



NAVSARI AGRICULTURAL UNIVERSITY

# ANNUAL REPORT

2016-17



**College of Agriculture  
Navsari Agricultural University  
Waghai - 394730**

## **1. Vision**

A top class institution of learning dedicated to excellence in Agricultural sciences, industrial technology and allied fields, research and development, extension and training for global competitiveness and cooperation.

## **2. Mission**

To train manpower needed for Agricultural development of the state of Gujarat. In addition to this paramount mission, research and extension education will also be the priority in near future.

## **3. Objectives**

- To impart higher education in Agricultural Science and Technology.
- To create cadre of Agricultural professionals to meet the demand of Agriculture sector in general and tribal sector in particular.
- To prepare ample human resource to carry out basic and modern applied research in Agriculture and Allied fields.
- To cater need for knowledge workers in tribal society of the forest area.

## **4. Year of Establishment**

- 2012-13

## **5. Funding Agency**

- Tribal sub-Plan, Department of Agriculture, Government of Gujarat (BH 12402)

## 6. Faculty Position

### 6.1 Department Wise

	Professor	Associate Professor	Assistant Professor
	No.	No.	No.
<b>Principal</b>	01	-	-
<b>Agronomy</b>	-	02	02
<b>Soil Sci. &amp; Ag. Chem.</b>	-	01	01
<b>Horticulture</b>	-	-	01
<b>Genetics &amp; Pl. breeding</b>	-	01	01
<b>Entomology</b>	01	01	01
<b>Pl. Pathology</b>	-	-	02
<b>Ext. Edu.</b>	-	01	-
<b>Animal Sci.</b>	-	-	-
<b>Agril. Econ.</b>	-	-	02
<b>AgrilEngg.</b>	-	-	02
<b>Stat. &amp; Comp. Sci.</b>	-	-	02
<b>English</b>	-	-	01
<b>Physical Education</b>	-	-	01
<b>Total</b>	<b>02</b>	<b>06</b>	<b>16</b>

## 6.2 Faculty Details

Faculty Name	Designation	Discipline	Contact details
<b>Dr. Z. P. Patel</b>	Principal	Entomology	Tel. No.- 02631 246688 caw@nau.in, zprin@nau.in
<b>Dr. J. J. Pastagia</b>	Professor	Entomology	Mobile No.- 9427163653 E-mail aayoj2000@yahoo.com
<b>Dr. A. P. Patel</b>	Associate Professor	Agronomy	Mobile No.- 9427155512 arya_sunrise@yahoo.co.in
<b>Dr. C. J. Patel</b>	Associate Professor	Agril. Entomology	Mobile No.- 9725006536 cjpatel66@yahoo.co.in
<b>Dr. Mahaveer Choudhary</b>	Associate Professor	Extension Education	Mobile No.- 9998747329 mahaveergodara@redifmail.co m
<b>Dr. V. R. Naik</b>	Associate Professor	Agronomy	Mobile No.- 9974061709 vikasnaikrankuva@yahoo.com
<b>Dr. Navneet Kumar</b>	Associate Professor	Agril. Chemistry & Soil Science	Mobile No.- 9427919158 navneetsingh@nau.in
<b>Dr. Rehana Niyaria</b>	Associate Professor	Genetics & Plant Breeding	Mobile No.- 9898940253 drrehana04@gmail.com
<b>Prof. K. B. Patel</b>	Assistant Professor	Physical Instructor	Mobile No.- 99139 07794 krnlptl01@gmail.com
<b>Prof. V. T. Shinde</b>	Assistant Professor	Soil & Water Engineering	Mobile No.- 8128984318 vipulshinde123@gmail.com
<b>Prof. H. P. Patel</b>	Assistant Professor	Agril. Chemistry & Soil Science	Mobile No.- 98792 91253 hiren_agri36@yahoo.co.in
<b>Prof. R. P. Bambharolia</b>	Assistant Professor	Microbiology	Mobile No.- 9979502166 bambharolia_raju@yahoo.co.in
<b>Dr. B. Chakraborty</b>	Assistant Professor	Horticulture	Mobile No.- 8238792464 bchakraborty@nau.in
<b>Prof. V. S. Thorat</b>	Assistant Professor	Agril. Economics	Mobile No.- 8469552697 vishal.lotus@gmail.com
<b>Prof. T. U. Chaudhari</b>	Assistant Professor	Mathematics	Mobile No.- 9601649968 tejash05@gmail.com
<b>Prof. V. B. Patel</b>	Assistant Professor	Computer Science	Mobile No.- 9558716885 vim_patel85@yahoo.com
<b>Dr. H. H. Patel</b>	Assistant Professor	Agronomy	Mobile No.- 9428325292 hiren_agron@yahoo.co.in
<b>Dr. R. R. Pisal</b>	Assistant Professor	Agronomy	Mobile No.- 9974746445 rrpagri@gmail.com
<b>Dr. Y. A. Garde</b>	Assistant Professor	Statistics	Mobile No.- 8469764778

