
| | | | Library in Digital | | |
| | | | Era" | | |
| 96. | Dr. C. K. | Senior | regional seminar | N.H.B. Gurgav and | 1 days |
| | Timbadia | Scientist & | jointly "High-Tech | Amalsad Vibhag | <i>,</i> |
| | | Head | cultivation & | Vividh Karyakari | |
| | | | Marketing in Chickoo | Sahkari Khedut Mandli | |
| | | | crops" | Ltd., Amalsad | |
| 97. | Dr. C. K. | Senior | National Seminar on | ASPEE College of | 1 days |
| | Timbadia | Scientist & | 'Agro forestry: An | Horticulture & Forestry | |
| | | Head | Evergreen Agriculture | at NAU., Navsari | |
| | | | for Food Security and | | |
| | | | Environmental | | |
| 0.0 | D G ** | - · | Resilience' | NY | 4.4 |
| 98. | Dr. C. K. | Senior | National Level | Navsari Agricultural | 1 days |
| | Timbadia | Scientist & | Seminar on "Value | University, Navsari. | |
| | | Head | Added Science | | |
| | | | Awareness to | | |

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| | | | Strengthen Women's Role in Climate Resilient Agriculture & Sustainable Development" | | |
| 99. | Dr. C. K. Timbadia | Senior Scientist & Head | National Seminar on 'Tropical and Subtropical Fruits' | The Navsari Agricultural University, Navsari, The Horticultural Society of Gujarat, The Gujarat Association for Agricultural Sciences and Confederation of Horticulture Associations of India (CHAI) | 3 days |
| 100. | Dr. C. K. Timbadia | Senior Scientist & Head | State level Seminar on "Plant Protection in Nursery and Protected Cultivation" | Plant Protection Association of Gujarat (PPAG), State Horticulture Mission, Department of Horticulture, Gandhinagar, Gujarat Association of Agricultural Sciences (GAAS) and NAU, Navsari | 1 days |
| 101. | Dr. C. K. Timbadia | Senior Scientist & Head | State level Seminar on "Medicinal Plant" | State level Seminar on "Medicinal Plant" | 2 days |
| 102. | Dr. C. K. Timbadia | Senior Scientist & Head | National Seminar on "Role of organic farming in climate resilient and sustainable agriculture" | ASPEE College of Horticulture and Forestry, NAU, Navsari and The Horticultural Society of Gujarat, Navsari in collaboration with NCCSD, Ahmedabad | |
| 103. | Dr. C. K. Timbadia | Senior Scientist & Head | National Seminar on "Magnitude of Extension Approaches in Agricultural Development" | Society of Extension Education, Gujarta and NAU, Navsari | 2 days |
| 104. | Dr. C. K. Timbadia | Senior Scientist & Head | National Seminar SEEG-2016 on "Contemporary Innovations for Quantum Extension in Agricultural Development" | Society of Extension Education, Gujarat and JAU, Junagadh | 2 days |
| 105. | Dr. C. K. Timbadia | Senior Scientist & Head | Seminar on "Plant Protection in Organic Farming" | Plant Protection Association of Gujarat (PPAG); Mission for | 1 days |

| | | | | · · · · · · · · · · · · · · · · · · · | |
|------|--------------|-------------|-------------------------|---------------------------------------|--------|
| | | | | Integrated Development | |
| | | | | of Horticulture, | |
| | | | | Gandhinagar; Gujarat | |
| | | | | Association for | |
| | | | | Agricultural Science | |
| | | | | (GAAS) and NAU, | |
| | | | | Navsari | |
| 106. | Dr. C. K. | Senior | International seminar | Society of Extension | 2 days |
| | Timbadia | Scientist & | on " Agriculture & | Education, Gujarat at | |
| | | Head | food for inclusive | Samagra Vikas welfare | |
| | | | Growth and | Society, Lucknow. | |
| | | | Development" | | |
| 107. | Dr. C. K. | Senior | National seminar on " | ASPEE College of | 1 days |
| | Timbadia | Scientist & | Sustainable food | Horticulture and | |
| | | Head | value chain in Area of | Forestry, NAU, Navsari | |
| | | | Climate change" | at NAU, Navsari. | |
| 108. | Dr. C. K. | Senior | National seminar on " | Sourthen chamber of | 1 days |
| | Timbadia | Scientist & | Agro food Processing | commerce at surat. | • |
| | | Head | connect through | | |
| | | | Prime minister kisan | | |
| | | | sampada yojana" | | |
| 109. | Dr. C. K. | Senior | Integrated workshop | GWSAM, Gandhinagar | 1 days |
| | Timbadia | Scientist & | on Watershed | at Sasangir, Junagadh. | |
| | | Head | Development | | |
| 110. | Dr. C. K. | Senior | Zonal Review | Rajasthan | 5 days |
| 110. | Timbadia | Scientist & | workshop of KVKs | 1 tujustiiuii | e aajs |
| | 111110 00010 | Head | Wolfishop of 12 (12) | | |
| 111. | Dr. C. K. | Senior | Worked as | Visvesvaraya National | 3 days |
| | Timbadia | Scientist & | Organizing Secretary | Institute of Technology- | J |
| | | Head | on National | Nagpur, Sardar | |
| | | | Workshop of Indian | Vallabhabhai National | |
| | | | Black smithy Forum | Institute of Technology- | |
| | | | on agriculture tools | Surat, Agriculture Tools | |
| | | | and traditional black | Research Centre- | |
| | | | smithy present trends | Bardoli and Navsari | |
| | | | and future prospects is | Agricultural University- | |
| | | | jointly | Navsari | |
| 112. | Dr. C. K. | Senior | Annual Zonal | JAU., Junagadh | 3 days |
| 112 | Timbadia | Scientist & | Workshop for KVKs | orres, comagaan | z aajs |
| | | Head | of zone VI | | |
| 113. | Dr. C. K. | Senior | Regional Workshop | Gujarat State | 2 days |
| | Timbadia | Scientist & | on "Ensuring | Watershed Management | |
| | | Head | Livelihood Security in | Agency (GSWMA), | |
| | | 11044 | Watershed Project | Gandhinagar at | |
| | | | Areas" | Saputara, Dang | |
| 114. | Dr. C. K. | Senior | Annual Zonal | NAU., Navsari | 3 days |
| 111 | Timbadia | Scientist & | Workshop for KVKs | 1.120.911475411 | z aajs |
| | | Head | of zone VI | | |
| 115. | Dr. C. K. | Senior | National Workshop | NAU, Navsari | 2 days |
| 113. | Timbadia | Scientist & | on 'Floral Craft: The | 1110,110,0011 | 2 days |
| | 111104414 | Head | Art and Technique for | | |
| | | Head | Value Addition in | | |
| | | | Flowers' | | |
| | | | TIOWCIS | | |

| 116 | D. C. V. | g . | NT (* 11 1 | A A T T A 1 | 2.1 |
|------|------------|-------------|--------------------------|--------------------------|--------|
| 116. | | Senior | National level | AAU, Anand | 2 days |
| | Timbadia | Scientist & | workshop on 'Micro | | |
| | | Head | level action at district | | |
| | | | level for climate | | |
| | | | resilient agriculture' | | |
| 117. | Dr. C. K. | Senior | Workshop on | NAU., Navsari | 1 days |
| | Timbadia | Scientist & | "Balanced | · | • |
| | | Head | Fertilization" for | | |
| | | 11044 | farmers in | | |
| | | | collaboration with | | |
| | | | | | |
| | | | KVK, Navsari and | | |
| | | | The Fertilizer | | |
| | | | Association of India, | | |
| | | | Mumbai | | |
| 118. | Dr. C. K. | Senior | Workshop on | Extension Education | 2 days |
| | Timbadia | Scientist & | "Human Resource | Institute, Anand Agril. | |
| | | Head | Development" | University, Anand at | |
| | | | 1 | NAU, Navsari | |
| 119. | Dr. C. K. | Senior | National workshop on | Horticultural Society of | 1 days |
| 117. | Timbadia | Scientist & | "Urban and Peri | Gujarat, Navsari; | 1 days |
| | Tilloadia | Head | Urban Horticulture" | 5 | |
| | | пеац | Orban Horticulture | Navsari Agril. | |
| | | | | University, Navsari; | |
| | | | | CHAI, New Delhi; | |
| | | | | ASPEE College, | |
| | | | | Navsari and GAAS, | |
| | | | | Navsari | |
| 120. | Dr. C. K. | Senior | Training Workshop | National Academy of | 6 days |
| | Timbadia | Scientist & | on 'Institutional | Agril. Research | - |
| | | Head | Innovations in Agri | Management, | |
| | | | Extension for | Hyderabad (NAARM). | |
| | | | Inclusive Growth' | | |
| 121. | Dr. C. K. | Senior | Workshop on " | Sardar krishi | 3 days |
| 121. | Timbadia | Scientist & | Annual Zonal | | 3 days |
| | Tillibauta | | ***** | University, Dantiwada. | |
| 100 | | Head | Workshop" | *** | |
| 122. | Dr. C. K. | Senior | Workshop on | Udaipur. | 2 days |
| | Timbadia | Scientist & | "Annual workshop" | | |
| | | Head | | | |
| 123. | Dr. C. K. | Senior | Workshop on | Extension Education | 3 days |
| | Timbadia | Scientist & | 'Participatory | Institute, Anand Agril. | - |
| | | Head | Programme Planning, | University, Anand at | |
| | | | Monitoring and | NAU, Navsari | |
| | | | Evaluation' | , | |
| 124. | Dr. C. K. | Senior | Workshop on "Agro | Anand Agriculture | 1 days |
| 147. | Timbadia | Scientist & | Climatic zone | University, Boriavi, | 1 days |
| | i iiioauia | Head | | Anand | |
| 105 | D. C V | | Workshop" | | 1 4 |
| 125. | Dr. C. K. | Senior | Workshop on "Fuel | PCRA, Ahmedabad. | 1 days |
| | Timbadia | Scientist & | Conservation for | | |
| | | Head | Farmer's" | | |
| 126. | Dr. C. K. | Senior | Workshop on "Seed | New delhi | 3 days |
| | Timbadia | Scientist & | Production - Seed hub | | |
| | | Head | Evaluation and | | |
| | | | demonstration " | | |
| 127. | Dr. C. K. | Senior | Workshop on "Skill | ICAR at NASC | 1 days |
| 14/. | D1. C. K. | Scillor | MOLESTION OIL SKIII | ICAN at NASC | 1 uays |

| | Timbadia | Scientist & Head | Development" | Comlex, New Delhi | |
|------|-----------------------|-------------------------------|---|--|---------|
| 128. | Dr. C. K. Timbadia | Senior Scientist & Head | Workshop on " ASPEE Foundation, Mumbai" | Aspee foundation at Mumbai. | 3 days |
| 129. | Dr. C. K. Timbadia | Senior Scientist & Head | Workshop on " Nomination of NAU Scientist for the workshop | NAU, Navsari. | 3 days |
| 130. | Timbadia | Senior Scientist & Head | One day workshop on "Phool Pako ni Aadhunic Kheti Paddhati"(Advanced Production Technology of Flower Crops) | AICRP on Floriculture,ASPEE College of Horticulture and Forestry,NAU,Navsari, | 1 days |
| 131. | Dr. C. K. Timbadia | Senior Scientist & Head | "Regional Workshop and Plant Variety Diversity Exhibition" | NAU, Navsari at NAU, Navsari | 1 days |
| 132. | Timbadia | Senior Scientist & Head | A National Workshop on "Yogik Farming, Organic Farming and Zero Budget Natural Farming" | Anand Agriculture Univarsity, Anand. | 2 days |
| 133. | Timbadia | Senior Scientist & Head | Workshop on " Annual action plan " | Agri business management college, NAU, Navsari. | 2 days |
| 134. | Dr. C. K. Timbadia | Senior Scientist & Head | Training programme on Inter Personal Communication Skill (GOI) | Sardar Patel Institute of Public Administration (SPIPA), Ahmedabad. | 3 days |
| 135. | Dr. C. K. Timbadia | Senior Scientist & Head | Participated training workshop on "Human Resource Development" | EEI, Anand at NAU, Navsari. | 3 days |
| 136. | Dr. C. K. Timbadia | Senior Scientist & Head | Training workshop on "Institutional Innovations for Agri- Extension for Inclusive Growth" | National Academy of Agricultural Research Management, Hyderabad | 6 days |
| 137. | Dr. C. K. Timbadia | Senior Scientist & Head | Training on " Collection Centre, Wadi Yojna and Bee Keeping" | Tribal Sub-Plan, Vansda held at Vansda. | 1 days |
| 138. | Timbadia | Senior Scientist & Head | Training on "Extension:"All-in- one" Mobile Phones for Agricultural Extension' | National Institute of Agricultural Extension Mang., Hyderabad at AC & RI, TNAU, Madurai. | 5 days |
| 139. | Dr. C. K. Timbadia | Senior Scientist & Head | Summer School on Modern Tools for Agri-Business Management | ABM institute of NAU, Navsari | 20 days |

| 140. | Timbadia | Senior Scientist & Head | Winter School on 'Participatory Extension Research Management' | SKRAU, Bikaner. | 20 days |
|------|-----------------------|-------------------------------|---|---|---------|
| 141. | Timbadia | Senior Scientist & Head | National symposium on Managing Water Resources for Sustainable Agriculture and Environment | GAU and Indian Society of Water Management at Navsari. | 3 days |
| 142. | Dr. C. K. Timbadia | Senior Scientist & Head | National symposium on Recent Advances in Floriculture | NAU, Indian Society of Ornamental Horticulture, IARI, New Delhi and Horticultural Society of Gujarat, Navsari | 3 days |
| 143. | Timbadia | Senior Scientist & Head | National symposium on Pragmatic Perspectives of Agricultural Development Programmes in Present Scenario | Society of Extension Education, Gujarat and Navsari Agricultural University, Navsari | 2 days |
| 144. | Dr. C. K. Timbadia | Senior Scientist & Head | National Conference on Farm Innovations for Agripreneurs | Udaipur, Rajasthan | 3 days |
| 145. | Dr. C. K. Timbadia | Senior Scientist & Head | Conference on Agriculture based livelihood promotion under Integrated Watershed Manag Programme | Navsari Agricultural University, Navsari | 1 days |
| 146. | Dr. C. K. Timbadia | Senior Scientist & Head | National Conference on Agricultural Marketing | Navsari Agricultural University, Navsari in collaboration with Indian Society of Agricultural Marketing. | 3 days |
| 147. | Dr. C. K. Timbadia | Senior Scientist & Head | International conference on "Innovative approaches for agri knowledge management" | At Vigyan Bhavan NASC Complex, New Delhi organized by International Society of Exte Educ, Nagpur and ICAR, New Delhi. | 3 days |
| 148. | Timbadia | Senior Scientist & Head | 6 th National Conference on KVKs -2011 on the theme "Enabling Farmers 4 Secondary Agriculture" | ICAR, New Delhi in collaboration with Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur. | 3 days |
| 149. | Dr. C. K. Timbadia | Senior Scientist & Head | Global Conference on Women in Agriculture | PUSA, New Delhi, organized by Indian Council of Agricultural Research and Asia- | 3 days |

| | | | | Pacific Association of | |
|------|-----------------------|-------------------------------|---|---|--------|
| | | | | Agricultural Research | |
| 150 | Dr. C. K. | Senior | 7 th National | Institutions (APAARI). ICAR, New Delhi at | 2 days |
| 130. | Timbadia | Scientist & Head | Conference on KVKs -2012 on the theme "Integrating Technologies and Best Practices" | Punjab Agricultural University, Ludhiana | 3 days |
| 151. | Dr. C. K. Timbadia | Senior Scientist & Head | International conference on "Extension Education in the Perspectives of Advances in Natural Resource Management in Agriculture (NaRMA- IV)" | Swami Keshwanand Rajasthan Agricultural University, Bikaner. | 3 days |
| 152. | Dr. C. K. Timbadia | Senior Scientist & Head | Global conference on 'Technological challenges and human resources for climate smart horticulture-issues and strategies' | NAU, delivered a Keynote lecture entitled 'Role of KVKs in climate smart horticulture'. The conference has organized by ASM Foundation, New Delhi; NAU, Navsari; Confederation of Horticultural Associations of India; Jain Irrigation Systems Ltd. and The Horticultural Society of Gujarat. | 4 days |
| | Dr. C. K. Timbadia | Senior Scientist & Head | Contributions made in the organizing of the International Conference on "Strengthening Climate Justice Initiatives: Livelihood Challenges at Local Level with a Focus on Farmers" | Rapparteur at Institute of Law, Nirma University, Ahmedabad. | 2 days |
| 154. | Dr. C. K. Timbadia | Senior Scientist & Head | National Consultation on "System of Rice Intensification for Increased Productivity and Ecological Security" | Govind Ballabh Pant Social Science Institute, Allahabad. | 2 days |
| 155. | Dr. C. K. Timbadia | Senior Scientist & Head | National Conference on "9 th National conference of KVKs | Patna (Bihar) | 2 days |

| | | | 87 th ICAR foundation | | |
|------|-----------|-------------|----------------------------------|----------------------------------|----------|
| | | | & Award ceremony | | |
| 156. | Dr. C. K. | Senior | International | Pusa, New Delhi and | 3 days |
| | Timbadia | Scientist & | Conference on | organized by Voluntary | 3 |
| | | Head | "Extension-Research | Action for Research | |
| | | | Interface Promoting | Development And | |
| | | | Exportable Rice | Networking | |
| | | | Varieties and | (VARDAN), New | |
| | | | Evolving a | Delhi | |
| | | | Sustainable | | |
| | | | Development Model" | | |
| 157. | Dr. C. K. | Senior | National Conference | Dedvasan, Surat | 2 days |
| | Timbadia | Scientist & | on 'Palmyra Palm' | , | J |
| | | Head | organized by ASPEE | | |
| | | | College of | | |
| | | | Horticulture & | | |
| | | | Forestry, NAU, | | |
| | | | Navsari in association | | |
| | | | with Dakshin Gujarat | | |
| | | | Neera Tadgud | | |
| | | | Gramodhyog Sangh | | |
| | | | and Khadi & Village | | |
| | | | Industries | | |
| | | | Commission | | |
| 158. | | Senior | Conference on | Anand Agricultural | 3 days |
| | Timbadia | Scientist & | Farmers First for | University, Anand, | |
| | | Head | Conserving Soil And | Gujarat | |
| | | | Water Resourses in | | |
| | | | Western Region | | |
| | | | (FFCSWR-2018) | | |
| 159. | | Senior | National Conference | Human Development | 1 days |
| | Timbadia | Scientist & | on " Family | Department & Library, | |
| | | Head | Empowerment – A | at Sheth Purushotamdas | |
| | | | path towards better | Thakurdas Mahila | |
| | | | life " | College Of Arts, Home | |
| | | | | Science & Science | |
| | | | | Unit, Managed by | |
| 1.00 | Dr. C. K. | Cartie II | Notional Confirm | Vanita Vishram, Surat. New delhi | 2 4 |
| 160. | | Senior | National Conference | new deini | 2 days |
| | Timbadia | Scientist & | & Unnati Krishimela | | |
| | | Head | | | |

22. Give a brief account of technical back-up to the KVK received from ICAR Institutes/SAUs in planning, execution, monitoring and evaluation of the programs.

| Name of Institute | Technical back-up to the KVK |
|----------------------------|---|
| IARI, New Delhi | Improved Paddy Varieties- S-2511, Pusa-44 |
| Fodder research station | Improved fodder crop varieties- CVS-21 F, PC-9, |
| | M.P.Chari, PC-23, Bajara SC-20 |
| Central of excellence in | Expertise in post harvest value addition technologies in |
| post harvest technology | flower & fruit & vegetables crops |
| Director of ground nut | Improved groundnut varieties- GG-20, TAG-37 ect |
| research station | |
| NAU,Navsari | Improved seeds of paddy, vegetable, pulses, ect. |
| | Biofertilizer viz, aztobactor, azospirillum, PSB,KMB |
| | Organic liquid fertilizer namely novel, novel plus |
| | Seedlings, graft plant material, rhizomes |
| | IPM & IDM, Fertigation in vegetable, cereals and pulses |
| | Raise bed techniques + mulching in vegetables and cereals |
| | and cash crops |
| | Feeding techniques in animals and deworming & vaccines |
| | Composting and vermi compost techniques |
| | Fish seed stocking density, fish feed management, fish |
| | health management |
| CIBA, Channai | Shrimp farming system, Sea bass |
| AAU,Anand | Tissue seedling of pointed gourd, Bio pestiside, Bio |
| | fungiside |
| Central Institute for arid | Plant of black Jambu, bael |
| horticulture | |
| CIFA, Bhubaneswar | Indian major carp culture management (Stocking density, |
| | Feeding management, Fish seed rearing) |
| | IARI, New Delhi Fodder research station Central of excellence in post harvest technology Director of ground nut research station NAU,Navsari CIBA, Channai AAU,Anand Central Institute for arid horticulture |

23. A) Details of technologies assessed / refined during the period under review

a) Agriculture b) Horticulture c) Livestock d) Poultry e) Fishery f) Any other

| Sr. No | Discipline | Technology assessed / refined | Problem solved | Salient findings | Status of transfer and adoption |
|-----------|--------------|--|--|---|--|
| | 1 | | 011-12 to 2018-19 | | |
| 1 | Agriculture | Management of seed rate in transplanted paddy | less numbers of tillers in paddy due to more number of seedling poohill in transplanted paddy. | Seed rate is reduce and it helps increase in the yield up to 10-15 % of paddy | >8680 ha. area of Chikhali, Vasnda, Navsari, Khergam and Jalalpore |
| 2 | Agriculture | Nutrient management in transplanted paddy | Indiscriminate and Judicious use of fertilizers | Balance nutrient paddy crop quantity and yield is increased up to the 14-28% | >7230 ha. area of Chikhali, Vasnda, Navsari, Khergam and Jalalpore |
| 3 | Agriculture | Introduction of New Variety in Green gram | Yellow vein mosaic virus disease incidence in Green gram is reduced | seed size is medium ultimately yield is increase up to 18-30 % | >430 ha. area of Chikhali, Vasnda, Khergam and Jalalpore |
| 4 | Agriculture | Effect of seed treatment of bio pesticides on disease incidence in Tur | Wilt problem in pigeonpea is addressed | Reduced seedling mortality and adequate plants per area. Increase yield by 10-12 % | >370 ha. area of Chikhali, Vasnda and Khergam |
| 5 | Agriculture | Wilt Management in Brinjal | Use of bio-pesticides reduced the production cost as well as Wilt problem in Brinjal is solved | Average yield was 3 q/ha was increased along with less cost of cultivation | >400 ha. area of chikhali, vasnda, khergam and Jalalpor |
| 6 | Agriculture | Sucking pest management in Chilli | Reduced indiscriminate use of pesticides/acaricides, thereby reduction in pesticide residue | Effective utilization of all the IPM tools | >180 ha. area of Chikhali, Vasnda, Khergam and Jalalpore |
| 7 | Horticulture | Induction of early flowering in mango through paclobutrozol | Early flowering in mango through paclobutrazol @ 30 ml/tree soil drenching | Inducing of early flowering through paclobutrazol | >1837 ha. area of Navsari,Jalalpore, Chikhali and Gandevi |
| 8 | Horticulture | Increase the productivity of | Biofertilizer increased the productivity of | Biofertilizer use increase | >1159 ha. area of Navsari, |

| | | sapota through use of biofertilizer | sapota tree | the productivity of sapota tree | Jalalpore, and Gandevi |
|----|-----------------|---|---|---|---|
| 9 | Horticulture | New okra variety in Navsari district | Variety did not perform well under south Gujarat condition | Farmer did not accept the varity | - |
| 10 | Fishery | Effect of vermicompost mixed fish feed on the growth of Indian major corps in village | Increased growth along with natural productivity | Imported growth higher survival 38% higher production | 20-30% farmers those are preparing vermi compost |
| 11 | Fishery | Stocking density of fingerlings (catla, rohu, mrigal, and grass corps) for production of stunted yearlings in cage culture system | Too deep water body can be used for stunted fingerlings in cage culture | Easy to harvest when required higher survival feed management | In process |
| 12 | Home Science | Effect of low cost food supplements in malnourished preschool children | Problem of Prevalence of Anemia among rural tribal adolescent girls (16 to 18 yrs) was solved | 1.Low iron content in diet 2.Use of traditional diet 3.Lack of knowledge about nutritional foods 4.Prevalence of infectious diseases 5.Poor socioeconomic condition | Daily use of iron rich diet (100gm roasted Bengal gram + 100gm roasted Rice flakes) and one iron tablet with existing dietary pattern increased Hb level and body weight of tribal adolescent girls as compared to other treatment. |
| 13 | Home Science | Reduction of Anaemia among rural adolescent girls | Problem of Design and development of high iron rich diet to prevent iron deficiency Anemia in tribal farm women (18 to 35 yrs) was solved | Low haemoglobin level in tribal farm women due to iron deficiency Anemia | on Farm Trial on design and development of high iron rich diet to prevent iron deficiency Anemia in tribal farm women. The assessed practice of daily use of 100 gm Carrot + |

| | | | | | 80 gm tomato + 50 gm Chickpea + 50 gm Jaggery with existing dietary pattern increased Hb level and body weight of tribal farm women was about 1.10 gm % & 2.100 Kg respectively during three months |
|----|------------|--|---|----------------------|---|
| 14 | Live stock | To assess the effect of mineral supplement and dewormer on milk production | Lack of knowledge in the use of feed supplements, mineral mixture and deworming | Milk yield increased | > 28% of Adoption- |
| 15 | Live stock | Need assessment of microbial feed supplement (probiotics) | Lack of knowledge in the use of probiotics | Milk yield increased | > 23% of Adoption- |

23. B) Enlist most accepted technologies assessed during the period under review

| S. | Name of the technology | Extent of adoption | Reasons for adoption |
|-----|-----------------------------------|-------------------------------|----------------------------------|
| No. | | | |
| 1 | System of Rice Intensification | Total 2838 farmers of 42 | Higher Yield, seed and water |
| | Cultivation in paddy | villages were adopt and use | saving |
| | | Novel nutrient liquid | |
| 2 | Nutrient management in paddy | Total 4389 farmers of 76 | Reduce the fertilizer cost and |
| | | villages were adopt | higher yield |
| 3 | Introduction of New paddy | Total 2785 farmers of 44 | Higher yield and good quality |
| | variety viz., GNR-3 | villages were adopt | "pahuva" is prepared out of it |
| 4 | Application of Bio-fertilizers in | Total 3872 farmers of 39 | Higher Yield and Soil |
| | Sapota | villages were adopt | conservation |
| 5 | High density mango plantation | Total 1027 farmers of 23 | Higher yield in short duration |
| | | villages were adopt | and height of the plant is short |
| | | | so that harvesting is easy |
| 6 | NOVEL nutrient liquid | Total 4968 farmers of 173 | Very good results in vegetable |
| | | villages were adopt and use | crops and increase production |
| | | Novel nutrient liquid | |
| 7 | Vaishali (Pigeonpea) | Total 1858 farmers of 78 | Give Higher yield and Suitable |
| | | villages were adopt and cover | in Navsari district |

| S. No. | Name of the technology | Extent of adoption | Reasons for adoption |
|-----------|---|---|------------------------------------|
| | | 109 ha area for cultivation | |
| 8 | GJG-3 (Gram) | Total 345 farmers of 58 | Give Higher yield and suitable |
| | | villages were adopt and cover | for Navsari district |
| | | 233 ha area | |
| 9 | Management of mango fruit fly | Total 3879 farmers of 73 | Loss occur due to fruit fly is |
| | by using fruit fly trap | villages were adopt and cover | reduced and easily available at |
| | | 3892 ha | KVK |
| 10 | Management of fruit fly in | Total 362 farmers of 42 | Loss occur due to fruit fly is |
| | cucurbitaceous crops by using | villages were adopt and cover | reduced and easily available at |
| | fruit fly trap | 374 ha area | KVK |
| 11 | Management of brinjal shoot | Total 289 farmers of 63 | Loss occur due to shoot and |
| | and fruit borer by using sex | villages were adopt and cover | fruit borer is reduced in brinjal |
| | pheromone traps | 467 ha area | |
| 12 | Introduction of high value | Total 1076 farmers of 47 | Short duration, high return and |
| | sweetcorn crop | villages were adopt and cover | assured market price |
| - 10 | | 308 ha | ** 1 0 1 0 1 1 1 1 |
| 13 | Area Specific Chelated Mineral | Total 1798 farmers of 53 | Helpful for dairy animals |
| | Mixture | villages who doing animal | |
| 1.4 | D (() 1: 1 1 : | husbandry were adopt Total 3216 farmers of 72 | XX 1 C 1 C 1 : |
| 14 | By-pass fat for high producing | | Helpful for dairy animals and |
| 1.5 | animals | villages were adopt Total 388 farmers of 32 | increasel milk production |
| 15 | Fish seed stocking density | | Village ponds are utilized for |
| 1.0 | F' 1 C 1 | villages were adopt | revenue generating |
| 16 | Fish feed management | Total 269 farmers of 24 | Helpful for increases fish |
| 17 | Ciloro harandaran dan dan dan dan dan dan dan dan dan d | villages were adopt Total 308 farmers of 53 | production |
| 17 | Silage bag and urea treatment | | Higher milk yield |
| | of paddy straw for livestock | villages were adopt | |
| 18 | feeding | Total 1127 farmers of 47 | It halms in Nitrogen fination acts |
| 18 | Summer green gram in mango | | It helps in Nitrogen fixation acts |
| | as intercrop as well as cover | villages were adopt | as a green manure crop |
| | crop | | Helps in reduction of sun scorch |
| | | | of mango fruit during summer |

24. Details of Front Line Demonstrations conducted during the period under review

${\bf A)}\ Front-line\ demonstration\ in\ \textit{Kharif}\ season\ (Including\ CFLDs\ on\ Oilseeds\ and\ Pulses)$

Condition: Rainfed/Irrigated

| Year wise | Crops | No. of | Area | Avg. | | Local che | ck | Imp | roved Vai | riety | Incr | ease | Net | Effective |
|-----------------|------------------|--------|-------|--------|--------|-------------------------|-------------------------|---------------|----------------|-------------------------|----------------|---------|------|-----------|
| | | farmer | (ha) | yield | Av. | C (Rs.) | R (Rs.) | Variety | C | R (Rs.) | C | R (Rs.) | loss | gain |
| | | | | (q/ha) | Yield | | | | (Rs.) | | (Rs.) | | (Rs) | (Rs.) |
| I | Paddy | 1316 | 263.2 | 44.38 | 40.13 | 25,550 | 48,156 | NAUR-1 | 23,950 | 53,256 | -1,600 | 5,100 | - | 6,700 |
| (2011-12) | | | | | | | | | | | | | | |
| | Paddy | 137 | 35.34 | 36.03 | 35.92 | 25,550 | 43,104 | GNR-2 | 23,950 | 43,236 | -1,600 | 132 | - | 1,732 |
| | Paddy | 17 | 9.5 | 51.55 | 40.9 | 25,550 | 49,080 | GNR-3 | 23,950 | 61,860 | -1,600 | 12,780 | - | 14,380 |
| | Paddy | 4 | 1.6 | 48.8 | 45.98 | 25,550 | 55,176 | PRH-10 | 23,950 | 58,560 | -1,600 | 3,384 | - | 4,984 |
| | Paddy | 4 | 1 | 42.83 | 40.25 | 25,550 | 48,300 | GAR-1 | 23,950 | 51,396 | -1,600 | 3,096 | - | 4,696 |
| | Paddy | 4 | 1 | 44.38 | 40.13 | 25,550 | 48,156 | GR-13 | 23,950 | 53,256 | -1,600 | 5,100 | - | 6,700 |
| | Finger millet | 17 | 4.25 | 0.1255 | 0.1015 | 12,550 | 18,825 | GN-4, GN-5 | 10650 | 21,150 | -1,900 | 2,325 | - | 4,225 |
| | Tur | 80 | 10 | 11.24 | 9.32 | 21600 | 45200 | Vaishali | 20122 | 56200 | -1,478 | 11,000 | - | 12,478 |
| | Paddy (IPDM) | 10 | 2 | 0.4745 | 47.38 | 25,525 | 54,056 | NAUR-1 | 23950 | 56,940 | -1,575 | 2,884 | - | 4,459 |
| II (2012-13) | Paddy | 550 | 89.4 | 52.03 | 39.35 | 26230 | 22957 | NAUR-1 | 24680 | 40357 | -1,550 | 17,400 | - | 18,950 |
| | Paddy | 246 | 49.2 | 45.54 | 42.17 | 26230 | 26483 | GNR-2 | 24140 | 32785 | -2,090 | 6,302 | - | 8,392 |
| | Paddy | 307 | 61.4 | 48.14 | 42.33 | 26230 | 26683 | GNR-3 | 23230 | 36945 | -3,000 | 10,262 | - | 13,262 |
| | Paddy | 10 | 2.5 | 81 | 50.83 | 26230 | 37308 | SRI | 38250 | 62550 | 12,020 | 25,242 | - | 13,222 |

| | | | | | | | | 6201, | | | | | | |
|------------------|------------|-----|-------|-------|-------|-------|-------|----------|-------|--------|--------|--------|---|--------|
| | | | | | | | | 6444 | | | | | | |
| | | | | | | | | 0111 | | | | | | |
| | Paddy | | | | | | | | | | -320 | 6,570 | - | 6,890 |
| | (IPM) | 25 | 10 | 44.85 | 39.85 | 26230 | 23582 | Gurjari | 25910 | 30152 | | | | |
| | Tur | 656 | 113.3 | 8.37 | 7.64 | 9410 | 19100 | Vaishali | 12320 | 21160 | 2,910 | 2,060 | - | -850 |
| III (2013-14) | Paddy | 40 | 8 | 41.62 | 36.34 | 24510 | 54510 | GNR-2 | 23460 | 62430 | -1,050 | 7,920 | - | 8,970 |
| | Paddy | 102 | 20.4 | 45.44 | 37.2 | 23470 | 55800 | GNR-3 | 22590 | 65888 | -880 | 10,088 | - | 10,968 |
| | Paddy | 8 | 0.8 | 33.5 | 37.2 | 23470 | 55800 | GNR-4 | 25810 | 67000 | 2,340 | 11,200 | - | 8,860 |
| | Paddy | 155 | 31 | 48.26 | 44.86 | 24130 | 58318 | NAUR-1 | 22840 | 67564 | -1,290 | 9,246 | - | 10,536 |
| | Paddy | 12 | 2.4 | 46.26 | 44.86 | 24130 | 58318 | PRH-10 | 22340 | 60138 | -1,790 | 1,820 | - | 3,610 |
| | | | | | | | | Hybrids | | | 7,530 | 43,966 | - | 36,436 |
| | | | | | | | | (5251, | | | | | | |
| | Paddy | 36 | 8.6 | 81.68 | 47.86 | 22660 | 62218 | 6444) | 30190 | 106184 | | | | |
| | Paddy | 20 | 4.8 | 78.97 | 47.86 | 22660 | 62218 | NAUR-1 | 28910 | 102661 | 6,250 | 40,443 | - | 34,193 |
| | Paddy | 55 | 13.7 | 43.14 | 42.9 | 23470 | 55770 | GR-13 | 21800 | 60396 | -1,670 | 4,626 | - | 6,296 |
| | Paddy | 20 | 5 | 43.75 | 36.78 | 31643 | 51492 | Gurjari | 30945 | 61250 | -698 | 9,758 | - | 10,456 |
| | Pigeon | | | | | | | | | | 2,000 | 8,865 | - | 6,865 |
| | pea | 10 | 1.3 | 7.49 | 5.52 | 14350 | 24840 | GT-103 | 16350 | 33705 | | | | |
| | Pigeon pea | 50 | 6.7 | 7.32 | 5.4 | 15200 | 24300 | AGT-2 | 17000 | 32940 | 1,800 | 8,640 | - | 6,840 |
| | Pigeon | 400 | 53.3 | 6.08 | 5.35 | 15500 | 24075 | Vaishali | 16800 | 27360 | 1,300 | 3,285 | - | 1,985 |

| | pea | | | | | | | | | | | | | |
|----------------|---------------|-----|-----|-------|-------|-------|----------|---------------------|-------|----------|--------|--------|---|--------|
| IV (2014-15) | Paddy | 45 | 9 | 56.16 | 48.84 | 29525 | 58608 | NAUR-1 | 28764 | 78624 | -761 | 20,016 | - | 20,777 |
| | Paddy | 28 | 6 | 52.25 | 48.84 | 26540 | 58608 | PRH-10 | 25670 | 73150 | -870 | 14,542 | - | 15,412 |
| | Paddy | 10 | 2 | 51.8 | 48.84 | 25930 | 58608 | PS-5 | 24920 | 72520 | -1,010 | 13,912 | - | 14,922 |
| | Paddy | 114 | 35 | 48.3 | 37.35 | 28410 | 44820 | GNR-3 | 28180 | 67620 | -230 | 22,800 | - | 23,030 |
| | Paddy | 50 | 10 | 42.44 | 37.35 | 26230 | 44820 | GNR-2 | 24880 | 59416 | -1,350 | 14,596 | - | 15,946 |
| | Paddy | 700 | 140 | 54.1 | 39.7 | 26230 | 51610 | GNR-3 | 24880 | 75740 | -1,350 | 24,130 | - | 25,480 |
| | Paddy | 35 | 7 | 82.78 | 48.84 | 25610 | 58608 | Hybrids (312, 6444) | 32290 | 115892 | 6,680 | 57,284 | - | 50,604 |
| | Paddy | 23 | 4.6 | 39.7 | 34.3 | 25920 | 41160 | GNR-4 | 30640 | 55580 | 4,720 | 14,420 | - | 9,700 |
| | Paddy | 20 | 10 | 47.68 | 37.35 | 26670 | 48555 | GNR-3 | 25750 | 66752 | -920 | 18,197 | - | 19,117 |
| | Pigeon pea | 260 | 52 | 11.05 | 9.45 | 15400 | 56700 | Vaishali | 16900 | 66300 | 1,500 | 9,600 | - | 8,100 |
| | Pigeon pea | 30 | 5 | 11.22 | 9.45 | 16100 | 56700 | Available | 17200 | 67320 | 1,100 | 10,620 | - | 9,520 |
| V (2015-16) | Pigeonpea | 210 | 34 | 7.57 | 6.87 | 20350 | 48098.79 | Vaishali | 21350 | 52999.69 | 1,000 | 4,901 | - | 3,901 |
| | Pigeonpea | 20 | 4 | 6.94 | 6.72 | 20350 | 47048.6 | BDN-711 | 20350 | 48588.88 | 0 | 1,540 | - | 1,540 |
| | Pigeonpea | 25 | 5 | 7.69 | 6.42 | 20350 | 44948.22 | Vaishali, | 22050 | 53839.84 | 1,700 | 8,892 | - | 7,192 |

