

30th Convocation

Vice - Chancellor's Report

Dr. T. A. More

Vice - Chancellor, MPKV, Rahuri

Saturday, 28th February, 2015



MAHATMA PHULE KRISHI VIDYAPEETH

Rahuri - 413 722, Dist. Ahmednagar, Maharashtra (India)

30TH COVOCATION OF MPKV, RAHURI
VICE - CHANCELLOR'S REPORT
DR. T. A. MORE

Hon'ble Shri Chennamaneni Vidyasagar Rao, Hon'ble Governor of Maharashtra, and Chancellor of MPKV, Rahuri who presides over the today's 30th Convocation.

Hon'ble Shri. Eknathrao Ganpatrao Khadse, Minister for Revenue, Relief and Rehabilitation, Earthquake Rehabilitation, Minorities Development and Wakf, Agriculture and Horticulture, Animal Husbandry, Dairy Development and Fisheries, State Excise, M. S., and Pro-Chancellor of MPKV, the Guest of Honour for today's Convocation.

Dr. Raghunath A. Mashelkar, National Research Professor and President of Global Research Alliance; Chairman, National Innovation Foundation, and Chairman, Reliance Innovation Council; CSIR Bhatnagar Fellow at National Chemical Laboratory, Pune and Chief Guest of today's Convocation, who will shortly address the august gathering.

Executive Council and Academic Council Members; Learned Faculty and Staff Members of the University; Progressive Farmers; Beloved Students; Dear parents; Representatives of the Media, and Ladies and Gentlemen.

It is my proud privilege to extend a very warm welcome to all of you on this auspicious occasion of 30th Convocation of MPKV, Rahuri - a pioneer Agriculture University of Maharashtra, established in 1968 as the Maharashtra Agricultural University, which was renamed as the Mahatma Phule Krishi Vidyapeeth in 1969 after the Great Social Reformer of the country "Mahatma Jyotiba Phule".

Shri. Chennamaneni Vidyasagar Rao, Hon'ble Governor of Maharashtra brings with him a vast and varied experience in public life. A senior BJP leader from Telangana, Shri. Rao has served as Union Minister of State for Home Affairs and subsequently as Union Minister of State for Commerce and Industry from 1999–2004 in the Government led by Shri. Atal Bihari Vajpayee. He was elected to the 12th and 13th Lok Sabha elections from Karimnagar Constituency. In 1999, he was elected as President of the State Unit of the BJP. During his illustrious Parliamentary career, he served as Member of the Committees on Public Accounts, Business Advisory Committee and Finance. He was also a Member of the Consultative Committee of the Ministry of Information and Broadcasting. Before becoming MP, he was elected thrice

to the Legislative Assembly of undivided Andhra Pradesh in 1985, 1989 and 1994 from Metpalli Assembly Constituency in Karimnagar district. He was the Floor leader of BJP for three consecutive terms in the A.P. Legislative Assembly.

Though he was Science Graduate, he secured LLB from the Law College of Osmania University where he was also elected as President of the Students' Union. Shri. Rao started law practice in Karimnagar in the year 1973. He was actively associated with the Akhil Bhartiya Vidyarthi Parishad (ABVP). He also served as President of Jansangh and as President of Janata Party, Karimnagar district.

I feel extremely honored to have an opportunity to welcome **Shri Eknathrao Ganpatrao Khadse Ji**, the Hon'ble Minister of Revenue, Relief and Rehabilitation; Earthquake Rehabilitation; Minorities Development and Wakf; Agriculture and Horticulture; Animal Husbandry, Dairy Development and Fisheries, State Excise of M.S. He was the Leader of Opposition, Maharashtra Legislative Assembly from November, 2009 to till he became the Minister in the present Government.

Earlier from June, 1995 to October, 1999, he was Minister for Higher and Technical Education; Minister for Finance and Planning, and Minister for Irrigation and Command Area Development. He was MLA from Muktainagar continuously for 25 years. He was active in electoral politics also from an early age like BJP Taluka Vice-President (1980-1985); District President, BJP - Jalgaon (1991-1995), and General Secretary, BJP, Maharashtra (1999-2004). Since 2004 till today, he is the All India BJP National Executive. Shri. Khadse was the EC member of our University.

Shri. Khadse developed several Cooperative Societies in Muktainagar and hold prestigious positions such as Founder Chairman of Muktai Cooperative Cotton Mill (1998); Chairman of Jaikisan Peek Sanrakshan Sahkari Sastha (1978-1988); Taluka Sahkari Kharedi Vikri Sangh (1980-1990); Muktai Audyogeeek Telbiya Utpadak Sahkari Sanstha (1983-1995); Muktai Credit Sahkari Sanstha (1989-1995); and Director of Muktai Audyogik Sahakari Sanstha, (1980-90); Vividh Karykari Sahkari Sanstha, Kothali (1980-2005); Bhusaval Peoples Sahkari Bank, Bhusaval (1985-1990); Krushi Utpanna Bazar Samiti, Bodwad (1985-1995), and Jalgaon Jilha Madhyavarti Sahkari Bank, Jalgaon (1997 till date). From 1982 till date he is EC member of Muktainagar Taluka Education Society, and he was Honorary Secretary, Edlabad Taluka Education Society from 1983-1995. He was also Panchayat Samiti Member, Muktainagar (1982-1990) and Sarpanch Gram Panchvat Kothali (1984-1987).