			y.garde@yahoo.co.in
<b>Prof. P. I. Solanki</b>	Assistant Professor	English	Mobile No.- 9427549029 pisolucky@nau.in
<b>Prof. Y. G. Naghera</b>	Assistant Professor	Genetics & Plant Breeding	Mobile No.- 9601104034 yvnaghera@gmail.com
<b>Prof. D. M. Damasia</b>	Assistant Professor	Agril. Entomology	Mobile No.- 9979006676 dmdamasias@nau.in
<b>Dr. V. P. Prajapati</b>	Assistant Professor	Pl. Pathology	Mobile No.- 9601278020 virpathologist@nau.in
<b>Dr. A. P. Rathod</b>	Assistant Professor	Agril. Economics	Mobile No.- 9428200197 aprathod@nau.in

## 6. Student Enrolled

Student Admitted in 2016-17			Total Student strength			Student pass in 2016-17		
Male	Female	Total	Male	Female	Total	Male	Female	Total
33	14	47	147	63	210	33	14	47

## 7. Student Financial Aid

96 students who received financial aid during year 2016-17

Source	Under graduate	
	No.	%
<b>Central Govt</b>	-	-
<b>ICAR</b>	-	-
<b>State Govt</b>	96	100
<b>University</b>	-	-
<b>College</b>	-	-
<b>Others</b>	-	-

## 8. Placement status

Cleared NET/JRF/SRF	Opted Higher studies	Selected in placement
JRF = 7	28	03

## 9. Infrastructure development

- After the establishment of College of Agriculture at Waghai, new building of Polytechnic in Agriculture (presently housing College of Agriculture) and the girls hostel have been completed. The college has been shifted to the new building. Similarly, girls have been shifted to their new hostel.
- Construction of new building of College of Agriculture has also begun .
- The polytechnic building consists of ultra-modern auditorium with all necessary AV aids.
- Computer laboratory has been established in the new polytechnic building for students so as to prepare them for IT lectures and practicals.
- Modern laboratories of Entomology, Plant Pathology, Soil Science and Agricultural Chemistry, Genetics and Plant Breeding and Horticulture have been established in the new building. .
- Drinking water problem of students has been solved by installation of Reverse Osmosis fitted water cooler in hostels as well as in the mess.



**New building of College of Agriculture, Waghai started functioning from 1<sup>st</sup> October 2017**





**Class rooms equipped with latest Audio-Visual teaching aids.**







**Students performing practicals in College laboratory which equipped with latest instruments**



**Dandakaranya boys hostel inaugurated by Hon'ble Chief Minister of Gujarat Shri. Vijaybhai Rupani on 26<sup>th</sup> May 2017**





**Dandakaranya boys' hostel capacity of 160 students**





A large modern kitchen with steam cooking is attached to the mess hall available for all students to have breakfast, lunch and dinner.