| | Pigeonpea | | | 7.02 | 6.54 | 20350 | 44948.22 | BDN-711 | 22050 | 53839.84 | 1,700 | 8,892 | - | 7,192 |
|------------------|------------|-----|-------|-------|-------|-------|----------|--------------|-------|----------|--------|--------|---|--------|
| | Paddy | 600 | 120 | 54.21 | 42.17 | 28550 | 54892.86 | NAUR-1 | 28950 | 70565.37 | 400 | 15,673 | - | 15,273 |
| | Paddy | 261 | 52.2 | 49.25 | 38.62 | 28750 | 54133.81 | GNR-3 | 29150 | 69033.92 | 400 | 14,900 | - | 14,500 |
| | Paddy | 20 | 4 | 38.52 | 33.67 | 27550 | 43828.37 | GNR-4 | 28950 | 56639.81 | 1,400 | 12,811 | - | 11,411 |
| | Paddy | 38 | 7.6 | 80.15 | 46.52 | 28750 | 60555.27 | VNR- 2111 | 31990 | 104331.6 | 3,240 | 43,776 | - | 40,536 |
| | Paddy | 20 | 4 | 41.07 | 38.62 | 29270 | 50276.29 | kl-15 | 28990 | 53465.75 | -280 | 3,189 | - | 3,469 |
| | Paddy | 20 | 10 | 48.54 | 43.12 | 28050 | 58284.44 | Available | 28950 | 65610.55 | 900 | 7,326 | - | 6,426 |
| | Paddy | 20 | 10 | 49.58 | 48.39 | 28350 | 65407.8 | Available | 28950 | 67016.29 | 600 | 1,608 | - | 1,008 |
| VI (2016-17) | Pigeon pea | 385 | 52 | 11.34 | 7.8 | 20350 | 40257 | Vaishali | 21350 | 52362 | 1,000 | 12,105 | - | 11,105 |
| | Paddy | 405 | 81 | 49.34 | 42.17 | 34850 | 62606 | GNR-3 | 30150 | 73250 | -4,700 | 10,644 | - | 15,344 |
| | Paddy | 20 | 4 | 43.7 | 41.68 | 32850 | 61878 | S-2511 | 30150 | 64877 | -2,700 | 2,999 | - | 5,699 |
| | Paddy | 127 | 21 | 51.25 | 38.62 | 34850 | 61197 | NAUR-1 | 30350 | 81211 | -4,500 | 20,014 | - | 24,514 |
| | Paddy | 20 | 4 | 39.52 | 35.67 | 32500 | 52956 | PUSA-44 | 30150 | 59699 | -2,350 | 6,743 | - | 9,093 |
| | Paddy | 32 | 6.4 | 82.26 | 49.32 | 28750 | 69064 | US-312 | 31990 | 115865 | 3,240 | 46,801 | - | 43,561 |
| | Paddy | 24 | 2.4 | 45.47 | 42.17 | 34850 | 62606 | GNR-4 | 30150 | 67505 | -4,700 | 4,899 | - | 9,599 |
| VII (2017-18) | Pigeonpea | 399 | 33.33 | 11.28 | 9.83 | 21350 | 56857 | Vaishali | 20400 | 65695 | -950 | 8,838 | - | 9,788 |

| | Pigeonpea | 163 | 20 | 10.34 | 9.5 | 21350 | 56297 | Vaishali | 20400 | 61895 | -950 | 5,598 | - | 6,548 |
|-------------------|-----------|-----|-------|-------|-------|-------|-------|---------------|-------|--------|--------|--------|---|--------|
| | Pigeonpea | 20 | 5 | 10.98 | 8.97 | 20350 | 53641 | Vaishali | 21350 | 65660 | 1,000 | 12,019 | - | 11,019 |
| | Paddy | 484 | 103.4 | 46.98 | 39.8 | 36450 | 72675 | NAUR-1 | 33600 | 85785 | -2,850 | 13,110 | - | 15,960 |
| | Paddy | 188 | 61.66 | 43.74 | 38.15 | 35850 | 69662 | GNR-3 | 33400 | 79869 | -2,450 | 10,207 | - | 12,657 |
| | 5.11 | 20 | 4 | 71.28 | 43.59 | 36450 | 79595 | VNR- 2233/ | 36850 | 130157 | 400 | 50,562 | - | 50,162 |
| | Paddy | | | | | | | VS-312 | | | | | | |
| | Paddy | 13 | 5 | 38.82 | 36.69 | 36750 | 66996 | GNR-2 | 33400 | 72711 | -3,350 | 5,715 | 1 | 9,065 |
| | Paddy | 51 | 8.33 | 44.54 | 40.24 | 36450 | 71652 | GNR-5 | 33400 | 82041 | -3,050 | 10,389 | - | 13,439 |
| | Paddy | 68 | 5 | 45.28 | 40.22 | 35750 | 73442 | Available | 32990 | 83512 | -2,760 | 10,070 | - | 12,830 |
| | Paddy | 20 | 10 | 48.74 | 44.21 | 36850 | 71141 | Available | 33850 | 78835 | -3,000 | 7,694 | - | 10,694 |
| VIII (2018-19) | Pigeonpea | 10 | 5 | 11.87 | 10.98 | 21360 | 36584 | Vaishali | 22300 | 53200 | 940 | 16616 | - | 15676 |
| | Pigeonpea | 161 | 31 | 10.89 | 8.56 | 27650 | 47946 | BSMR- 853 | 27050 | 60997 | -600 | 13051 | - | 13651 |
| | Paddy | 313 | 110 | 46.89 | 41.13 | 38550 | 75103 | NAUR-1 | 36950 | 86184 | -1600 | 11081 | - | 12681 |
| | Paddy | 100 | 75 | 48.34 | 42.26 | 38550 | 81139 | GNR-3 | 37150 | 93103 | -1400 | 11964 | - | 13364 |
| | Paddy | 2 | 1 | 38.59 | 34.12 | 36350 | 58891 | GNR-4 | 37250 | 66606 | 900 | 7715 | - | 6815 |
| | Paddy | 49 | 14 | 45.64 | 41.42 | 37750 | 75384 | GNR-5 | 36990 | 83339 | -760 | 7955 | - | 8715 |
| | Paddy | 10 | 4 | 42.75 | 39.17 | 38640 | 71524 | GNR-6 | 37460 | 78062 | -1180 | 6538 | - | 7718 |

| Paddy | 2 | 0.5 | 68.57 | 44.72 | 40490 | 81659 | Pusha-44 | 46700 | 127266 | 6210 | 45607 | - | 39397 |
|-------|----|-----|-------|-------|-------|-------|----------------------|-------|--------|-------|-------|---|-------|
| Paddy | 8 | 2 | 53.21 | 50.81 | 38380 | 85869 | S-2511 | 37600 | 89925 | -780 | 4056 | - | 4836 |
| Paddy | 14 | 3 | 49.13 | 46.93 | 39270 | 77904 | SRI | 38190 | 83030 | -1080 | 5126 | - | 6206 |
| Paddy | 20 | 10 | 45.25 | 40.22 | 34569 | 72445 | GNR- 3/NAUR- 1 | 31950 | 82561 | -2619 | 10116 | - | 12735 |
| Paddy | 20 | 10 | 43.12 | 40.24 | 34650 | 72444 | GNR- 3/NAUR- 1 | 30951 | 82532 | -3699 | 10088 | - | 13787 |

C= Cost (Rs./ha); R= Return (Rs./ha); The results of front-line demonstrations (q/ha) are indicated year-wise.

B) Front-line demonstration in *Rabi/Summer* season (Including CFLDs on Oilseeds and Pulses)

Condition: Rainfed/Irrigated

| | 1 | | | | | | | I | | | ı | i. Italiiica, | | |
|-----------|-----------|--------|------|--------|-------|----------------|---------|-----------|----------------|----------------|----------------|----------------|------|----------------|
| Year wise | Crops | No. of | Area | Avg. | | Local che | eck | Impro | oved Var | iety | Inc | rease | Net | Effective |
| | | farmer | (ha) | yield | Av. | C | R (Rs.) | Variety | C | R | C | R | loss | gain |
| | | | | (q/ha) | Yield | (Rs.) | | | (Rs.) | (Rs.) | (Rs.) | (Rs.) | (Rs) | (Rs.) |
| I | Castor | 4 | 4 | 20.19 | 18.75 | 19,250 | 60,125 | GCH-4 | 19,625 | 66,350 | 375 | 6,225 | - | 5,850 |
| (2011-12) | | | | | | | | | | | | | | |
| | Castor | 4 | 4 | 31.6 | 26.6 | 17,620 | 70,605 | GCH-7 | 18,620 | 90,525 | 1,000 | 19,920 | - | 18,920 |
| | | | | | | | | | | | | | | |
| | Sugarcane | 10 | 5 | 115.8 | 103.6 | 90600 | 147680 | Available | 95400 | 170940 | 4,800 | 23,260 | - | 18,460 |
| | 0-4 | 20 | 2 | 262 | | | | V IIIO | 11010 | 70570 | 0 | 0 | | 0 |
| | Oat | 20 | 2 | 363 | | | | Kent,JHO- | 11910 | 72570 | 0 | 0 | - | 0 |
| | | | | | | | | 822 | | | | | | |
| | | | | | | | | | | | _ | _ | | _ |
| | Sweet | 367 | 59 | 84 | | | | S-75 | 20640 | 49920 | 0 | 0 | - | 0 |
| | Corn | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Green | 537 | 88 | 16.95 | 13.4 | 15,350 | 36,268 | Meha | 15,210 | 44,425 | -140 | 8,157 | - | 8,297 |
| | | | | | | | | | | | | | | |

| | gram | | | | | | | | | | | | | |
|-----------------|------------------|------|-------|-------|--------|-------|--------|-----------------|--------|--------|--------|--------|---|--------|
| II (2012-13) | Sorghum | 62 | 13.3 | 38.28 | 35.78 | 8370 | 52456 | GJ-38 | 9470 | 65606 | 1,100 | 13,150 | - | 12,050 |
| | Sorghum | 10 | 2.5 | 39.74 | 36.87 | 8370 | 54309 | GJ-42 | 9470 | 78088 | 1,100 | 23,779 | - | 22,679 |
| | Sorghum | 8 | 2 | 38.47 | 35.09 | 8370 | 51283 | GFS-5 | 9470 | 66929 | 1,100 | 15,646 | - | 14,546 |
| | Castor | 275 | 68.75 | 25.67 | 18.3 | 20350 | 54900 | GCH-7 | 19290 | 77010 | -1,060 | 22,110 | - | 23,170 |
| | Sweet corn | 500 | 100 | 71.8 | 615.05 | | | Sugar-75 | 11200 | 21375 | 11,200 | 21,375 | - | 10,175 |
| | Finger millet | 20 | 8 | 25.32 | 21.97 | 9410 | 23495 | GN-5 | 11150 | 26830 | 1,740 | 3,335 | - | 1,595 |
| | Kidney bean | 57 | 5.7 | 8.75 | 5.9 | 15800 | 17740 | Guj.val- 1/2 | 17900 | 21500 | 2,100 | 3,760 | - | 1,660 |
| | Gram | 46 | 5 | 9.85 | 8.6 | 11430 | 40170 | GG2 | 13960 | 49250 | 2,530 | 9,080 | - | 6,550 |
| | Green gram | 80 | 20 | 9.8 | 8.45 | 13450 | 33800 | CO4 | 14670 | 39200 | 1,220 | 5,400 | - | 4,180 |
| | Green gram | 500 | 108 | 11.4 | 9.3 | 7620 | 29580 | Meha | 8940 | 42360 | 1,320 | 12,780 | - | 11,460 |
| | Sugarcane (IPDM) | 2000 | 1000 | 122.4 | 110.2 | 97800 | 199740 | Available | 103000 | 227480 | 5,200 | 27,740 | - | 22,540 |
| | Black gram | 110 | 25 | 7.9 | 5.8 | 5710 | 23290 | T-9 | 6930 | 32570 | 1,220 | 9,280 | - | 8,060 |
| | Ground | 44 | 9 | 18.11 | 15.19 | 27620 | 48330 | TAG-37 | 26116 | 64434 | - | 16,104 | - | 17,608 |

| | nut | | | | | | | | | | 1,504 | | | |
|------------------|----------------|-----|-----|--------|-------|--------|--------|---------------------------|--------|--------|------------|--------|---|--------|
| | | | | | 0.5.4 | 17.100 | **** | ~~ . | | | | | | |
| III (2013-14) | Green gram | 42 | 8 | 9.36 | 8.24 | 15680 | 28840 | CO-4 | 14350 | 32760 | 1,330 | 3,920 | - | 5,250 |
| | Gram | 82 | 6.5 | 9.4 | 7.9 | 16700 | 31600 | GG-2 | 15680 | 37600 | 1,020 | 6,000 | - | 7,020 |
| | Gram | 20 | 2 | 11.3 | 7.9 | 17300 | 31600 | PKV-2 | 16800 | 50850 | -500 | 19,250 | - | 19,750 |
| | Indian bean | 57 | 5.7 | 8.85 | 7.65 | 17150 | 30600 | G.Val-2 | 16500 | 35400 | -650 | 4,800 | - | 5,450 |
| | Green gram | 600 | 100 | 10.8 | 8.84 | 8260 | 35940 | Meha | 9450 | 55350 | 1,190 | 19,410 | - | 18,220 |
| | Sweet corn | 300 | 46 | 104.8 | - | | | Sugar-75 | | | 0 | 0 | - | 0 |
| IV (2014-15) | Sorghum | 25 | 1.3 | 180.5 | 165 | 17630 | 49500 | CSV-21 | 19460 | 54150 | 1,830 | 4,650 | - | 2,820 |
| | Sugarcane | 10 | 5 | 948 | 817 | 106570 | 294690 | GNS-5, GNS-7, GNS-8 | 114680 | 344850 | 8,110 | 50,160 | - | 42,050 |
| | Sweet corn | 245 | 25 | 103.75 | 0 | | | S-75 | 25400 | 83000 | 0 | 0 | - | 0 |
| | Indian bean | 42 | 1.7 | 9.25 | 7.45 | 16400 | 44700 | G. Val-2 | 18100 | 55500 | 1,700 | 10,800 | - | 9,100 |
| | Gram | 130 | 7 | 9.9 | 8.42 | 17800 | 58940 | GG 2 | 16300 | 69300 | - 1,500 | 10,360 | - | 11,860 |
| | Green | 100 | 18 | 9.4 | 8.2 | 19200 | 53300 | Co-4 | 20600 | 61100 | 1,400 | 7,800 | - | 6,400 |

| | gram | | | | | | | | | | | | | |
|-----------------|----------------|-----|------|-------|-------|--------|--------|---------------------------|--------|--------|-------|--------|---|--------|
| | Sugarcane | 10 | 2.5 | 964 | 896.7 | 106570 | 294690 | GNS-5, GNS-7, GNS-8 | 114680 | 344850 | 8,110 | 50,160 | - | 42,050 |
| | Groundnut | 50 | 5 | 15.16 | 12.96 | 23830 | 77760 | GG-2 | 25390 | 90960 | 1,560 | 13,200 | - | 11,640 |
| V (2015-16) | Indian bean | 69 | 4.3 | 8.1 | 7.5 | 18850 | 49500 | GV-2 | 19500 | 57510 | 650 | 8,010 | - | 7,360 |
| | Greengram | 36 | 7.2 | 8.84 | 7.6 | 21050 | 57760 | CO4 | 22050 | 67184 | 1,000 | 9,424 | - | 8,424 |
| | | 25 | 5 | | | | | Meha | | | 0 | 0 | - | 0 |
| | Chickpea | 122 | 11.5 | 7.85 | 7.23 | 18550 | 42657 | GG-2 | 19550 | 46315 | 1,000 | 3,658 | - | 2,658 |
| | | 17 | 1.6 | 8.4 | 7.23 | 18650 | 42657 | GG-3 | 19550 | 49560 | 900 | 6,903 | - | 6,003 |
| | | 26 | 2 | 8.9 | 7.23 | 18650 | 44826 | PKV-2 | 22050 | 64080 | 3,400 | 19,254 | - | 15,854 |
| | Sweet corn | 142 | 24 | | | | | S-75 | | | 0 | 0 | - | 0 |
| VI (2016-17) | Greengram | 119 | 20 | 8.78 | 6.92 | 21050 | 52592 | CO4 | 23050 | 66728 | 2,000 | 14,136 | - | 12,136 |
| | Chickpea | 92 | 16 | 9.76 | 7.32 | 18750 | 46020 | GG 2 | 20550 | 57584 | 1,800 | 11,564 | - | 9,764 |
| | Chickpea | 24 | 5 | 10.11 | 7.32 | 18750 | 43188 | GG 3 | 23350 | 59649 | 4,600 | 16,461 | - | 11,861 |
| | Chickpea | 10 | 1.4 | 10.78 | 7.32 | 18750 | 45384 | PKV-2 | 23350 | 72226 | 4,600 | 26,842 | - | 22,242 |
| | Indian bean | 50 | 5 | 8.68 | 7.47 | 18850 | 49302 | Guj.Indian bean1/2 | 22400 | 61628 | 3,550 | 12,326 | - | 8,776 |

| | Indian bean | 22 | 1.6 | 21.18 | 16.79 | 31850 | 118369.5 | GNIB-21 | 36600 | 149319 | 4,750 | 30,950 | - | 26,200 |
|-------------------|----------------|-----|-------|-------|-------|-------|----------|----------------------|-------|---------|--------|--------|---|--------|
| VII (2017-18) | Greengram | 100 | 20 | 8.13 | 6.44 | 23150 | 40379 | Co-4 | 22050 | 50975 | -1,100 | 10,596 | - | 11,696 |
| | Greengram | 37 | 7.6 | 7.97 | 6.07 | 23150 | 38059 | Co-4 | 22050 | 49972 | -1,100 | 11,913 | - | 13,013 |
| | Chickpea | 20 | 4 | 11.85 | 9.77 | 24300 | 45372 | GG-1 | 21650 | 55031 | -2,650 | 9,659 | - | 12,309 |
| | Chickpea | 160 | 33.33 | 12.72 | 9.98 | 24300 | 46347 | GG-3 | 22000 | 59072 | 2,300 | 12,725 | - | 15,025 |
| | Indian bean | 26 | 2 | 9.14 | 7.67 | 23750 | 35619 | G.Indain bean-2 | 22350 | 51586 | -1,400 | 15,967 | - | 17,367 |
| | Indian bean | 7 | 1 | 49.78 | 37.62 | 43820 | 80657 | GNIB-21 | 37350 | 106728 | -6,470 | 26,071 | - | 32,541 |
| | Sorghum | 49 | 7.7 | 323 | 287 | 20450 | 43050 | CSV-21-F | 19220 | 48450 | -1,230 | 5,400 | - | 6,630 |
| | Sorghum | 12 | 1.5 | 587.8 | 502.6 | 22550 | 50260 | M.P. | 21320 | 58780 | -1,230 | 8,520 | - | 9,750 |
| VIII (2018-19) | Greengram | 144 | 18.5 | 7.88 | 6.45 | - | - | Co-4 | 27050 | 61621.6 | - | - | - | - |
| | Indian bean | 47 | 2 | 49.64 | 38.47 | 39850 | 175039 | GNIB-21 | 41600 | 225862 | 1750 | 50823 | - | 49073 |
| | Indian bean | 71 | 6.5 | 8.95 | 7.58 | 26950 | 57608 | Guj.Indian bean-2 | 26050 | 63545 | -900 | 5937 | - | 6837 |
| | Sorghum (F) | 20 | 2 | 438 | 402 | 33450 | 110550 | M.P.Chari | 31950 | 120450 | -1500 | 9900 | - | 11400 |

| Sorghum | 10 | 1 | 421 | 388 | 34350 | 106700 | PC-9 | 31950 | 115775 | -2400 | 9075 | - | 11475 |
|------------|-----|----|-------|-------|-------|--------|-------|-------|--------|-------|-------|---|-------|
| (F) | | | | | | | | | | | | | |
| Bajara (F) | 10 | 1 | 398 | 0 | 0 | 0 | HC-20 | 28650 | 99500 | - | - | - | - |
| Greengram | 194 | 20 | 8.34 | 5.86 | 27650 | 44536 | Meha | 26450 | 63384 | -1200 | 18848 | - | 20048 |
| Greengram | 88 | 10 | 9.12 | 5.86 | 27650 | 44536 | GM-6 | 26450 | 69312 | -1200 | 24776 | - | 25976 |
| Chickpea | 79 | 10 | 12.81 | 10.17 | 26990 | 55528 | GG-3 | 28480 | 69942 | 1490 | 14414 | - | 12924 |
| Chickpea | 80 | 10 | 15.32 | 10.17 | 26990 | 55528 | GG-5 | 28480 | 83647 | 1490 | 28119 | - | 26629 |

C= Cost (Rs./ha); R= Return (Rs./ha); The results of front-line demonstrations (q/ha) are indicated year-wise.

C) Front-line demonstration on horticultural crops including fruits, vegetables and flowers

| Year | Crops | No. of | Area | Avg. | L | ocal chec | k | Impro | ved Vari | ety | Inci | rease | Net | Effective |
|---------------------|-------------------|--------|------|--------|--------|----------------|----------------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|
| wise | | farmer | (ha) | yield | Av. | C | R | Variety | C | R | C | R | loss | gain |
| | | | | (q/ha) | Yield | (Rs.) | (Rs.) | | (Rs.) |
| I (2011- | Turmeric | 10 | 1 | 249.48 | 208 | 140160 | 72040 | Sugandham | 115160 | 84372 | - 25,000 | 12,332 | | 37,332 |
| 12) | Turmeric | 3 | 0.3 | 242.25 | 208 | 140160 | 72040 | NAUT-1 | 115160 | 77865 | 25,000 | 5,825 | | 30,825 |
| | Elephant foot yam | 10 | 1 | 849.7 | 546.8 | 74960 | 198440 | Gajendra | 111375 | 255475 | 36,415 | 57,035 | | 20,620 |
| | Chiku | 500 | 200 | 156.3 | 123.48 | 11930 | 111550 | Available | 17840 | 138460 | 5,910 | 26,910 | | 21,000 |
| II (2012- 13) | Turmeric | 75 | 15 | 253.5 | 169.1 | 59652 | 117015 | Sugandham | 74500 | 193925 | 14,848 | 76,910 | | 62,062 |
| | Elephant foot | 8 | 1 | 424.54 | 396.75 | 102600 | 135450 | Gajendra | 89700 | 165029 | - 12,900 | 29,579 | | 42,479 |
| | Mango(| 50 | 25 | 105.2 | 80.92 | 21690 | 54690 | Cultar | 28544 | 106816 | 6,854 | 52,126 | | 45,272 |

| | Fruit setting) | | | | | | | | | | | | |
|----------------------|-------------------------------------|------|------|---------------------------------|----------------------------------|--------|--------|-------------------------------|-------|--------|--------|---------|--------|
| | Mango(Fruit setting) | 300 | 120 | 100.142 | 82.716 | 28690 | 95384 | Available | 31870 | 118343 | 3,180 | 22,959 | 19,779 |
| | Brinjal (IPM) | 25 | 2.5 | 213.97 (9.48 % damage) | 182.19 (22.38 % damage) | 22840 | 68255 | Available | 20820 | 86165 | -2,020 | 17,910 | 19,930 |
| | Chilli (Mulching) | 16 | 3.2 | 185.45 | 146.93 | 78435 | 141960 | Available | 88450 | 189725 | 10,015 | 47,765 | 37,750 |
| | Okra | 500 | 100 | 107.3 | 76.3 | 83308 | 93359 | Shakti, Shahiba, Kajal, | 70179 | 131228 | 13,129 | 37,869 | 50,998 |
| | Chiku (Use bio fertilizer) | 2000 | 400 | 183 | 160 | 12739 | 240000 | Available | 14739 | 274500 | 2,000 | 34,500 | 32,500 |
| | Fruit fly control in mango | 8000 | 4000 | 106.23 (% damage 3.99) | 78.98 (% damage 30.31) | - | 197450 | Available | 350 | 265575 | - | 68,125 | - |
| | Fruit fly control in vine vegetable | 800 | 250 | 11270 (3.45 % damage) | 9520 (29.2% damage) | | 95200 | Available | 520 | 112700 | - | 17,500 | - |
| | Yellow sticky trap in okra | 600 | 250 | 141.2 | 123.4 | 8500 | 114900 | Available | 5500 | 135700 | -3,000 | 20,800 | 23,800 |
| III (2013- 14) | Turmeric | 24 | 2.7 | 193.5 | 161.3 | 115680 | 237950 | NAUT-1 | 79800 | 251550 | 35,880 | 13,600 | 49,480 |
| | Elephant foot | 33 | 3.5 | 633.6 | 675.9 | 24510 | 191492 | Gajendra | 98790 | 316800 | 74,280 | 125,308 | 51,028 |
| | Brinjal | 20 | 5 | 228.42 (8.92 % | 193.62 (19.92 | 25680 | 98840 | Hybrid | 39430 | 159894 | 13,750 | 61,054 | 47,304 |

| | | | | damage) | % | | | | | | | | | |
|-----------------------|-------------------|-----|------|---------|---------|--------|--------|--------------------|--------|--------|-------------|---------|---|---------|
| | | | | , | damage) | | | | | | | | | |
| | Sapota | 250 | 100 | 195 | 158 | 13400 | 190500 | Kallipatti | 15980 | 253500 | 2,580 | 63,000 | | 60,420 |
| | Mango | 47 | 18.8 | 110.6 | 89.4 | 28140 | 104280 | Kesar | 30980 | 138250 | 2,840 | 33,970 | | 31,130 |
| IV (2014- 15) | Elephant foot | 8 | 1 | 564.6 | 424.6 | 139340 | 424600 | Gajendra | 112480 | 564600 | - 26,860 | 140,000 | | 166,860 |
| | Sapota | 200 | 80 | 148.4 | 129.6 | 17490 | 194400 | Kallipatti | 19830 | 222600 | 2,340 | 28,200 | | 25,860 |
| | Okra | 10 | 2 | 111 | 98.4 | 32300 | 147600 | Available | 27900 | 166500 | -4,400 | 18,900 | | 23,300 |
| | Mango | 150 | 30 | 98.4 | 84.8 | 31400 | 169600 | Kesar | 35200 | 196800 | 3,800 | 27,200 | | 23,400 |
| | Okra | 8 | 1 | 127.8 | 87 | 32300 | 130500 | Hybrid | 27300 | 191700 | -5,000 | 61,200 | | 66,200 |
| V (2015- 16) | Elephant fruit | 10 | 2 | 582 | 413 | 94670 | 247800 | Gajendra | 103460 | 349200 | 8,790 | 101,400 | | 92,610 |
| VI (2016-17) | - | - | - | - | | - | - | - | - | | - | - | - | - |
| VII (2017- 18) | Little guard | 40 | 1 | 19 | 13 | 50000 | 45500 | GNT-1 | 45000 | 66500 | -5,000 | 21,000 | | 26,000 |
| | Pointed guard | 4 | 0.1 | 18 | 16 | 50000 | 56000 | GNPG-1 | 45000 | 63000 | -5,000 | 7,000 | | 12,000 |
| | Cluster beans | 17 | 0.5 | 39 | 38 | 32000 | 114000 | Guajarat Guar 1 | 33000 | 117000 | 1,000 | 3,000 | | 2,000 |
| | Cluster beans | 17 | 0.5 | 36 | 35 | 31000 | 105000 | Pusa Navbahar | 32000 | 109800 | 1,000 | 4,800 | | 3,800 |
| | Brinjal | 20 | 5 | 204.7 | 165.9 | 49492 | 165900 | Available | 53480 | 204700 | 3,988 | 38,800 | | 34,812 |
| | Okra | 70 | 15 | 70 | 60 | 40000 | 120000 | GO-5 | 50000 | 140000 | 10,000 | 20,000 | | 10,000 |
| VIII (2018- 19) | Brinjal | 25 | 10 | 200 | 185 | 50000 | 165000 | Gulabi | 60500 | 220000 | 10500 | 55000 | | 44500 |
| | Mango | 226 | 90 | 95 | 82 | 31400 | 169600 | Kesar | 35200 | 196800 | 3800 | 27200 | | 23400 |

C= Cost (Rs./ha); R= Return (Rs./ha); The results of front-line demonstrations (q/ha) are indicated year-wise.

D) Front-line demonstration on Livestock and Fisheries

Livestock:

| Year wise | Animal/ | Breed | No. of | Total no of | Avg. | L | ocal chec | ek | Improved tech | | Inc | crease | Net loss | Effct. Gain |
|-------------------|---------|-----------|---------|-------------------|-----------------|--------------|---------------|---------------|------------------|----------------|-------------|----------|-------------|----------------|
| i ear wise | bird | Dreeu | Raisers | animals/ birds | Prodn. | Av. Prod. | С | R | С | R | С | R | (Rs.) | (Rs) |
| I (2011-12) | | | | | | | | | | | | | | |
| II (2012-13) | Cow | crossbred | 345 | 345 | 12.0 lit/day | | 140 Rs/day | 162 Rs.day | 145Rs/day | 210 Rs./day | 5 Rs/day | 48Rs/day | - | 43 |
| III (2013-14) | Cow | crossbred | 20 | 20 | 8.2 | 7.1 | 113 | 195 | 120 | 217 | 7 | 22 | - | 15 |
| IV (2014-15) | Buffalo | Surti | 15 | 15 | 6.6 | 4.7 | 93.75 | 118 | 98.25 | 165 | 4.5 | 47 | Nil | 42.5 |
| V (2015-16) | Buffalo | Surti | 20 | 20 | 8.8 | 6.3 | 125 | 157.50 | 131 | 220.00 | 6 | 62.5 | Nil | 56.5 |
| VI (2016-17) | Nil | Nil | | | | | | | | | | | | |
| VII (2017-18) | Nil | Nil | | | | | | | | | | | | |
| VIII (2018-19) | Nil | Nil | | | | | | | | | | | | |

Fisheries:

| 7 | Voor | | | No. of | A maa | Avg. | Lo | cal chec | k | Demon | stration | Incr | ease | Net | Effct. |
|-----|--------------|-------|------------|---------|--------------|-----------------|--------------|----------|---|-------|----------|------|------|---------------|--------------|
| | Year wise | Crops | Technology | farmers | Area (ha) | prod. (q)/ha | Av. Prod. | C | R | C | R | C | R | loss (Rs.) | Gain (Rs) |
| (20 | I 011-12) | | | | | | Not | conducte | d | | | | | | |

| II (2012-13) | Inland fisheries | Carp farming management | 200 | 10 | 14.56 | 12.30 | 82000 | 135000 | 86000 | 160000 | 4000 | 25000 | - | 21000 |
|------------------|---------------------|---|-----|-------|---------------------------------------|---------------------------------------|--------|--------|--------|--------|--------|--------|---|--------|
| III (2013-14) | Inland fisheries | Carp farming management | 72 | 08 | 24.40 | 18.10 | 105000 | 199100 | 165410 | 268400 | 60410 | 69300 | - | 8890 |
| | Inland fisheries | Carp seed rearing (Fry to fingerlings) | 06 | 1.5 | 45000 numbers (26% survival) | 25000 Numbers (12% survival) | 35000 | 156000 | 47000 | 315000 | 12000 | 69300 | - | 57300 |
| IV (2014-15) | Inland fisheries | Carp seed stocking and species ratio | 90 | 8.25 | 27.76 | 17.50 | 170000 | 192500 | 185000 | 273120 | 0 | | | |
| | Inland fisheries | Fish nutrition and feeding management | 129 | 11.25 | 28 | 17.50 | 170000 | 192500 | 185000 | 336000 | 15000 | 80620 | - | 65620 |
| | Inland fisheries | Carp seed rearing (Fry to fingerlings) | 15 | 1 | 21% survival | 18% survival | 18000 | 110000 | 15000 | 176000 | 15000 | 143500 | - | 128500 |
| V (2015-16) | Inland fisheries | Carp seed stocking and species ratio | 90 | 7.35 | 25.96 | 16.44 | 80896 | 197280 | 114656 | 311510 | 13000 | 66000 | - | 53000 |
| | Inland fisheries | Carp seed rearing | 4 | 0.75 | 42666 yearlings | 12000 yearlings | 47000 | 120000 | 116000 | 34000 | 33760 | 114230 | - | 80470 |
| | Inland fisheries | Composite fish culture | 22 | 2.25 | 26 + 4 prawns | 17 + 1.5 prawns | 11000 | 264000 | 136400 | 472000 | 69000 | 220000 | - | 151000 |
| | Inland fisheries | Carp fish nutrition and feeding management | 84 | 9.25 | 24.60 | 16.44 | 80896 | 197280 | 108600 | 295200 | 125400 | 208000 | - | 82600 |
| VI (2016-17) | Inland fisheries | Carp seed stocking and species ratio | 104 | 12 | 26.83 | 17.22 | 83800 | 189440 | 108000 | 335375 | 27704 | 97920 | - | 70216 |

| | Inland fisheries | Carp seed rearing | 5 | 1 | 32200 yearlings | 18400 yearlings | 62000 | 165600 | 80000 | 289800 | 24200 | 145935 | - | 121735 |
|-------------------|---------------------|---|-----|-------|-------------------------------|-------------------------------|--------|--------|--------|--------|-------|--------|---|--------|
| | Inland fisheries | Composite fish culture | 10 | 1 | 24.30 + 4.30 prawns | 16 + 2 prawns | 112000 | 270000 | 137000 | 448750 | 18000 | 124200 | - | 106200 |
| | Inland fisheries | Carp fish nutrition and feeding management | 116 | 13 | 27.40 | 17.22 | 83800 | 189440 | 109600 | 342500 | 25000 | 178750 | - | 153750 |
| VII (2017-18) | Inland fisheries | Carp seed stocking density and species ratio | 92 | 18.75 | 21.95 | 16.80 | 86800 | 184800 | 102000 | 263400 | 25800 | 153060 | - | 127260 |
| | Inland fisheries | Stunted carp yearling production | 5 | 1.0 | 32000 numbers | 18600 numbers | 62000 | 148800 | 78000 | 256000 | 15200 | 78600 | - | 63400 |
| | Inland fisheries | Carp fish nutrition and feeding management | 118 | 22.45 | 24.70 | 17.20 | 106000 | 189200 | 122000 | 296400 | 16000 | 107200 | - | 91200 |
| | Inland fisheries | Integrated fish farming | 10 | 1.5 | 28.32 +400 eggs | 16.80 + 110 eggs | 83800 | 189420 | 109600 | 339840 | 16000 | 107200 | - | 91200 |
| VIII (2018-19) | Inland fisheries | Carp seed stocking density and species ratio | 88 | 14.5 | 26.10 | 13.20 | 84300 | 158400 | 104000 | 313200 | 25800 | 150420 | - | 124620 |
| | | Stunted carp yearling production | 6 | 1.0 | 41000 numbers yearlings | 18300 numbers yearlings | 61000 | 144000 | 80000 | 358000 | 19700 | 154800 | - | 135100 |
| | | Carp fish nutrition and feeding | 118 | 22.50 | 22.10 | 14.30 | 10700 | 171600 | 114000 | 265200 | 19000 | 214000 | - | 195000 |

| management | | | | | | | | | | | | |
|--------------------------------------|----|---|-------|-------|--------|--------|--------|--------|------|-------|---|-------|
| Cage farming pangasius fish | 10 | cages of size 5m x 4m x 4m | 30.00 | 24.00 | 182000 | 264000 | 180000 | 330000 | 7000 | 93600 | - | 86600 |

C= Cost (Rs./ha); R= Return (Rs./ha); The results of front-line demonstrations (q/ha) are indicated year-wise.

E) Front-line demonstration on other enterprises

| Year wise | Enterprise | Technology demonstrated | No. of farmer | No. of | Ma paran | - | | mics of stration | Incr | ease | Net loss (Rs.) | Effective gain (Rs.) |
|-------------------|------------|-------------------------|---------------|-----------|-------------|-------|------------|---------------------|------------|------------|-------------------|----------------------|
| | | | 14111101 | units | Demo. | Local | C (Rs.) | R (Rs.) | C (Rs.) | R (Rs.) | (1100) | (1457) |
| I | 1 | | | | | | | · / | · / | · / | | |
| (2011-12) | | - | - | - | - | - | - | - | 1 | - | - | - |
| II (2012-13) | | - | - | - | - | - | - | - | - | - | - | - |
| III (2013-14) | | - | - | - | - | - | - | - | - | - | - | - |
| IV (2014-15) | | - | - | - | - | - | - | - | - | - | - | - |
| V (2015-16) | | - | - | - | - | - | - | - | - | - | - | - |
| VI (2016-17) | | - | - | - | - | - | - | - | - | - | - | - |
| VII (2017-18) | | - | - | - | - | - | - | - | - | - | - | - |
| VIII (2018-19) | | - | - | - | - | - | - | - | - | - | - | - |

C= Cost (Rs./ha); R= Return (Rs./ha); The results of front-line demonstrations (q/ha) are indicated year-wise.

F) Front-line demonstration on women empowerment (Home Science + Kitchen garden)

| Year wise | Category | Name of | No. of | Name of | Resi | ults (kg) | Economics of | demonstration |
|-----------|-----------|------------------------|----------------|--------------|-------|-------------|---------------------|---------------|
| | | technology | demonstrations | observations | Demo. | Local check | C (Rs.) | R (Rs.) |
| I | Kitchen | To provide nutritional | 50 | Yield | 72.8 | 38 | 2017 | 4157 |
| (2011-12) | garden | diet | | | | | | |
| II | Kitchen | To provide nutritional | 250 unit | Yield | 68.4 | 40.4 | 2140 | 4257 |
| (2012-13) | garden | diet | | | | | | |
| III | Kitchen | To provide nutritional | 100 unit | Yield | 73.8 | 39.8 | 2267 | 4350 |
| (2013-14) | garden | diet | | | | | | |
| IV | Kitchen | To provide nutritional | 100 unit | Yield | 75.4 | 42.9 | 2289 | 4385 |
| (2014-15) | garden | diet | | | | | | |
| V | Kitchen | To improve nutritional | 200 unit | Yield | 80.7 | 44.5 | 2270 | 4590 |
| (2015-16) | garden | status of family | | | | | | |
| | (Veg.kit) | | | | | | | |
| VI | Vegetable | - To introduce them | 200 unit | Yield | 78.9 | 43.1 | 2183 | 4478 |
| (2016-17) | kit | scientific model for | | | | | | |
| | | maintaining Kitchen | | | | | | |
| | | gardening in Rabi and | | | | | | |
| | | Summer | | | | | | |
| VII | Vegetable | To introduce them | 100 | Yield | 81.2 | 44.6 | 2340 | 4567 |
| (2017-18) | Kit | scientific model for | | | | | | |
| | | maintaining kitchen | | | | | | |
| | | gardening in rabi and | | | | | | |
| | | summer | | | | | | |
| | Plastic | To reduce storage loss | 30 | Yield | 80.6 | 43.7 | 2289 | 4479 |
| | bags | | | | | | | 17.00 |
| VIII | Kitchen | To improve nutritional | 500 unit | Yield | 81.7 | 44.6 | 2280 | 4560 |
| (2018-19) | garden | status of family | | | | | | |
| | (Veg.kit) | | | | | | | |

C= Cost (Rs./ha); R= Return (Rs./ha); The results of front-line demonstrations (q/ha) are indicated year-wise.