## 10. Financial Position

Sr. No.	Particulars	Grant sanctioned (Rs)	Expenditure (Rs)	Balance/Unspent amount (Rs)
1.	Pay and allowances including T.A.	22282000	22247698	34302
2.	Recurring	5777000	5776944	56
3.	Non-recurring	790000	789947	53
4.	Civil works	-	-	-
	<b>Total</b>	<b>28849000</b>	<b>28814589</b>	<b>34411</b>

## 11. Publication

<b>Publication</b>	<b>NAAS rating</b>
<ul style="list-style-type: none"> <li>H. B. Sodavadiya, V. R. Naik and S. D. Chaudhari(2017). Effect of Land Configuration, Irrigation and INM on Quality, Nutrient Content and Uptake of Indian Bean (var. GNIB-21). Int. J. Curr.Microbiol.App.Sci 6(8): pg. 527-537.</li> </ul>	<b>7.52</b>
<ul style="list-style-type: none"> <li>N.M.Patel, B.K.Patel, V.R.Naik, H.K.joshi and V.P.Usadadia (2017). Effect of Irrigation and Sowing date on production potential of Salicornia (Salicornia brachiata Roxb.) in Coastal Saline Soil. Journal of Soil Salinity and water quality 9(1). Pg. 111-114.</li> </ul>	<b>4.94</b>
<ul style="list-style-type: none"> <li>S. D. Chaudhari, V.R. Naik, J.M. Patel and H. B. Sodavadia (2017). Effect of soil conditioner and INM on Yield of Mungbean (Co:4) Grown on partially Reclaimed Coastal Salt Affected Soil of South Gujarat, India. Int. J. Curr.Microbiol.App.Sci 6(8): pg. 2835-2840.</li> </ul>	<b>7.52</b>
<ul style="list-style-type: none"> <li>Neeraj Kumar, R. R. Pisal, S. P. Shukla and K. K. Pandey (2016) Crop yield forecasting of paddy and sugarcane through modified Hendrick and Scholl technique for south Gujarat. Mausam 67(2): 405-410.</li> </ul>	<b>6.31</b>
<ul style="list-style-type: none"> <li>Pisal R.R., Neeraj Kumar and Shukla S.P. (2017) Long term trend analysis of rainfall at heavy rainfall zone of South Gujarat, India. Indian Journal of Soil Conservation 45 (2): 168-175.</li> </ul>	<b>5.20</b>
<ul style="list-style-type: none"> <li>R. R. Sisodiya, N. B. Babaria, H. P. Patel and R. P. Bambharolia (2016). Sulphur fertilization in groundnut under calcareous soil conditions: effects on nutrient uptake, content and yield. The Bioscan. Vol. 11(4) pp. 2393-2397</li> </ul>	<b>5.26</b>
<ul style="list-style-type: none"> <li>R. R. Sisodiya, N. B. Babaria and H. P. Patel (2017). Effect of sources and levels of sulphur on nutrient uptake in Groundnut. Research in Environment &amp; Life Sciences Vol. 10 (2) pp. 139-142</li> </ul>	<b>3.23</b>
<ul style="list-style-type: none"> <li>Patil, P.N. and Pastagia, J. J. (2016). Effect of bee pollination</li> </ul>	<b>4.59</b>

on yield of coriander, <i>Coriandrum sativum</i> Linnaeus. International Journal of Plant Protection, 9(1): 77-81.	
<ul style="list-style-type: none"> <li>Patel, H.K. and Pastagia, J. J. (2016). Habitat, nesting behaviour and colony organization of stingless bees <i>Tetragonula laeviceps</i> Smith. Asian Journal of Bio Science, 11(1):186-189.</li> </ul>	<b>3.54</b>
<ul style="list-style-type: none"> <li>Patel, H.K. and Pastagia J. J. (2016). Morphometric variation in workers of stingless bees <i>Tetragonula laeviceps</i> smith in south Gujarat. Internat. J. Plant. Protec., 9(2):1-7</li> </ul>	<b>4.59</b>
<ul style="list-style-type: none"> <li>Suthar, J.V., Chawda, S.K., Patel A.T., Pastagia, J.J. and Patel, B.B. (2016) Impact of frontline demonstration on the yield of poha rice (<i>Oryza sativa</i>) in Surat district. J. Biol. Innov. 5(4) pp.588-593.</li> </ul>	<b>3.14</b>
<ul style="list-style-type: none"> <li>P.S. Pandit, Sunila Kumari and J.J. Pastagia (2016). Colour extraction from <i>Butea monosperma</i> (Palash) flowers. A poster paper presented in national Seminar on “Forest and tree based land use system for livelihood, nutritional and environment security” organized by Navsari Agricultural University, Navsari and Indian Society of Tree Scientist, Solan during 21-23 December, 2016 at NAU, Navsari Abst. 40 pp.</li> </ul>	-
<ul style="list-style-type: none"> <li>P.D. Veerma, Pastagia J. J. and Sharma, O.P.(2016).Combining bees and trees: the right path towards eco-agriculture in tribal areas. A paper presented in national Seminar on “Forest and tree based land use system for livelihood, nutritional and environment security” organized by Navsari Agricultural University, Navsari and Indian Society of Tree Scientist, Solan during 21-23 December, 2016 at NAU, Navsari Abst. 138 pp.</li> </ul>	-
<ul style="list-style-type: none"> <li>Kansara S. S, Joshi D. M and Prajapati V. P. (2016) Drechslera state of <i>Trichometaspeira holmii</i> –New Record as an Incitant of Heliconia Leaf Blight in India. Advance in Life Sciences 5(7):2654-2658.</li> </ul>	<b>3.15</b>
<ul style="list-style-type: none"> <li>A.J.Deshmukh, A.N.Sabalpara, V.P. Prajapati and</li> </ul>	-



M.S.Shinde(2016) In vitro Investigation of Seed biopriming in Green gram. Int. J. Innov. Res. Multi.Field 2(9):262-265.	
<ul style="list-style-type: none"> <li>A.J.Deshmukh, A.N.Sabalpara, V.A. Patil and V.P. Prajapati (2016) Isolation and identification of Seed-Borne Fungi in Green gram Seeds. Int. J. Innov. Res. Multi. Field 2(10):108-111.</li> </ul>	-
<ul style="list-style-type: none"> <li>V. P. Prajapati, N. K. Gajre, D. H. Tandel, A. J. Deshmukh and R. C. Patel (2017) Evaluation of phytoextracts against curvularia eragrostidis causing leaf tip blight of spider lilly in vitro condition. Int. J. Econ. Pl. 4(03):119-120.</li> </ul>	-
<ul style="list-style-type: none"> <li>A. J. Deshmukh<sup>1</sup>, V. P. Prajapati and Priya John (2017) Village level mass multiplication of biopesticides and their delivery: A review. Int. J. Res. Cul. Soc.1(7):117-121.</li> </ul>	-
<ul style="list-style-type: none"> <li>Sanghani A.O., Vaja M.B., Ramani H.R., Vadher K.J., Sanghani J.M., Bambharolia R.P., Garaniya N.H. and Golakiya B.A. (2016) QTL Mapping for Downy Mildew Resistance in Pearl Millet (<i>Pennisetum glaucum</i> (L.) R. Br.).</li> </ul>	<b>6.24</b>
<ul style="list-style-type: none"> <li>Ramani, H. R., Bambharolia, R. P., Sanghani, A. O. and Mandavia, M. K. (2016) Effect of higher temperature on leaf anatomy of heat tolerant and heat susceptible wheat genotypes (<i>triticum aestivum</i> L.) By scanning electron microscopy.</li> </ul>	<b>6.24</b>
<ul style="list-style-type: none"> <li>Kahodariya J. H., Sanghani A. O., Ramani H. R., Bambharolia R. P. and Vakharia D. N. (2017) Development of novel locus specific SCAR (sequence characterized amplified region) marker for cotton (<i>Gossypium</i> spp.)</li> </ul>	<b>7.36</b>
<ul style="list-style-type: none"> <li>Binayak Chakraborty, Rajendrakumar P. Bambharolia, Yogesh V. Naghera, Mangaldeep Sarkar (2017) Exogenous Application of Polyamines Maintains Physico-Chemical Properties of Mango (<i>Mangifera indica</i> L.) cv Alphonso under Ambient Storage.</li> </ul>	<b>8.08</b>
<ul style="list-style-type: none"> <li>A. P. Rathod (2016). Weather Based Risk Management Tool to mitigate the farming risk in India International Journal of Latest Technology in Engineering, Management &amp; Applied</li> </ul>	-