G) Front-line demonstrations on Farm Implements and Machineries

| Name of the implement | crop | No. of farmers | Area (ha) | Performance parameters / Indicators | - | nmeter in relation y demonstrated Local check | % change in the parameter | Remarks |
|-----------------------|-------|----------------|--------------|---|--|---|---------------------------|---------|
| 2011-12 | | • | • | | NIL | | | |
| 2012-13 | | | | | NIL | | | |
| 2013-14 | | | | | | | | |
| 2014-15 | | | | | | | | |
| Naveen sickle | Paddy | 50 | - | Field efficiency & reduce labour | 0.062 harvest by local sickle (ha/h) | 0.080 harvest by naveen sickle (ha/h) | 29.03 | |
| 2015-16 | | • | • | | NIL | | | |
| 2016-17 | | | | | NIL | | | |
| 2017-18 | | | | | NIL | | | |
| | † | | | | | | | |

25. DETAILS OF TRAINING PROGRAMMES CONDUCTED

I. Training programmes conducted for farmers/farm women (last 8 years)

| S. | Discipline | | I | | | II | | | III | | | IV | | | V | |
|----|--------------------|----|---------|------|----|---------|------|----|---------|------|----|--------|-------------|----|---------|------|
| N | | | (2011-1 | 2) | | (2012-1 | .3) | | (2013-1 | 4) | | (2014- | 15) | | (2015-1 | .6) |
| | | T | С | P | T | C | P | T | С | P | T | C | P | T | C | P |
| 1. | Crop Production | 12 | 12 | 652 | 12 | 54 | 3368 | 12 | 27 | 1336 | 12 | 30 | 1452 | 13 | 27 | 1579 |
| 2. | Horticulture | 20 | 26 | 1006 | 12 | 35 | 1721 | 12 | 23 | 695 | 10 | 26 | 940 | 14 | 22 | 981 |
| 3. | Livestock | 25 | 52 | 2037 | 14 | 28 | 1336 | 14 | 20 | 1129 | 11 | 24 | 1082 | 9 | 31 | 921 |

| 4. | Fisheries | 10 | 13 | 403 | - | 26 | 700 | 7 | 18 | 515 | 12 | 13 | 402 | 11 | 21 | 820 |
|----|------------------|-----|-----|------|----|-----|------|----|-----|------|----|-----|------|----|-----|------|
| 5. | Home Science | 15 | 20 | 594 | 12 | 14 | 665 | 12 | 17 | 830 | 16 | 19 | 653 | 18 | 14 | 775 |
| 6 | Plant protection | 10 | 19 | 667 | 12 | 4 | 95 | 10 | - | - | 12 | 13 | 504 | 12 | 14 | 613 |
| 7. | Extension | 25 | 34 | 1108 | 8 | 14 | 842 | 8 | 8 | 221 | 8 | 12 | 710 | 8 | 12 | 394 |
| | Education | | | | | | | | | | | | | | | |
| 8. | Others | | | | | | | | | | | | | | | |
| | Total | 117 | 176 | 6467 | 70 | 175 | 8727 | 75 | 113 | 4726 | 81 | 137 | 5743 | 85 | 141 | 6083 |

I. Training programmes conducted for farmers/farm women (last 8 years) conti.

| S. N | Discipline | | VI | | | VII | | | VII | I | | TOTAI | |
|------|---------------------|-----|---------|-------------|----|--------|------|----|--------|------|-----|-------|-------|
| | | | (2016-1 | 17) | | (2017- | 18) | | (2018- | 19) | | | |
| | | T | С | P | T | С | P | T | С | P | T | C | P |
| 1. | Crop Production | 21 | 25 | 1404 | 13 | 32 | 1657 | 10 | 30 | 1569 | 105 | 237 | 13017 |
| 2. | Horticulture | 15 | 10 | 495 | 8 | 14 | 615 | 5 | 9 | 718 | 96 | 165 | 7171 |
| 3. | Livestock | 13 | 14 | 523 | 7 | 8 | 362 | - | - | - | 93 | 177 | 7390 |
| 4. | Fisheries | 11 | 9 | 309 | 6 | 7 | 369 | 4 | 13 | 413 | 61 | 120 | 3931 |
| 5. | Home Science | 20 | 15 | 600 | 8 | 14 | 574 | 4 | 11 | 444 | 105 | 124 | 5135 |
| 6 | Plant protection | 11 | 8 | 381 | 2 | 8 | 772 | 4 | 10 | 386 | 73 | 76 | 3418 |
| 7. | Extension Education | 10 | 7 | 262 | 4 | 6 | 297 | 2 | 12 | 568 | 73 | 105 | 4402 |
| 8. | Others | | | | | | | | | | | | |
| | Total | 101 | 88 | 3974 | 48 | 89 | 4646 | 29 | 85 | 4098 | 606 | 1004 | 44464 |

T=Target; C=Conducted; P=Participants

II. Training programme conducted vs targets fixed (discipline-wise) for extension functionaries (last 8 years)

| S. | Discipline | | I | | | II | | | III | [| | I | V | | V | | | V | I | | VI | Ī | | VII | I | | TOT | AL |
|----|--------------------|----|------|---------------|----|------|------|----|------|------|---|------|---------------|----|------|------|---|------|---------------|----|------|------|----|------|------|----|-----|------|
| N | | (2 | 2011 | 1-12) | (2 | 2012 | -13) | (2 | 2013 | -14) | (| 2014 | 4-15) | (2 | 2015 | ·16) | (| 2016 | 5-17) | (2 | 2017 | -18) | (2 | 2018 | -19) | | | |
| | | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P |
| 1. | Crop Production | 1 | 1 | 29 | 1 | 1 | 67 | 1 | 1 | 21 | 1 | 1 | 16 | - | 1 | - | 1 | 1 | 14 | 1 | 1 | 26 | - | - | 1 | 6 | 7 | 220 |
| 2. | Horticulture | 1 | 1 | 34 | 1 | 1 | 34 | 1 | 1 | 35 | 1 | 1 | 45 | - | - | - | 1 | 1 | 33 | | 1 | 42 | - | - | - | 5 | 6 | 223 |
| 3. | Livestock | - | 1 | 84 | - | 1 | 37 | - | 1 | 31 | - | - | - | | 1 | 25 | - | - | - | - | - | - | - | - | - | 0 | 4 | 177 |
| 4. | Fisheries | - | - | - | - | 1 | 57 | - | ı | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 1 | 57 |
| 5. | Home Science | - | - | - | - | 1 | 54 | 1 | 1 | 32 | 1 | 2 | 262 | | 1 | 64 | 1 | 1 | 28 | | 1 | 35 | - | - | - | 3 | 7 | 475 |
| 6 | Extension edu. | 1 | 1 | 19 | - | 1 | 24 | - | 1 | 24 | | 3 | 89 | | 1 | 23 | 1 | 1 | 89 | - | - | - | - | - | - | 2 | 8 | 268 |
| 7. | Plant protection | 1 | 1 | 73 | - | 2 | 161 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 70 | 1 | 1 | 28 | 2 | 5 | 332 |
| | Total | 4 | 5 | 239 | 2 | 8 | 434 | 3 | 5 | 143 | 3 | 7 | 412 | 0 | 4 | 159 | 4 | 4 | 164 | 1 | 4 | 173 | 1 | 1 | 28 | 18 | 38 | 1752 |

T=Target; C=Conducted; P=Participants

III. Training programmes conducted for rural youths (last 8 years)

| S. | Discipline | | I | | | II | | | II | [| | I | V | | V | | | V | Ί | | VI | I | | VI | ΙΙ | , | TOT | AL |
|----|--------------|----|------|--------------|----|------|------|----|------|------|---|------|---------------|----|-------|-------------|---|------|---------------|----|------|------|---|------|---------------|---|-----|-----|
| N | | (2 | 2011 | -12) | (2 | 2012 | -13) | (2 | 2013 | -14) | (| 2014 | 4-15) | (2 | 2015- | 16) | (| 2010 | 6-17) | (2 | 2017 | -18) | (| 2018 | 3-19) | | | |
| | | T | C | P | T | C | P | T | C | P | T | C | P | T | С | P | T | C | P | T | C | P | T | C | P | T | C | P |
| 1. | Crop | 1 | 1 | 31 | - | 2 | 124 | - | 1 | 50 | - | 2 | 68 | 1 | 3 | 126 | 1 | 2 | 127 | 1 | 1 | 34 | 1 | 1 | 38 | 5 | 13 | 598 |
| | Production | | | | | | | | | | | | | | | | | | | | | | | | |) | | |
| 2. | Horticulture | 1 | 1 | 30 | - | 1 | 33 | _ | 1 | 25 | 2 | 1 | 40 | 3 | 3 | 139 | 1 | 2 | 123 | - | 1 | 50 | - | - | - | 7 | 10 | 440 |

| 3. | Livestock | 1 | 2 | 102 | - | - | - | - | 1 | 14 | - | 1 | 19 | 3 | 2 | 70 | 1 | 1 | 130 | - | 1 | 45 | - | - | - | 5 | 8 | 380 |
|----|------------------------|---|---|-----|---|---|-----|---|---|-----|---|---|-----|----|----|-----|---|---|-----|---|---|-----|---|---|-----|----|----|------|
| 4. | Fisheries | - | - | - | 1 | 2 | 54 | 1 | 1 | 12 | 1 | - | - | 2 | 1 | 72 | 1 | 1 | 138 | - | - | - | 1 | 2 | 101 | 4 | 7 | 377 |
| 5. | Home Science | 1 | 1 | 22 | - | 2 | 59 | - | 1 | 49 | - | 2 | 50 | 2 | 1 | 51 | - | - | - | 1 | 1 | 30 | 1 | 1 | 24 | 5 | 9 | 285 |
| 6 | Extension Education | 1 | 1 | 24 | 1 | 1 | - | - | 1 | 1 | 1 | 2 | 37 | 2 | 2 | 142 | - | - | - | 1 | 1 | 34 | - | 1 | 1 | 4 | 6 | 237 |
| 7. | Plant protection | 1 | 3 | 82 | ı | 1 | 24 | 1 | 1 | 1 | - | - | - | 2 | 3 | 106 | 1 | 2 | 93 | 1 | 1 | 40 | - | 1 | 76 | 4 | 11 | 421 |
| 8. | Others | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Total | 6 | 9 | 291 | 0 | 8 | 294 | 0 | 5 | 150 | 3 | 8 | 214 | 15 | 15 | 706 | 5 | 8 | 611 | 2 | 6 | 233 | 3 | 5 | 239 | 34 | 64 | 2738 |

T=Target; C=Conducted; P=Participants

IV. Skill development training programmes conducted for entrepreneurship development (last 8 years)

| S. | Discipline | | I | | | II | | | III | - | | I | 7 | | V | | | V] | [| | VII | | | VII | Ι | - | TOTA | L |
|----|--------------|----|------|------|-----|------|-------------|----|-------|------|---|------|---------------|-----|------|-------------|----|------|--------------|----|------|-------------|----|------|------|---|------|-----|
| N | | (2 | 2011 | -12) | (20 | 012- | 13) | (2 | 2013- | ·14) | (| 2014 | 1-15) | (20 | 015- | 16) | (2 | 2016 | -17) | (2 | 017- | 18) | (2 | 2018 | -19) | | | |
| | | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P | T | C | P |
| 1. | Crop | - | - | - | - | - | - | - | 1 | 15 | - | - | - | 1 | 1 | 50 | - | - | - | - | - | - | - | - | - | 1 | 2 | 65 |
| | Production | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Horticulture | 1 | 1 | 31 | 1 | 1 | 15 | - | 1 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 20 | 3 | 4 | 91 |
| 3. | Livestock | - | - | - | - | 1 | 15 | - | 1 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 2 | 29 |
| 4. | Fisheries | - | 1 | - | - | - | - | - | 1 | 12 | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | 20 | 1 | 2 | 32 |
| 5. | Home | 1 | 2 | 48 | 2 | 2 | 21 | | 2 | 49 | | 6 | 147 | - | - | - | 1 | 1 | 28 | 1 | 2 | 35 | 1 | 2 | 45 | 6 | 17 | 373 |
| | Science | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 6 | Extension Education | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | 0 |
|----|------------------------|---|---|-----|---|---|----|---|---|-----|---|---|-----|---|---|----|---|---|----|---|---|----|---|---|----|----|----|-----|
| 7. | Plant protection | | 2 | 45 | - | - | - | - | ı | 1 | 1 | - | - | - | 1 | ı | 1 | 1 | - | - | - | 1 | - | - | 1 | 0 | 2 | 45 |
| | Total | 2 | 5 | 124 | 3 | 4 | 51 | 0 | 6 | 115 | 0 | 6 | 147 | 1 | 1 | 50 | 1 | 1 | 28 | 1 | 2 | 35 | 3 | 4 | 85 | 11 | 29 | 635 |

T=Target; C=Conducted; P=Participants

V. Impact of major Training programmes conducted (last 8 years)

| Name of the specific | No. of | % of | Change in | income (Rs.) |
|-----------------------------|--|---|--|---|
| transferred | participants | adoption | Before (Rs./Unit) | After (Rs./Unit) |
| Integrated Nutrient | 1850 | 37 | 71168 (ha) | 828279(ha) |
| management | | | | |
| Use of bioifertilizers in | 980 | 28 | 200879 (ha) | 278690 (ha) |
| Sapota | | | | |
| Use of micronutrient in | 756 | 24 | 78693 (ha) | 88724 (ha) |
| vegetables fruits crops | | | | |
| Use of bioifertilizers in | 1760 | 35 | 120480 (ha) | 150870 (ha) |
| Mango | | | | |
| Off seasonal cultivation of | 1459 | 49 | 98790 (ha) | 144590 (ha) |
| okara | | | | |
| Soil testing and Soil | 1598 | 29 | 39780(ha) | 58790 (ha) |
| Health Management | | | | |
| Vermicompost production | 890 | 21 | 00 | 28970 |
| technology | | | | |
| Nutrient management | 1259 | 28 | 183413(ha) | 285600(ha) |
| Inland fish farming | | | , , | |
| Fish seed stocking density | 1471 | 24 | 193073(ha) | 306668(ha) |
| | technology / skill transferred Integrated Nutrient management Use of bioifertilizers in Sapota Use of micronutrient in vegetables fruits crops Use of bioifertilizers in Mango Off seasonal cultivation of okara Soil testing and Soil Health Management Vermicompost production technology Nutrient management Inland fish farming | technology / skill transferred Integrated Nutrient 1850 management Use of bioifertilizers in Sapota Use of micronutrient in vegetables fruits crops Use of bioifertilizers in 1760 Mango Off seasonal cultivation of okara Soil testing and Soil 1598 Health Management Vermicompost production technology Nutrient management 1259 Inland fish farming | technology / skill transferred Integrated Nutrient management Use of bioifertilizers in Sapota Use of micronutrient in vegetables fruits crops Use of bioifertilizers in Mango Off seasonal cultivation of okara Soil testing and Soil Health Management Vermicompost production technology Nutrient management Integrated Nutrient adoption 1850 37 37 28 29 1760 35 1760 35 1760 35 1760 35 1760 35 29 1760 35 1760 | technology / skill transferred Integrated Nutrient management Use of bioifertilizers in Sapota Use of micronutrient in vegetables fruits crops Use of bioifertilizers in Mango Off seasonal cultivation of okara Soil testing and Soil Health Management Vermicompost production technology Nutrient management Inland fish farming No. of participants Refore (Rs./Unit) Before (Rs./Unit) Response (Rs./Unit) 17168 (ha) 28 200879 (ha) 29 200879 (ha) 200879 (ha) 200879 (ha) 200879 (ha) 200879 (ha) 21 20480 (ha) 22 39780(ha) 23 39780(ha) 24 39780(ha) 25 39780(ha) |

26. Critical input supplied during the period under review:

a) Agri-inputs

| Inputs | I | II | III | IV | V | VI | VII | VIII | Total |
|-------------------------------------|----------------|--------|--------|---------|--------|---------|--------|---------|-----------------|
| inputs | (2011- | (2012- | (2013- | (2014- | (2015- | (2016- | (2017- | (2018- | Total |
| | 12) | 13) | 14) | 15) | 16) | 17) | 18) | 19) | |
| i) Seed - crop | | | | | / | , | | / | |
| Paddy | | Ì | | | | | | | |
| NAUR-1 | 65.75 | 22.50 | 10.0 | 2.25 | 30.0 | 20.25 | 26.00 | 28 | 204.75 |
| GNR-3 | 4.80 | 18.50 | 6.30 | 52.50 | 16.0 | 6.3 | 18.60 | 22.5 | 145.5 |
| GNR-2 | 8.85 | 12.50 | 2.00 | 3.00 | - | 1.00 | 1.25 | - | 28.6 |
| GNR-4 | - | - | 0.24 | 1.25 | 1.0 | 1.00 | - | 0.5 | 3.99 |
| GNR-5 | - | - | | - | - | - | 2.25 | 3.5 | 5.75 |
| GNR-6 | - | - | | - | - | - | | 1.0 | 1 |
| Hybrid Paddy (SRI) | | 0.80 | 0.52 | 0.25 | 0.5 | 0.4 | 0.30 | 1.0 | 3.77 |
| Pigeon pea Vaishali | 1.50 | 17.00 | 8.10 | 7.80 | 5.7 | 7.80 | 8.1 | 3.75 | 59.75 |
| Green gram (Co4) | - | 5.00 | 2.25 | 4.5 | 1.7 | 5.0 | 2.5 | 46.25 | 67.2 |
| Green gram (Meha) | 22.00 | 27.0 | 25.0 | 15.00 | 6.25 | 20.00 | 13.00 | - | 128.25 |
| Gram(GG- 2/3) | - | 3.50 | 5.6 | 4.9 | 9.10 | 15.5 | 2.90 | - | 41.5 |
| Indian bean | - | - | 4.20 | 1.40 | 3.5 | 3.5 | 2.00 | 5.9 | 20.5 |
| Castor | - | 4.50 | - | - | | - | - | - | 4.5 |
| Sugar cane | - | - | - | - | | - | - | - | 0 |
| Sweetcorn | 6.00 | 10.00 | 5.0 | 5.00 | 2.5 | 1.1 | | | 29.6 |
| Finger millet | 0.20 | 0.50 | - | - | - | - | - | - | 0.7 |
| Sorghum (GJ-38/42) | - | 1.80 | 2.4 | 0.2 | - | - | - | - | 4.4 |
| Ground nut | - | 10.00 | | 6.0 | - | - | - | - | 16 |
| ii) Biofertilizer s | 100 | 200 | 250 | 250 | 300 | 300 | 300 | 300 | 2000 |
| iii) Novel liquid fertilizers | - | 50 | 100 | 100 | 150 | 150 | 175 | 175 | 900 |
| iii) Any other | - | - | - | | - | - | - | | - |
| Paddy (Fungicides | 5 kg +5 lit | 5 kg | 5 kg | 5 kg +5 | 5 kg | 5 kg +5 | 5 kg | 5 kg +5 | 40 kg + 40 L |

| and | | +5 lit | +5 lit | lit | +5 lit | lit | +5 lit | lit | |
|---|------|--------|--------|-------------------|-------------------|-------------------|----------------------|-------------------|----------------|
| pesticides) Brinjal | 100 | 100 | 100 | | | | | | 300 |
| (Shoot and | no.s | no.s | no.s | | | | | | no.s |
| fruit borer phromonetr | | | | | | | | | |
| ap) | | | | | | | | | |
| Mango | 1100 | 1100 | 1100 | 2000 | 2000 | 2000 | 2000 | 2000 | 13000 |
| (Methyl eugenol | no.s | no.s | no.s | no.s | no.s | no.s | no.s | no.s | no.s |
| traps) | | | | | | | | | |
| Sugarcane Set treatment Fungicide | 5 kg | 5 kg | 5 kg | | | | | | 15 kg |
| pigeon pea (Biopesticid es +Neem oil | - | - | - | 10 kg + 10 lit | 10 kg + 10 lit | 10 kg + 10 lit | 10 kg + 10 lit | 10 kg + 10 lit | 50 kg +50 L |

b) Horti-inputs

| Inputs | I | II | III | IV | V | VI | VII | VIII | Total |
|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | (2011- | (2012- | (2013- | (2014- | (2015- | (2016- | (2017- | (2018- | |
| | 12) | 13) | 14) | 15) | 16) | 17) | 18) | 19) | |
| i) Seed | 500 | 0 | 0 | 0 | 0 | 40.1 | 68 | 5 | 613.1 |
| ii) Saplings | 100 | 250 | 500 | 20 | 100 | 6650 | 12340 | 7700 | 27660 |
| iii) Root / tubers | 9500 | 8000 | 2500 | 5000 | 0 | 500 | 25000 | 0 | 50500 |
| iv) Spraying of Novel organic fertilizers in vegetates | 40 | 100 | 350 | 40 | 100 | 150 | 200 | 200 | 1180 |
| v) Use of bio fertilizers in horticulture crop | 0 | 900 | 1200 | 0 | 500 | 0 | 894 | 1080 | 4574 |
| vi) Kitchen garden seed kits | 150 | 200 | 213 | 84 | 500 | 500 | 500 | 500 | 2647 |

c) Livestock/ Poultry/ Fishery -inputs

| Inputs | I (2011- 12) | II (2012- 13) | III (2013- 14) | IV (2014- 15) | V (2015- 16) | VI (2016- 17) | VII (2017- 18) | VIII (2018- 19) | Total |
|-----------|--------------------|---------------------|----------------------|---------------------|--------------------|---------------------|----------------------|-----------------------|---------|
| Fish Seed | - | 60000 | 299500 | 54400 | 192282 | 71500 | 80750 | 368300 | 1126732 |
| (Carps) | | No. | No. | No. | No. | No. | No. | No. | No. |
| Prawns | - | 62000 | 30000 | - | - | - | - | - | 92000 |
| Seed | | No. | No. | | | | | | No. |

| Fish Feed | | | | | | | | | |
|--------------|---|-------|------|--------|-------|-------|-------|--------|---------|
| (I) Floating | - | - | - | 14000 | 11760 | 13320 | 12675 | 14820 | 66575 |
| feed | | | | kg | kg | kg | kg | kg | kg |
| (II) | - | - | - | - | 5000 | 6750 | 4000 | 3500 | 19250 |
| Sinking | | | | | kg | kg | kg | kg | kg |
| Pelleted | | | | | | | | | |
| (III) Sumul | - | 4000 | 6500 | 600 kg | 1000 | 1500 | - | 400 kg | 17600 |
| Dan | | kg | kg | | kg | kg | | | kg |
| (IV) Rice | - | - | 3000 | - | - | 2250 | 12500 | 20500 | 38250 |
| Bran | | | kg | | | kg | kg | kg | kg |
| GNOC | - | 20000 | 1000 | - | - | - | - | - | 21000 |
| | | Kg | kg | | | | | | kg |
| MOC | - | - | 3000 | - | - | - | - | - | 3000 kg |
| | | | kg | | | | | | |
| Manure | - | - | - | - | 5000 | 27000 | - | - | 32000 |
| | | | | | kg | kg | | | kg |

27. Soil Testing and Soil Health Cards Issued

| Inputs | I | II | III | IV | V | VI | VII | VIII | Total |
|-------------|--------|--------|-------------|--------|--------|-------------|--------|-------------|-------|
| | (2011- | (2012- | (2013- | (2014- | (2015- | (2016- | (2017- | (2018- | |
| | 12) | 13) | 14) | 15) | 16) | 17) | 18) | 19) | |
| Soil | 1278 | 1303 | 1698 | 867 | 1271 | 828 | 288 | 337 | 7870 |
| samples | | | | | | | | | |
| tested | | | | | | | | | |
| Soil health | - | - | - | - | 286 | 196 | 42 | 196 | 720 |
| card issued | | | | | | | | | |
| No of | 1278 | 1289 | 1303 | 438 | 1271 | 828 | 288 | 310 | 7005 |
| farmers | | | | | | | | | |
| benefitted | | | | | | | | | |

28. Linkage establishment with other Govt. Department/NGOs

| S.No. | Name of the organization | Area of collaboration/interaction |
|-------|--------------------------------------|---|
| 1. | N.A.U., Navsari | Provides administrative and technical support |
| 2. | Ministry of Agriculture & Farmers | Seed village project, Inland aquaculture |
| | welfare GOI, New Delhi | |
| 3. | Navsari Taluka Sangh, Navsari | For seed production of paddy variety |
| 4. | Bank of Baroda | Collaborative training programmes |
| 5. | Gandevi vividh vibhag sahakari | Collaborative training and Khedut shibirs |
| | mandali Co-operative Multipurpose | organize |
| | Society, Gandevi | |
| 6. | Gadat vividh vibhag sahakari mandali | Collaborative training/extension programmes |
| | Co-operative Multipurpose Society, | |
| | Gadat | |
| 7. | Amalsad vividh vibhag sahakari | Collaborative training/extension programmes |
| | mandali Co-operative Multipurpose | |

| | Society, Amalsad | |
|------------|---|--|
| 8. | Abrama vividh vibhag sahakari | Collaborative training/extension programmes |
| 0. | mandali Co-operative Multipurpose | Conadorative training/extension programmes |
| | Society, Abrama | |
| 9. | Dhanori vividh vibhag sahakari mandali | Collaborative training/extension programmes |
| 9. | Co-operative Multipurpose Society, | Conadorative training/extension programmes |
| | Dhanori | |
| 10. | Kharel vividh vibhag sahakari mandali | Collaborative training/extension programmes |
| 10. | Co-operative Multipurpose Society, | Conadorative training/extension programmes |
| | Kharel | |
| 11. | Vedchha vividh vibhag sahakari | Collaborative training/extension programmes |
| 11. | mandali Co-operative Multipurpose | Conaborative training/extension programmes |
| | Society, Vedchha | |
| 12. | Gandevi taluka kharid vichan sangh | Collaborative training/extension programmes |
| 13. | Department of Agriculure, Navsari | Collaborative training, extension programmes |
| 14. | Department of Agriculture, Navsari | Collaborative extension programmes Collaborative extension programmes |
| 15. | Department of Animal Husbandry, | Collaborative extension programmes Collaborative training, extension programmes |
| 13. | Navsari | Conaborative training, extension programmes |
| 16. | Department of Fisheries, Navsari | Collaborative training, extension programmes |
| 17. | Forest Department, Navsari | Collaborative training programmes on Agro- |
| | | Forestry |
| 18. | Central ware house corporation | Collaborative training, extension programmes |
| | Ahmedabad | |
| 19. | Veterinary College, NAU, Navsari | Collaborative training, extension programmes |
| 20. | State Bank of India | Collaborative extension programmes |
| 21. | Cohesion foundation trust Navsari. | Collaborative extension programmes |
| 22. | ATMA, Tapi, Valsad, Surat, Navsari, | Collaborative training and extension programmes |
| | Junagadh, Amreli | |
| 23. | Tribal Sub plan, Vansda | Collaborative extension programmes |
| 24. | Gujarat State Water Shed Management, | Collaborative training and extension programmes |
| | Gandhinagar | |
| 25. | ASPEE foundation, Mumbai | Collaborative training, extension programmes |
| 26. | Gandhi Memorial project, Dandi | Collaborative training, extension programmes |
| 27. | Desai Fruits and vegetables, Navsari | Collaborative training, extension programmes |
| 28. | FAI, New Delhi | Conducted FLDs and Collaborative training, |
| | | extension programmes |
| 29. | PPV & FRA, New Delhi | Collaborative training, extension programmes |
| 30. | Ramkrishna Cheritable Trust, Surat | Kitchen garden kit |
| 31. | P.P.Savani group, Surat | Collaborative extension programmes |
| 32. | Shri D.L.Patel, NRI, Khadsupa | Meals for labours of KVK |
| 33. | Uka Tarsadiya foundation, Bardoli | Collaborative training and extension programmes |
| 34. | Brahmakumaries, Navsari | Collaborative training and extension programmes |
| 35. | JCI, Navsari | Collaborative training and extension programmes |
| 36. | Lioness club, Navsari | Collaborative training and extension programmes |
| | | |
| 37. 38. | Manav Kalyankari Trust, Navsari Lok Seva Trust, Kharel | Collaborative training and extension programmes Collaborative training and extension programmes |

| 39. | Sneh-setu cheritable trust | Collaborative training and extension programmes |
|-----|--------------------------------------|---|
| 40. | IFFCO, Surat | Collaborative training and extension programmes |
| 41. | ASCI, New Delhi | Skill training programmes |
| 42. | New Holland fiat india | Collaborative training and extension programmes |
| 43. | Mega seed unit, NAU, Navsari | Collaborative training and extension programmes |
| 44. | KVKs for organizing kisan sammelans, | Collaborative training and extension programmes |
| | Krishi mela | |
| 45. | Labham build con Surat | Health and hygene support in tribal area |
| 46. | Anavil Sanskar Trust, Navsari | Collaborative training and extension programmes |
| 47. | Samarpan Dhyan Kendra, Navsari | Collaborative training and extension programmes |
| 48. | Senior Citizen Trust, Navsari | Collaborative training and extension programmes |
| 49. | Gender Resource Center, Gandhinagar | Collaborative training and extension programmes |
| 50. | Navsari Jilla Panchayat, Navsari | Collaborative programmes |
| 51. | Rotary club of Navsari | Collaborative programmes |
| 52. | Hanuman seva trust | Collaborative programmes |

29. Activities carried out by using revolving fund(Rs. in lakh):

| S.No. | Activity | I | II | III | IV | V | VI | VII | VIII | Total |
|-------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| | | (2011- | (2012- | (2013- | (2014- | (2015- | (2016- | (2017- | (2018- | |
| | | 12) | 13) | 14) | 15) | 16) | 17) | 18) | 19) | |
| 1 | MIS | - | - | 0.99 | 0.22 | - | - | - | - | - |
| | installation | | | | | | | | | |
| | /Material | | | | | | | | | |
| 2 | Horticulture | - | - | - | 0.40 | - | - | - | - | - |
| | Plant | | | | | | | | | |
| 3 | Green Shad | - | - | - | 0.09 | - | - | - | - | - |
| | Net | | | | | | | | | |
| 4 | Sound | - | - | - | 0.28 | - | - | - | - | - |
| | System | | | | | | | | | |
| 5 | Soil testing | - | - | - | - | - | 0.04 | - | - | - |
| | mini kit | | | | | | | | | |
| | reagents | | | | | | | | | |
| 6 | Celebration | - | - | - | - | - | - | 0.08 | - | |
| | of Mahila | | | | | | | | | |
| | Krushi | | | | | | | | | |
| | Divas | | | | | | | | | |
| | Total | - | - | 0.99 | 0.99 | - | 0.04 | 0.08 | - | - |

30. Resource generation (Rs. in lakh):

| S. No. | Activity | I (2011- 12) | II (2012- 13) | III (2013- 14) | IV (2014- 15) | V (2015- 16) | VI (2016- 17) | VII (2017- 18) | VIII (2018- 19) | Total |
|-----------|--------------------------------|--------------------|---------------------|----------------------|---------------------|--------------------|---------------------|----------------------|-----------------------|-------|
| 1 | Seed production | 1.79 | 1.14 | 1.89 | 0.88 | 1.65 | 2.14 | 3.60 | 3.27 | 16.38 |
| 2 | Vermi compost production | 6.10 | 5.33 | 1.15 | 0.49 | 0.67 | 0.38 | 0.01 | 0.01 | 14.13 |
| 3 | Seedling prepare | 0.14 | 0.10 | 0.18 | 0.83 | 1.15 | 0.39 | 0.05 | 0.02 | 2.86 |
| 4 | Vegetable production | 0.39 | 0.85 | 0.70 | 0.47 | 0.47 | 0.41 | 0.38 | 0.48 | 4.16 |

| 5 | Fruit crops | 0.00 | 1.09 | 0.17 | 0.37 | 0.41 | 3.99 | 0.87 | 0.17 | 7.07 |
|---|-------------------|------|------|------|------|------|------|-------|------|-------|
| 6 | Fruit fly trap | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.65 | 0.00 | 3.65 |
| 7 | Fish | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.67 | 1.64 | 0.54 | 2.85 |
| | Total | 8.43 | 8.52 | 4.08 | 3.04 | 4.34 | 8.00 | 10.19 | 4.49 | 51.10 |

31. Impact studies carried out during reporting period. Give brief account with copies of report

| Sr. No. | Title of the impact Study |
|---------|--|
| A | Scientific cultivation practices of high yielding variety of paddy NAUR-1, GNR-2 |
| | and GNR-3 |
| В | Impact of frontline demonstration of SRI technology of paddy cultivation in |
| | Navsari district of Gujarat state |
| C | Impact in yield improvement of Pulses through Cluster approach |
| D | Livelihood and nutritional security increase through the Inland fisheries |
| E | Crop diversification through high value sweet corn crop |
| F | Strengthening of livelihood among livestock owners |
| G | Nutritional security through kitchen garden |
| Н | Formation of Navsari Organic Farmers Co-operative Society (NOFCO) |

A. Scientific cultivation practices of high yielding variety of paddy NAUR-1, GNR-2 and GNR-3

| Crop for which | Innovative Farming Technology (IFT) | Average yield of paddy variety (kg/ha) | | | Impact |
|----------------|---|---|------------------|------|--|
| impact | | NAUR- | , , , , , | | |
| studies | | 1 | 3 | 2 | |
| Paddy | Introduction of newly released high yielding variety of paddy NAUR-1 and GNR-3 | 4822 | 4847 | 4106 | Presently, total 27570 farmers are self motivated and started to cultivate paddy variety NAUR-1, GNR-2 and GNR-3 |

Impact study methodology adopted

Scientist dialoged with farmers and suggested to adopt new paddy varieties NAUR-1, GNR-2 and GNR-3 depend on area specific situation. KVK scientist had selected interested young farmers and invited them at KVK for explaining detail package of practices of paddy. For "Seeing is believing" and "Learning by doing" KVK demonstrated this new paddy varieties. Attempts were also made to study the extent of adoption of recommended package of practices of paddy cultivation before and after FLD conducted.

The present impact study was conducted in Navsari district of South Gujarat during year 2014. The village namely Nani kadod, Mora mogar, Partapore, Aat, Panar, Matwad, Onjal, Katasvel, Kandolpada, Zari, Chondha, Mahuvas, Kavdej, Bartad, Limzar, Vadi Chondha, Panikhadak, Mograwadi, Dharmpuri and Jamanpada were selected purposively in which paddy FLDs had been given by KVK, Navsari. List of farmers to whom FLD paddy

had been allotted were prepared and ten farmers from each village were randomly selected. Thus, total two hundred farmers/ respondents were selected for present study.

The data were collected by personal interview. The interview schedule was prepared by keeping the objective of the study in mind. The interview schedule was developed through discussion with expert, scientist and extension officers working in the Navsari Agricultural University, Navsari. The respondents were same for before and after FLD data collection. The data were analyzed with appropriate statistical procedures.

Impact:

The result of overall knowledge of scientific cultivation practices of paddy indicated that the farmer having low, medium and high level of knowledge before contact with KVK was 73, 20 and 7 per cent, but it was increase up to 19, 67 and 14 per cent after contact with KVK (Table-1), respectively.

Table: 1 Distribution of farmers according to overall knowledge of scientific cultivation practices of paddy n=200

| Category | Before con KV | | After contact with KVK | | |
|--|------------------|----|------------------------|----|--|
| | F | % | F | % | |
| Low level of knowledge (Below 60 score) | 146 | 73 | 38 | 19 | |
| Medium level of knowledge (61 to 75 score) | 40 | 20 | 134 | 67 | |
| High level of knowledge (Above 75 score) | 14 | 7 | 28 | 14 | |

Data presented in Table-2 clearly indicated that majority of the farmers had medium levels of knowledge regarding different practices of paddy cultivation like high yielding varieties, time of sowing, spacing, irrigation management, weed management, time of harvesting and pest management. Whereas, majority of farmers having low levels of knowledge regarding seed rate, seed treatments, use of bio-fertilizer and fertilizer management practices.

Table: 2 Practice wise level of knowledge of farmers regarding paddy cultivation technology $n{=}200 \\$

| Sr. No. | Package of practices | Low | Medium | High |
|---------|---------------------------------------|-----|--------|------|
| 1 | High yielding variety | 26 | 111 | 63 |
| 2 | Seed rate | 124 | 61 | 15 |
| 3 | Seed treatment | 129 | 52 | 19 |
| 4 | Use of bio fertilizer | 141 | 47 | 12 |
| 5 | Time of sowing | 9 | 121 | 70 |
| 6 | Plant to plant and row to row spacing | 57 | 113 | 30 |
| 7 | Fertilizer management | 98 | 54 | 48 |
| 8 | Irrigation management | 8 | 123 | 69 |

| 9 | Weed management | 38 | 114 | 48 |
|----|--------------------|----|-----|----|
| 10 | Time of harvesting | 21 | 107 | 72 |
| 11 | Pest management | 50 | 102 | 48 |

The data presented in Table-3 revealed that levels of adoption of recommended practices of paddy cultivation *viz;* new variety, seed rate, nursery management, line sowing, fertilizer management, pest disease management, irrigation management and weed management etc were also increase after FLD's conducted.

Table 3 : Extent of adoption of recommended package of practices of paddy crop before and after FLDs n=200

| Sr. No. | Package of practices | | ption of nded practice | | loption of ended practice | |
|------------|-----------------------------|-----|---------------------------|-------------|------------------------------|--|
| | | | ore FLD) | (After FLD) | | |
| | | No. | | No. | Per cent | |
| 1 | New variety | | | | | |
| | NAUR-1 | 16 | 08 | 78 | 39 | |
| | GNR-3 | 36 | 18 | 84 | 42 | |
| | GNR-2 | 08 | 04 | 38 | 19 | |
| 2 | Seed rate | 30 | 15 | 112 | 56 | |
| 3 | Nursery management | 44 | 22 | 118 | 59 | |
| 4 | Line sowing | 92 | 46 | 146 | 73 | |
| 5 | No. of plant per dibble | 56 | 28 | 116 | 58 | |
| 6 | Fertilizer application | | | | | |
| | Basal | 96 | 48 | 142 | 71 | |
| | Top dressing | 128 | 64 | 158 | 79 | |
| | Panicle emergence | 78 | 39 | 106 | 53 | |
| 7 | Pest and disease management | | | | | |
| | Pest control | 70 | 35 | 132 | 66 | |
| | Disease control | 48 | 24 | 106 | 53 | |
| | IPDM | 14 | 7 | 70 | 35 | |
| 8 | Irrigation Management | 116 | 58 | 146 | 73 | |
| 9 | Weed management | | | | | |
| | Pre emergence use | 52 | 26 | 114 | 57 | |
| | Post emergence use | 10 | 05 | 42 | 21 | |

The results obtained during the three year presented in Table-4. The results shows that the paddy variety of NAUR-1, GNR-3,GNR-2 were produced average highest yield of 4438, 5155 and 3603 kg/ha during the year 2011-12, 5203, 4814 and 4554 kg/ha during the year 2012-13 and 4826, 4544 and 4162 kg/ha during the year 2013-14 under FLD plots as compared to farmer plots, respectively. The per cent increasing yield of 25.9, 22.03 and 3.0 per cent during the year 2011-12, 32.22, 19.36 and 13.3 per cent during the year 2012-13 and 30.9, 22.1 and 14.5 per cent during the year 2013-14 were found under the paddy variety NAUR-1, GNR-3 and GNR-2 over control (farmer's variety), respectively.

The benefit cost ratio of 2.9, 3.37 and 1.8 during the year 2011-12, 2.6, 2.59 and 2.36 during the year 2012-13 and 2.96, 2.92 and 2.66 were recorded higher under the FLDs of paddy variety NAUR-1, GNR-3 and GNR-2 over other varieties were grow by farmer's. The results clearly showed that due to increasing in level of knowledge and adoption of scientific cultivation practice, yield was increased ultimately benefit cost ratio also obtained higher.