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<ul style="list-style-type: none"> <li>• Mahaveer Choudhary, Naik R.M., Chauhan G.G. and Sonavane S.S. (2016). Attitude of farmers towards developmental activities of agriculture experimental station NAU, Paria. Advances in Social Research, 2: 25-27</li> </ul>	-
<ul style="list-style-type: none"> <li>• Mahaveer Choudhary., Himat F. Patel ., R.M. Naik And Prof. G.G. Chauhan(2016)”Aspiration level of farmers living under drought situation” MULTILOGIC IN SCIENCE, VOL. VI, ISSUE XVI, 2277-7601</li> </ul>	<b>5.20</b>
<ul style="list-style-type: none"> <li>• Mahaveer, R.B.Patel, GG chauhan, Dobariya(2017). Constraints faced by farmers living in drought situation of Gujarat, trends in biosciences journal, volume-10 no.18</li> </ul>	<b>3.94</b>
<ul style="list-style-type: none"> <li>• Shinde V. T., Tiwari K. N., Singh M. and Uniyal B.(2017) Impact of Abandoned Opencast Mines on Hydrological Processes of the Olidih Watershed in Jharia Coalfield, India Environmental Processes, 4:697–710 DOI 10.1007/s40710-017-0258-3</li> </ul>	<b>8.40</b>
<ul style="list-style-type: none"> <li>• Shinde V. T.,Tiwari K. N., Singh M. and Rajendiran S.(2017) Restoration of mine affected area soil for enhanced crop production using diverse fertilizer treatments. Journal of the Indian Society of Soil Science. 65(1): 62-71</li> </ul>	<b>5.23</b>
<ul style="list-style-type: none"> <li>• K. Nidhi, V. M. Chowdary, K. N. Tiwari, V. Shinde&amp; V.K. Dadhwal (2016). Assessment of Surface Water Potential using Morphometry and Curve Number based Approaches. Geocarto international, 32 (11):206-1228 DOI:http://dx.doi.org/10.1080/10106049.2016.1195889</li> </ul>	<b>7.38</b>
<ul style="list-style-type: none"> <li>• Shinde V. T., Tiwari K. N. and Singh M. (2016). Sustainable Management of Mine affected Area Soil through Application of Lime, Manure and Fertilizers International Journal of Tropical Agriculture, 34(7):2359-2365.</li> </ul>	<b>3.49</b>
<ul style="list-style-type: none"> <li>• Singh M, Singh R, Bhadoriya PBS,Shinde V, Mishra A, Narwade A V, Pradhan S (2016). Integration of Remote</li> </ul>	<b>3.49</b>

Sensing & GIS Catchment Scale Hydrological Modelling in Middle Reach of Mahanadi River Basin using Simplified Coefficient Model. International Journal of Tropical Agriculture, 34(7):2011-2018	
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## 12. Cultural Activity

Students themselves take part in activity like Drama, Mimicry, Folk dance, Musical evening, Antakshari, Rangoli competition, Drawing competition and celebrate various days.





### 13. Sports activity

Students take part in various sports activity like Kho-Kho, Kabaddi, Cricket, Chess, Table Tennis, Vollyball, etc.