Table: 4 Impact of paddy grown under FLD's and

| Year | Variety | Area | No. of | Av. Yield kg/ha | | % | В | CR |
|---------|---------|-------|--------|-----------------|---------|----------|-------|---------|
| | | (ha.) | demon. | Demo. | Control | increase | Demo. | Control |
| | | | | | | in yield | | |
| 2011-12 | NAUR-1 | 263.2 | 1316 | 4438 | 3525 | 25.9 | 2.9 | 1.88 |
| | GNR-3 | 9.5 | 17 | 5155 | 4190 | 23.03 | 3.37 | 1.92 |
| | GNR-2 | 35.34 | 137 | 3603 | 3492 | 3 | 1.8 | 1.58 |
| Av. (A) | | | | 4399 | 3736 | | | |
| 2012-13 | NAUR-1 | 89.4 | 550 | 5203 | 3935 | 32.22 | 2.6 | 1.87 |
| | GNR-3 | 61.4 | 307 | 4814 | 4033 | 19.36 | 2.59 | 1.81 |
| | GNR-2 | 49.2 | 246 | 4554 | 4017 | 13.3 | 2.36 | 1.91 |
| Av. (B) | | | | 4857 | 3995 | | | |
| 2013-14 | NAUR-1 | 31 | 155 | 4826 | 3686 | 30.9 | 2.96 | 1.92 |
| | GNR-3 | 8 | 40 | 4544 | 3720 | 22.1 | 2.92 | 1.73 |
| | GNR-2 | 20.4 | 102 | 4162 | 3634 | 14.5 | 2.66 | 1.68 |
| Av.(C) | | | | 4511 | 3680 | | | |

CONCLUSION:

For the above discussion, it can be concluded that knowledge level and adoption level of tribal farmers were amplified after & imparting training and conducting FLD by KVK scientists. The FLD conducted on variety of paddy at farmer's field in Navsari district revealed that farmer's could grow the newly released high yield variety of paddy. In demonstration the high yield improved variety of paddy perform better than other variety of paddy. It improved the productivity by 20.64 percent. The productivity under FLD over farmer's practices created awareness and motivated the other farmer's to adopt new variety of paddy and other technology of paddy in the district.

Output of this technology

Adopting of Paddy cultivation of new varieties NAUR-1 and GNR-3 by farmers of Navsari, Jalalpor, Vansda and Chikhli talukas are increase significantly.

The feedback received from the farmers' stated that paddy varieties NAUR 1 performed better (15-20% higher yield) than traditionally grown varieties as well as some hybrids. It creates positive effect on farmers and there is a demand for seeds of these varieties from farmers.

Out Put of Trainings: On the basis of pre and post training evolution

- Remarkable increase in knowledge of farmers regarding new varieties of paddy NAUR-1 and GNR-3. Therefore, 38 per cent farmers have adopted these new varieties.
- Line planting in paddy: It was a traditional practice of random planting of paddy in the puddled field. After continues efforts of KVK by training and demonstration, 50 % farmers are now adopting the line planting in their field.

| Sr. No. | Name of technology | Extent of adoption in % (approx) | Reasons for formal adoption |
|------------|----------------------|----------------------------------|-----------------------------|
| 1 | New variety in paddy | 38 | Improve the productivity |

Output of Frontline Demonstrations

| Sr.No | Name of | Outcome of Various FLD |
|-------|---------|---|
| 1 | Paddy | Farmers have adopted new varieties. Farmers get 10 per cent more yield than those cultivation. Need base application of carbofuran 3G @ 25kg/ha adopted by 65% farmer. Farmers are came to know the importance of seed and avoid selection of seed from false smut infested plot. About 70% farmer came to know about spot application of insecticide for the control of brown plant hopper in early stage of infestation for saving pesticide. New variety gave higher yield as compared to hybrids. |



Demonstration of paddy cv. NAUR-1







GNR-3

B. IMPACT OF FRONTLINE DEMONSTRATION OF SRI TECHNOLOGY OF PADDY CULTIVATION IN NAVSARI DISTRICT OF GUJARAT STATE SUMMARY OF THE WORK

The front line demonstration on SRI technology of paddy cultivation was conducted for three year (2012-13 to 2016-17) on farmers' field in Vansda and Chikhali talukas of Navsari district in *Kharif* season. It was observed that average yield performance of SRI technology of 10, 36, 35,38 and 32 demonstrations in area of 2.5, 8.6,7.0 and 6.4 hectares of 8064, 8168, 8278 8015 and 8226 kg/ha during the year 2012-13, 2013-14 2014-15, 2015-16 and 2016-17 respectively. The percentage increase in demonstration yield over local cultivation practices was 58.6, 70.6, 69.5,72.29 and 66.79 per cent during the year 2012-13, 2013-14, 2014-15, 2015-16 and 2016-17 respectively. The farmers have incurred average higher gross return of Rs. 106632/ha and benefit cost ratio of 3.24 through these

demonstrations over local paddy cultivation practices, which was recorded Rs. 63499/ha and 2.23, respectively. The average additional gain of Rs. 43133/ha was obtained by farmers through adoption of SRI technology over farmers practices. Results of the demonstration had shown that the SRI technology of paddy cultivation obtained higher productivity of paddy.

METHODOLOGY FOLLOWED TO CONDUCT SRI Method in paddy

Krishi Vigyan Kendra, Navsari were conducted the front line demonstration on SRI technology during the year of 2012-13 to 2016-17 in *Kharif* season. Totally 10, 36, 35,38 and 32 demonstrations in area of 2.5, 8.6,7.0 and 6.4 hectare area were conducted on SRI technology on farmers field of Vansda and Chikhali taluka of Navsari Districts, respectively. The demonstration conducted in irrigated condition and having good drainage facility. The necessary step for selection of site and farmers, layout of demonstration were followed. Before conducting the FLDs, a list of farmer of different village were prepared form survey and farmer's meeting and specific skill training was imparted in the form of practicing the farmer's training at farmer's field or at KVK campus regarding the different aspect of SRI cultivation and plant protection measures. The traditional practices followed by farmers were maintained in case of local checks. The data output were collected from both FLD plots as well as check plots and finally the benefit cost ratio were work out.

OUT COME OF THE WORK

The data of presented in Table-1 revealed that yield of paddy found higher in SRI technology as compared to farmer practices (control). The maximum yield recorded in SRI demonstrated plots was 10580, 10870 ,10690,12650 and12720 kg/ha during the year 2012-13, 2013-14 2014-15 ,2015-16 and 2016-17 respectively. The average yield of demonstration plots were 8064, 8168, 8278 , 8015 and 8226 kg/ha whereas, control plots recorded 5083, 4786, 4884 4652 and 4932 kg/ha during the year 2012-13, 2013-14, 2014-15 ,2015-16 and 2016-17 respectively. The increase in the yield under SRI technology was found 58.6, 70.6, 69.5 ,72.29 and 66.79 per cent over farmer's practices during the year 2012-13, 2013-14, 2014-15 ,2015-16 and 2016-17 respectively. The reason for higher yield in FLDs is due to use of recommended practices in SRI and control of pest and disease in paddy by proper application of insecticide at appropriate time and methods in addition to this efficient utilization of the natural resources.

Table-1 Yield performances of frontline demonstration of SRI technology

| Sr. | Year | Name of | Name of | No. of | Area | Av. | yield (k | g/ha) | Increase |
|-----|-------------|--------------------|------------------------------|---------|------|--------|----------|---------|-----------|
| No. | | taluka | Variety | farmers | (ha) | Demons | tration | Control | the yield |
| | | | | | | Max | Avg. | Avg. | (%) |
| 1 | 2012- 13 | Vansda Chikhali | NAUR-1 US-312 Pro-6444 | 10 | 2.5 | 10580 | 8064 | 5083 | 58.60 |
| 2 | 2013- 14 | Vansda Chikhali | NAUR-1 US-312 Pro-6444 | 36 | 8.6 | 10870 | 8168 | 4786 | 70.60 |
| 3 | 2014- 15 | Vansda Chikhali | NAUR-1 US-312 Pro-6444 | 35 | 7.0 | 10690 | 8278 | 4884 | 69.50 |
| 4 | 2015- 16 | Vansda Chikhali | NAUR-1 VNR- 2111 | 38 | 7.6 | 12650 | 8015 | 4652 | 72.29 |
| 5 | 2016- 17 | Vansda Chikhali | NAUR-1 VNR- 2111 | 32 | 6.4 | 12720 | 8226 | 4932 | 66.79 |
| | | | | 151 | 32.1 | | | | |

Table 2 Economics of front line demonstration of SRI technology

| Sr. | Year | Av. | cost of | Av. gro | ss return | Av. net return | | B:C | ratio | Additional |
|-----|---------|-------------|---------|---------|-----------|----------------|---------|-------|---------|------------|
| No. | | cultivation | | (Rs/ha) | | (Rs | (Rs/ha) | | | gain |
| | | (R | s/ha) | | | | | | | (Rs/ha) |
| | | Demo. | Control | Demo. | Control | Demo. | Control | Demo. | Control | |
| 1 | 2012-13 | 33250 | 28230 | 96768 | 60996 | 63518 | 32766 | 2:91 | 2:16 | 35772 |
| 2 | 2013-14 | 33190 | 27660 | 106184 | 62218 | 72994 | 34558 | 3:20 | 2:25 | 43966 |
| 3 | 2014-15 | 33370 | 28120 | 107614 | 63492 | 74244 | 35372 | 3.22 | 2.26 | 44122 |
| 4 | 2015-16 | 31990 | 28750 | 104331 | 60555 | 72341 | 31805` | 3.26 | 2.11 | 43776 |
| 5 | 2016-17 | 32962 | 29635 | 118265 | 70235 | 85303 | 40600 | 3.59 | 2.37 | 48030 |
| | Total | 164762 | 142395 | 533162 | 317496 | 368400 | 143296 | - | • | 215666 |
| | Average | 32952 | 28479 | 106632 | 63499 | 73680 | 28659 | 3.24 | 2.23 | 43133 |
| | | | | | | | | | | |

The data presented in the Table-2 indicated that the average gross return, average net return and B:C ratio were recorded higher in SRI technology of paddy cultivation as compared to farmer practices. The average gross return (Rs. 106632/ha), net return (Rs. 736804/ha) and benefit cost ratio (3:24) were recorded higher in the SRI demonstration plots as compare to control. The benefit cost ratio was recorded higher under demonstration plots against check during all the years. The average additional grain of Rs. 43133/ha was incurred in

demonstration plots against the farmers' practices (control). The results clearly indicated the positive effect of FLDs over existing paddy cultivation practices towards enhancing the yield and income of paddy cultivating farmers of Navsari district of Gujarat.



SRI DEMO PLOT VISITED BY Dr. A R PATHAK HON'BLE VC NAU





SRI PLOT VISITED BY KVK SCIENTIST





Dr. C.J DANGARIA HON'BLE VC NAU NAVSARI





District Extension fuctionaries visited SRI plots

Out Put of Trainings/ demonstration:

- Improvement in cultivation practices of paddy particularly SRI
- Therefore, 18 per cent farmers have adopted these new techniques.
- Line planting in paddy: It was a traditional practice of random planting of paddy in the puddled field. After continues efforts of KVK by training and demonstration, 45% farmers are now adopting the line planting in their field.

| Sr. No. | Name of technology | Extent of adoption in % (approx) | Reasons for formal adoption |
|------------|---------------------|----------------------------------|----------------------------------|
| 1 | SRI technologies of | 18 | Reduce the seed rate and Improve |
| | Paddy | | the productivity |

Output of Frontline Demonstrations

| Sr.No | Name of | Outcome of Various FLD |
|-------|---------|--|
| | crop | |
| 1 | | Farmers have adopted SRI techniques. |
| | | • Farmers get 25-80 per cent more yield than normal cultivation. |
| | Paddy | Reduced the seed rate and cost of cultivation. |
| | | • About 40% farmer came to know about importance of age of |
| | | seedling in paddy cultivation |

C. Impact in yield improvement of Pulses through Cluster approach

Back ground information

The cluster frontline demonstrations (CFLDs) on pigeon pea, chickpea and rabi green gram and summer green gram were conducted by Krishi Vigyan Kendra, Navsari – Gujarat during last three year different talukas of Navsari district, *i.e.*, Chikhli, Khergam and Vansda.

Total <u>630</u> demonstrations on pigeon pea, chickpea, *rabi* green gram and summer green gram pulse crops were carried out in an area of 100 ha by the active participation of farmers with the objective to demonstrate the scientific cultivation practices of major pulses. The scientific cultivation practices consisting use of improved varieties, seed treatment with Thiram, *rhizobium* and PSB culture, and management of weeds, insects and diseases. CFLD recorded higher yield as compared to farmer's local practice. By incorporating proven scientific technologies of pigeon pea, chickpea, *rabi* green gram and summer green gram, yield potential and net income from black gram cultivation can be enhanced to a great extent with increase in the income level of the farming community of the district.

NFSM Project:

1. FLD Organized Year 2016-17

| Sr. | | FLD organiz | æd | Area | В | eneficiaries | 3 |
|-----|------------|-------------|-------------|------|-------|--------------|-------|
| No | Crop | Variety | Season | (ha) | SC/ST | Others | Total |
| | _ | 2016-17 | | | | | |
| 1 | Pigeon pea | BSMR- | Kharif-16 | 00 | - | | - |
| | | 853 | | | | | |
| 2 | Chick pea | GG-2 | Rabi-16 | 22.4 | 126 | 0 | 126 |
| 3 | Green gram | Co-4 | Rabi-16 | 8.0 | 42 | 0 | 42 |
| 4 | Green gram | Meha | Summer-16 | 32.0 | 100 | 50 | 150 |
| | | Sub | TOTAL | 62.4 | 268 | 50 | 318 |
| | | | | | | | |
| | | | 2017-18 | | T | | |
| 1 | Pigeon pea | BSMR- | Kharif-17 | 20 | 58 | 105 | 163 |
| | | 853 | | | | | |
| 2 | Chick pea | GG-3 | Rabi-17 | 30 | 160 | 0 | 160 |
| 3 | Green gram | Co-4 | Rabi-17 | 20 | 38 | 62 | 100 |
| 4 | Green gram | Meha | Summer-18 | 30 | 128 | 79 | 207 |
| | | Sub | TOTAL | 100 | 384 | 246 | 630 |
| | | | 2018-19 | 1 | | | |
| 1 | Pigeon | BSMR- | Kharif 2018 | 31 | 37 | 126 | 163 |
| | pea | 853 | | 31 | 31 | 120 | 103 |
| 2 | Chick pea | GG-5 | Rabi-2018 | 10 | 65 | 15 | 80 |
| 3 | Chick pea | GG-3 | Rabi-2018 | 10 | 79 | 0 | 79 |
| 4 | Green | Meha | Summer | 21 | 74 | 93 | 167 |
| | gram | | 2019 | 21 | /4 | 93 | 107 |

| 5 | Green gram | GM-6 | Summer 2019 | 10 | 73 | 15 | 88 |
|---|---------------|-------------|----------------|-------|-----|-----|------|
| | | Sub TOTAL | | 82 | 328 | 249 | 577 |
| | | Grant Total | | 244.4 | 980 | 545 | 1525 |
| | | | | | | | |

2. Training on pulses

| Sr. | Year | Title of training | No. of | SC/S | ST | Otl | her | Tot | al | Grand |
|-----|-------|-------------------------|----------|------|-----|-----|-----|------|-----|-------|
| No. | | | training | M | F | M | F | M | F | Total |
| 1 | 2016- | Scientific cultivation | 3 | 252 | 30 | - | - | 252 | 30 | 282 |
| | 17 | practices of pulse crop | | | | | | | | |
| 2 | 2017- | | 17 | 336 | 145 | 231 | 193 | 567 | 338 | 905 |
| | 18 | | | | | | | | | |
| 3 | 2018- | | 17 | 368 | 265 | 77 | 115 | 445 | 380 | 825 |
| | 19 | | | | | | | | | |
| | Total | | 37 | 956 | 440 | 308 | 308 | 1264 | 748 | 2012 |
| | | | | | | | | | | |

3. Field day on pulses (Rabi) 2017-18

| Sr. No. | Date | Crop | Variety | SC/ | 'ST | Otl | ner | То | tal | Grand |
|---------|----------|------------|----------|-----|-----|-----|-----|-----|-----|-------|
| | | • | · | M | F | M | F | M | F | Total |
| | | | 2016- | 17 | | | I | | | |
| 1 | 1/2/17 | Chick pea | GG-3 | 22 | 24 | 0 | 0 | 22 | 24 | 46 |
| 2 | 2/2/17 | Chick pea | GG-3 | 30 | 38 | 0 | 0 | 30 | 38 | 68 |
| 3 | 3/2/17 | Chick pea | GG-3 | 58 | 4 | 0 | 0 | 58 | 4 | 62 |
| 4 | 10/2/17 | Chick pea | GG-3 | 0 | 0 | 3 | 43 | 3 | 43 | 46 |
| | | | 110 | 66 | 3 | 43 | 113 | 109 | 222 | |
| | | | 2017- | 18 | 1 | | | | 1 | |
| 1. | 5/5/17 | Green gram | Co-4 | 43 | 53 | - | - | 43 | 53 | 96 |
| 2. | 22/1/18 | Chick pea | GG-3 | 8 | 24 | - | - | 8 | 24 | 32 |
| 3. | 23/1/18 | Chick pea | GG-3 | 25 | 9 | - | - | 25 | 9 | 34 |
| 4. | 24/1/18 | Chick pea | GG-3 | 34 | 34 | - | - | 34 | 34 | 68 |
| 5. | 25/1/18 | Chick pea | GG-3 | - | - | 14 | 26 | 14 | 26 | 40 |
| 6. | 25/1/18 | Chick pea | GG-3 | - | - | 20 | 20 | 20 | 20 | 40 |
| 7. | 24/2/18 | Chick pea | GG-3 | 32 | 65 | - | - | 32 | 65 | 97 |
| | | Sub total | | 142 | 185 | 34 | 46 | 176 | 231 | 407 |
| | | | 2018- | 19 | | | | | | |
| 1 | 18/5/18 | Greengram | Meha | 18 | 9 | 0 | 0 | 18 | 9 | 27 |
| 2 | 18/5/18 | Greengram | Meha | 6 | 18 | 0 | 0 | 6 | 18 | 24 |
| 3 | 27/10/18 | Pigeonpea | Vaishali | 12 | 7 | 28 | 32 | 40 | 39 | 79 |

| 4 | 31/10/18 | Pigeonpea | Vaishali | 34 | 36 | 3 | 0 | 37 | 36 | 73 |
|----|----------|-------------|----------|-----|-----|-----|-----|-----|-----|------|
| 5 | 17/12/18 | Pigeonpea | Vaishali | 32 | 6 | 0 | 0 | 32 | 9 | 41 |
| 6 | 17/10/19 | Chickpea | GG-3 | 27 | 17 | 7 | 5 | 34 | 12 | 56 |
| 7 | 18/01/19 | Chickpea | GG-3 | 50 | 10 | 0 | 0 | 50 | 10 | 60 |
| 8 | 19/01/19 | Chickpea | GG-3 | 0 | 0 | 18 | 52 | 18 | 52 | 70 |
| 9 | 24/01/19 | Chickpea | GG-3 | 3 | 13 | 15 | 45 | 18 | 58 | 76 |
| 10 | 02/02/19 | Chickpea | GG-3 | 48 | 8 | 2 | 12 | 50 | 20 | 70 |
| | | Sub total | | 230 | 124 | 73 | 146 | 303 | 263 | 576 |
| | | Grand total | | 482 | 375 | 110 | 235 | 592 | 603 | 1205 |

4. Field visit of pulses crop

| Sr. No. | No fo field visit | SC | /ST | Oth | er | To | tal | Total |
|---------|-------------------|-----|---------|-----|----|-----|-----|-------|
| | | M | F | M | F | M | F | |
| | | | 2016-17 | | | | | |
| 1 | 8 | 44 | 07 | 10 | 0 | 54 | 07 | 61 |
| | | | 2017-18 | | | | | |
| 2 | 24 | 55 | 48 | 15 | 6 | 70 | 54 | 124 |
| | | | 2018-19 | | | | | |
| 3 | 16 | 40 | 35 | 10 | 0 | 50 | 35 | 85 |
| | | | | | | | | |
| | 48 | 139 | 90 | 35 | 6 | 174 | 96 | 270 |
| | | | | | | | | |

5. Yield performance of CLFDs on pulses

| Sr. | Name of crop and | | , | Yield obtai | ned (q/ha) | | | Yield |
|-----|------------------------------------|-------|-------|-------------|------------|------|-------|----------|
| No. | variety | | Check | | | Demo | | increase |
| | demonstrated | Max. | Min. | Av. | Max. | Min. | Av. | (%) |
| | | | 2010 | 6-17 | | | | |
| 1 | Gram (GG-2) | 8.34 | 6.48 | 7.32 | 10.36 | 7.62 | 9.76 | 33.33 |
| 2 | Gram (GG-3) | 8.34 | 6.48 | 7.32 | 11.46 | 8.19 | 10.11 | 38.11 |
| 3 | Green gram (Co-4) | 7.12 | 5.89 | 6.92 | 9.89 | 6.9 | 8.78 | 26.88 |
| 4 | Green gram (Meha) | 6.12 | 4.19 | 5.87 | 8.36 | 6.74 | 7.14 | 21.63 |
| | | ı | 201 | 7-18 | 1 | | | |
| 1 | Pigeon pea BSMR- 853 (Vaishali) | 9.34 | 6.48 | 8.87 | 12.36 | 7.62 | 11.49 | 29.53 |
| 2 | Gram (GG-3) | 11.34 | 6.48 | 10.79 | 13.46 | 8.19 | 12.32 | 14.18 |
| 3 | Green gram (Co-4) | - | - | - | 9.89 | 6.9 | 8.27 | - |
| 4 | Green gram (Meha) | 6.12 | 4.07 | 5.72 | 8.36 | 6.74 | 8.45 | 47.12 |
| | | | 2018 | 8-19 | | | | |
| 1 | Pigeon pea (Vaishali) | 9.78 | 5.48 | 8.56 | 12.18 | 6.75 | 10.89 | 27.21 |

| 2 | Gram (GG-3) | 11.84 | 8.53 | 10.17 | 13.94 | 9.84 | 12.81 | 25.96 |
|---|-------------------|-------|------|-------|-------|-------|-------|-------|
| 3 | Gram (GG-5) | 11.84 | 8.53 | 10.17 | 16.43 | 12.62 | 15.32 | 50.64 |
| 4 | Green gram (Meha) | 7.62 | 4.94 | 5.86 | 8.94 | 7.11 | 8.34 | 42.34 |
| 5 | Green gram (GM-6) | 7.62 | 4.94 | 5.86 | 10.23 | 7.84 | 9.12 | 55.63 |

$(C) \ E conomic \ parameters \ of \ CLFDs \ on \ pulses \\$

| Sr. | Name of crop | | E | Expenditu | re and | returns | (Rs./ha) | | | Net |
|-----|----------------------|---------|--------|-----------|--------|---------|----------|---------|-------|----------|
| No. | and variety | | Che | ck | | | Dei | mo | | returns |
| | demonstrated | Gross | Gross | Net | B:C | Gross | Gross | Net | B:C | increase |
| | | Cost | return | Return | ratio | Cost | return | Return | ratio | (%) |
| | | (Rs/ha) | (Rs/ | (Rs/ha) | | (Rs/ha) | (Rs/ | (Rs/ha) | | |
| | | | ha) | | | | ha) | | | |
| | | | | 201 | 6-17 | | | | | |
| 1 | Gram (GG-2) | 18750 | 46020 | 27270 | 2.45 | 20550 | 57584 | 37034 | 2.80 | 14.29 |
| 2 | Gram (GG-2) | 18750 | 43188 | 24438 | 2.30 | 23350 | 59649 | 36299 | 2.55 | 10.87 |
| 3 | Green gram | 21050 | 52592 | 31542 | 2.50 | 23050 | 66728 | 43678 | 2.89 | 15.60 |
| 4 | Green gram (Meha) | 19950 | 35220 | 15270 | 1.77 | 17970 | 42840 | 24870 | 2.38 | 62.87 |
| | (| | | 201 | 7-18 | I | | | | |
| 1 | Pigeon pea | 23550 | 48796 | 25246 | 2.07 | 25050 | 63209 | 38159 | 2.52 | 51.14 |
| | (BSMR-853) | | | | | | | | | |
| 2 | Gram (GG-) | 27650 | 53518 | 25868 | 1.94 | 24550 | 61107 | 36557 | 2.49 | 41.32 |
| 3 | Green gram | - | - | - | - | 26050 | 58717 | 32667 | 2.25 | - |
| | (Co-4) | | | | | | | | | |
| 4 | Green gram | 27650 | 43477 | 15827 | 1.97 | 26450 | 59995 | 33545 | 2.27 | 112.0 |
| | (Meha) | | | | | | | | | |
| | | | | 201 | 8-19 | | | | | |
| 1 | Pigeon pea | 27650 | 47946 | 20296 | 1.73 | 27050 | 60997 | 33947 | 2.26 | 67.25 |
| 2 | Gram (GG-3) | 26990 | 55528 | 28538 | 2.05 | 28480 | 69942 | 41462 | 2.45 | 45.29 |
| 3 | Gram (GG-5) | 26990 | 55528 | 28538 | 2.05 | 28480 | 83647 | 55167 | 2.93 | 93.31 |
| 4 | Green gram (Meha) | 27650 | 44536 | 16886 | 1.61 | 26450 | 63384 | 36934 | 2.39 | 118.72 |
| 5 | Green gram (GM-6) | 27650 | 44536 | 16886 | 1.61 | 26450 | 69312 | 42862 | 2.62 | 153.83 |

Action photograph of CFLs of pulses under NFSM project year 2017-18





Training on Pigeon pea





Critical inputs given to farmer





Stage wise photo graph of Cluster Frontline Demonstration on pigeon pea



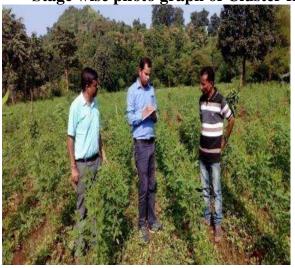


Stage wise photo graph of Cluster frontline demonstration on pigeon pea





Stage wise photo graph of Cluster frontline demonstration on pigeon pea





Shri Ram Narayan STA from Director. of Millet Development, Jaipur visit the CFLDs plots of pigeon pea

Action photograph of CFLDs of pulses under NFSM project year 2018-19



Growth stage of pigeon pea



Branching stage of pigeon pea



Flower imitation stage of pigeon pea



Pod initiation stage of pigeon pea











Field day on Chick pea

Impact of cluster front line demonstration of pulses

Table 1: overall knowledge of scientific cultivation practices of pulses

n = 300

| Category | Before con KV | | | tact with |
|--|------------------|-------|-----|-----------|
| | F | % | F | % |
| Low level of knowledge (Below 60 score) | 245 | 81.67 | 78 | 26.0 |
| Medium level of knowledge (61 to 75 score) | 38 | 12.66 | 190 | 63.33 |
| High level of knowledge (Above 75 score) | 17 | 5.67 | 32 | 10.67 |

Data presented in Table-2 clearly indicated that majority of the farmers had medium levels of knowledge regarding different practices of pulses cultivation like high yielding varieties, time of sowing, spacing, irrigation management, weed management, time of harvesting and pest management. Whereas, majority of farmers having low levels of knowledge regarding seed rate, seed treatments, use of bio-fertilizer and fertilizer management practices.

Table: 2 Practice wise level of knowledge of farmers regarding pluses cultivation technology

N = 300

| Sr. No. | Package of practices | Low | Medium | High |
|---------|---------------------------------|-----|--------|------|
| 1 | High yielding variety of pulses | 49 | 147 | 104 |
| 2 | Seed rate | 183 | 83 | 34 |
| 3 | Seed treatment | 179 | 92 | 29 |
| 4 | Use of bio fertilizer | 165 | 111 | 24 |

| 5 | Time of sowing | 46 | 173 | 81 |
|----|---------------------------------------|-----|-----|-----|
| 6 | Plant to plant and row to row spacing | 79 | 162 | 59 |
| 7 | Fertilizer management | 141 | 80 | 79 |
| 8 | Irrigation management | 41 | 196 | 63 |
| 9 | Weed management | 62 | 168 | 70 |
| 10 | Time of harvesting | 38 | 160 | 102 |
| 11 | Pest management | 78 | 154 | 68 |

Output of this technology

Adopting of pulses cultivation of new varieties Vaishali, Meha, Gram (GG-3) by farmers of Navsari, Jalapor, Vansda and Chikhli talukas are increased significantly.

The feedback received from the farmers' stated that pulses varieties Vaishali, Meha, Gram (GG-3) by performed better (25-40% higher yield) than traditionally grown varieties.. It creates positive effect on farmers and there is a demand for seeds of these varieties from farmers.

Out Put of Trainings: On the basis of pre and post training Evaluation

- Remarkable increase in knowledge of farmers regarding new varieties of pulses Therefore, 31 per cent farmers have adopted these new varieties.
- Line planting in paddy: It was a traditional practice of random planting of pulses field. After continues efforts of KVK by training and demonstration, 50 % farmers are now adopting the line planting in their field.

| Sr. | Name of technology | Extent of adoption | Reasons for formal adoption |
|-----|-----------------------------|--------------------|------------------------------|
| No. | | in % (approx) | |
| 1 | New variety of pulses | 31 | Improve the productivity and |
| | Vaishali, Meha, Gram (GG-3) | | less incidence of pest and |
| | | | disease |

Output of Frontline Demonstrations

| Sr.No | Name of crop | Varierty | Outcome of Various FLD |
|-------|--------------|----------|--|
| 1 | Pigeon pea | Vaishali | • Farmers have adopted new varieties. |
| | | | • Farmers get 25-40 per cent more yield than those cultivation. |
| | Greengram | Meha | Application of seed treatment with fungicide and bioifertilizers. Farmer are came to know the importance |

| Chick pea | GG-3 | of seed and avoid the broad casting method of sowing. |
|-----------|------|---|
| | | About 70% farmer came to know about the importance |
| | | of variety of pulses in seed production |
| | | New variety gave higher yield as compared to local. |
| | | |

D. Lively hood and nutrional security increased through inland fisheries Technologies

(IFTs):- Two

| Crop for which | Innovative | Average yield for the | Current Season |
|-----------------------|-----------------------|---|----------------------------|
| IFT was Developed/ | Farming Technology | Operational Area in the Current Season | (Rabi 2013- 14) |
| Disseminated | (IFT) | (Kg/Acre) Rabi-2012-13 | 14) |
| Fresh water fish | Inland | Total 158 farmers of 13 | At present Inland |
| (Catla, Rohu, | Aquaculture in | village ponds covering about | aquaculture activities are |
| Mrigal and exotic | village ponds. | 41 ha area in 6 villages are | being carried out through |
| carps) | | benefited. They were provided | KVK in six villages. It |
| | | all technical information and | has encouraged and built |
| | | knowledge along with all | up the confidence among |
| | | inputs Fish seed, Feed and | farmers of surrounding |
| | | Feed supplements for fish | more than 30 villages |
| | | production | and about 40 ponds are |
| | | A11 :- 12001 /l | actively engaged in fish |
| | | Av. yield is 1200kg/ha | farming. |

D 1. Explanation of IFT disseminated

Inland Aquaculture (Fresh water Fish culture) in Village ponds

Back ground information

Navsari District falls under south Gujarat heavy rain fall zone. More than 600 village ponds exist in this District. Majority of the village ponds are infested with aquatic weeds and siltation. Many of them are being utilized only for domestic and minor irrigation purpose and very few are used for traditional fish farming. Awareness about utilization of village ponds for inland aquaculture being created among the farmers to earn their livelihood by imparting training on scientific fish farming along with providing front line demonstration of improved varieties of fish seed and fish feed and supplements. Now awareness creating and skill

developing works are continued by selecting new clusters of beneficiaries and village ponds for increasing inland fish production, socio-economical development of poor segment of society and horizontal distribution of the knowledge of inland aquaculture through trained beneficiaries.

Intervention

The project was aimed to motivate small and marginal fish farmers to develop opportunity for earning their livelihood through scientific fish farming. Six villages viz., Ancheli, Matwad, Sultanpur, Pathri and Sadlav of Navsari District were selected for the purpose. The project was implemented in the village ponds of the about 41 ha area. Total 13 SHGs groups including 3 SHGs of female and 10 SHGs of male farmers comprising 158 were selected as beneficiaries of all categories.

Many beneficiaries of the project were unknown about fish farming and its culture technology. Main objectives of the project were to create awareness on fish culture practices for efficient utilization of village pond by adopting scientific culture technology among the farmers. To increase production and productivity of fish, ultimately leads to enhance the income and creating opportunity for earning livelihood. The whole project was divided into three phase 1. Training 2. To deliver recommended inputs of fish culture as demonstration 3. To involve beneficiaries directly in fish culture activities

Technology

The farmers were provided with training on various courses of inland fish culture such as pond preparation, water quality management, fish feed and nutrition, Fish disease and health management, prawn farming and integrated fish farming extensively to beneficiaries and other those were interested in inland aquaculture. Thus over all 23 such trainings were organized during the project period covered about 549 beneficiaries. As per the scientific recommendation and method, all village ponds were prepared for fish seed stocking. The physico-chemical parameters of the ponds were measured. Application of lime was done according to the water pH of the pond. Farmers were advised to use cow dung of their own cattle farming in order to increase the primary productivity and to avail natural fish food for fish seeds to be stocked for rearing.

Indian major carps such as catla, Rohu, Mrigal and exotic carps such as grass carps, silver carps and common carps were decided to be stocked for rearing. Before stocking the

fish into ponds all the groups were trained on method of fish stocking and fish feed management. About 13 ponds of about 41 ha areas were stocked with above species as per recommended ratio and rate. When pond water became light green in colour was stocked with fish seed measuring more than 60 mm size comprising catla,Rohu,mrigal,grass carp 2:1:1:1 ratio @ 3500 Nos per ha. Members of this group were explained well about fish species composition and suitable recommended ratio of fish seed along with grass carp stocking an important species acting as pond cleaner feeding voraciously on aquatic grass, weeds and algae.

Members of four groups of beneficiaries have already been engaged in fish culture activities using traditional method. They were not aware about the proper scientific ratio of fish species for stocking. They did not have idea about pond preparation, eradication of predatory and miscellaneous fish. They were feeding the fish with feed containing low level protein. Many farmers didn't have ideas about natural food of fish. Earlier they were providing fish with rice flake crunch (Pauva kani) and Maida kusaki which content very low level protein. During the project most of the farmers were trained and made them well aware about pond water maturing and fertilization in order to produce natural food of fish called phytoplankton and zooplankton. Moreover they were trained well about balanced diet of fish for proper growth and ingredients of fish feed.

The farmers were trained well about standard method of fish feeding, recommended dose of feeding rate, feed check tray, biomass estimation etc. Farmers were provided with fish feed and feed supplements such as minerals mixture, probiotics, vitamins and fish growth promoters as per scientific recommendation. Water quality plays a vital role in fish production. So initially all farmers were explained thoroughly regarding physic-chemical parameters of water. In addition they were trained well about measures to be taken during sudden change in physico- chemical parameters such as depletion in dissolved oxygen, change in pH etc. They were provided with dissolved oxygen enhancer tablets which could be used during depletion of oxygen level in water.

During the project period and till now also all the ponds have been visited frequently by KVK scientist. In emergency scientist of KVK reached to ponds to rectify the technical problems emerged.

Most of the groups have harvested fish partially from their ponds. Encouraging results were observed in Sadlav, Aat and Sultanpur village ponds in partial harvesting of

fish. The group of Sadlav village harvested about 9800 kg fish and earned about rupees 10 lakhs from 6 ha water spread area in partial harvesting of fish, where as in Aat and Sultanpur about 1500 kg and 455kg fish have been harvested respectively. Remaining fish stock of Sadlav and other villages have to be harvested after winter. As per the biomass estimation still about 2 ton fish stock is available in Sadlav village pond. Very appreciable results are observed in Sadlav . Pathari, Ancheli, Sultanpur and Aat villag ponds. Moreover separate one rearing and grow out ponds have been constructed by removing undulating land, leveling bottom and constructing earthen embankment in village pond of Sadlav. As a result more production can be accessed by rearing fingering to yearling. Dr. S. Ayyapan, Hon'ble Director General (ICAR) and Dr. Meenakumari, DDG (Fisheries) had visited Sadlav village pond and observed fish culture activities being carried out by KVK in June 2013.

Horizontal spread of technology

At present Inland aquaculture activities are being carried out through KVK in six villages. It has encouraged and built up the confidence among farmers of surrounding more than 30 villages and about 40 ponds are actively engaged in fish farming.

Conclusion

This project not only created awareness of fish culture in village ponds of selected villages but also encouraged and built up the confidence among the surrounding more than 30 villages and as a result about 40 ponds now are actively engaged in fish farming. As per estimated available biomass, there will be 25 to 32% increase in fish production in Pathari, Sadlav and Ancheli village ponds. Farmers have adopted Grass carp cultivation technology along with IMC in village ponds and it increased by 200%. SHG group of women are working well in many villages. Women SHG group of Sultanpur village has harvested about 455 kg fish from 0.75 ha pond and about 1200 kg more fish stock has to be harvested. Moreover the IFT Inland Aquaculture in village pond helped to reduce salinity in the area, facilitate supplementary irrigation and improve ground water level by storing runoff water in the area.

Enquires for fish cultivation in village ponds increased by 400% as a horizontal spread of Inland aquaculture activities. The ponds and beneficiaries of the project are located at different places and direction of Navsari District, but now they are remain in contact with

each other and transferring their ideas of fish culture and getting solution by their own due to common platform provided by KVK. This is one of the major achievements of the project.





On campus Training





Off campus training





Mahila Shibir on integrated fish farming





Farmer scientist interaction





New technology demonstration of "Bag Feeding" in village pond:









Use of boat in village pond for fish feeding





Field visits









Exposure visit at CIFA Bhubaneshwar, CIFRI Kolkatta and Pantnagar













Planning commission member and District Collector visit at Pathari









Hon. agriculture minister's visit at Pathari & interaction with farmers





Dr. S. Ayyapan, Hon'ble Director General (ICAR) and Dr. A. R. Pathak, Hon'ble vice chancellor, NAU visit to village pond at Sadlav





Fish harvesting









Impact of Successful demonstration –Inland Aquaculture

| impact of Successful demonstration | n – Imanu Aquacunure |
|--|---|
| Before KVK intervention | After KVK intervention |
| 1. Very old non used ponds in about 4.3 ha. | 1. The old non used ponds have been |
| area. | renovated and converted into 3 nursery, 3 |
| | rearing and 3 grow out ponds under holistic |
| | development RKVY project. |
| 2. Few ponds were used for fish farming by | 2. Fish farmers of Samarpan group have been |
| old traditional way of stocking and feeding. | given 50000 fish fry of Catla, Rohu, Mrigal |
| | for seed rearing and 3500 fingerlings and |
| | 8850 yearling for fish farming demonstration. |
| | Moreover 8000 fresh water prawns have been |
| | given for polyculture fish farming |
| | demonstration. |
| 3. About 3.2 ton fish production. | 3. About 8.2 ton production |
| 4.Income 3.0 lakh | 4. Income about 10.10 lakh from fish and seed |
| | production. |
| 5. Net profit: 1.08 lakh | 5. Net profit: 7.80 lakh. About 236% increase |
| | in production and 622% increase in profit due |
| | to renovation and active involvement of |
| | farmers in multi fisheries such as seed rearing |
| | and fish farming activities through scientific |
| | way. |

Successful demonstration of fish farming in the village of Navsari District under RKVY project

| Before KVK intervention | After KVK intervention |
|--|---|
| 1. Very few village tanks of the Navsari | 1. Total 158 fish farmers of 6 villages |
| District were used were used for fish farming. | covering about 41 ha area of 13 village tanks |

| | were benefited. |
|---|---|
| 2. Average yield 800 kg ha from village tanks. | 2. Average yield of about 1200 kg/ha from |
| | village tanks. |
| 3. Fish farming with traditional way without | 3. Adopted scientific method of fish farming |
| maintaining proper fish stocking ration and | and followed scientific recommended fish |
| density. | stocking ratio 3:3:3:1 catla, Rohu, Mrigal, |
| | Grass carp. |
| 4. Non adoption of grass carp. Firm belief of | 4. Adopted grass carp fish stocking for |
| stocking huge number of only catla | maintaining water quality in village tanks. |
| | About 200% increase in adoption of grass |
| | carp culture in village tanks. |
| 5. Use of tradition fish feed such as paua kani | 5. Farmers have adopted the feed of more than |
| and rice bran only | 20% protein using locally available |
| | ingredients. |
| 6. Farmers were not aware about Water | 6. Adopted pond maturing and water |
| quality management and natural fish food | fertilization for primary production |
| development by triggering nature productivity | subsequently natural food for fish. Thus |
| in ponds through maturing and fertilization. | increase in 50% productivity and 42% in |
| | profit. |

E. CROP DIVERSIFICATION THROUGH SHORT DURATION HIGH VALUE SWEET CORN CULTIVATION

Back ground information

Vansda and Chikhali taluka is tribal dominated and located about 60 km away from Krishi Vigyan Kendra, NAU, Navsari. Total geographical area of this taluka is 59972 ha. Out of which net cultivated area is about 30710 ha. and irrigated area is 6721 ha. which is mostly irrigated by tube wells. The major crops of the villages are transplanted paddy, *tur*, drill paddy and sorghum in *Kharif* while black gram and some vegetables in rabi season.

Intervention

In the year 2010, KVK, Navsari has adopted 8 villages of Vansda taluka. In first year, all subject matter specialist of KVK conducted PRA in this village and found the technological adoption gap in agricultural crop is wide and identified thrust area.

Considering the situation, KVK scientists interacted with farmers and suggested to replace some low remunerative field crops with high value vegetable crops. Interested farmers were invited to KVK and scientist gave detail information regarding scientific cultivation of field

crops and motivated to grow vegetables. The interested farmers were also visited NAU campus farm for motivation.

Among trained farmers, few of them demanded for low water consuming, short duration and fodder supplement crop for their animal.

Technology

KVK scientist had selected few interested young farmers from 14 villages of Vansda and Chikhli taluka and conducted training programme on scientific cultivation of sweet corn for crop diversification at village level. The interested farmers came forward and motivated for cultivation of new crop. KVK scientist gave 6 on campus training to 569 farmers. They visited 38 diagnostic and demonstration plot visit and gave guidance to 699 farmers. Krishi Vigyan Kendra, Navsari had also organized a shibir on Awareness Programme on sweet corn farming, which was attended by 389 farmers. KVK had given demonstration on sweet corn to 500 farmers of Vansda and Chikhali Taluka of Navsari districts. For diverting them from low value crops toward short duration high valued (income) crop, KVK supplied all the input required for cultivation of sweet corn and detail technical guidance to all farmers.

KVK, Navsari has bridged a gap between farmers and market traders by signing MoU with highly reputed Saraf food Ltd. Vadodra industries. Usually said, that because of un assured marketing of farm produce, farmers do not get satisfied with economic returns. In this direction, KVK Navsari has put its first step. With the help of Rashtriya Krishi Vikash Yojna, total Rs.27.00 lakhs of fund was allotted to KVK, Navsari for the betterment of tribal farmers by cultivating new crop in the area of South Gujarat. KVK, Navsari convinced the farmers to cultivate sweet corn which is short period crop with high demand in urban areas. For this KVK, Navsari has formed farmers committee from each village and identified committee leaders to sign the MOU for contract farming with Saraf Food Pvt. Ltd. Vadodra (2012-13). For implementation of this project, 500 farmers are selected and given good quality seed and other necessary technical guidance as well as critical inputs during 2012-13 and covered 250 acre. Many farmers did their best efforts to produce good quality sweet corn as per the terms and conditions of Saraf Food Pvt. Ltd. industries and got good income. In the MOU, major weight age was put on quality of the final product. According to terms in MOU, the weight of each sweet corn cob should be minimum 250gms and should have proper moisture content and if these standards are maintained farmers will be paid 6 Rs. per kg of sweet corn. However, with the help of this MOU, it became possible to divert farmers to cultivate new crops to satisfy the demand of global market and got good return. In terms of economical benefits, many famer get net income of Rs. 35,000 per acre or more. Total production of sweet corn cob and fodder yields were 1500 and 1200 tones and total revenue generated from this crop 102.00 lakhs. Which is generally more as compared to other cultivated crops during *rabi* season. Farmers also produced sufficient quantity of fodder to supply the demand of animal. After harvesting the sweet corn, crop residue was used as fodder to feed milch animals and fulfilled the need of green fodder which is pretty difficult to get in the summer. This also has added economical benefits for the farmers. Therefore, farmer realized about the importance and scientific cultivation practices of short duration high value sweet corn crop.

Overall outcome of this MOU was excellent and farmers have shown their interest to sign other MOU in future for new crop with the help of KVK, Navsari. In this way KVK, Navsari has established good rapport in tribal area.

Horizontal spread of technology: Presently, total 475 farmers are self motivated and started to cultivate sweet corn in 237 acer area during *Rabi* season. Farmers are more interested to cultivate sweet corn because it gives more income and fodder within short time, than traditionally grown crop.

Conclusion

The sweet corn cultivation is highly profitable in tribal dominated area of the Navsari district. This crop is also advisable to the farmers who have animals. At the end we can suggest this crop in the region to increase the income of the tribal farmers.







Kretts distribution



Transportation of sweet-corn



Khedut shibir programme on sweet corn





Field day on sweet corn

Sweet-corn cultivation in tribal area in the year 2010-2015

- ➤ 49 per cent of the tribal population is exists in Navsari district
- > Two tahasil are dominated in Navsari district with highest number of tribal population
- Farmers of that area usually growing low value crop like gram, tur, paddy and urd etc
- ➤ After Kharif season they face lot of problem in irrigating the crop
- ➤ 90 days short duration crop/ high value crop because of scarity of water

Four year activity of sweet corn

Table: 1 Different types of extension activities and beneficiaries of sweet corn during four year

| Year | Area (ha) | Benef's | No.of trainin g | Benefitte d | Scientis t visit to farmers field | No. of farmer s present | No.of Awarene ss camp | Farmers present | MOU |
|---------------|-----------|---------|-----------------------|----------------|--|-------------------------|-----------------------------|-----------------|---------|
| 2010- 2011 | 49.2 | 126 | 3 | 326 | 23 | 621 | 1 | 300 | VADILAL |
| 2011- 2012 | 73.4 | 367 | 8 | 570 | 24 | 410 | 2 | 480 | VADILAL |

| 2012- | 32.4 | 160 | 4 | 168 | 5 | 204 | 1 | 340 | SHARAF |
|-------|------------|-----|----|------|----|------|---|------|---------|
| 2013 | ÿ 2 | 100 | | 100 | J | | - | 0.0 | |
| 2013- | 14.4 | 72 | 3 | 90 | 3 | 60 | - | _ | VADILAL |
| 2014 | | - | | | | | | | |
| 2014- | 25.0 | 245 | 4 | 340 | 14 | 98 | 3 | 324 | VADILAL |
| 2015 | | | | | | | | | |
| TOTAL | 194. | 970 | 22 | 1494 | 69 | 1393 | 7 | 1444 | |
| | 4 | | | | | | | | |

Total Revenue Generated From 5 Years

Table 2: Total revenue generated of sweet corn during four year

| Year | Corn production (Kg) | Income (laks) | Fodder production | Income generated in fodder | Total revenue generated (laks) |
|---------|----------------------------|------------------|----------------------|----------------------------------|--------------------------------------|
| 2010-11 | 497412 | 29.84 | 393600 | 7.48 | 37.32 |
| 2011-12 | 740606 | 44.43 | 587200 | 5.54 | 23.62 |
| 2012-13 | 352000 | 21.12 | 262400 | 4.99 | 26.11 |
| 2013-14 | 172800 | 11.23 | 129600 | 2.46 | 13.69 |
| 2014-15 | 259375 | 16.86 | 238625 | 4.42 | 21.28 |
| Total | 2022193 | 123.48 | 1611425 | 24.89 | 122.02 |

- Krishi Vigyan Kendra made MoU with Vadilal and Sharaf foods for assured market for the sweet corn growers
- 76 per cent of the farmers adopted sweet corn cultivation in tribal area
- Due to high income farmers shown interested in cultivating this crop
- KVK is doing efforts to make more MoU with other industries for the benefit of the farmers
- Total Revenue Generated Rupees 122.02 Lakh

F. Strengthening Livelihood among Livestock Owners

Objectives:

1. On campus and off campus training and demonstration for scientific calf rearing

- 2. Demonstration and training to prevent embryonic mortality during pregnancy and neonatal calf morbidity and mortality during early age
- 3. Educating livestock owners regarding benefits about proper vaccination schedule and its monitoring in adopted villages
- 4. Impact analysis comparing adoption rate between technologically supported and unsupported villages.

Table1: Different extension activities conducted in live stock activity

| Sr. No | Type of Training | No. of training | Beneficiary | | Total |
|--------|------------------|--------------------|-------------|--------|-------|
| | | | Male | Female | |
| 1. | on campus | 4 | 91 | 79 | 170 |
| 2. | off campus | 35 | 550 | 835 | 1385 |
| 3. | Pasupalan shibir | 2 | 57 | 62 | 119 |
| 4. | FLD training | 4 | 32 | 53 | 85 |
| | TOTAL | 45 | 730 | 1029 | 1759 |

Table 2: Animals registered in the project:-

| Sr. No. | Village | PHASE-1 (2010-11) | | PHASE-2 (2011-12) | | TOTAL | |
|------------|------------|-------------------|---------|-------------------|---------|-------|---------|
| | | Cow | Buffalo | Cow | Buffalo | Cow | Buffalo |
| 1 | Limzar | 45 | - | 15 | 3 | 60 | 3 |
| 2 | Kavdej | 52 | - | 43 | 8 | 95 | 8 |
| 3 | Kalthan | 49 | 23 | 2 | 2 | 51 | 25 |
| 4 | Pathari | 44 | - | 68 | - | 112 | - |
| 5 | Vandarvela | 15 | 27 | - | - | 15 | 27 |
| 6 | Karakhat | - | - | 3 | 64 | 3 | 64 |
| 7 | Mahuvas | - | - | 53 | 14 | 53 | 14 |
| 8 | Panar | - | - | 31 | 7 | 31 | 7 |
| 9 | Nani karod | - | - | 28 | 16 | 28 | 16 |
| | Total | 205 | 50 | 243 | 114 | 448 | 164 |

IMPACT:

Effect on milk yield and fat percent

The animals registered under the project in first phase (2010-11) and completed lactation are analyzed and observed the following results.

Table 3: Effect on milk production (cow)

| Std. lactation Before | | After | | Change | | |
|-----------------------|--------|---------|--------|---------|--------|---------|
| Yield (lit.) | No. of | Percent | No. of | Percent | No. of | Percent |
| | animal | | animal | | animal | |
| <2000 | 53 | 33 | 18 | 11.25 | -35 | -21.75 |
| 2000-3000 | 102 | 63.75 | 101 | 63.13 | -1 | -0.62 |
| 3000-4000 | 5 | 3.13 | 36 | 22.05 | +31 | +18.92 |
| >4000 | - | - | 5 | 3.12 | +5 | +3.12 |
| Total Animal | 160 | 100.00 | 160 | 100.00 | | |

Majority of the livestock owners rearing crossbred cows. Before, the registration of animals produce less milk and the reason behind this was poor nutrition and lack of scientific management. Before implementation of the project, 33% of the animals have produced less than 2000 lit. milk and majority (63.75 per cent) have produced between the ranges of 2000-3000 lit. in 10 month of lactation period. After the proper feeding and scientific management through the project the low producing animals decreased up to 22 per cent and high producing (>3000 lit.) animals were found increased to the tune of 25 per cent.

Table4: Overall change in milk production (Cow)

| Sr. | Trait | Before | | A | Changa | |
|-----|----------------|---------|-------|---------|--------|---------|
| no | Trait | Mean | SE | Mean | SE | Change |
| 1 | Std. lactation | 2158.83 | 38.93 | 2707.81 | 44.65 | +548.98 |
| | yield (Lit.) | (160) | | (160) | | |
| 2 | Fat % | 3.76 | 0.034 | 4.72 | 0.037 | +0.96 |
| | | (160) | | (160) | | |

Average milk production is increased by 549 lit per animal during the reporting period of 10 months lactation in cows of five villages i.e. 1.83 lit milk is increased per animal per day.

Table 5: Effect on milk production (buffalo)

| Std. lactation | Before | Before | | After | | |
|----------------|---------------|---------|---------------|---------|---------------|---------|
| Yield (lit.) | No. of animal | Percent | No. of animal | Percent | No. of animal | Percent |
| <2000 | 19 | 48.71 | 10 | 25.64 | - 10 | -23.07 |
| 2000-3000 | 20 | 51.29 | 24 | 61.53 | +4 | +10.24 |
| >3000 | - | - | 5 | 12.82 | +5 | +12.82 |
| Total Animal | 39 | 100.00 | 39 | 100.00 | | |

From the results it can be concluded that after implementing the project low producer buffalo (2000 lit.) were reduced to 26 per cent and high producer buffaloes are (>2000 lit.) increased up to 74 per cent.

Table 6: Overall change in milk production (Buffalo):

| Sr. | Trait | Before | Before | | After | |
|-----|-----------------------------|--------------|--------|--------------|-------|---------|
| no | | Mean | SE | Mean | SE | Mean |
| 1 | Std. lactation yield (Lit.) | 1895.61 (39) | 69.43 | 2388.53 (39) | 79.30 | +492.92 |
| 2 | Fat % | 6.34 (39) | 0.09 | 7.60 (39) | 0.11 | +1.26 |

From the results, it can be seen that an average milk production is increased by 493 lit per animal during the reporting period of 10 months lactation in buffaloes of two villages i.e. 1.64 lit milk is increased per animal per day.

Table 7: Effect on fat percent (Cow)

| Fat % | Before | | After | | Change | |
|--------------|---------------|---------|---------------|---------|---------------|---------|
| | No. of animal | Percent | No. of animal | Percent | No. of animal | Percent |
| <3 | 5 | 3.13 | - | - | -5 | -3.13 |
| 3-4 | 138 | 86.25 | 2 | 1.25 | -136 | -85 |
| 4-5 | 15 | 9.38 | 142 | 88.75 | +127 | +79.37 |
| >5 | 2 | 1.25 | 16 | 10 | +14 | +8.75 |
| Total Animal | 160 | 100.00 | 160 | 100.00 | | |

Before implementation of project majority i.e. 86 per cent cows were in the range of 3-4 per cent fat while after proper feeding and scientific management it was found that 89 per cent cows have produced fat in the range of 4-5 per cent. Results shows average 1 per cent increased in milk fat.

Table 8 : Effect on fat per cent (Buffalo)

| | Before | | After | | Change | |
|--------------|---------------|---------|---------------|---------|---------------|---------|
| Fat % | No. of animal | Percent | No. of animal | Percent | No. of animal | Percent |
| <5 | 1 | 2.56 | 1 | 2.56 | 0 | 0 |
| 5-7 | 38 | 97.43 | 5 | 12.82 | -33 | -84.61 |
| >7 | - | - | 33 | 84.61 | +33 | +84.61 |
| Total Animal | 39 | 100.00 | 39 | 100.00 | | |

Similarly, 97 per cent buffalo were in the range of 5-7 per cent fat while after proper feeding and scientific management it was found that 84 per cent buffaloes have produced fat above 7 per cent fat in milk.

Table 9: Results of other parameters:

| No. | Trait | Before | After |
|-----|-----------------------|-------------------|---------------------------------|
| 1 | Birth Wt. | Low | Good |
| 2 | Calf growth | Poor | Good |
| 3 | Calf mortality | 16 % | 11 % |
| 4 | Expulsion of Placenta | More than 8 hours | Become normal within 4 Hours |
| 5 | Post partum heat | Delayed | Majority within 3 month |
| 6 | Inter calving period | > 16 month | 14-15 month |
| 7 | Health of dams | Poor | Improved |

Under the project of scientific management of calf rearing 9 villages are adopted and 616 pregnant animals are registered. The animals selected under this project are producing 2 to 3 lit more milk than earlier. Approximately 1-1.5 % fat also increased in most of the cases. Earlier gap between two calves i.e. calving interval and dry period were very wide but after the implementation of this project most of the animal came in to heat at 1-1.5 month after calving and most of them are pregnant today. Born calves are also having good health.

Scheme: Rastriya Krishi Vikas Yojna(Promoting scientific management of pregnant dams and calves for strengthening livelihood among live stock owners)

Beneficiary: Induben Ravishankarbhai

Patel, Address: At post- Kalthan, Taluka-Jalalpore, Dist: Navsari,

Contact Number: 02637- 229222

Induben Patel, she engaged in animal husbandry since child hood her father maintains a livestock in the village. Presently she have four buffalos and two cows. Earlier she was doing animal husbandry in customary way so she was not getting good earnings and the purpose of animal keeping was just to fulfill the family needs. She came to know the benefit of rearing of milk animals and the role of those live stock in increasing the nutritional status as well as income of the family. Recently, she is in contact with Krishi Vigyan Kendra, Navsari and her own buffalo was registered in the KVK for proper maintenance as it was 7 months pregnant



Many livestock owners of this village were also benefitted under this scheme. In this project, beneficiary received valuable guidance of Dr. M. A. Kataria and time to time our animal checkup was also carried out by him. We learnt the management of animals like grooming, colostrums feeding to new born calf and steaming up technique in pregnant animals. We were also given first aid kit, mineral mixture, liquid calcium, anthelmentic tablets etc. All these things have improved the health of animals and animal mortality rate is also decreased. Before registered in this project, buffalo was giving 7 liters of milk and fat per cent was 6-7 but after registration in this project and due to the guidance and inputs provided by scientists presently buffalo gives 10- 11 liters of milk and fat per cent is increased up to 8-9. "The credit of this success goes to Krishi Vigyan Kendra, Navsari, and its staff and for this I am very much thankful to them". She said.





Net Earnings: Rs. 35000/-



Animal Health Camp



Calf Rally



Diagnostic Visit





Literature Publication





Film Show





On Campus Training





OFF Campus Training





Technology Demonstration





Input Kit Distribution

G. Nutrition security through kitchen garden

> Trainings (on /off campus)

| Sr | Year | Title of training | No. of | Gen | eral | SC | /ST | Gr | and to | tal |
|-----|---------|-------------------|---------|------|------|-----|-----|------|--------|------|
| No. | 1 ear | | courses | M | F | M | F | M | F | T |
| 1 | 2011-12 | Kitchen garden | 2 | 0 | 0 | 31 | 17 | 31 | 17 | 48 |
| 2 | 2012-13 | Kitchen garden | 2 | 0 | 0 | 0 | 60 | 0 | 60 | 60 |
| 3 | 2013-14 | Kitchen garden | 3 | 2 | 91 | 25 | 0 | 27 | 91 | 118 |
| 4 | 2014-15 | Kitchen garden | 1 | 0 | 45 | 0 | 0 | 0 | 45 | 45 |
| 5 | 2015-16 | Kitchen garden | 5 | 0 | 39 | 27 | 121 | 27 | 160 | 187 |
| 6 | 2016-17 | Kitchen garden | 6 | 230 | 196 | 0 | 0 | 230 | 196 | 426 |
| 7 | 2017-18 | Kitchen garden | 8 | 351 | 205 | 35 | 1 | 386 | 206 | 592 |
| 8 | 2018-19 | Kitchen garden | 9 | 681 | 164 | 14 | 13 | 695 | 177 | 872 |
| | Total | | 36 | 1264 | 740 | 132 | 212 | 1396 | 952 | 2348 |





On campus Training





Off campus Training

Photogaraph of Kitachgarden Year 2011 - 12





Year 2012 - 13





Year 2013 - 14





Year 2014 - 15





Year - 2015 - 16





Year - 2016 - 17





G. FORMATION OF NAVSARI ORGANIC FARMER CO-OPERATIVE SOCIETY (NOFCO)

Krishi Vigyan Kendra, Navsari organized Sajiv kheti Seminar on 28-07-2017 collaborated with Jilla Panchayat Navsari. About 119 farmers from organic group of Navsari district were participated in this farmer seminar. Dignitaries present in the function was Shri, Tushar Sumera, DDO, Navsari, Hon'ble Vice Chancellor, Dr. C. J. Dangaria, NAU, Navsari, Shri Jayantibhai Patel, chairman of NOFCO and Dr. C. K. Timbadia, Senior scientist and head, KVK, Navsari. In this seminar discussion about the formation of Farmer's produce organization and their benefit. NOFCO was proposed by DDO, Navsari. An exhibition was also arranged on Panchgavya preparation, organic products produce by farmers etc. At present more than 1000 farmers are active members of this association. This group of farmers were get to gather either on KVK campus and or farmers field to find out the problems and solution of the problems.





FORMATION OF ORGANIC FARMER CO-OPERATIVE SOCIETY (NOFCO)

32. Details of programmes implemented with convergence

| S. No | Name of the programme | Name of organization / Department | Impleme nting from the year | Amount realized (Rs. lakh) | No. villages and farmers benefited |
|----------|---|--|--------------------------------------|----------------------------|---|
| 1 | Balanced fertilizer in crop production | Fertilizer Association of India | 2012-13 | 0.50 | 18/200 |
| 2 | Processing and Preparatin of Value Added product | National Council Rural Institute (NCRI), Hydrabad | 2013-14 | 0.20 | 8/80 |
| 3 | Cancer Awareness progarmme | Manav Kalyankari Trust, Navsari | 2014-15 | 0.50 | 26/407 |
| 4 | International Women's Day | Late, Diwaliben Ukabhai Patel Sarvajanik Trust, Bardoli | 2015-16 | 6.00 | 62/5000 |
| 5 | Training on Petroleum Energy conservation | Petroleum Conservation Research Association, | 2015-16 | 0.20 | 18/84 |
| 6 | Cancer Awareness progarmme | Manav Kalyankari Trust, Navsari | 2015-16 | 5.25 | 25/414 |
| 7 | Pri -rabi Sammelan | Krushi Car Private Limited, Ahmedabad | 2016-17 | 1.50 | 14/900 |
| 8 | Seminar on Plant protection in organic farming | National Counicil Rural Institue (NCRI), Hydrabad | 2016-17 | 0.50 | 12/78 |
| 9 | Cancer Awareness progarmme | Manav Kalyankari Trust, Navsari | 2016-17 | 4.50 | 28/417 |
| 10 | Organic farming workshop | Manav Kalyankari Trust, Navsari | 2017-18 | 0.40 | 18/110 |
| 11 | Soil Health Day Celebration | KRIBHCO, Surat | 2017-18 | 0.30 | 17/75 |
| 12 | Cancer Awareness progarmme | Manav Kalyankari Trust, Navsari | 2017-18 | 4.00 | 23/545 |
| 13 | Cancer Awareness progarmme | Manav Kalyankari Trust, Navsari | 2018-19 | 5.00 | 20/500 |
| 14 | Oragnic farming certification procedure programme | Shri Mathurbhai Savani and GOPCA, Gandhinagar | 2018-19 | 0.50 | 32/200 |
| 15 | Preparation of organic manure from waste (Flowers and Pujapa of Lord Shree Ganesh festival celebration | Rotary club of Navsari, Vijalpor Nagrpalika, Navsari Nagrapalika | 2018-19 | 0.50 | 27/125 |

33. Details of externally funded projects if any

| S. No. | Name of the funding agency | Title of project | Implementing from the year | Funds received so far (Rs. lakh) |
|-----------|-------------------------------------|--|----------------------------|--|
| 1 | State Govt. RKVY | Popularizing newly released high yielding paddy variety | 2012-13 | 49.65 |
| 2 | State Govt. RKVY | Large scale management of fruit fly in fruit and vegetable crops | 2012-13 | 12.00 |
| 3 | State Govt. RKVY | Popularizing high yielding turmeric variety | 2012-13 | 17.00 |
| 4 | State Govt. RKVY | Crop diversification through high value sweet corn crop in tribal area | 2012-13 | 29.80 |
| 5 | State Govt. RKVY | Project on "improve the socio economic status of chiku farmers | 2012-13 | 26.15 |
| 6 | Tribal Sub Plan, Vansda, Navsari | Khet ojar | 2012-13 | 18.00 |
| 7 | Tribal Sub Plan, Vansda, Navsari | Sweet corn cultivation | 2012-13 | 5.00 |
| 8 | Tribal Sub Plan, Vansda, Navsari | Sweet corn cultivation | 2013-14 | 3.65 |
| 9 | Tribal Sub Plan, Vansda, Navsari | Sweet corn cultivation | 2014-15 | 5.00 |
| 10 | Tribal Sub Plan, Vansda, Navsari | Apple ber ni kheti | 2014-15 | 2.81 |
| 11 | Tribal Sub Plan, Vansda, Navsari | Black jamun kalam | 2014-15 | 3.34 |
| 12 | Tribal Sub Plan, Vansda, Navsari | Tadbhuch ni kheti | 2014-15 | 2.52 |
| 13 | Watershed management | Gujarat Water shade Development Project, Gandhinagar | 2014-15 | 5.00 |
| 14 | Tribal Sub Plan, Vansda, Navsari | Okra cultivation project | 2015-16 | 4.75 |
| 15 | Tribal Sub Plan, Vansda, Navsari | 1 kg Guava cultivation | 2015-16 | 3.22 |
| 16 | Tribal Sub Plan, Vansda, Navsari | Apple ber ni kheti | 2015-16 | 4.08 |
| 17 | Tribal Sub Plan, Vansda, Navsari | Black jamun kalam | 2015-16 | 1.78 |
| 18 | Tribal Sub Plan, Vansda, Navsari | Sweet corn cultivation | 2015-16 | 6.55 |
| 19 | Tribal Sub Plan, Vansda, Navsari | Khet ojar | 2015-16 | 5.64 |

34. Brief account of visibility of KVK in the district / operational area

A. Agriculture Live demo plots cum exhibition of advanced technology (Technology week)

Project Partner- NAU, ICAR, NABARD, NHM, State Agri. Dept., ATMA etc.

| Year | Programmes | No. of Participants |
|---------|--|---------------------|
| 2012-13 | Technical Session- 12 (6 Day) Exhibition (No. of Stalls)- 6 | 534 |
| 2013-14 | Technical Session- 10 (5 Day) Exhibition (No. of Stalls)- 7 | 612 |
| 2014-15 | Technical Session- 12 (6 Days) Exhibition (No. of Stalls)- 7 | 536 |
| 2015-16 | Technical Session- 10 (5 Days) Exhibition (No. of Stalls)- 10 | 489 |
| 2016-17 | Technical Session- 12 (6 Days) Exhibition (No. of Stalls)- 10 | 571 |
| 2017-18 | Technical Session- 12(6 Days) Exhibition (No. of Stalls)- 10 | 570 |
| 2018-19 | Technical Session- 10 (5 Days) Exhibition (No. of Stalls)- 24 Animal Exhibition & Live Demonstrations- 104 | 1430 |

B. MoU made marketing linakages and getting suitable price for agriculture products to overcome

| No. | MoU | Crop/commodity | Area |
|-----|-----------------------------|----------------------|----------------------------|
| 1 | Navsari Taluka Sangh, | Paddy, NAUR-1, GNR-3 | Seed production for |
| | Navsari | | popularize paddy variety |
| | | | in large area |
| 2 | Vadilal Industry, Ahmedabad | Sweet corn | For selling sweet corn cob |
| 3 | Sharaf Foods, Vadodara | | |
| 4 | Shree Krishna | Organic produce | Getting better price of |
| | Infrastructure,Mumbai | | organic products and to |
| 5 | Global organics, Surat | | promote organic farming |
| 6 | Gandhi Harit Samiti | Vermicompost | To prepare compost |
| 7 | New Holland | Training on | To increase the area under |
| | | Mechanization and | the farm mechanization |
| | | Infrastructure | |
| | | development | |

C. Different technologies/recommdation adopted by farmer's result in very good impact on farming community

| No. | Technology/Demonstration | % adoption |
|-----|--|------------|
| 1 | SRI technology of rice | 18% |
| 2 | Scientific cultivation practices of rice | 38% |
| 3 | Use of bioifertilizers in mango/sapota | 34% |
| 4 | Inland aquaculture | 24% |
| 5 | Promotion of organic farming | 12% |
| 6 | Clean milk production | 32% |
| 7 | Crop diversification through Sweet corn crop | 14% |
| 8 | Scientific cultivation practices of pulses | 31% |

35. Brief account of flagship programmes of KVK which has given it identity at state / national level with its impact on farming community

1. Celebration of International Women's Day during last eight years

| Sr no | Date | Place | No of woman Participated |
|-------|-----------|-----------------|-----------------------------|
| 1 | 9-3-2013 | KVK, Navsari | 2500 |
| 2 | 7-3-2014 | KVK, Navsari | 5000 |
| 3 | 24-3-2015 | KVK, Navsari | 3000 |
| 4 | 18-3-2016 | KVK, Navsari | 5000 |
| 5 | 18-3-2017 | NAU, Navsari | 883 |
| 6 | 28-3-2018 | KVK, Navsari | 900 |
| 7 | 8-3-2019 | Sindhai, Vansda | 600 |

International Women's Day 2012-13

Navsari Agricultural University, Navsari has celebrated International Women's Day (*IWD*) on March 9, 2013 in the office premises of Krishi Vigyan Kendra at Navsari. The main purpose of this program was to give proper guidance and information for farm women/women in their social, cultural, economic and health empowerment.

The inaugural function of this auspicious programme was graced by the Chief Guest Smt. Leelaben Ankoliya, Chairman, Mahila Ayog, Govt. of Gujarat, Gandhinagar in the solemn presence of Honb'le Vice-Chancellor Dr. A.R. Pathak; Director of Research & Dean P.G. Studies Dr. A.N. Sabalpara; Director of Extension Education Dr.H.J. Derashri; Programme

Coordinator, KVK Dr.C.K. Timbadia, Deans of different faculties, University Officers, of Navsari Agricultural University, Navsari, Representative of New Holland Fiat India, New Delhi and other dignitaries.

Smt. Leelaben Ankoliya, Chief Guest of the function, in her inspiring speech briefed about Mahila Ayog a constitutional body of Government of Gujarat through which the women are being empowered for improvement in health, education, self-employment and given social justice with appropriate rules & legal actions as well as new initiatives of Honb'le Chief Minister of Gujarat Shri Narendra Modi for the upliftment of rural women and children of down trodden communities. A booklet compiled by KVK, Navsari depicting all information of govt. schemes and projects for the benefit of common people has been released on this occasion and distributed to all for more awareness amongst the women and children.

On this occasion Dr.A.R.Pathak, Hon'ble Vice Chancellor, in his presidential speech quoted that the Government of Gujarat is taking keen interest in the primary education and health care of baby girl in particular and baby boy in general and also introduced many initiatives for women welfare including children for the betterment of the society. He said that the SAUs of Gujarat as per Government of Gujarat's directives are giving full exemption of fees for the education of female students admitted in all the courses up to the Ph.D programmes. He gave remarkable speech on girls' education, quoting the example of power of Nari Shakti in puranas and in history.

About 3000 women farmers from around 30 villages participated and benefitted through inspiring and spiritual lectures delivered by Smt. Gayatriben Vyas, Gujarat Vanvasi Kalyan Parishad, Baroda on the importance of *Vyasan mukti* (Addiction exemption), Dr. Kirtithaben Vaid, Professor, B.P. Baria Science College, Navsari, "Lecture on *Stri ane samaj*" (woman and society)' and Dr. Swatiben Naik, Professor, B.P. Baria Science College, Navsari, "Lecture on *Stri-tvani garima* (womanhood dignity)'. The cultural programmes like classical dance, cinematic dance, dramas as well as awareness programme of snakes' show of Forestry College & Wild Life Saving Group also made the event an attractive and enjoyable.

International Women's Day 2013-14

Krishi Vigyan Kendra, Navsari Agricultural University, Navsari has celebrated International Women's Day (*IWD*) on March 7, 2014 at Navsari. The main purpose of this program was to build capacity of women especially farm women their role in social, cultural, health and economic empowerment.

The inaugural function of this auspicious programme was graced by the Chief Guest Shri. Govindbhai Dholakia, Chairman RamKrishna export, Surat. Maheshbhai savani Chairman Savani group in the solemn presence of Dr. A.R. Pathak, Honb'le Vice-Chancellor; Inaugurator of the function Dr. Sandhyaben Bhullar IAS, District collector, Navsari, Dr. A.N. Sabalpara, Director of Research & Dean P.G. Studies; Dr.H.J. Derashri, Director of Extension Education; Mind trainer Dr. Jitendra Adhiya MD, Dr.C.K. Timbadia, Programme Coordinator, KVK; Deans of different faculties, University Officers, of Navsari Agricultural University, Navsari; and other dignitaries.





CELEBRATION OF INTERNATIONAL WOMEN'S DAY 9TH MARCH-2013





CELEBRATION OF INTERNATIONAL WOMEN 'S DAY- 7TH MARCH-2014





CELEBRATION OF INTERNATIONAL WOMEN 'S DAY- 24TH MARCH- 2015

Dr.Sandhyben Bhullar IAS, District collector, Navsari, inaugurator of the function, in her speech briefed about 'Power of vote' and role of women's in all the sectors including agriculture. On this occasion a booklet compiled by Dr. Jitendra Adhiya Mind trainer was distributed to all for more awareness amongst the women for their mind power and mental health.

On this occasion Dr.A.R.Pathak, Hon'ble Vice Chancellor, in his presidential speech said "Women play a critical role in the agriculture production, because agriculture merely not only involves production of food grains but also production of milk, egg, wool, silk etc, where women play a major role. Hence, women empowerment should not merely be a government agenda it should be in practice".

KVK has identified 20 women farmers including tribal women farmers in the district who has made remarkable achievement in the field of agriculture by scrutinizing committee. They are expert in 'Papadi' making, Value addition of the food products, *viz.*, Nagali biscuits, canned fruits and vegetables, Excellent Kitchen gardener and vegetable vendor etc. They are facilitated during the function. For this we received cash and product support from the big corporate bodies. It is a great congregation that the big corporate bodies and Krishi Vigyan Kendra came in single platform for the benefit of the women farmer by Public Private Participate mode.





INTERNATIONAL WOMEN'S DAY- 18TH OF MARCH 2016





INTERNATIONAL WOMEN'S DAY 18TH MARCH-2017





INTERNATIONAL WOMEN'S DAY 28TH
MARCH 2018

INTERNATIONAL WOMEN'S DAY 08TH
MARCH 2019

2. Follow up visit of farmer's field with help of Swargaya Dwaliben Ukabhai Patel Trust

- > Till now we have made more than 85 field visits in the tribal area. This has benefitted more than 850 tribal farmers
- This vehicle is very much helpful to follow up visit as well as demonstration plot visit in tribal area
- This vehicle available every Monday and Tuesday thorugh out the year since last four year.

| Sr. No. | Year | No of Visited Village | No. of Beneficiaries |
|---------|---------|-----------------------|----------------------|
| 1 | 2017-18 | 33 | 136 |
| 2 | 2018-19 | 38 | 118 |













Follwup visit of tribal farmers field

3. Use of ICT (Dial out conference) to dissonant the agriculture technology among the farming community.

- ➤ With help of reliance foundation, KVK Navsari arranged dial out conference on different aspects / technology of agriculture for the farming community without move/transfer for there work place.
- > It also helps to identify/receive the field level problem of farmers. At the time and easy manner.
- > KVK, Navsari conducted more than 35 dial out conference

| FARN | MER'S INTERACTION | ON DIAL OUT/AUD FOUNDATIO | | E WITH I | RELIANCE |
|--------|------------------------------|--|---|-------------|--------------|
| Sr.no. | Program | Subject | Name of Scientist | Months | Participants |
| 1 | Dial out conference | Urea Treatment of paddy straw crop | Dr. Timbadia & Dr. katariya | April 16 | 53 |
| 2 | Dial out conference | Seed production of Pigeon Pea | Dr. Timbadia & Dr. Shah | July 16 | 52 |
| 3 | Audio Conference | Seed production of Pigeon Pea | Dr. Timbadia & Dr. Shah | July 16 | 30 |
| 4 | Audio Conference | Seed production of Pigeon Pea | Dr. Timbadia & Dr. Shah | July 16 | 24 |
| 5 | Audio Conference | Seed production of Pigeon Pea | Dr. Timbadia & Dr. Shah | July 16 | 21 |
| 6 | Audio Conference | Package of practices in vegetable crop | Dr. Timbadia & Mr. Gurjar | July 16 | 13 |
| 7 | Audio Conference | Package of practices in vegetable crop | Dr. Timbadia & Mr. Gurjar | July 16 | 31 |
| 8 | Audio Conference | Package of practices in vegetable crop | Dr. Timbadia & Mr. Gurjar | July 16 | 34 |
| 9 | Thematic Awareness Programme | Seed production of Pigeon Pea | Dr. Timbadia & Dr. Shah | July 16 | 38 |
| 10 | Dial out conference | Awareness on Health | Dr. Timbadia, Ms. Dipalben & Dr. Kannar | Aug 16 | 36 |
| 11 | Dial out conference | Paddy farming through Sree method | Dr. Timbadia & Dr. Shah | Aug 16 | 31 |
| 12 | Dial out conference | Bio Fertiliser usage & importance | Dr. Timbadia & Mr. Gurjar | Aug 16 | 70 |
| 13 | Dial out conference | Scientific fish farming | Dr. Timbadia & Mr.P.P.Patel | Aug 16 | 51 |
| 14 | Audio Conference | pest and disease management in paddy | Dr. Timbadia & Dr. Shah | Aug 16 | 33 |

| 15 | Audio Conference | pest and disease | Dr. Timbadia & | Aug 16 | 56 |
|-------|---------------------|---------------------|----------------|---------|------|
| | | management in | Dr. Shah | | |
| | | paddy | | | |
| 16 | Dial out conference | Follow up of paddy | Dr. Timbadia & | Sep 16 | 31 |
| | | farming through | Dr. Shah | • | |
| | | SRI method | | | |
| 17 | Dial out conference | Organic farming | Dr. Timbadia & | Nov 16 | 47 |
| 17 | Diai out comerciae | Organic rarning | Dr. Shah | 1107 10 | 77 |
| 18 | Dial out conference | Pigeon pea seed | Dr. Timbadia & | Nov 16 | 47 |
| 10 | Diai out conference | production follow | Dr. Shah | 100 10 | 47 |
| | | ^ | Di. Silali | | |
| 10 | D' 1 | up | D TE: 1 1: 0 | T 17 | 26 |
| 19 | Dial out conference | Awareness on | Dr. Timbadia & | Jan 17 | 26 |
| | | breast cancer | Ms. Dipalben | | |
| 20&21 | Dial out conference | Women's Day | Dr. Timbadia & | March | 102 |
| | | celebration | Ms. Dipalben | 17 | |
| 22 | Dial out conference | Organic farming | Dr. Timbadia & | April | 40 |
| | | | Dr. Shah | 17 | |
| 23 | Dial out conference | Crop Management | Dr. Timbadia & | June 17 | 42 |
| | | | Dr. Shah | | |
| 24 | Dial out conference | pest and disease | Dr. Timbadia & | August | 47 |
| | | management in | Dr. Shah | 17 | |
| | | paddy | | | |
| 25 | Dial out conference | Horticulture Crop | Dr. Timbadia & | Nov 17 | 45 |
| | Diar out comercine | | Mr. Gurjar | 110717 | 10 |
| 26 | Dial out conference | Kitchen Garden | Dr. Timbadia & | Jan 18 | 55 |
| 20 | Diai out conference | Kitchen Garden | Mr. Gurjar | Jan 10 | 33 |
| 27 | Dial out conference | Women's Day | Dr. Timbadia & | Feb 18 | 24 |
| 21 | Diai out conference | • | | reb 18 | 24 |
| 20 | D' 1 | celebration meeting | Ms. Dipalben | 3.6 1 | ~ 4 |
| 28 | Dial out conference | Women's Day | Dr. Timbadia & | March | 54 |
| | | celebration | Ms. Dipalben | 18 | |
| 29 | Dial out conference | Fisheries | Dr. Timbadia & | April | 26 |
| | | | Mr.P.P.Patel | 18 | |
| 30 | Audio Conference | Crop Management | Dr. Timbadia | June 18 | 30 |
| | | and irrigation | | | |
| | | awareness | | | |
| 31 | Dial out conference | Crop Management | Dr. Timbadia & | June 18 | 40 |
| | | in Sugarcane | Dr. Shah | | |
| 32 | Dial out conference | Horticulture Crop | Dr. Timbadia & | June 18 | 30 |
| | | • | Mr. Gurjar | | |
| 33 | Dial out conference | Horticulture Crop | Dr. Timbadia & | July 18 | 40 |
| | | | Mr. Gurjar | | . 0 |
| 34 | Dial out conference | Fisheries | Dr. Timbadia & | july 18 | 39 |
| 34 | Diai out comercies | 1 151101105 | Mr.P.P.Patel | July 10 | 3) |
| | | | | | 1220 |
| | | | Total | | 1338 |





DIALOUT CONFERENCE WITH FARMERS

5. Organic Farming Promotional Programme

On Campus training on Organic Farming

| Sr. | Year | Title of training | No. of | SC | /ST | Otl | her | Tot | al | Grand |
|-----|---------|---------------------------------------|----------|-----|-----|-----|-----|------|-----|-------|
| No | | | training | M | F | M | F | M | F | Total |
| 1 | 2012-13 | On campus training on organic farming | 2 | 50 | 1 | 51 | 6 | 101 | 6 | 107 |
| 2 | 2013-14 | On campus training on organic farming | - | - | - | - | - | - | - | - |
| 3 | 2014-15 | On campus training on organic farming | - | - | - | - | - | - | - | - |
| 4 | 2015-16 | On campus training on organic farming | 2 | 10 | - | 65 | - | 75 | - | 75 |
| 5 | 2016-17 | On campus training on organic farming | 1 | - | - | 1 | 24 | 1 | 24 | 25 |
| 6 | 2017-18 | On campus training on organic farming | 7 | 236 | 18 | 206 | 15 | 442 | 33 | 475 |
| 7 | 2018-19 | On campus training on organic farming | 12 | 117 | 91 | 213 | 35 | 330 | 126 | 456 |
| 8 | 2019-20 | On campus training on organic farming | 3 | 48 | 10 | 76 | 51 | 124 | 61 | 185 |
| | | Total | 27 | 461 | 119 | 612 | 131 | 1073 | 250 | 1323 |





On Campus Training

Off Campus training on Organic Farming

| Sr. | Year | Title of training | No. of | SC | /ST | Otl | her | To | tal | Grand |
|-----|---------|--|----------|-----|-----|-----|-----|------|-----|-------|
| No | | | training | M | F | M | F | M | F | Total |
| 1 | 2012-13 | Off campus training on organic farming | 5 | 74 | 50 | 95 | 59 | 169 | 109 | 278 |
| 2 | 2013-14 | Off campus training on organic farming | 1 | - | - | 32 | 11 | 32 | 11 | 43 |
| 3 | 2014-15 | Off campus training on organic farming | 2 | - | - | 58 | 15 | 58 | 15 | 79 |
| 4 | 2016-17 | Off campus training on organic farming | 1 | - | - | 21 | 20 | 21 | 20 | 41 |
| 5 | 2017-18 | Off campus training on organic farming | 6 | 117 | 25 | 42 | 45 | 159 | 70 | 229 |
| 6 | 2018-19 | Off campus training on organic farming | 6 | 379 | 277 | 102 | 97 | 481 | 374 | 855 |
| 7 | 2019-20 | Off campus training on organic farming | 6 | 237 | 8 | 120 | 02 | 357 | 10 | 367 |
| | | Total | 27 | 807 | 360 | 470 | 249 | 1277 | 609 | 1892 |





Off campus training Organic farming

In-service training on organic farming for staff

| Sr. | Year | Title of training | No. of | SC/S | SC/ST | | her | Total | | Grand |
|-----|---------------|--|--------|------|-------|----|-----|-------|----|-------|
| No | | | traini | M | F | M | F | M | F | Total |
| | | | ng | | | | | | | |
| 1 | 2017- 2018 | In-service training on organic farming for staff | 1 | 31 | 5 | 28 | 6 | 59 | 11 | 70 |
| 2 | 2018- 2019 | In-service training on organic farming for staff | 1 | 19 | 9 | - | - | 19 | 9 | 28 |
| | | Total | 2 | 50 | 14 | 28 | 6 | 78 | 20 | 98 |





Inservice training on organic farming

Organic farming Seminar or Parisavaad

| Sr.No | Year | Title of training | No. of | SC | SC/ST | | her | Total | | Grand |
|-------|---------------|---------------------------------------|----------|-----|-------|-----|-----|-------|-----|-------|
| | | | training | M | F | M | F | M | F | Total |
| 1 | 2017- 2018 | Organic farming seminar or Parisavaad | 4 | 252 | 47 | 280 | 89 | 532 | 136 | 668 |
| 2 | 2018- 2019 | Organic farming seminar or Parisavaad | 3 | 65 | - | 153 | 3 | 218 | 3 | 221 |
| 3 | 2019- 2020 | Organic farming seminar or Parisavaad | 4 | 13 | 87 | 212 | 284 | 225 | 371 | 596 |
| 4 | | Total | 11 | 330 | 134 | 645 | 376 | 975 | 510 | 1485 |





Seminar on Organic farming

Organic farming Exposure visit

| Sr. | Year | Title of training | No. of | SC | /ST | Otl | her | To | tal | Grand |
|-----|-----------|--------------------------------|----------|----|-----|-----|-----|-----|-----|-------|
| No | | | training | M | F | M | F | M | F | Total |
| 1 | 2019-2020 | Organic farming Exposure visit | 9 | - | 35 | 139 | 59 | 139 | 94 | 233 |
| | | Total | 9 | - | 35 | 139 | 59 | 139 | 94 | 233 |





Exposure visit





Preparation of Panchgavya at Krishi Vigyan Kendra, Navsari





Demonstration of Vermi compost preparation on farmer's field





Demonstration of NADEP compost preparation on farmer's field and KVK

Table Farmers coveres under certified organic farming since three years

| Sr. No. | Name of technology | Approximate farmers adopted organic farming (No.) | Approximate farmers adopted organic farming (ha.) | Reasons for formal adoption |
|------------|--------------------|--|--|---|
| 1 | Organic farming | 50 | 65 | Reduce the cost of cultivation and produce good quality produce |

| 36. Brief account of KVK based on evaluation by external agencies including FPG | Os |
|---|----|
| FPCs / farmers clubs organized and facilitated by KVK | |
| | |
| Nil | |

37. Performance of KVK in respect of special programmes like NICRA, CFLD, Farmers First, ARYA, TSP, JSA, etc

Cluster Front Line Demonstration

| Sr. No. | Year | Crop | Area (Ha.) | Demonstrations | Silent Achievements |
|------------|---------|------------|---------------|----------------|-------------------------------|
| 1 | 2016-17 | Chickpea | 22.4 | 126 | Increase in yield by 35% over |
| 2 | 2016-17 | Green gram | 8 | 42 | control plot. |
| 3 | 2016-17 | Greengram | 32 | 150 | |
| | | (Meha) | | | |
| 4 | 2017-18 | Pigeon pea | 20 | 163 | |
| 5 | 2017-18 | Chickpea | 30 | 160 | |
| 6 | 2017-18 | Green gram | 20 | 100 | Increase in yield by 34.40% |
| 7 | 2017-18 | Greengram | 30 | 287 | over control plot |
| | | (Meha) | | | |

| 8 | 2018-19 | Pigeon pea | 31 | 163 | |
|----|---------|------------|----|-----|-----------------------------|
| 9 | 2018-19 | Chickpea | 20 | 159 | Increase in yield by 20.78% |
| 10 | 2018-19 | Green gram | 10 | 88 | over control plot |
| 11 | 2018-19 | Greengram | 21 | 167 | |
| | | (Meha) | | | |

38. Brief account of internal monitoring and review mechanism developed by KVK for its better performance and visibility in farming community

- 1. Monthly KVK review meeting by DEE
- 2. Weekly staff meeting for review of work done and future planning by Senior Scientist and Head
- 3. Quarterly meeting Vice Chancellor for overall progress of KVK
- 4. Scientific Advisory Committee meeting
- 5. ZREAC Meeting during Kharif and Rabi season
- 6. Every year social science AGRESCO meeting headed by VC, DR and DEE
- 7. Financial Internal audit at every month and Half Yearly audit by CA

39. Status of web and mobile based agro-advisory services provided by KVK

No. of Farmers registered to KVK- >1.00 lakh farmers

No. of Farmers registered to Mkisan- 2036

Year wise Advisory to Given to Farmers

| Activity | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 | 2017-18 | 2018-19 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|
| Text SMS | - | - | - | 250 | 362 | 28 | 59 | 55 |
| Vice SMS | - | - | - | - | - | - | - | - |

40. List of functional demonstration units at KVK with its capacity and output

| S. | Name of the functional demo. | Year of | Production capacity | Average net profit |
|-----|---------------------------------|---------------|---------------------|---------------------|
| No. | Unit | establishment | / year | per year (Rs. lakh) |
| 1 | Nursery | 2010-11 | 50000 | 0.25 |
| 2 | Micro irrigation | 2014-15 | 3 ha. | |
| 3 | Processing and value addition | | | |
| 4 | Protected cultivation | - | - | - |
| 5 | IFS model | | | |
| 6 | Dairy | | | |
| 7 | Poultry | | | |
| 8 | Goatary | | | |
| 9 | Rain Water Harvesting structure | 2011-12 | 37000 lit. | |
| 10 | Any other | | | |

41. Brief account on initiatives of KVK for handling major issues like,

(B) Fall army worm

Identification, Nature & symptoms of damage and management of FAW

Date: 08-10-2018

Farmers attended from: Ravaniya, Anklach & Karjai (Vansda Taluka)

Total Number of Farmers: 30





Microbial Pesticides: Beauveria bassiana

Date: 17/10/2018

Name of the villages: Bedmal and Ankalach

Ta: Vansda Dist: Navsari

Total no.of farmers: 70





Date: 19/10/2018

Name of the villages: Bamanvada and Naranpur

Ta: Chikhali and Khergam Dist: Navsari

Total no.of farmers: 38





Date: 20/10/2018

Name of the villages: Unnai-Charvi and Nanivalzar

Ta: Vansda Dist: Navsari

Total no.of farmers: 53





Date: 22/10/2018

Name of the villages: Signhdai and Karjai

Ta: Vansda Dist: Navsari

Total no. of farmers: 67





b. Pink bollworm in Cotton - NIL

c. White grub management - NIL

d. Drought / flood mitigation - NIL

e. Any other -NIL

42. Innovative extension approaches / innovative methodologies / innovative technologies developed / continued by KVK during last eight years

1. Gujarat Gaurav din: 2013

Innovations introduced in the programmes: Farmers displayed their own farming innovations and agriculture technologies in the programme

Government of Gujarat decided to celebrate 53rd Gujarat foundation day on 1st May 2013 as "Gujarat Gaurav din" at Navsari. On this 'Bhumi vandana'- A progressive farmers meet and agricultural fair was organized at Navsari Agricultural University, Navsari.

This programme was organized by Krshi Vigyan Kendra, Navsari. Progressive farmers of the Gujarat state participated in the programme. Around 6000 farmers were participated in the agri- innovative mela. They displayed there technologies, innovations and explained themselves to the other farmers. Interactions among the farmers were on through out the day. This idea was given by chief minister when the innovative farmers meet 2011 was organized he suggested disply farmers own findings. Gaurav din function was inaugurated by Hon'ble Naredra Modiji than chief minister of Gujarat state. He appreciated this innovative idea "Giving a single platform for Innovative and interested farmers togetherness". Best innovation technologies are identified and appreciated by the scrutinize committee and are felicitated during the function. This idea was highly appreciated by the chief minister and he took pioneer step in state level and organized "Vibrant Gujarat" where national level best famers of different states gathered in one roof.









2. Innovative farmer interaction meets

Innovations introduced: Interaction of farmer's who has done significant achievement in his field by adopting new technology provided by the university through extension workers

"Jai jawan, jai kisan" reminds us of the two important entities- soldier and a farmer. Farmers are the back bone of nation. Krishi vigyan Kendra, Navsari Agricultural University, Navsari celebrates Farmers' Day as well as Paddy seed production on 4th October, 2013 in the premises of Krishi vigyan Kendra, Navsari. "Kisan Divas" is reorganization of farmer's who has done significant achievement in his field by adopting new technology provided by the university and explained their achievements.

Nearly 300 farmers from different villages attended the event which includes farm women's also. Dr. A.R Pathak Hon'ble Vice-Chancellor of NAU graced the function. He addressed the congregation regarding techniques of paddy seed production especially the maintenance of pure seed material, time of rouging and selection of land for this purpose are most important.





3. An Awareness Programme on PPV &FRA

Innovations introduced: For the benefit of the farmer and to reach out maximum number of farmer the entire programme was live telecasted on N7 channel in the district and video conference was arranged in two adopted villages

Krishi Vigyan Kendra, Navsari Agricultural University, Navsari organized an awareness programme on Protection of Plant Varieties and Farmers' Right Act, on 21st October 2013 in association with PPV & FRA, Ministry of Agriculture, GOI, New Delhi. The inaugural function of this awareness programme was graced by Dr. R.R Hanchinal, Chairman, PPV &FRA, Government of India, New Delhi in the presence of Dr. A.R.Pathak, Hon'ble Vice- Chancellor; Dr. A.N Sabalpara, Directorate of Research & Dean P.G studies; Dr. H.J Derashri, Directorate of Extension Education; Dr. R.C Agrawal, Registrar General, PPV & FRA, New Delhi; Dr. Ravi Prakash, Registrar, PPV & FRA, New Delhi; Dr.C.K.Timbadia, Programme Coordinator and Dr. Minoo Parabia, Advisor, Ayurvedic College, Vagaldhara and other dignitaries.

Chief Guest of the programme Dr.R.R. Hanchinal felicitated the farmers' who has done significant efforts in conservation and development of local varieties. Shri Mangubhai C. Patel has conserved and developed local forest species in his village Ambach and his work has been recognized by the Government of Gujarat and awarded him as 'VAN PANDITH." And also DD Girnar Doordarshan, Ahmedabad awarded him as "KRSHI SHIROMANI", Shri Kashiram Birari native of Jamlapada has conserved and developed local Turmeric variety, Shri Rajeshbhai Gavith conserved and developed indigenous "mango" variety in Kavdej village and Shri Kishorbhai Babubhai, Padvi farmer from Ankalachh village has conserved native paddy variety "Raj Bangalo". For the benefit of the farmer and to reach out maximum number of farmer the entire programme was live telecasted on N7 channel in the district.









4. Celebration of Farm Innovator's Day; 2013-14

Innovations introduced in the programmes: KVK has implemented different RKVY projects in 25 villages. Among 82 farmers who had performed best in the project within village were selected and recognized. So other farmers got motivated. selected farmers were felicitated during celebration of farm innovators day

Krishi Vigyan Kendra, Navsari Agricultural University, Navsari organized "Farm innovators day- 2013" on dated 26-12-2013. *The aim of this programme is to identify and encourage the innovative farmers of the district.* Indian Council of Agricultural Research

has declared 23rd December as a "Innovative farmer's day". As a result from last two years KVK is celebrating the Innovative farmer's day.

Inauguration was done by the District Development Officer, Navsari, shri. S.M.Patel. Felt pleased about practice Kitchen garden by the women's. These kitchen gardens not only provide nutritional availability but also financial security to the farm family.

Dr. C.K Timbadia briefed activity of KVK "Though activity KVK has covered 92 villages in these villages more than 18,000 different agriculture technologies were taken up to reach out the all kinds of farmers. Organizations like ATMA and other line departments identified many innovative farmers of the district; those farmers were also called and felicitated here. Felicitation kit was sponsored by Shri Kanjibhai Patel. Eighty farmers were felicitated giving certificate along with kit, here few successful farmers in different agriculture practice are given. More than forty village farmers were participated and about more than 400 farmers witnessed the function.





5. TOT's through religious organization

In the ancient era, the scientific truth was incorporated with religions and spiritual activities. So, the uneducated people could easily follow the truth. Considering the above fact, KVK had started to train the religious leader regarding new agricultural technologies. So one training pertaining to the new technologies of agricultural was organized for the saints (Swamijis) of Swaminarayan Panth. In all 37 saints participated and they are convinced about

the new technologies of agriculture. This is just beginning of the concept and the impact will be accessed subsequently.









6. Memorandum of Understanding (MoU) with Navsari Taluka Sangh



A MoU is made on June 6, 2012, between the NAU, Navsari and M/s Navsari Taluka Sangh for Certified seed production of new varieties of paddy GNR-2 & 3 in the jurisdiction of KVK Navsari. The MoU expressing the responsibilities of NAU, to provide technical know how for quality seeds of newly released variety of paddy.

7. Celebration of 'sunhara kal' programme, navsari



co ordinator, KVK, Navsari welcomed all dignitaries and participants and informed the objective of programme. Hon'able Vice chancellor. Dr. A.R. Pathak, informed the farmers about importance of machine tools in agriculture and emphasized on the use of modern machine tools in order to reduce the labour work in Agriculture. Moreover, he showed two ways, one by reducing crop

JCB Mumbai sponsored programme 'Sunhara Kal' regarding modern machine tools utilization in Agriculture was celebrated at Krishi Vigyan Kendra, Navsari Agricultural University, Navsari . Hon'ble Vice Chancellor, NAU presided over the function. The programme was inaugurated by enlightening the lamp. Dr. C. K. Timbadia, Programme co-



expenditure and second by increasing crop production using latest technology to earn more profit from Agriculture and improve economic condition. Today, utilization of machine tools become essential due to high scarcity of labours in Agriculture. Niraj Chandani, General Manager, JCB, Mumbai; Rajpal Sisodia, Zonal rural Manager, JCB, Mumbai; and Yogeshbhai Lad, Dealer, Yatrayan Automech, Baroda remained present in the function and guided the farmers that how modern machine could be utilized in agriculture. Dr. Dhaduk, Prinicipal B.M. College, Mongabhai, Mukundbhai, Amrutbhai, Kishorbhai, the leaders of Gadat Co-operative Society and Ashishbhai of Amalsad Co-operative remain present in the function. Through this programme, around 200 farmer participants of Navsari District were guided about the use of modern machine tools and on this occasion, they also visited the exhibition of the hand tools made by 'Saruchi Yatra Shara'.

8. Sweet corn MoU with Saraf Food ltd, Vadodara

KVK, Navsari has bridged a gap between farmers and market traders by making MoU



Hon. Rajyasabha member Shri Kanjibhai Patel addressing Sweetcorn growers

with highly reputed Saraf Food ltd, Vadodra. KVK, Navsari has formed farmers committee from each selected villages and identified committee leaders to sign the MoU for contract farming. Under implementation of this project, we have distributed inputs like, Sweet corn seeds and bio fertilizer in cluster base to 500 tribal farmers from chikhali and Vansda taluka. Farmers were cultivating traditional crops such as rice, Sorghum, Sugarcane, Mangoes, and Sapota but

with the help of this MOU, it become possible to introduce new crops to get good return. MOU was finalized with the present of Dr. C. K. Timbadia, Programme co-ordinator, KVK, Navsari, Dr. G. R. Patel, Asso. Extension Educationist, NAU, Navsari and Mr. Kanani, Saraf Food ltd, Vadodra with 28 selected farmers from 14 villages. After harvesting the sweet corn crop residue was used as fodder to feed milky animals and fulfilled the need of green fodder. Overall outcome of this MOU was very optimistic and farmers have shown their interest to sign other MOU in future with the help of KVK, Navsari.

9. e-Connectivity at KVK



By using latest information technologies KVK tried to reach to the farmers. KVK has established e-KVK, that enables the farming communities to get regular message regarding different crops, their varieties, climate report, pest and diseases related information. More than 1 lakh voice message had been sent and covered about 1700 farmers of the district.

43. Farm innovations documented by KVK and validated and promoted in the district/state

Off Season Okra Cultivation In Tribal Area

- After KVK intervention: Adaption of technology, Off season okra cultivation, Adaptation of INM, Integrated pest management, Use of bio fertilizer
- Area of adaptive of technology
 One acre area
- Results to adopt this technology
- Off season production of okra fruit, He got 2.600 kg yield in 20 guntha (13 ton/ha.), Use yellow sticky trap and reduce pesticide loads, He got more income during off season okra cultivation, Earlier 25 to 30 spray it reduce up to 50 per cent
- Income from this
- 43,000 Rs./20 guntha net income (2,15,000 Rs./ha.), He got 20 to 30 Rs./kg market price.
- Horizontal spread: 62 farmers are adopted off season cultivation of okra





Introduction of high value Sweet corn

Farmers are diverted to low value crop to high value crop. During the year 2008-09, area under sweet corn cultivation is nil. Now sweet corn has been cultivated in 1220 ha are

Total revenue generated from sweet corn cultivation (Year 2010-11 to 2014-15)

| Year | Area | Benefi | Total | Reven | Total | Reven | Total | MOU | Rate |
|-------|-------|---------|----------------|---------------|----------------|---------------|-------------|-----------------|----------|
| | (ha) | ciaries | corn | ue | fodder | ue | revenu | with | of MO |
| | | | produc tion | genera ted | produc tion | genera ted | e genera | compan y | U |
| | | | (kg) | from | tion | from | ted | J | Rs./ |
| | | | (118) | corn | | fodder | (Lakh) | | Kg |
| | | | | (Rs. in | | (Rs. in | , | | 8 |
| | | | | lakh) | | lakh) | | | |
| 2010- | 49.20 | 126 | 497412 | 29.84 | 393600 | 7.48 | 37.32 | Vadilal | 6 |
| 11 | | | | | | | | Industrie | |
| | | | | | | | | s Ltd. | |
| | | | | | | | | Dharamp | |
| | | | | | | | | ure, | |
| | | | | | | | | Valsasd | |
| 2011- | 73.40 | 367 | 740606 | 44.43 | 587200 | 10.57 | 55.00 | Vadilal | 6 |
| 12 | | | | | | | | Industrie | |
| | | | | | | | | s Ltd. | |
| | | | | | | | | Dharamp | |
| | | | | | | | | ure, Valsasd | |
| 2012- | 78 | 460 | 741000 | 44.46 | 639600 | 11.51 | 55.97 | Saraf | 6 |
| 13 | 70 | 700 | 7-1000 | 77.70 | 037000 | 11.51 | 33.71 | food Pvt. | 0 |
| | | | | | | | | Ltd. | |
| | | | | | | | | Vadodar | |
| | | | | | | | | a | |
| 2013- | 114.4 | 572 | 137280 | 89.23 | 102960 | 19.35 | 108.58 | Vadilal | 6 |
| 14 | 0 | | 0 | | 0 | | | Industrie | |
| | | | | | | | | s Ltd. | |
| | | | | | | | | Dharamp | |
| | | | | | | | | ure, | |
| | | | | | | | | Valsasd | |
| 2014- | 25 | 245 | 259375 | 16.86 | 238625 | 4.42 | 21.28 | Vadilal | 6.5 |
| 15 | | | | | | | | Industrie | |
| | | | | | | | | s Ltd. | |
| | | | | | | | | Dharamp | |
| | | | | | | | | ure, | |
| TOTAI | 240 | 1770 | 2611102 | 224.92 | 1000/15 | 52.22 | 270 15 | Valsasd | |
| TOTAL | 340 | 1770 | 3611193 | 224.82 | 2888625 | 53.33 | 278.15 | | |

Note: Including TSP

Crop diversification: High value apple ber crop er Jagdishbhai Babubhai Patel

Name of Farmer

Dhanori Village Gandevi Taluka

Navsari, Gujarat **District Mobile No** 9724864558 48 years Age 12th pass **Education**



Shree Jagdishbhai Patel having 3.5 ha land and doing farming of vegetable, sugarcane, sapota and mango crops since last 25 years. He also adopted crop diversification and planted new crop of apple ber in area of 1.2 ha with spacing of 12X10 ft during the year 2014-15. First of all he prepare pit of 2X2 ft and fill of this pit with help of FYM and well pulverize soil. Scientific cultivation of practices along with drip irrigation to obtain efficient utilize of water and fertilizer and quality produce.

KVK scientists gave technical guidance for better flower setting and reduce the fruit drops as well as increase the size of fruits to get higher yield and quality produce. To increase the quality, scientists suggested the spraying of 500 gm calcium nitrate and 250 gm boron in 200 lit water at a 50% flowering state and then after three spray of novel liquid organic fertilizer of 4 lit. in 200 lit. water at a 15-20 days interval. They also inform about the application of bioifertilizers namely aztobactar, PSB and KMB each 50 ml per tree with the irrigation water. Further to control the damage of fruit borer, install the one fruit fly trap per ten tree.

Table-1 Details of apple ber cultivation

| Sr.No. | Particular | Detail information | Rs. |
|--------|-------------------------|--|----------|
| 1 | Apple ber crop area | 1.2 ha | |
| 2 | Cost of graft | 1100X100 | 110000 |
| 3 | Land preparation | 2X2X2 ft pits at a distance of 12X12 ft | |
| 4 | Irrigation management | Drip irrigation | |
| 5 | Crop protection expense | Fungicide, insecticide, pheromone trap | 20000 |
| 6 | Fertilizer cost | FYM, Chemical, bio fertilizer | 100000 |
| 7 | Total labour cost | pit, application of fertilizer and other | 35000 |
| 8 | Bamboo support cost | 8 ft bamboo stick | 70000 |
| 9 | Transport expense | | 60000 |
| 10 | Total expense | | 395000 |
| 11 | Apple ber production | 55 kg/tree | 60500 kg |
| | (kg) | (55X1100) | |
| 12 | Rate | 19/kg (19X60500) | 1149500 |
| 13 | Total income | | 1149500 |
| 14 | Net profit | | 754500 |





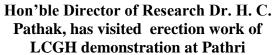
Low Cost Net House Cultivation

An innovative and low cost net house technology adopted by small and marginal farmers in tribal area of Vansda and Chikhali taluka was documented by the scientists of the KVK, Navsari and disseminated to the farming community through various extension programmes. This low cost net house developed technology are required to be transferred quickly to the farmers to increase the production, productivity and quality of different crops and thus, KVK, Navsari created awareness among the farmer programme and enlist the benefit of it for the small and marginal farmers. As result of the farmer constructed low cost net house. The detail of the same and its impact was presented.

Low Cost Green House Cultivation

| PHYSICAL ACHIEVEMENT | ACTUAL OUT COME | | | | | | |
|----------------------|---|--|--|--|--|--|--|
| LCGH Unit – 100 | Interested farmers are selected for the | | | | | | |
| Training -17 | project implementation | | | | | | |
| Literature published | | | | | | | |
| Folder- 3 | One of the main purpose of this project to get | | | | | | |
| Book let -1 | higher income for the farmers with less investment | | | | | | |
| | Training and inputs are given to the farmers for successful implementation of the project | | | | | | |
| | In an area of one gunta, farmers can get up to 40,000 rupees by cultivating vegetable seedlings and off season leafy vegetable with better quality through out the year along with water management | | | | | | |
| | Majority of the farmers realized increase in yield up to 30 – 35 per cent | | | | | | |







Farmers had erected LCGH with their own efforts and started to cultivate leafy vegetables and seedlings

Replacement Of Kharif Paddy Through Vegetable Cultivation

In tribal region farmers are growing paddy in low land area. In case of up land area water holding capacity is low and soil pattern is lateritic this yields low production of paddy. KVK intervention replaced the paddy with vegetable crops. Around 2240 farmers adopted this technology.

Small Scale Nursery

Navsari district having a 48% tribal people population and covering the Vansda and Chikhali taluka under the tribal area. The income of tribal people from agriculture was very low because of basic availability of natural resource is very less and poor. Moreover, some the tribal people generated income by adopting small scale nursery to raise seedlings, fruit grafts, flowers and ornamentals plants etc. which helps them for to secure their livelihood. This is also identify, validate and disseminate among the resource poor people for better income. This activity carried out by KVK, Navsari was documented and presented.

| PHYSICAL ACHIEVEMENT | ACTUAL OUT COME | | | | |
|----------------------|---|--|--|--|--|
| No. of units- 19 | Navsari district is known as mango orchard | | | | |
| Beneficiaries- 19 | of the district; hence grafted mango and | | | | |
| Training- 15 | sapota are in demand. Therefore here is a huge scope for the production of grafted plants | | | | |
| | Navsari is surrounded by big cities/ metropolitan cities in which landscape gardening is famous. Therefore here is huge demand of ornamental/ flowering planting material | | | | |

Availability of true to type vegetable seeds are scanty in this area hence it is an opportunity to grow true to type seeds of vegetable in small scale nursery

In the district 19 farmers implemented small scale nursery in which they are earning annually rupees 60 to 3.00 lakh by cultivating mango grafts, ornamental planting material

Among the 19 nurseries; ten farmers are engaged in vegetable and mango grafts. Five are preparing vegetable, ornamental and floriculture and four are engaged in leafy vegetable and high value crops





Raising of Vegetable Seedlings

Multiplication of mango grafts

44. Awards / recognitions received by KVK / farmers / scientists during last eight years

• Award/ Recognitions received by KVK, Navsari

| Krishi Vigyan Kendra Samman' Runner-up | Mahindra Samriddhi India Agri Award 2014. | | | | | |
|---|--|--|--|--|--|--|
| Award | | | | | | |
| Zonal Best Krishi Vigyan Kendra, Zone-VI- | Indian Council of Agricultural Research, New | | | | | |
| 2015 | Delhi- 2015 | | | | | |
| FGI Awards for excellence- 2015 | "Best Innovation work in the field of | | | | | |
| | Agriculture development"-2015 | | | | | |
| Cashless krishi vigyan kendra award-2016-17 | KVK-Navsari | | | | | |

• Award/Recognitions received by KVK Scientiest

| Sr.Name of Scientist No.Type of Award / Medal / recognitionInstitute/Age1Dr. C. K. TimbadiaAchiever AwardICAR, New Dell2Dr. C. K. TimbadiaMahindra Samriddhi India Agri AwardNew Delhi | |
|---|---------------------------------------|
| 1 Dr. C. K. Timbadia Achiever Award ICAR, New Delli 2 Dr. C. K. Timbadia Mahindra Samriddhi New Delhi India Agri Award | hi 2011 |
| 2 Dr. C. K. Timbadia Mahindra Samriddhi New Delhi India Agri Award | hi 2011 |
| India Agri Award | |
| | 2014 |
| | |
| 3 Dr. C. K. Timbadia "Patidar Krishi Ratna Chief Minister o | of GOG 2014 |
| Award" at Bhagvat Vidy | apith, |
| Sola- Ahmedaba | nd, |
| Gujarat. | |
| 4 Dr. C. K. Timbadia Best Extension Collector & Dist | trict 2014 |
| Professional Award Magistrate, Navs | sari |
| 5 Dr. C. K. Timbadia Save Birds Award Hon. MLA, colle | ector, 2015-16 |
| DDO and distric | et |
| president | |
| 6 Dr. C. K. Timbadia Best Krishi Vigyan ICAR,New Delh | ni 2015 |
| Kendra Awards | |
| 7 Dr. C. K. Timbadia FGI Awards For Shri Manohar Pa | , , , , , , , , , , , , , , , , , , , |
| Excellence Hon'ble Ministe | |
| Defence, Govt. o | of India |
| at Vadodara | |
| 8 Dr. C. K. Timbadia The Best Citizen of International | 2016 |
| India Award Publishing Hous | |
| 9 Dr. C. K. Timbadia KVK Scientist award Samgra Vikash | 2016 |
| Welfare | |
| Society(SVWS) | |
| IBPGR Luckhno | |
| 10 Dr. C. K. Timbadia Cashless Award ICAR, New Delh | |
| 11 Dr. C. K. Timbadia UTTAM LEKH ANand Agricultu | |
| AWARD University, Anar Dr. C. K. Timbadia Pride of India International | |
| 12 Dr. C. K. Timbadia Pride of India International Publishing Hous | 2018 e |
| 13 Dr. C. K. Timbadia Best Extension Scientit Society of Exten | |
| Award Education Gujar | |
| 14 Dr. K. A. Shah Outstanding Extension Pearl –A Founda | |
| Scientists Award in for Educational | |
| Agricultural Sciences Excellence, Mad | durai |
| 15 Dr. K. A. Shah Scientist of the Year National | 2017 |
| Award Environmental S | Science |
| Academy (NESA | A), |
| New Delhi at Bh | nopal |
| 16 Dr. K. A. Shah Young Scientist Award Society of Tropic | cal 2018 |

| | | | Agriculture, New Delhi, India. | |
|----|-----------------------------|--|---|------|
| 17 | Dr. Prabhu Nayaka | Best Young Scientist Award in the field of Plant Protection in India | Pearl –A Foundation for Educational Excellence, Madurai | 2016 |
| 18 | Dr. Prabhu Nayaka | Scientist Of The Year | National Environmental Science Academy (NESA), New Delhi at Bhopal | 2017 |
| 19 | Dr.Sumit R.Salunkhe | Best Young Extension Scientist Awards | Society of Extension Education ,Gujarat. At Anand Agricultural University,AAU During National Seminar | 2018 |
| 20 | Dr.Sumit R.Salunkhe | Outstanding scientist awards | Society of Tropical Agriculture, New Delhi. at International Conferences on Agriculture, Horticulture and Plant Science at Shimla | 2018 |
| 21 | Dr.Sumit R.Salunkhe | Young Scientist Awards | Indian society of extension education, New Delhi at ISEE national seminar, Kolkata | 2018 |
| 22 | Mr. Alpeshbhai N Lad | Purnuthan of Purna Project | Manav Kalyankari Trust. Navsari | 2018 |
| 23 | Mr. Rashmikanth A Gurjar | Popularizing Kitchen Garden | Manav Kalyankari Trust. Navsari | 2018 |

45. Efforts made by KVK for doubling farmers' income and its impact

Government of India several steps have been taken towards attaining these objectives:

- Provision of quality seeds and nutrients based on soil health of each field
- Investments in warehousing and cold chains to prevent post-harvest crop losses
- Promotion of value addition through food processing
- Strengthening of crop insurance scheme to mitigate risks at affordable cost
- Promotion of ancillary activities like poultry, bee-keeping and fisheries.

Doubling Farmer's Income through Horticulture

Fruit Science

- ▶ Availability of Quality Planting material
- ▶ Development and adoption of high yielding varieties
- Rich in plant diversity that could be utilized for developing promising cultivars of desirable traits.
- Introduction of minor and underutilized fruits e.g. Jamun, Ber, Tamarind, Khirni, Custard apple, Jackfruit.
- Sincere efforts to commercialize some new and unexploited crops for commercial cultivation.
- Awareness about adoption of HDP, Canopy management, Rejuvenation of old orchard and top working for conversion.
- ▶ Adoption of crop regulation techniques for quality production of fruits.
- Adoption of site specific nutrient management technology and awareness about soil health.
- ▶ Adoption of water harvesting technique, drip irrigation and fertigation, mulching.
- ▶ Adoption of export potential varieties and implementation of GAP.
- Utilization of IPDM module in proper way.
- Utilization of long sea coast and unproductive land can be made productive by selecting proper crop having ability to grow under problematic condition.
- More emphasize is given on byproduct utilization of fruits and vegetable crops
- Implementation of fruit crop based cropping systems viz., intercropping, mixed cropping, multistory cropping.
- ▶ Enhancing area under organic farming.

Vegetable Science

- ▶ Adoption of HYV/hybrids and resistant varieties.
- ▶ Enhancing the availability of quality planting material particularly in vegetative propagated vegetable crops through plant tissue culture technique.
- Adoption of export potential varieties and the varieties highly suitable for processing industry.

- Introduction of new crops like kale, Brussels sprouts, lettuce etc. and exploiting the potential of under-utilized vegetable crops like Indian gourd, amaranth, basella, chenopodium etc..
- ▶ Adoption of nutraceutically enriched crops/varieties.
- ▶ Adoption of Site Specific Nutrient Management technology.
- Intensification of cropping system and crop diversification.
- ▶ Introduction of plasticulture interventions like water harvesting, drip irrigation, protected cultivation etc.
- Mechanization in cultivation practices/technology.
- ▶ Adoption of innovative technologies like vegetable grafting and microgreens cultivation.
- Organic farming in vegetable crops.
- Use of renewable resources of energy for operational activities in cultivation.
- ▶ Appropriation of TPS technology to reduce cost of and bulb handling of potato seed.
- Commercial seed production in vegetable crops.
- ▶ Strategies to adopt minimum support price policy in vegetable crops.
- ▶ Developing market linkage directly from producers to consumers or adopting suitable market linkage system from other countries.
- Off-season crop production and marketing.
- ▶ Medicinal and Aromatic plants making healthy and wealthy
- ▶ Boosting mushroom production through innovative technologies

Floriculture

Protected Cultivation

- ▶ Focusing on High Quality Flower Production through systematic training of plant structure (pinching, bending, disbudding) and nutrient management especially in crops like Rose, Carnation, Chrysanthemum, Limonium, etc.
- ▶ Increasing flower duration by utilizing photo period breaking in crop like chrysanthemum
- ▶ Targeting peak flower market specially in festivals and marriage season by employing crop specific practices like pinching pruning, using PGRs etc in different flower crop.
- ▶ Utilizing of INM and IPM modules for different flower crops. Utilizing leaf tissue analysis for nutrient management.
- Harvesting water from the greenhouse top. Reducing water use with proper mulching.

- Utilizing vertical space or planting in double planes.
- ▶ Systematic harvesting (proper time & method) and post-harvest management (soring, grading and packing) of flowers at field level. Storing of flower during glut.
- Crop diversification with new crops like orchids, anthurium and potted ornamentals. Targeting high production in less time.

Post Harvest Technology

- Development of location specific post-harvest technology package and practices comprising of optimum harvesting stage to tertiary level of processing.
- ▶ Identifying tools, equipment and machineries for automation at each level of operation viz. handling, packaging, transportation and storage.
- ▶ Development of technology for on farm pre-cooling, grading and packaging techniques and cottage level processing and value additions protocols and machines.
- ▶ Mechanization of processes for Indian traditional and ethnic food products.
- ▶ Development of economically viable pre-cooling, ripening and on farm cold storage system that will helps farmers to preserve the produce at the production site itself till he fetch a good market values.
- Development of complete cold chain with protocols including pre-cooler, reefer vans, cold storage for Indian conditions for maintaining optimum quality of perishable produce from farm to fork.
- Providing health foods in form of functional and nutraceutical foods with maximum nutrient retention and bio-availability of essentials components.
- ▶ Value addition and processing of by-products, agro industrial waste and residues into high value products.
- Trainings of farmers for doing proper post harvest management, processing and value addition of horticultural crops.
- ▶ Establishment of training centre for post harvest management, processing and value addition of horticultural crops at each Dist on community service basis.
- ▶ Exploration of plant extracts in extension of storage life of fruits and vegetables and developments of processes for preparation of instant and extruded food products.
- ▶ Technologies for preparation of low calories health drinks from fruits and vegetables and health oriented appetizer, nectar, jam, chutney, instant powder etc.
- Developments of fruit juice based carbonated beverages and osmo-canning technology for suitable fruits and vegetables.

- ▶ Adoption of new emerging post harvest technologies like HWT, irradiation, Extrusion cooking, etc.
 - Establishment of HACCP protocols for different food commodities under Total Quality Management (TQM).

Road Map to Achieve the Target/Goal

| Programme | Approach | Performance measure | | | |
|----------------------|----------------------------------|---------------------------------|--|--|--|
| Standardization of | Development of Post- harvest | Post harvest technologies for | | | |
| values addition and | management practices, value | improved quality and shelf life | | | |
| post- harvest to | addition and processing, by- | of produced and minimization | | | |
| improves quality and | product development from | of post harvest losses to Nil | | | |
| economic returns | processing waste, development | and newer value added | | | |
| | of functional food from finished | products of fruits and | | | |
| | and semi-finished products. | vegetables | | | |
| | | | | | |
| Mechanization post | Mechanization post harvest | Mechanized method developed | | | |
| harvest operation | operation | for different post harvest | | | |
| | | processing | | | |
| Transfer of | Technology dissemination | Technologies related to | | | |
| technologies to end | through use of ICT tools and | developed process | | | |
| user | extension approaches | disseminated. | | | |

Linkages require to achieve the goal of Doubling the farmer's income

| Type of Linkage | Collective activity | Advantages |
|--|---|---|
| Direct between farmers and traders | Farmers usually act on a one-to-one basis with traders | Requires high level of trust but such trust like to ensure long-term sustainability |
| | May work together informally to bulk-up produce to reduce costs and attract larger traders | Formal farmer organizations not usually needed |
| | | Traders may (rarely) provide training in production and handling |
| Direct between farmers and retailers (including restaurant chains) or their wholesalers | May require formal group structure, particularly when buyer does not want to deal with farmers individually. | Reliable market at agreed price |

| farmers to exporter | Often involves grouping of farmers. External technical assistance may be required | Potential high returns if quality can be achieved |
|--|---|--|
| | | Inputs, technical assistance, etc. May be supplied on credit |
| | | Exporter often provides transport and packaging. |
| Direct between farmers and agro-processors | Farmers groups can bulk-up produce for collection by processor. | May provide secure market at agreed price |
| | Groups can facilitate supply of inputs and provision of technical assistance. | Offers additional market in addition to fresh market |
| | | Inputs, technical assistance, etc. May be supplied on credit |
| | | Processor often provides transport |
| | | Potential for farmers to sell larger volumes. |
| Linkages through cooperatives | Farmers may link directly with the cooperative or through groups. | Inputs, technical assistance, etc. May be supplied on credit |
| | | Crop marketing, packaging, grading and storage and, sometimes, processing organized by cooperative |
| | | Potential for farmers to sell larger volumes. |

46. Expectations of KVK from ICAR / Host Organization

ICAR

- 1. Provision for well equipped laboratory facilities for plant tissue analysis and residue monitoring
- 2. Provision of one staff for smooth operating seed hub project.
- 3. Provision of separate fund for permanent demonstration unit on KVK farm

47. BROAD BASING OF FRONT LINE EXTENSION (2011-12 to 2018-19)

| Sl. | Item | I | II | III | IV | V (2015 | VI | VII | VIII | Total |
|-----|--------------------------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|----------|
| | | (2011- 12) | (2012- 13) | (2013- 14) | 2014- 15) | (2015- 16) | (2016- 17) | (2017- 18) | (2018- 19) | |
| 1 | A.I. cases | 12) | 10) | 11) | 10) | 10) | 17) | 10) | 127) | |
| 2 | Animal health | | | | | | | | | |
| | care provided | | | | | | | | | |
| 3 | Poultries | | | | | | | | | |
| | introduction | | | | | | | | | |
| 4 | Piggery/ | | | | | | | | | |
| | rabbitory | | | | | | | | | |
| | introduction | | | L | | | | | | |
| 5 | Planting material | l /seedlin | igs produ | ced and d | listribute | d T | 1 | | 1 | |
| | Seeds | 4.450 | - 1 - 1 | = 1 - = | 25.45 | | 52.40 | 504 W | | 4.50.7.5 |
| 1 | Paddy | 4470 | 6451 | 7465 | 3745 | 5175 | 6340 | 6015 | 6695 | 46356 |
| 2 | Gram | 118 | 225 | 7.5 | 264 | 120 | 150 | 83 | 24 | 225 |
| 3 | Green gram | 70 | 225 | 75 | 264 | 120 | 153 | 566 | 255 | 1728 |
| 4 | Pigeon pea | | | | | 430 | | 1004 | 1208 | 2642 |
| 5 | Others | 405 | 445 | 91 | | 51 | 148 | 10150 | | 1140 |
| 6 | Planting | 70100 | 43775 | 48610 | 76703 | 229975 | 35157 | 10420 | 3700 | 518440 |
| | material | | | | | | | | | |
| 7 | /seedlings | 0 | 0 | 5.0 | 5.0 | <i>C</i> 5 | 7.0 | 6.5 | 6.0 | 26.00 |
| / | Fodder and | U | 0 | 3.0 | 3.0 | 6.5 | 7.0 | 0.3 | 6.0 | 36.00 |
| | grass introduction, | | | | | | | | | |
| | ha | | | | | | | | | |
| 8 | Trees | | | | | | | | | |
| O | introduction(no.) | | | | | | | | | |
| 9 | Wasteland | | | | | | | | | |
| | development | | | | | | | | | |
| | plan prepared | | | | | | | | | |
| 10 | Watershed | | | | | | | | | |
| | development | | | | | | | | | |
| 11 | Consultancy | | | | | | | | | |
| | on soil analysis | | | | | | | | | |
| | and | | | | | | | | | |
| | topographic | | | | | | | | | |
| 10 | survey | | | | | | | | | |
| 12 | Consultancy on land use | | | | | | | | | |
| | on land use planning and | | | | | | | | | |
| | cropping | | | | | | | | | |
| | pattern | | | | | | | | | |
| 13 | Improved hand | | | | | | | | | |
| | tools and | | | | | | | | | |
| | implements | | | | | | | | | |
| | introduced | | | | | | | | | |
| 14 | Fishery | 0 | 41 | 85.5 | 19.5 | 24.33 | 19.6 | 27 | 43.7 | |
| | demonstrations | | | <u> </u> | | | | | | |
| 15 | Any other | | | | | | | | | |
| | (Animal | | | | | | | | | |
| | health camp.) | | | | | | | | | |

48. Extension Activities Undertaken (last 8 years) (Numbers)

| S. | Activity | I | II | III | IV | V | VI | VII | VIII | Total |
|-----|-----------------------------|--------|--------|--------|--------|--------|-------|------|--------|-------|
| No. | . | (2011- | (2012- | (2013- | (2014- | (2015- | (2016 | | (2018- | |
| | | 12) | 13) | 14) | 15) | 16) | 17) | 18) | 19) | |
| 1. | Field Days | 3 | 16 | 10 | 10 | 12 | 18 | 15 | 12 | 96 |
| 2. | Agril. Exhibition | 8 | 6 | 12 | 6 | 12 | 8 | 9 | 11 | 72 |
| 3. | Farmers' Fairs | 0 | 2 | 6 | 3 | 1 | 2 | 5 | 4 | 23 |
| 4. | Radio Talk | 3 | 2 | 1 | 4 | 4 | 6 | 1 | 5 | 26 |
| 5. | TV show | 4 | 6 | 15 | 12 | 6 | 7 | 7 | 5 | 62 |
| 6. | Film show | 69 | 77 | 79 | 105 | 89 | 54 | 84 | 13 | 570 |
| | Training materials produced | 4 | 41 | 41 | 28 | 33 | 35 | 24 | 37 | 243 |
| 7 | (a) Pamphlets | | | | | | | | | |
| 7. | (b) Video-cassette/ | | | | | | | | | |
| | CD | | | | | | | | | |
| | (c) Slides | | | | | | | | | |
| 8. | Farm Science Club | 0 | 1 | 0 | 1 | 1 | 3 | 1 | 1 | 8 |
| 9. | MahilaMandalsOrga | - | 2 | 18 | 6 | - | - | 15 | 26 | 67 |
| 10. | Extension Training meetings | | | | | | | | | 0 |
| | i.KisanGhosthi | 3 | 10 | 4 | 6 | 6 | 8 | 7 | 2 | 46 |
| | ii.Farmers Seminar | 3 | 2 | 2 | 3 | 11 | 5 | 8 | 2 | 36 |
| | iii.Lectures | 17 | 29 | 51 | 103 | 45 | 64 | 55 | 73 | 437 |
| | delivered as | | | | | | | | | |
| | resource persons | | | | | | | | | |
| | iv.Newspaper | 38 | 49 | 48 | 44 | 33 | 58 | 83 | 61 | 414 |
| | coverage | | | | | | | | | |
| | v.Popular articles | 64 | 54 | 19 | 70 | 36 | 17 | 11 | 9 | 280 |
| | vi.Advisory | 1362 | 5018 | 8983 | 7335 | 6523 | 3586 | 5541 | 3528 | 41876 |
| | Services | | | | | | | | | |
| | vii.Scientific visit | 117 | 55 | 36 | 93 | 52 | 88 | 65 | 68 | 574 |
| | to farmers field | | | | | | | | | |
| | viii.Farmers visit | 838 | 269 | 427 | 459 | 409 | 407 | 101 | 169 | 3079 |
| | to KVK | 120 | - | 1.0 | 4.5 | 100 | 22 | | 10 | 47.4 |
| | ix.Diagnostic visits | 129 | 5 | 16 | 46 | 192 | 23 | 31 | 12 | 454 |
| | x.Exposure visits | 31 | 6 | 9 | 7 | 23 | 15 | 13 | 14 | 118 |
| | xi.Animal Health | 1 | 10 | 1 | 2 | 0 | 0 | 1 | 0 | 15 |
| | Camp | | - | | | - | | | | |
| | xii.Soil test | 2344 | 2385 | 2300 | 1545 | 1953 | 1611 | 328 | 494 | 12960 |
| | campaigns | | | | | | | | | |
| | xiii.Self Help | 3 | 2 | 4 | 2 | 2 | 4 | 3 | 7 | 27 |
| | Group Conveners | | | | | | | | | |
| | meetings | | | | | | | | | |
| | xiv.Celebration of | 2 | 9 | 5 | 5 | 4 | 7 | 8 | 15 | 55 |
| | important days | | | | | | | | | |
| | (specify) | | | | | | | | | |
| | xv.Farmers'- | 3 | - | 1 | 1 | - | 3 | 7 | 1 | 16 |
| | Scientists' | | | | | | | | | |
| | Interaction | | | | | | | | | |
| | xvi.Technology | 1 | 1 | 1 | 1 | - | 1 | 1 | 1 | 7 |
| | week | | | | | | | | | |
| | Others, if any | | | | | | | | | |

49. Publications made during the QRT period:

| Type of Publication | | Title and publishers/Journal/Magazine | |
|------------------------|---|--|--|
| Research article: | | | |
| 2011-12 | 1 | Impact of climate change on food security | International J. of Agri.Entomology & Biotech: June-2011, Vol:4, P:125-127 |
| | 2 | (i) Effect of bio-processing on antioxidant activity of wheat & pearl millet (ii) Hypoglycemic & Hypolepidemic potential of herbal mix | Paper presented in International Conference of Life science 10-13/11/2011 |
| | 3 | Experiences gained by the safed musli growers about its cultivation | NASC, New Delhi "International Conforence on |
| | 4 | Telephone : A Source of agrotechnology information | Innovative approaches for Agricultural knowledge management"- Global Extension Date: 9-12/11/11 |
| | 5 | Enhancing farmer's income through value added products : A KVK intervention | Paper Presented in 6 th National conference on KVK-2011 Date: 3-5/12/11 Place: Jabalur |
| 2012-13 | 1 | Irrigation scheduling in semi rabi pigeon pea (Cajanus cajan L.) Millspa UGH) | Bioinfolet, Vol:9 No:4 (2012) |
| | 2 | Impact of group co-hesiveness on professionalism management of co-operative sections | Advance Research J. of Social science 3(3): 213 (2012) |
| | 3 | Empowerment of rural women through self help group | Agricultural update,7 (324): 342 |
| | 4 | Role of micronutrient in fruit crops | Abstract Symposium Tropical & sub tropical fruit |
| | 5 | Wadi Yojna | |
| | 6 | A review on women reducing drudgery through empowerment in agriculture in the Dangs of Gujarat | Paper presented in Natonal level seminar on "Value added science awareness to strengthen women's role in climate resilient agriculture and sustainable development, dt. 4/1/2013 |
| | 7 | Consequence of time of sowing on growth and yield of Okra cv. OH-152 | Advance reaserch J. of crop improvement,3(1): 32-34 |
| 2013-14 | 1 | Introduction of sweetcorn cv. sugar-75 through frontline demonstration in tribal area of navsari District in Gujarat | Journal of Krishi Viyan 2(1):84&85 |
| 2014-15 | 1 | FLD impact analysis on scientific cultivation of chilly | Society of Extension Education, 22: 68-70. |
| | 2 | Introduction of sweet corn cv. sugar-75 through frontline demonstration in tribal area of Navsari district in Gujarat. | Journal of Krishi Vigyan 2 (1): 84-85. |
| | 3 | Results of frontline demonstration of rice in Navsari district of Gujarat. | Agriculture update 9 (2): 229-231. |
| | 4 | Yield and impact analysis of training and FLDs regarding scientific cultivation of brinjal. | <i>Agriculture update</i> 9 (3): 288-291. |

| | 5 | Growth, Yield attributes and yield of summer blackgram (<i>Vigna mungo</i> L.) as influenced by FYM, phosphorus and | The Ecoscan, special issue, (6): 429-433. |
|---------|---|--|---|
| | 6 | Interaction effect of time of sowing and planting geometry on growth and yield attributes of okra under south Gujarat condition. | Trends in biosciences (2014). 7(24):4300-4303. |
| 2015-16 | 1 | Impact of frontline demonstration of SRI technology of paddy cultivation in Navsari district of Gujarat". | Agriculture Update. Volume 10, Issue 1, February-2015. |
| | 2 | Knowledge level of sapota growers about scientific package of practice. | Agriculture Update. Volume 10, Issue 1, Feb. |
| | 3 | Effect of integrated nutrient management on yield of sapota. | The Asian Journal of Horticulture. Volume 10, Issue 1, June. |
| | 4 | Cost-effective-dietary backyard kitchen gardening: A success story" | Rashtriya Krishi (Hind Agricultural Research and Training Institute) Volume 10, Issue 1, June-2015 |
| | 5 | FLD on INM: A tool to optimize nutrient use and improvement of brinjal yield". | Agriculture Update. Volume 10, Issue 3, August. |
| 2016-17 | 1 | Knowledge levels and adoption pattern of rice production technology among the navsari district farmers | Agricultural Update (2016):11(3):242-246 |
| | 2 | Combining ability studies in Rice (Oryza sativa L.) for yield and its component characters | Green farming (2016):7(4):779-782 |
| | 3 | Impact of Front Line Demonstration on feeding of Low cost high protein rich food (Poshak Aahar) to Malnourished rural tribal children | Gujarat J. Ext. Edu. (2016):27(1):79-81 |
| | 4 | Impact of training on knowledge level of participants regarding value addition in Papaya | Gujarat J. Ext. Edu. (2016):27(2):126-129 |
| | 5 | Stability and GxE interaction on yield and its components of Rice | Bioinfolet (2016):13(1B): 197-202 |
| 2017-18 | 1 | A profile analysis of animal husbandry enterprise holders of farmer's interest groups of Navsari district | Gujarat journal of extension education, Dec-17, Vol. 28, Issue-1, PP: 85-89 |
| | 2 | Impact of training on adoption of fruits and vegetables preservation technology by tribal women | Gujarat journal of extension education, Dec-17, Vol.28, Issue-1, PP: 46-49 |
| | 3 | Impact of training on knowledge of tribal farm women regarding health and nutrition of mother and child | Gujarat journal of extension education, Dec-17, Vol.28, Issue- 2, PP: 261-264 |
| | 4 | Association between personal profile and extent of adoption regarding paddy production technology | Gujarat journal of extension education, Dec-17, Vol. 28, Issue- 2, PP: 321-330 |
| | 5 | Adoption of improved brinjal production technology followed by brinjal grower. | Gujarat journal of extension education, Dec-17, Vol. 28, Issue- 2, PP: 244-245 |
| | 6 | A study on personal profile & use of internet facility by the post graduate | Trends in bio sciences, Dec-17, Vol. 11, Issue-2, PP: 427-428 |

| | | student of NAIL Guieret State | |
|------------------------|----|--|--|
| | 7 | student of NAU, Gujarat State. | International liveral of sum |
| | / | Attitude of farmers towards farming as an occupation | International Jiurnal of pure applied Bioscience 5(5): 833-837 (2017) ISSN: 2320-7051 |
| | 8 | Information seeking behavior about animal husbandary enterprises holder of farmers' interest groups | International Jouirnal of cuurent microbiology and applied sciences. ISSN: 2319-7706, Vol:6, No:7, (2017), PP: 2460-2465 |
| | 9 | Constraints perceived by vegetable growers for the use of farm mechanization | Current Agriculture Research Journal, ISSN: 2347-4688, Vol: 5, No,.(2), PP: 227-231 |
| 2018-19 | 1 | Knowledge of Brinjal growers (<i>Solanum Melongea</i> L.) Production Technologies in Tapi District of Gujarat State | international journal of tropical agriculture |
| | 2 | Effect Of FLD On Fish Culturist In Navsari District | Guj. J. Ext. Edu. Special Issue on National Seminar |
| | 3 | Effects of phosphorus and potassium on yield attributes and yield of summer sweetcorn under south Gujarat | international journal of tropical agriculture |
| | 4 | Adoption of Fruits & Vegetable Presentation Technology by tribal farm women of Tapi District | Guj. J. Ext. Edu. Special Issue on National Seminar |
| Technical Bulletin: | 1. | Monthly Progress Reports | |
| | 2. | Quarterly Progress Reports | |
| | 3. | ZREAC Reports | |
| | 4. | AGRESCO Reports | |
| | 5. | Tecnology week report | |
| | 6. | SAC meeting report | |
| | 7. | Annual Action plan report | |
| | 8. | Annual Progress report | |
| Popular article: | | | |
| 2011-12 | 1 | Rashtriya parisanvandma kheduto ne kaik navu karvani rah chindhi | Divya Bhaskar 4 th April 2011 |
| | 2 | Swasthaya vardhak soybean no aharma upyog karo | Champion agro world, April-2011 |
| | 3 | Meetha panima matsya palanno safal prayog | Divya Bhaskar 25 th April 2011 |
| | 4 | Rashtriya krishi vikash yojana – Ek aneri sidhhi (Meetha panima matsya palan- Ek safal varta) | Gujaratmitra Krishi.Col. Dt.2/5/11 |
| | 5 | Dudhala pashono ahhar, tema bypass tatvonu mahtva | Krishi Go vidya May-11 |
| | 6 | Mashroom : kheti no ek purak vyavasay | Gujaratmitra Krishi.Col. Dt.9/5/11 |
| | 7 | mashroom ni kheti dwara ochhee mehnate vadhu avak | Divya Bhaskar 9 th May 2011 |
| | 8 | Kheduto ne karaj mukta karvano prayas | Divya Bhaskar 16 th May 2011 |
| | 9 | Dudhala pashono ahhar, tema bypass tatvonu mahtva | Kisan sandesh 6-6-11 |
| | 10 | Beej mavjat dwara beej janya rogo nu niytran | Divya Bhaskar 20 th June 2011 |

| | 1.1 | TD 1 1 | D' DI 1 |
|---|-----|---|---|
| | 11 | Technology transfer nu Kendra KVK | Divya Bhaskar 27 th June 2011 |
| | 10 | NI | |
| | 12 | Nasari jillanu Krushi Vigyan Kendra: | Gujaratmitra Krishi.Col. Dt.27/6/11 |
| | 13 | Karypadhdhatee ane seedheeo Contract farming | Gujaratmitra Krishi.Col. Dt.4/7/11 |
| | 14 | Navo swa rojgar alaseeyani kheti | Divya Bhaskar |
| | 14 | Navo swa rojgar araseeyani knen | 11 th July 2011 |
| | 15 | Chomasani rutuma pashupalan ni tandurasti jalvava matena suchano | Gujaratmitra Krishi.Col. Dt.18/7/11 |
| | 16 | Masroom nu aahar ma mulya | Gujarat Mitra 08/08/11 |
| | 17 | Samgra saurastra no vagado gheri letu gajariyu ghas kfymi tras rup | Avadh times 07/08/11 |
| | 18 | Mulya vardhan thi chinta mukta banse kishano | Aegro sandesh 15/08/11 |
| | 19 | Pak mate jamin ane pani ni chakasni nu mahatva | Divya Bhaskar 22/08/11 |
| | 20 | jamin chakasni nu mahatva | Gujarat Mitra 22/8/11 |
| | 21 | Chomasa ma pasu mavajat | Krushi vigyan Aug-2011 |
| | 22 | Gramya mahilao mate navo svarojgar alasiya ni kheti | Krishi Go vidya sep-2011 |
| | 23 | Gramya mahilao mate navo svarojgar alasiya ni kheti | Champion agro world sep-2011 |
| | 24 | Vanspati parichay : Methi | Champion agro world sep-2011 |
| | 25 | Gramya mahilao mate navi svarojgari Alsiya ni kheti | Kheti ni vat sep-2011 |
| | 26 | liti kotan vishe janava jevu | Gujarat Mitra 12/09/2011 |
| | 27 | Mitha pani ma matsyapalan yhi kishano kamase. gramya smrudha banase | Aegro sandesh 18/07/11 |
| | 28 | Kapani pachhi nu Jatan upajavse vadhu mulya | Aegro sandesh 25/07/2011 |
| | 29 | Kontrakt farming thi khedutm ne fayado j faydo | Aegro sandesh 29/8/2011 |
| | 30 | Jantunashko na avaseso ni aad asar | Divya Bhaskar 26/09/2011 |
| | 31 | Sinchai na pani no jaruriyat karata vadhu upayog thi veran bani jati kheti ni | Gujarat Mitra |
| | 32 | Svasthya ni drastic ae gunkari methi | 26/09/2011 Krishi Go vidya |
| | 33 | vishe jano Khetpedaso ma jantunasko na avaseso ni | octo-2011 Divya Bhaskar |
| | 34 | hajari thi kheduto ne nuksan Jalstrot ni jalvani | 10/10/2011 Gujarat Mitra 17/10/2011 |
| | 35 | Khedut banya krushi vaignanik ane | Aegro sandesh |
| | 36 | Gujarat na kheduto dvara navintam sodh (bhag 1) | Gujarat Mitra 7/10/2011 |
| | 37 | Gujarat na kheduto dvara navintam sodh | Gujarat Mitra |
| L | | | |

| | | (bhag-2) | 14/11/11 |
|----------|----|--|--|
| | 38 | Gujarat na khrduto dvara navintam | Gujarat Mitra |
| | | sodh(bhag-3) | 21/11/11 |
| | 39 | Biti ringan kheduto mate aashirvad rupe | Divya Bhaskar |
| | | | 28/11/2011 |
| | 40 | Gramin Mahilao mate kitchen garden | Krishi Go Vidhya, Dec-11 |
| | 41 | Krishi no itihas | Gram swaraj-10/12/11 |
| | 42 | Gujaratna kheduto dwara navintam | Gujratmitra-5/12/11 |
| | | shodh | |
| | 43 | Gujaratna kheduto dwara navintam shodh | Gujratmitra-12/12/11 |
| | 44 | Navsari Krushi university ayojit | Divya bhaskar 23/12/11 |
| | | Adbhoot innovative farmer's meet | |
| | 45 | Oister-Mushroom ni kheti | Kisan Sandesh-26/12/11, Varsh: |
| | | | 13, Vol:32, Page No:4 |
| | 46 | Oister-Mushroom ni kheti | Champion Agro world 2012, Jan- 12 |
| | 47 | Meetha panima matsyapalan | Swadesh swapna 10/1/12 |
| | 48 | Apnu Gujarat-Green Gujarat | Gujaratmitra-23/1/12 |
| | 49 | Gujaratna kheduto dwara navintam shodh | Gujaratmitra-23/1/12 |
| | 50 | Gujaratna kheduto dwara navintam shodh | Gujaratmitra-13/2/12 |
| | 51 | Gujaratna kheduto dwara navintam shodh | Krishimitra Pag.8 27/2/12 |
| | 52 | Krishi no itihas | Avadh times |
| | 53 | Kudarati rite motapo dur karvana saral | Krishi go vidhya 6/3/12 |
| | | upayo | |
| | 54 | Gujaratna kheduto dwara navintam shodh | Krishimitra Pag.8 5/3/12 |
| | 55 | Gujaratna kheduto dwara navintam shodh | Krishimitra Pag.8 16/3/12 |
| | 56 | Kitchen garden | Divya bhaskar 26/3/12 |
| 2012-13 | 1 | Gujaratna kheduto dwara navintam sodho. | Gujaratmitra Krishi.Col. Dt.9/4/12 |
| | 2 | Vadalo 60% keri safa kari nakhase. | Divya Bhakar 24 th April 2012 |
| | 3 | Gujaratna kheduto dwara navintam sodho. | Gujaratmitra Krishi.Col. Dt.14/5/12 |
| | 4 | Off sensonma shakabhaji ni kheti | Kisan Sandesh 14-5-12 |
| | 5 | Aadhunek piyat paththti | Swadesh swapna 29-5-12 |
| | 6 | "Cage fish farming" | Gujaratmitra,Krishi. Col. Dt.11/6/12 |
| | 7 | Papaya ni kheti dwara Tunkagalama vadhu nafo melvo. | Kisan Sandesh, 18-6-12 |
| | 8 | Gandhi memorial project antgat nasari panthakma krishi zadapi vikasna magre. | Gujaratmitra Krishi.Col. Dt.9/7/12 |
| | 9 | Nitar vyvshtha dwara jamin sudharana | Divya Bhaskar |
| | | Trical vy vontina awara janinii suunaralla | 16 th July 2012 |
| | 10 | Jamin ane panima prutthakan karavo. | Gujaratmitra, Krishi. Col. |
| | 10 | (khetima vadhu aavak melavo) | Dt.16/7/12 |
| | 11 | Varsad khenchhta vaikalpik pakni | Divya Bhaskar |
| | 11 | bhalman | 23 th July 2012 |
| | 12 | Nitar vyvshtha dwara jamin sudharana | Gujaratmitra, Krishi. Col. |
| <u> </u> | 12 | 1 1 , somma a mara jamini saanaralla | |

| | | Dt.23/7/12 |
|-----|--|---|
| 13 | Jalshotrat ni jalvani | Jaljivan June-July'12 |
| 14 | y . | Sahkar, Aug-12 |
| 1: | • | Gujaratmitra Krishi.Col. Dt.6/8/12 |
| 1. | kheti dhyey sathe mahenatthi ranma pan | Sujaratimua ikiisiii. Soi. Bt. 6/ 6/ 12 |
| | ful khele. | |
| 10 | | Gujaratmitra Krishi. Col. |
| | siddhne pravutrio. | Dt.13/8/12 |
| 1 | • | Gujaratmitra, Krishi. Col. |
| | khetina anubhav | Dt.20/8/12 |
| 18 | | Divya Bhaskar Dt.20-8-12 |
| | shakay. | |
| 19 | <u> </u> | Kisan Sandesh Dt.20-8-12 |
| | kheti dhyey sathe mahenatthi ranma pan | |
| | ful khele. | |
| 20 | | Divya Bhaskar Dt.10-9-12 |
| | samsya. | |
| 2 | - | Godarshan guide |
| | mavjat kari vadhu nafo melvo. | Dt.5-9-12 |
| 22 | - | Divya Bhaskar |
| | 8 8 Junio | Dt.1-10-12 |
| 23 | Rojedan aaharma shakbhajinu mahtav | Kisan Sandesh |
| | 210300000 | Dt.15-10-12 |
| 24 | Pamaroza (roisa dhas) tatha lemon | Swadesh swapna |
| | dhasni kheti | 16-10-12 |
| 25 | | Swadesh swapna |
| | | 16-10-12 |
| 20 | 6 Gajarni kheti paddhti | Kisan Sandesh |
| | 7 - 3 F | Dt.1-11-12 |
| 2 | Rojedan aaharma shakbhajinu mahtav | Krishi Vigyan |
| | gran in a same significant | Dt.5-11-12 |
| 28 | Rojeda aaharma shakabhaji nu mahtav | Champion Agro world 5-11-12 |
| 29 | | Champion Agro world 5-11-12 |
| 30 | · · · · · · · · · · · · · · · · · · · | Krishi govidhya |
| | kheti | Dt.5-11-12 |
| 3 | | Krishi vigyan |
| | mateni tips | Dt.5-11-12 |
| 32 | • | Swadesh swapna |
| | sidho sanbandh | 6-11-12 |
| | | |
| 33 | prutthakanne aadhare khatarno santulet | Divya Bhaskar |
| | upyog | Dt.19-11-12 |
| 34 | | Jal Jivan |
| | kheti dhyey sathe mahenatthi ranma pan | OctNov12 |
| | ful khele. | |
| 35 | | Divya Bhaskar |
| | sweetcorn | Dt.19-11-12 |
| 30 | | Kisan Sandesh |
| | sha mate jaruri che? | Dt.26/11/12 |
| 3' | | Krishi Vigyan |
| | sha mate jaruri che? | Nov12 |
| 38 | | Divya Bhaskar |
| | vandan Krishi Vigyan Kendra,navsarini | Dt.23-12-12 |
| | year 2011-12 ne siddhne – pravutrio | |
| l l | T | 1 |

| | 1 20 | D 1 1 1 1 1 1 | D' DI 1 |
|---------|------|--|---|
| | 39 | Ranana amrut tarbuch thi vadhu aavak | Divya Bhaskar |
| | | | Dt.24-12-12 |
| | 40 | Unalu magfalini vainanik kheti | Gujarat Mitra |
| | | | Dt.31/12/12 |
| | 41 | Lohi ne suddh banavatu falavar | Divya Bhaskar |
| | | khedutne pan faydakarak | Dt.31-12-12 |
| | 42 | Kobij ma thodi savchetine sari aavak | Divya Bhaskar |
| | | melvo. | Dt.31-12-12 |
| | 43 | Pashu ma rashikaran nu mahatva | Krishi Vigyan |
| | | | Dec-12 |
| | 44 | Unalu magfalini vainanik kheti | Champion agro world |
| | | | Jan13 |
| | 45 | Krishi tantriki nu vistaran | Swadesh swapna |
| | | | Jan13 |
| | 46 | Unalu kathol pag dwara vadhu aavak | Divya Bhaskar |
| | | 1.8 | Dt.28-01-13 |
| | 47 | Unalu magfalinu bamanu uttpadan | Divya Bhaskar |
| | ' ' | melvo. | Dt.04-02-13 |
| | 48 | Unalu magfalinu bamanu uttpadan | Krishi Vigyan |
| | 10 | melvo. | Jan13 |
| | 49 | Unalu magfalinu bamnu uatapadan | Divya Bhaskar |
| | 1/ | melavo | Dt.4-02-13 |
| | 50 | Unalu magfalini vaigyanik kheti | Kisan Sandesh |
| | 30 | Onaru magramii vargyamk kneu | Dt.11/02/13 |
| | 51 | unalu kathol pakoni kheti paddhti | Kisan Sandesh |
| | 31 | unaru katnor pakom kneti padditi | |
| | 50 | Delegate and a successful and the latter of the successful and the suc | Dt.18/02/13 |
| | 52 | Rojeda aaharma shakabhaji nu mahtav | Krishi govidhya |
| | 52 | 11 | Mar-13 |
| | 53 | khiru:navjat pada/vacharda mate aeka | Krishi govidhya |
| | | amulya kudartibhet | Mar- 13 |
| | 54 | krushino etihash : vishvma vaigyanik | Swdesh Swpna |
| 2012.14 | | kheti vikash | Mar-13 |
| 2013-14 | 1 | Sweetcornni kheti thi aathik vikas taraf | Swadesh swapna |
| | | | 2/4/13 |
| | | | |
| | 2 | Unalani rutuma pashuo mate Panini | Khetini vat |
| | | agattya | April'13 |
| | 3 | Vansadana kheduto tunkaganama | Agro Sandesh |
| | | uttpadan aapti sweetcornni kheti taraf | April'13 |
| | | valya. | |
| | 4 | Dangerni NAUR-1 jat thi posansham | Agro Sandesh |
| | | uttpadanma safalta | April'13 |
| | 5 | Chomasani rutuma pashuoni tandurrsti | Champion Agro world June- 2013 |
| | 6 | Krishi tantriki nu vistaran | Swadesh swapna |
| | 7 | Swasthy vadhak soyabean | Krishi Vigyan |
| | | | June'13 |
| | 8 | Tuvarni vaignik khethina mudrao | Krishi Jivan |
| | | | July'13 |
| | 9 | Bio fertilizer dwara chikunu 25% | Divya Bhaskar |
| | | uttpadan vadhyu. | 30 September,13 |
| | 10 | Safal bagayat khetini tarkib | Kisan Swadesh |
| | | | October'13 |
| | 11 | Gunomo bhandar-shakbhji | Kisan Swadesh |
| | 11 | Canonio Chanau Bhakonji | October'13 |
| | | l | 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 |

| | - | | T |
|---------|-----|---|--------------------------------------|
| | 12 | Pragtisil khetine panthe | Champion Agro world |
| | | | November-2013 |
| | 13 | Tamam Krishi par nibharar tyarr | Divya Bhaskar |
| | | khedutone avaganan aadttatjanak | 11 November,13 |
| | 14 | Aapnu swasthy ane anaemia | Krishi Vigyan |
| | | | 30 November,2013 |
| | 15 | Deshni 58% thi vadhare vasti sidhi khet | Aavdh times |
| | 10 | par aadharit che. | 26 November,2013 |
| | 16 | Kheti ane khedutnu mahtav | Kisan Sandesh |
| | 17 | Jamin ane paninu prutthakanne karavvu | Krishi Vigyan |
| | 1 / | shha mate jaruri che | November.2013 |
| | 18 | | |
| | 10 | Gajarni vaignik khethi padhdhti | Champion Agro world November-2013 |
| | 19 | Rojenda aaharma shakbhajinu mahtav | Champion Agro world |
| | 17 | Nojenda danarma snakonajmu mantav | November-2013 |
| | 20 | Doshunalanma nadi/ yaahhradina | Kheti ni vat |
| | 20 | Pashupalanma padi/ vachhradina | |
| | 21 | uchhernu mahtav | June-2013 |
| | 21 | Kerina pakne 50% nukshanni bhiti | Divya Bhaskar |
| | | | 22 January,14 |
| | 22 | Kitchen garden aetle gharni shobha | Divya Bhaskar |
| | | shathe taja shakbhaji | 17 February,14 |
| | 23 | Kitchen garden aetle gharni shobha | Sahkar |
| | | shathe taja shakbhaji | 3 March,14 |
| | 24 | Unalanu magfalini vaignik kheti | Swadesh swapna |
| | | | 25 February,14 |
| | 25 | Shisuno Shreshtha aahar matanu dudha | Krishi Vigyan |
| | | | March-2014 |
| | 26 | Vermicompost khatar banavva mate | Divya Bhaskar |
| | | shed ane bad kevi rite taiyar karsho. | 25 march,14 |
| 2014-15 | 1 | krushi xere aagavu pradan karnari | Divya Bhasakar |
| 201110 | | mahilaonu vishesh sanman | 7/4/14 |
| | 2 | krushi xere vesesha fala thaki mahila | Divya Bhasakar |
| | | khedutone vishesh nondha levai che. | 21/4/14 |
| | 3 | Mahila krushakni mahenat beeja | Divya Bhasakar |
| | 3 | | 28/4/14 |
| | 1 | kheduto mate pan praranadayak | |
| | 4 | Marchima aadhunik kheti paththi thi | Divya Bhasakar |
| | | saru valtar | 5/5/14 |
| | 5 | Choli pak pachhi uttpadan chomasu | Champion agro world |
| | | dangarma vadhu | May-14 |
| | 6 | matsaypalanma khatar upyogno sidho | Swadesh swapna |
| | | sanbanth | May-14 |
| | 7 | Shixat khedut dwara bhidani safla kheti | Samana |
| | | | May-14 |
| | 8 | rojida aaharma antioxidant tatvinu | Swadesh swapna |
| | | mahtav | May-14 |
| | 9 | Sendiray khethithi haldarnu gunvatta | Samana |
| | | sabhar uttpadan | May-14 |
| | 10 | Tajyono sathe rakhi haldarma aavak | Divya Bhasakar |
| | | melvo | 26/5/14 |
| | 11 | kheti ane khedutnu mahtav | Sahkar |
| | | mion and mioduliu mandy | |
| | | | 1 29/5/14 |
| | | Falnakoma dhanacht vavatar naththi an | 29/5/14 Kisan Sandesh |
| | 12 | Falpakoma dhanesht vavetar paththi ae | Kisan Sandesh |
| | | Falpakoma dhanesht vavetar paththi ae aavnar samapanne jaruriyat Choli pak pachhi chomashu dangarma | |

| | vadhu uttpadan | June-14 |
|---|--|---------------------|
| 1 | • | Kisan Sandesh |
| | mahtav | 9/6/14 |
| 1 | 5 Prati hekatare 200 tan seradi pahavato | Divya Bhasakar |
| | khedut | 23/6/14 |
| 1 | 6 Kitechen gardenni safalvarta | Ek prayas |
| 1 | o Kitechen gardenni sararvarta | 25.6.14 |
| 1 | 7 ghar aangane sakabhajee (Kitchen | Kisan Sandesh |
| 1 | garden) | 23/6/14 |
| 1 | E ' | Samana |
| 1 | ujvani | 27/6/14 |
| 1 | 9 khedutone jarur pramane talim aapatu | Samana |
| | KVK | 27/6/14 |
| 2 | | Swadesh swapna |
| | mahauttam kheti | 27/6/14 |
| 2 | | Divya Bhaskar |
| | melvyo | 30/6/14 |
| 2 | - | Kisan Sandesh |
| | paththti | 3/7/14 |
| 2 | | Kisan Sandesh |
| | chaveerup mudo | 3/7/14 |
| 2 | 1 | Swadesh swapna |
| | karato | 1/7/14 |
| 2 | | Kisan Sandesh |
| | Tanada (angian inita) padalahi | 7/7/14 |
| 2 | 6 Falpakoma dhanist vavetar paththti | Champion agro world |
| | (high density) ae avanar samayni | July-14 |
| | jarureyat | |
| 2 | | Champion agro world |
| | chaveerup mudo | July-14 |
| 2 | 8 Adad ni vaegnanek khete padhatee | chempiyan agrowarld |
| | | July- 14 |
| 2 | 9 Sweet corn ni khete the aadivasi | Saamna |
| | khedutona jivan ma mithas | 14/07/2014 |
| 3 | O Sweet corn ni khete the aadivasi | Atal savera |
| | khedutona jivan ma mithas | 14/07/2014 |
| 3 | | Divya Bhaskar |
| | khedutona jivan ma mithas | 14/07/2014 |
| 3 | 2 Aadhunik Piyat padhatee | Svadesh swapna |
| | | 08/07/2014 |
| 3 | 1 & | Atal savera |
| | nu mahatvanu paribal che | 21/07/2014 |
| 3 | , i | Atal savera |
| | taraf vadya | 25/07/2014 |
| 3 | - | Divya Bhaskar |
| | vadhu | 28/07/2014 |
| 3 | 6 Gramin mahilao ane poshtik aahar | Krishi vigyan |
| _ | | 04/08/2014 |
| 3 | | Divya Bhaskar |
| | kamani | 04/08/2014 |
| 3 | | Divya Bhaskar |
| _ | anokho prayog | 04/08/2014 |
| 3 | | chempiyan agrowarld |
| | padhate | Aug - 2014 |

| | 40 | C1 1 111 '' | 77 1 1 1 77 0 1 |
|---|------------|---|---------------------|
| | 40 | Ghar aangane shaakbhaji | Krishi Vikas Gaatha |
| | | | 01/08/2014 |
| | 41 | Shaakbhaji paakoma bija utpadan dvaara | Krishi Vikas Gaatha |
| | | vadhu aavak | 01/08/2014 |
| | 42 | Fal ane Shaakbhaji paakoma vividh trep | Divya Bhasker |
| | | (pinjar) dvara mota paaye jivat | 11/08/2014 |
| | | niyantran | |
| | 43 | Raasayanik khaatarna kaaryakxam | Kishan Sandesh |
| | 7.5 | upyogma jaevik khaatarno faalo | 18/08/2014 |
| | 44 | | |
| | 44 | Mashaala ane Tejaanano ghargathhu | Aek prayas |
| | | ausadhiya upyog | Aug - 2014 |
| | 45 | Be vinghaama 25000 na mag paakya | Divya Bhasker |
| | | | 25/08/2014 |
| | 46 | Mashaala ane Tejaanano ghargathhu | Krishi Vigyan |
| | | ausadhiya upyog | Aug - 2014 |
| | 47 | Krishi tajagnoni salah vade suran ni | Divya Bhasker |
| | | khetee ma dodhi aavak medavta khedut | 15/09/2014 |
| | 48 | Aadivashi khedut dvaara chanaa ni safal | Saamna |
| | 70 | kheti | 23/09/2014 |
| | 40 | | |
| | 49 | Vadhu utpadan ane aavak melavta | Saamna |
| ļ | | mahila khedut | 30/09/2014 |
| | 50 | Taametani kheti ma rs. 2.92 laakhni | Saamna |
| | | aavak melvi | 30/09/2014 |
| | 51 | Haldarni navi jaatni safal kheti | Saamna |
| | | | 30/09/2014 |
| | 52 | 8 vingha ma sherdi nu 282 tan utpadan | Saamna |
| | | melavu | 30/09/2014 |
| | 53 | Taameta thake 1.5 vingha ma j 3 laakh | Divya Bhaskar |
| | | kamaya | 29/09/2014 |
| + | 54 | Farmfera dot com atle Shaakbhaji dot | Divya Bhaskar |
| | J 4 | · · | _ |
| | <i>E E</i> | Com | 13/09/2014 |
| | 55 | Rojinda aaharma anti oxedant nu | Krishi Vigyan |
| | | mahatva | 11/11/2014 |
| | 56 | Daadamni Vaigyanik kheti | Krishi Jivan |
| | | | November - 2014 |
| | 57 | Sherdi – Uttam kheti karto uttam khedut | Aek Prayas |
| | | | November - 2014 |
| | 58 | Maatra paanch gunthama paapdi thake | Divya Bhaskar |
| | | 35000 ni chokhee aavak | 22/12/2014 |
| | 59 | Kaantasvelna khedutni ringan ane | Agro Sandesh |
| | | gilodani safal khete | 29/12/14 |
| | 60 | Aabama dhanist vavetar paththiti | |
| | UU | Aavama unamst vävetäi pätiitiiti | Ek prayas |
| | C1 | TD 11 333311 1 | Dec-14 |
| | 61 | Dangarni shree paththti khedutone nyal | Divya Bhaskar |
| | | kaya | 5/1/15 |
| | 62 | Papayama mulayvadhan | Ek prayas |
| | | | 22/1/15 |
| | 63 | rojida aaharma antioxidant tatvinu | Ek prayas |
| | | mahtav | 22/1/15 |
| | 64 | ghar aangane sakabhajee (Kitchen | Krushi jagran |
| | ОТ | garden) | Dec-14 |
| | 65 | Suryaprakash dwara malta vitamin-d ne | |
| | US | * * | Krishi Vigyan |
| | | agayata | Jan-15 |
| | 66 | rojida aaharma antioxidant tatvinu | Jal Jivan |

| | | mahtav | Oct-Nov-14 |
|---------|-----|--|------------------------------|
| | 67 | Unalu magfalima piyat vyavshthpan | Jal Jivan |
| | 07 | Chara magramna pryat vyavshtiipan | Jan-15 |
| | 68 | Suryaprakash dwara malta vitamin-d ne | Ek prayas |
| | | agayata | Feb-15 |
| | 69 | Tapak sechai vade apple borni 4 lakhne | Divya Bhaskar |
| | | aavak | 16/2/15 |
| | 70 | Kichen gardenma vividha sakabhjino | Samana |
| | , , | pak lai sakay | 9/3/15 |
| | 71 | Sweetcornne sugar-75 jatane safal kheti | Samana |
| | , 1 | sweeteerinie sagar 75 januare sarar inietr | 9/3/15 |
| | 72 | Unalu magafalima piyat vyavshthpan | Jal Jivan |
| | '- | Chara magaramia piyar vyavoninpan | 5/3/15 |
| | 73 | Papayama mulayvadhan | Krishi Vigyan |
| | ,3 | Tapayama maray vadman | March-15 |
| | 74 | Kheti ane khedutnu mahtav | Ek prayas |
| | ' ' | Tribet and Ricadina mantav | Feb-15 |
| 2015-16 | 1 | Kitchen Garden ek sarv anubhav | Ek Prayas April - 2015 |
| 2013-10 | 2 | Kitchen Garden thaki swachh swsth | Divya Bhasker – 09-04-2015 |
| | | shakbhaji melvo | Divya Bhasker 07 04 2013 |
| | 3 | Kitchen Garden ek Sarv anubhav | Jal Jivan April - 2015 |
| | 4 | Lal chokhani vighama 26000 ni aavak | Divya Bhasker 18-05-2015 |
| | 5 | Dangar ni GNR -4 jat ni kheti no safal | Samna, May - 2015 |
| | | prayog | Saiima, Way - 2015 |
| | 6 | Matra 10 guntha ma 1700 kg Ringan | Divya Bhasker 1-06-2015 |
| | | melyta khedut Gamanbhai Patel | Divya Bilaskei 1-00-2015 |
| | 7 | Margdarshan thaki 5 kg ni machhali | Divya Bhasker 8-6-2015 |
| | ' | taiyar kari | Divya Bhasker o o 2013 |
| | 8 | Aankh ni jalvni mate vitamin-A ni | Ek Prayas June -2015 |
| | | agatyata | Ek Trayas sane 2015 |
| | 9 | Aankh ni jalvni mate vitamin-A ni | Jal Jivan April-May -2015 |
| | | agatyata | Jai Jivan Apin-Way -2015 |
| | 10 | Masala ane tejanao ghargatthu | Ek Prayas May -2015 |
| | 10 | Aushadhiy Upyog | Eki Tayas Way 2013 |
| | 11 | Alasi | Krishi Vigyan June -2015 |
| | 12 | Kheti ma mishra ane Aantarpak paddhati | Krishi Jivan June -2015 |
| | 12 | ane tena fayada | |
| | 13 | Yogik shaktio krushima upyog etle | Samna, 29-06-2015 |
| | | swasthya yogik krushi | |
| | 14 | Yogik shaktio krushima upyog etle | Divya Bhaskar |
| | | swasthya yogik krushi | 29-06-2015 |
| | 15 | 2 Vinghama onion ni kheti kari 63000 | Divya Bhaskar |
| | | ni chokhi avak melvati aaj ni mahila | 19-08-2015 |
| | 16 | Sukshm piyat padhhati aaj ni jaruriyat | Krishi Jivan |
| | | | June-July -2015 |
| | 17 | Bhoogarbh jal sanchay ane teno kheti | Jal Jivan June-July -2015 |
| | | ma karyaksham upyog | 2010 |
| | 18 | Kheti ma mishra ane aantarpak padhhati | Krishi Jagran- August -2015 |
| | | thi ane tena fayad | Titioni sugium Tiugust 2015 |
| | 19 | Nindaman : Kheti ma chhupo dushman | Krushi Jagran |
| | | Timaman . Timon ma emiapo dusimian | June-August-2015 |
| | 20 | Aankh ni jalvni mate vitamin-A ni | Krishi Vigyan, Saptmber-2015 |
| | 20 | agatyata | Tarism vigyan, Sapunoci-2013 |
| | | agaryara | |

| | 21 | Krushi pako m rasayanik davaone aapo | Swadach Swanna |
|---------|----|--|--|
| | 21 | samajne tandurast rakhava kheduto | Swadesh Swapna 15-12-2015 |
| | | jagrut | 13-12-2013 |
| | 22 | Krushi Scientist e karyu vatana ma | Kruhi Prabhat |
| | 22 | samrudhhi vavetar | 07-02-2015 |
| | 23 | Aadhunik piyat padhhati | Swadesh Swapna |
| | 23 | Aadiidiik piyat padiilad | 12-1-2016 |
| | 24 | Chana ni Safal kheti utpadan ane Avak | Navsari Times, January-2016 |
| | 24 | ma vadharo | Navsair Times, January-2010 |
| | 25 | Abramana mahila khedut Kantaben | Navsari Times, 1/2/2016 |
| | 23 | mahila khedut ne navo rah chindhe chhe. | Navsaii iiiies, 1/2/2010 |
| | 26 | Unalu magni vaignanik kheti | Krishi vigyan, January-2016 |
| | 27 | Kachchha no prenna pravas dhyey sathe | Krishi yigyan, January-2016 Krishi prabhat, February-2016 |
| | 21 | mahenatthi ranma khile ful | , |
| | 28 | Varmicomost | Krishi Vigyan, February-2016 |
| | 29 | Meha jatna mag ni kheti dwara sari | Navsari times, 3/4/2016 |
| | | avak melvi | |
| | 30 | RKVY yojana antargat chikuni | Dr. C. K. Timbadia, Swades |
| | | safalvarta | swana, 12/4/2016 |
| | 31 | Vishva ruthvi dinni sachi ujaani karva | Divyabhaskar, 22/4/2016 |
| | | kheduto ne aadhunik khetima jaminni | |
| | | janvani mate jamin ane aninu ruthkaran | |
| | | karvu jaruri chhe. | |
| | 32 | SUCCESS STORY – PADDY, SRI (C. | Krishi jagran, Aril-2016 |
| | | K. ATEL) | |
| | 33 | Mother's day | Divybhaskar, 8/5/2016 |
| | 34 | Soldara ma Asmitabene madhuchher | Navsari times, 30/5/2016 |
| | | pravruti thi temani jindagi madhmadhati | |
| | | thai. | |
| | 35 | Adhunik iyat adhdhati | Swadesh swana,31/5/2016 |
| | 36 | Krushi no etihas : Vishva ma vaignanik kheti vikas | Swades swapna, May-2016 |
| | 37 | Safalvarta: Paddy, SRI (C. K. Patel) | Ek prayas, July-2016) |
| 2016-17 | 1 | Meha jatna magni kheti dwara sari aavik melvi | Navsari Times |
| | 2 | RKVY yojana aantgat chikuni safalvatra | Swdesh Swapan |
| | | j sjama aantgat ennam satarvatta | apan |
| | 3 | Vishav pruthavi dinni sachi ujavani | Divya Bhaskar |
| | | karava khedutoe aadhunik khetima | |
| | | jaminni jalvani mate jamin ane paninu | |
| | | pruththkaran karavvu jaruri che, | |
| | 4 | Sucess story | Krishi Jagran |
| | | Paddy SRI (C.K.Patel) | |
| | 5 | Bharatni khetima mahilaoni bhumika | Krishigovidhya |
| | 6 | Krushi Vigyan Kendra Navsarina | Navsari Times |
| | | samparkma avya baad vadhu utpadan | |
| | | ane aavak medvel khedutni safalgatha | |
| | 7 | Krushino itihaas: Vishwma vaighnanik | Swdesh Swapan |
| | ′ | khetino vikas | |
| | 8 | Mother's day | Divya Bhaskar |
| | 9 | Soldharana asmitaben madh uchar | Navsari Times |
| | | pravutithi temani jindgi madhmadhthi | |
| | | thai | |
| | | | |

| 11 Swa- Sahay juth dhwara mahilaonu sashaktikaran 12 KVK, Navsarina safal khedutni safalya gatha : Ochha pani ane kharehe vadhu utpadan aapati dangarni SRI padhhati 13 Balposhan ni jaruriyat 14 Daxian gujaratna anek kheduto aaduni kheti taraf valya. 2017-18 1 Parval Nu Postik Ane Aovasodhiy Mulya 2 Tapak Piayt Padhhati Na Faydao Krushi Go Vidhya May -2017 2 Tapak Piayt Padhhati Na Faydao Krushi Jivan May -2017 4 Shaikshanik Hab Eru Char Rasta Vistar Divya Bhaskar June -2017 5 Aadhunik Piyat Padhhati Swadesh swapna 20-06-17 6 Aadhunik Piyat Padhhati Swadesh swapna 01-08-17 7 Kishan Din Vishesh Divya Bhaskar June -2017 8 Rigan, Tameti Ane Marchina Rogo Ane ten Uniyantran fen ten Uniyantran dharvati mag ni aasasapd navi jat-Gujarat Mag-6 2 RKVY yojana antagrat chiku ni safal varta 3 Manushy aahar ma machhli nu mahtav Arishi Govidha June and Arishi Arakarak kheti 5 Aadhunik kheti khaetre mahilaoni pragati 6 Mari-masala vividh banavato 7 Fal ane sakabhajinu aaharma ma Varishtham 8 Parval ni vaiganik kheti Krishi Jivan 1 International Women's Day 2014 2012-13 1 International Women's Day 2015 2014-15 1 International Women's Day-2015 2015-16 - 2017-18 1 Sankalp se Sidhdhi 4 4 | | 10 | Aadhunek piyat paththti | Swdesh Swapan |
|--|---------|----|---|---------------------------------------|
| Sashaktikaran 12 KVK, Navsarina safal khedutni safalya gatha : Ochha pani anc kharche vadhu utpadan aapati dangarni SRI padhhati 13 Balposhan ni jaruriyat Krishigovidhya 14 Daxian gujaratna anek kheduto aaduni kheti taraf valya. 17 Parval Nu Postik Ane Aovasodhiy Mulya May -2017 18 19 Parval Nu Postik Ane Aovasodhiy Mulya May -2017 19 Parval Nu Vegyanik kheti Apnavo Krushi Go Vidhya May -2017 19 Parval Ni Vegyanik kheti Apnavo Krushi Go Vidhya June -2017 19 Parval Ni Vegyanik kheti Apnavo Krushi Go Vidhya June -2017 19 Parval Ni Vegyanik kheti Apnavo Krushi Go Vidhya June -2017 19 Parval Ni Vegyanik kheti Apnavo Krushi Go Vidhya June -2017 10 Parval Ni Piyat Padhhati Swadesh swapna 20-06-17 10 Parval Padhhati Swadesh swapna 20-06-17 10 Parval Padhhati Swadesh swapna 20-06-17 10 Parval Padhhati Swadesh swapna 20-108-17 10 Parval Padhhati Swadesh swapna 21-12-17 10 Parval Padhhati Swadesh swapna 21-12-17 10 Parval Padhhati Parva | | | | |
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| 13 Balposhan ni jaruriyat | | 12 | gatha: Ochha pani ane kharche vadhu | Ek Prayas |
| 14 Daxian gujaratna anek kheduto aaduni kheti taraf valya. 2017-18 | | 13 | | Krishigovidhya |
| 2017-18 | | _ | Daxian gujaratna anek kheduto aaduni | · · · · · · · · · · · · · · · · · · · |
| Mulya | | | | |
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| 2 Breast Cancer Awareness programme | | 3 | Ma | hila Kisan Diwas | 1 |
| A | 2018-19 | 1 | Far | rmer's Meet | 4 |
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| 33 vividh prakarna athanani banavat 2012-13 | | 31 | Sagarbha stree mate poshak aahar | 2012-13 |
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| 35 Kerini vividh banavato 2012-13 | | 33 | | 2012-13 |
| 36 | | 34 | Nagali khayo ane nirogi raho | 2012-13 |
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| 18 Sumishit pashudan | | | | |
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| vyavstha | | 19 | Gabhan pashuma aahan ane prajnan vyavstha | |
| 20 Dudhla pashuoma bypass tatvoni | | 20 | | |

| | | jaruriyat | |
|----------------|----|---------------------------------|----------|
| | 21 | Pashuom mate agyatnu dhatak- | |
| | 21 | swach pani | |
| | 22 | Pashuo mateni mineralni agtyata | |
| | 23 | Amlani banavato | |
| | 24 | Khathypadthma thati belsel | |
| | 25 | Libuma mulvardhan | |
| | 26 | Marimasalani banavat | |
| | 27 | Nagali khao ane nirogi raho | |
| | 28 | Soyabenni vividh vanagio | |
| | 29 | Sharir mate mulyavardhak | |
| | 23 | soyabean soyabean | |
| 2017-18 | 1 | Parval Nu Postik Ane Aovasodhiy | |
| 2017-10 | 1 | Mulya | |
| | 2 | Tapak Piayt Padhhati Na Faydao | |
| | 3 | Parval Ni Vegyanik kheti Apnavo | |
| | 4 | Shaikshanik Hab Eru Char Rasta | |
| | _ | Vistar | |
| | 5 | Aadhunik Piyat Padhhati | |
| | 6 | Aadhunik Piyat Padhhati | |
| | 7 | Kishan Din Vishesh | |
| | 8 | Rigan, Tameti Ane Marchina Rogo | |
| | O | Ane tenu Niyantran | |
| Books | | Vaigyanik Pashupaalan | Jully-11 |
| Doons | | Bharatnu Pashudhan | Jully-11 |
| | | Manay Santulit Poshan Aahaar | Aug-11 |
| | | Innovative Farmers meet-2011 | Nov-11 |
| | | 2012-13 & 2013-14 | |
| | | Sarkarshrini khedutlakshi sahay | |
| | | yojna | |
| | | Shakabhji pakoni kheti | |
| | | Gram talav ma matshay palan | |
| | | Swasthay ane poshak aahar | |
| 2017-18 | | Sajiv kheti | |
| 2018-19 | | Gaam thalavoma matsyapalan | |
| | | vyavastha | |
| | | Organic Farming | |
| Reports | | | |
| published in | | | |
| ICAR | | | |
| Reporters: | | | |
| Impact Studies | | | |
| Others, if any | | | |



Orașa De la Contra de la Contra

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Book published

Book published

Press released

નવસારીમાં સજીવ ખેતી મંડળીમાં 200થી વધુ ખેડૂતો ભાગીદાર બન્યા



प्रभाव के प्रतिकार करने के कि प्रभाव के कि प्रमाव के कि प्रभाव के कि

દેશમાં પ્રથમ નવસારી જિલ્લામાં ઓગેનિક સોસાયટોમાં ૧૨૦૦ ખેડૂતોને આવરી લેવાશે: જિલ્લા વિકાસ અધિકારી તુષાર સુમેરા

प्रशासी विकारण कार्योप के प्रधान क्षेत्र कार्योप कार्य कार्या कार्य कार्य कार्य कार्य कार्य कार्य कार्य कार्य इति कार्यापी कार्या कार्य कार्य

प्रथम कार्य के पार्थ पर्धा का वार्थ का की के कीवार्थ कीवार्य का प्रथम कीवार्य के अधिक कीवार्य की अधिक का प्रथम का का की अधिक कीवार्य की अधिक का प्रथम कीवार्य की अधिक कीवार्य कीवार्य की अधिक कीवार्य कीवार्य की अधिक कीवार्य कीवार्य

ધનોરીમાં આધુનિક કૃષિ અંગે માર્ગદર્શક કાર્યક્રમ યોજાયો

નવામારી કૃષિ ધૂરિવાર્સિટીના કૃષિ વિશાન કેન્દ્ર કારા નવામારી શાલામાં દેશ તાલુકાનાં ત્રણ ગણનું પર્યાણી કરી ત્રેલ વર્ષ કૃષ્ટી કેશાનિકોની દેખરેખ હેઠળ આપૂર્વેલ પ્રધાનિકો ખેતી કરવામાં આવે છે. આપાપી ત્રણ વર્ષ પાટે ગણદેવી તાલુકાના પત્રીદી ગામને વૈજ્ઞાનિકોની દેખરેખ હેઠળ ખેતી કરવા માટે પાકેદમી દેખરેખ હેઠળ ખેતી કરવા માટે પાકેદમી દેખરેખ હેઠળ ખેતી કરવા માટે પાકેદમી કરવામાં આવી હતી. જે પાટે પત્રીદે શાયનાં કારાંચ ખુકેશભાઇ હળપાંદિ, પિલત શહ્કાથી મંત્રીના પ્રમુખ સમિતભાઇ નાયક, હેલે સહત્કારી મોલ્યીના પ્રમુખ પિટીશભાઇ નાયક, હવે પહારેલ પારેસના દ્રશી પરેશભાઇ નાયક તથા પહિલા મોલ પત્રીદેના શ્લાપોલાથી કૃષ્દિ વિશાન



કેન્દ્રના વરિષ્ક વૈજ્ઞાનિક અને વડા છે.સી. કે.ટીમદીવા તથા તેમના વૈજ્ઞાનિકોની ટીમ 3. ટીખરિયા તથા તેમના વૈજ્ઞાનિકોની ટીખ દારા પાર્ટી લીપેટરી ફેર્સા એપેટલાનો કાર્યકર્મ પાંચવાઓ આવ્યો હતો. ભાગ મંત્રી આપના ફ્રાંટરી અંકોલે, મેડુલીની પાક પંખીત, લાઉલ્ડ માનો તથા આપાપી દિલ્લોના લાઇ પરાચલ માને બાદ આપાપી દિલ્લોના લાઇ કરાવાના આપી હતી. જેમાં શાંપજનીએ સહભાળી થઇ કાર્યક્રમને મકલ ખનામાં હતી.

દક્ષિણ ગુજરાતના અનેક ખેડૂતો આદુની ખેતી તરફ વળ્યા

का पंचार प्रकृत पूर्व कर एक स्तू विद्युर्का । ते का रे कार प्रकृत के विद्युर्का के के कार्य कर इस प्रकृत करवार का की कई की कार्य क

वरी पर्यक्त सामा हुत करे वर्ग वर्ग म से प्रयक्त से अस्त के अस्त किया के प्रवक्त

व्यापाल कृतिक कर कार्र क्षा कर करने में भारत करने कि भारतिकार परिवार कर पूजार करके आहे कि मांसु ब्रिट के कर कार्य कार्य करने कृत मान में स्थाप कर्म कर के देवनके के कार्य के करने कर कर के कार्य कर कर के कार्य कर कर कर कर कर कर कर कर कर ने पात को क्यों के प्रारं के साथ की मान के मान कि मान कि मान कि मान के मान कि मान के मान कि मान कि मान कि मान मान कि मान

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નવસારો કૃષિ યુનિવસિટીના કૃષિ વિજ્ઞાન કેન્દ્ર ખાતે સજીવ ખેતી અંગે પરિસંવાદ યોજાયો : ૨૦૦ ઉપરાંત ખેડતોને સજીવ ખેતી અંગે માર્ગદર્શન આપવામાં આવ્યું



નવસારી કે.વી.કે. દ્વારા વિશ્વ પર્ચાવરણની ઉજવણી કરાઇ

प्रदेशकार के प्रकार के क्षेत्र के प्रकार के क्षेत्र के

50. Constraints faced in implementing KVK activities and your suggestions to overcome them.

• One regular staff is required to run the seed hub project successfully.

51. Any other information not covered above

Frontier home science technologies for knowledge and economic empowerment for rural development

KVK, Navsari had different activities to empower the women by gave capacity building programme since 8 years for betterment of farming community. Moreover, among the so many activities some the case studies are present here under.

1. TRIBALS' RAGI BOOSTS LIVELIHOOD

Name of Farmer women Asmitaben Ashokbhai Patel

Village Soldhara Taluka Chikhli

District Navsari, Gujarat
Mobile No 8140686838
Age 38 years
Education B. A.



- Before contact with KVK:
- Ragi commonly used only for *Rotla* preparation in Tribal area.
- Unaware about nutritional value and value addition of Ragi.
- > Small scale farming was only source of income.
- After KVK intervention (Technology and Marketing):
- Aware about importance and benefit of Ragi in our diet.
- ➤ Being a rich source of calcium, Ragi helps people of different age groups for bone formation and its strength.
- > Technology adoption of Ragi's value added products such as Biscuits, Papad, Papadi, etc.
- ➤ Benefited by market linkage provided through KVK.
- Effects of KVK intervention:
- Fresh and hygienic Ragi products available at low cost.
- ➤ Adulterant free product.
- > Providing earning skill development of other tribal farm women through guidance.
- ➤ Other products like Amala candy, Chiku chips, Pickles, Squash, etc were prepared.
- > Improved socio-economic status.
- ➤ Honeybee productions along with eco tourism at village level improved her social status.

- > Integration of fish farming along with chicks and ducks inspires rural youth for livelihood earning opportunity.
- > Multi disciplinary and extra ordinary activities.
- ➤ More than 3000 people visit her farm on annual basis.
- Income generated: Rs. 40000/ month









2. ENTREPRENEURSHIP DEVELOPMENT THROUGH VALUE ADDITION IN ROSE : GULKAND

Name of Farmer women Shamshadbanu Zakirhussain Mulla

Village Khergam Taluka Navsari

District Navsari, Gujarat Mobile No 9924897365 Age 40 years



Education 9 Pass

- Before contact with KVK:
- > Selling Roses at lower costs nearest market.
- > Unaware about value addition in Rose.
- ➤ Technological lacuna for Gulkand production.
- ➤ No sustainable income source.
- After KVK intervention (Technology and Marketing) :
- ➤ Technology adoption to use fresh and organically produced rose for Gulkand production and packaging.
- > Started to use their own agricultural waste and cattle manure to cultivate organic Rose.
- ➤ Application of home made Panchgavya to prevent pest and diseases.
- ➤ Provided market platform through various programmes.
- Effects of KVK intervention:
- > Fresh and hygienic Rose cultivation
- ➤ Adulterant free product.
- ➤ Entrepreneurial skill of Gulkand also leads her towards other products of rose such as Rose water, Rose syrup, Face pack, Dry rose petals, etc.
- > This activities improved socio-economic status.
- ➤ Instead of living on meager income produced by selling just Roses, she earns handsomely from value added products.
- Income generated:

Rs. 1.25 lakh/ six month







Preparation and marketing of Gulakand

3. MICRO ENTERPRISE PROMOTION- JAI AMBE SHG, NAVSARI

Name of self help Group Jai Ambe KVK SHG

Village Pathari Taluka Gandevi

District Navsari, Gujarat

Group Leader Sakuntalaben Bhagubhai Patel

Mobile No 8758662829 Age 52 years Education 10th pass



- Before contact with KVK:
- > Unaware of different types of homemade masala
- Lack of Knowledge about how to prepare Masala/receipies
- > There was no income for the group
- After KVK intervention:
- Adoption of technology by using fresh and hygenic spices and condiments in a proper quantity to prepare masalas
- > Started using their own agricultural produce as raw material
- ➤ Learnt to prepare different recipes of masala
- Live their life with a sense of self worth, respect and dignity
- Effects of KVK intervention:
- > Fresh and hygienic masalas.
- Adulterant free spices of better qualities.
- Improved knowledge about preparation of different types of masalas viz., tea masala, garam masala, pav-bhaji masala, chhole masala, sambhar masala, fruit masala, pulav masala, chat masala, etc.
- > Save the money, time and improved the health of family member.
- > Rural farm women are inspired for masala making training.
- > Upliftment of financial status of the group.
- > Positive effect on social status.

• Income generated: Rs. 25000/ month



Preparation and marketing of Masala

4. CREATIVITY LIGHTS THE LIFE

Name of Farmer Alpanaben Maheshbhai Patel

women

Village Vasan Taluka Gandevi

District Navsari, Gujarat Mobile No 9408188115 Age 47 years

Education Post Graduate



Before contact with KVK:

➤ Simple 'Diyas' (a traditional earthen lamp) were used for selling.

- No idea about decorated 'Diyas'.
- ❖ After KVK intervention :
- Got opportunity to visit at Surat through KVK, Navsari in Agricultura Exhibition and visited one stall of decorated 'Diyas'.
- ➤ Got the idea about creativity in 'Diyas' from there.
- Effects of KVK intervention:
- Creativity in simple raw 'Diyas'.
- ➤ Increased knowledge about different colorful 'Diyas'.
- Supplement the household income.
- ➤ Income generation to SHG women.
- Attractive packing increase selling price.
- Foreign countries (China) dumped their products in India which destroyed our market; these types of activities enhance Indian market.
- ❖ Income generated:
- Rs. 30,000 /month









Preparation of decorative Diya and its marketing

5. RAKHI- A SYMBOL OF LOVE

Name of Farmer women Madhuriben Ashwinbhai Patel

Village Vasan Taluka Gandevi

District Navsari, Gujarat Mobile No 9737970717 Age 44 years

Education 10th Pass (S. S. C.)



- ❖ Before contact with KVK :
- > She was just an ordinary housewife and farm woman.
- Eager to establish small scale business.
- Lack of knowledge had impended her success.
- ❖ After KVK intervention :
- ➤ Provide information about preparation of 'Rakhi' from raw material.
- Development of significant challenge for starting a '*Rakhi*' business.
- ❖ Effects of KVK intervention:
- Enhance creativity in '*Rakhi*'.
- ➤ Improve knowledge about preparation of various types of '*Rakhi*' from raw material.
- Supplement the household income.
- Follow-demand driven product.
- Overall benefits to farmers; socio-economic benefit to the rural/farming community.
- Income generated :
 - Rs. 20,000 / months









52 Final Considered Views: In your perceived opinion, Please enlist five points in order of merit that your KVK could have performed far better if

- KVK Navsari identified that two to three group leader (male/female) from more than 125 villages and mobilize the farmers through the group leaders and continuously technical guidance and capacity build up of the leaders will be carried out on regular basis.
- ii) Use of ICT and audio- video conference to disseminate the technologies among the farming community through the Reliance foundation
- iii) KVK Navsari has not only conducted ASCI skilled training programmes on shrimp farming as formal way but provided technical supports to farmers to start their own shrimp farming entrepreneurship and now shrimp farmers have harvested crops successfully.
- iv) KVK, Navsari made maximum convergence with line department /NGOs/ cooperative societies/other societies/public sectors/private sectors for the upliftment of farmming community.

- v) KVK, Navsari made MoU for the large scale adoption of Paddy variety GNR-2/NAUR-1 in farming community and made easily available certified seed to farmers by MoU of producing seeds with Navsari Taluka Kharid Vechan Sangh, Navsari
- vi) KVK Navsari focused and gave more important to resource utilization through technical backstopping for employment generation and nutritional security i.e Fish farming activities in village tanks, khet talavadi, kharland water harvesting ponds, courtyard tanks, stone quarry along with kitchen gardening and live stock integrations.

Annexure I

STATUS OF RESEARCH - EXTENSION LINKAGES AT THE DISTRICT LEVEL

i. What kind of mechanism exists for local coordination of the front line extension demonstration between the KVKs and the State Govt.

| S.No. | Name of organization | Area of collaboration/ interaction | | |
|-------|---------------------------------|---|--|--|
| 1. | Dept. of Agriculture | Participation | | |
| | | * Khedut Shibir/Krishi Mela | | |
| | | * Trainings | | |
| | | * Soil Health Card | | |
| | | * Extension Activities | | |
| 2. | Dept. of Horticulture | Participation | | |
| | | * Khedut Shibir | | |
| | | * trainings | | |
| | | * Extension Activities, NHB & NHM | | |
| 3 | Dept. of Animal husbandry | * Khedut Shibir | | |
| | | * trainings | | |
| | | * Extension Activities | | |
| | | * Animal health chech up camp | | |
| 4 | Govt. of Gujarat | Collaboration – Krishi Mahotsav, ATMA | | |
| | | Convergence | | |
| 5 | Dept. of forestry | Participation | | |
| | | * trainings | | |
| | | * Extension Activities | | |
| 6 | NAU, Navsari | For Technical products, technical guidance and | | |
| | | supports. | | |
| 7 | RSETI, Navsari | Organizing Self Employment Training for Farm women & organic farming programmes | | |
| | | | | |
| 8 | DIC, Navsari | For Agro-based industries trainings and finance | | |
| | | to the needy clienteles. | | |
| 9 | Kamdhenu Universiry-Gandhinagar | Training Programme and Extension Activities | | |
| 10 | ATMA-Navsari (State level) | * Khedut Shibir/Krishi Mela | | |
| | | * Extension Activities | | |
| | | * Training | | |

ii. What is the frequency of Scientific Advisory Committee Meeting for KVK during last 8 years?

Scientific Advisory Committee Meeting for KVK has been conducted once per year since 2011 to 2019, except twice in year 2013-14.

iii. No. of monthly workshops organized

Total 18 no. of Workshop organized during 2011-12 to 2018-19.

- iv. Frequency and no. of staff participated in seminars at Zonal, State and National level.
 - **Zonal level workshop/seminar attended** :. 12
 - <u>National level workshop/seminar</u>: 17
 - State level workshop/seminar : 23
 - Whether the local NGO's are involved in KVKs programmes- Yes
- v. Whether the FPOs/FPCs are promoted (Specify Names with members and activities) and become visible in their activities

Nil

vi. Whether the local Mahila Mandal or Farm Science Clubs are promoted and become visible in their activities -

The Self Help Groups are formed and promoted by periodically meetings, need-based training programmes; vocational training, Mahila shibirs etc. and they have turn into visible in their activities like preparation of masala, preparation of decorative Kodiya, flower wash, Making rakhi preparation of decorative items from coconut coir, preparation of raxine bag etc. Smt. Alpnaben Patel, women of Vasan village of Navsari block is preparing decorative Kodiya, flower wash, Making rakhi and marketed their product in local bazar.

vii. A brief about the extent of contribution of the officials of various line departments and joint programmes undertaken.

ATMA- Trainings and Demonstrations, FFS, Soil Testing, DAESI, Study tours MANAGE- ACABC

NDDB- Ration Balancing Programme

State Agri. Department-Training, Soil testing, Guest lectures

Dept. of Animal Husbandry

NHM- Plant Health Clinic, Skirting bag

ATMA Navsari- Interstate Training

Dept. of Horticulture, HP- Training to extension personnel

viii. No. of monthly workshops of state agril. department attended / participated.

. 12

Annexure II

Impact of KVK in Terms of Agricultural and Animal Productivity, Socio-economic Conditions and Employment Generation during the QRT period in the Adopted villages

| S. No. | Item | Unit | Prior to KVK | Post KVK activities |
|--------|-------------------------------------|----------|--------------------|----------------------------|
| 1. | Change in cropping intensity | (%) | 113% | 129% |
| | | | | |
| 2. | Change in productivity of | (0.14) | 20 | 24.5 |
| | 1. Rice | (Qtl/ha) | 28 | 34.5 |
| | 2. Sugarcane | | 65.6 | 70.57 |
| | 3. Gram | | 12.4 6.3 | 14.8 |
| | 4. Pigeon pea | | 74 | 7.2 89 |
| | 5. Okra 6. Mango | | 83.27 | 94.23 |
| | 7. Sapota | | 101.1 | 127.8 |
| | 7. Sapota | | 101.1 | 127.8 |
| 3. | Use of HYV (high-yielding | (%) | | |
| | varieties) | , , | | |
| | 1 Rice- GNR-3 | | 08 | 38 |
| | 2 Sugarcane-CO-5071 | | 00 | 14 |
| | 3 Pigeon pea-Vaishali | | 00 | 27 |
| | 4 Gram- GG-3 | | 08 | 32 |
| | 5 Green gram - Meha | | 14 | 66 |
| 4. | Use of fertilizers (NPK) (nutrient) | (kg/ha) | | |
| | 1. Rice | | 120:60:60 | 100:30:00 |
| | 2. Sugarcane | | 300:200:200 | 250:125:125 |
| | 3. Gram | | 30:50:00 | 20:40:00 |
| | 4. Pigeon pea | | 30:60:10 | 25:50:00 |
| | 5. Mango (per tree) | | 1.0:0.5:0.5 | 0.75:0.16:0.16 |
| | 6. Sapota (per tree) | | 1.25:0.7:0.7 | 1.0:0.5:0.5 |
| 5. | Use of FYM and other | (kg/ha) | FYM- 4000 to 5000 | FYM- 8000 to 12000 |
| | biofertilizers | | Biofertlizers- Nil | Biofertilizers- 04 Ltr./ha |
| 6. | Tractor/machinery | (No) | 11 | 33 |
| 7. | Change in economic indicators | (No) | | |
| | (in adopted villages) | | | |
| | (a) Net return/ha/yr | Rs. | | |
| | (by crop/enterprise | | | |
| | 1. Rice | | 68695 | 84695 |
| | 2. Sugarcane | | 294690 | 344850 |
| | 3. Gram | | 46740 | 58740 |
| | 4. Pigeon pea | | 46895 | 58959 |
| | 5. Okra | | 93359 | 131228 |
| | 6. Mango | | 104280 | 138250 |
| | 7. Sapota | | 185500 | 241000 |
| | | | | |

Annexure III

KRISHI VIGYAN KENDRA, NAVSARI AGRICULTURAL UNVERSITY, NAVSARI, GUJARAT

BRIEF ABOUT KVK, NAVSARI

AWARDS RECEIVED



Mahindra Samriddhi India Agri Award-2014: "Krishi Vigyan Kendra Samman-2014"runnerup award by Mahindra and Mahindra partnership with Zee news. In the presence of Hon'ble Minister of State for Agril.& food processing. Govt. of India.



BEST KVK- 2015 (ZONE-VI): Indian Council Of Agriculture Research (ICAR, New Delhi) has conferred "Best Krishi Vigyan Kendra Awards (National/Zonal)" Prestigious award handed overby Shri. Purshootam Rupala, Hon'ble Agricultre minister of state Govt. of India.



FGI Award for Excellence-2015: Federation of Gujarat Industries, Vododara has conferred a certificate of Merit in the area of "Best Innovation work in the field of agriculture development" to KVK, NAU, Navsari during FGI Awards Excellence-2015. Handed over by Manohar Parrikar, Hon'ble Minister of Defense Govt. of India.



Cash less award: KVK, Navsari got cashless award from ICAR



APPRECIATION

(1) Dr. Rita R.Patel honored by JCI, Navsari

JCI Navsari honored Dr. Rita R. Patel with certificate for her outstanding contributions, performance and efforts for the cause of Agricultural development in the Navsari district.



PEARL foundation for higher educational excellence, Madurai, Tamil Nadu

Dr. Prabhu Nayaka, Scientist (Plant Protection) conferred "Best young scientist in agricultural plant protection in India" On 10.12.2016



PEARL foundation for higher educational excellence, Madurai, Tamil Nadu

Dr. K.A.Shah, Scientist
(Agronomy) conferred "Outstanding best agricultural extension worker in India" On 10.12.2016



Smagra Vikas Welfare Society, NBRI, Lucknow

Dr.C.K.Timbadia, Programme
Coordinator, conferred "KVK Scientist
Award" On 14-15th Jan-2017.

Signature of Head of the KVK