Dr. Raghunath Anant Mashelkar, National Research Professor and President of Global Research Alliance; Chairman, National Innovation Foundation, and Chairman, Reliance Innovation Council; CSIR Bhatnagar Fellow at National Chemical Laboratory, Pune, specialized in Polymer Science and Engineering. Dr. Mashelkar earned his B. Chem. Engg. degree (1966) from University Institute of Chemical Technology, and Ph. D. (1969) from the University of Bombay. He studied and worked in the U.K. (1969-1976), first as Leverhume Research Fellow and later on as Lecturer in the Department of Chemical Engineering, University of Sanford. In 1976, he joined National Chemical Laboratory of CSRI, Pune and eventually became its Director (1989-95). In 1995, he took over as the Director General of CSIR and held this position till he retired in 2006. Incidentally he was DG, ICAR, New Delhi for a few days as Additional Charge.

Dr. Mashelkar has made path breaking scientific contributions in transport phenomena and in thermodynamics of swelling, super-swelling and shrinking polymers, modeling of polymerization reactors, and engineering analysis of non-Newtonian flows. As Director of NCL, he gave a new orientation to the research programmes of NCL with strong emphasis on globally competitive technologies and international patenting. Hence, NCL began exporting its knowledge even to Europe and USA, the first Indian laboratory to do so. He also created a Polymer Science and Engineering Division from the scratch in NCL, which is rated as World Class today. His sustained and visionary campaign increased an awareness of IPR has dawned on Indian academics, researches and corporate. He spearheaded the successful challenge to the U.S. patent on the use of turmeric for wound healing and patent on Basmati rice. These landmark cases have set up new paradigms in the protection of India's traditional knowledge base. He established India's first Traditional Knowledge Digital Library. Internationally, this led to initiate the change of the "International Patent Classification System" to give traditional knowledge its rightful place. He was Chairman of Standing Committee on IT of World Intellectual Property Organization; Member, International IPR Commission of UK Govt., and Vice-Chairman on Commission in IPR, Innovation and Public Health set up by WHO.

He has published 240 research papers and edited / authored 22 books in the field of Chemical Engineering and allied areas. Notably he has 28 patents to his credit. His white paper "CSIR 2001: Vision and Strategy" set up a new agenda to draw out a corporate like R&D and business plan for a publicly funded R & D Institutions.

Dr. Mashelkar is a recipient of number of awards and honors which include: Shanti Swarup Bhatnagar Prize (1982) and Medal (2001); Padma Shri (1991);

Padma Bhushan (2000); Pandit Jawaharlal Nehru Technology Award (1991); GD Birla Scientific Research Award (1993) and Viswakarma Medal (1988), and many more.

EDUCATION

University was bestowed with “Sardar Patel Outstanding ICAR Institution Award 2002” for its contribution in the field of Agricultural Research, Education and Extension. Special fund of Rs. 100 crore was also awarded to the University by the Govt. of India in its Union Budget of 2007-08 as an “Institute of Excellence”.

MPKV is imparting higher education up to Doctoral level in the field of Agriculture and allied faculties. U.G. education programme is being run at Agriculture Colleges Pune, Kolhapur, Dhule, Karad and Nandurbar; Dr. Annasaheb Shinde College of Agricultural Engineering, Rahuri and College of Horticulture, Pune. P.G. programmes are conducted at Rahuri, Kolhapur, Pune and Dhule campuses. Intake capacity of students / year is 5416 of 68 (7 affiliated (724) and 61 affiliated unaided) UG colleges (4934), P.G. (404) and Ph. D. programmes (78). Till today, including this convocation, in all 36127 students have been awarded Bachelor’s, Master’s, and Doctorate degrees. Our University and all its 7 constituent colleges are accredited by the Peer Review Team nominated by the Accreditation Board, ICAR, firstly for 2008-2013 and again second time for 2014-2019.

During 2013-14, 18 international students are admitted in the University under India-Africa and India-Afghanistan Fellowship programmes (1 for Ph. D. and 12 for M. Sc. (Agri.), 1 for M. Tech. (Agril. Engg.) and 2 B. Sc. (Hort.).

MPKV has started UG degree programmes in collaboration with International Universities. These include: (a) 3+1 B. Sc. (Agri.); (b) 2+2 B. Sc. (AH) with minor veterinary practices; (c) 3+1 B. Sc. (Agril. Biotech.), and 2+2 B. B. A. (Agri.) in collaboration with Van Hall Larenstein University, a Part of Wageningen University, the Netherland, and MPKV’s affiliated Colleges at Baramati from 2012-13 onward. After completing 2 or 3 years course work in Baramati they will get the learning experience in Netherlands for 1 or 2 years depending upon the degree programme. In addition, Unified 4+1 UG-PG Integrated Agribusiness Management programme between College of Agriculture, Baramati (an affiliated college of MPKV) and Asian Institute of Technology, Bangkok is approved. In this case, students will get UG degree from MPKV and PG degree from Bangkok within 5 years only. Notably, all these are the first innovative programmes in the country.

During 2014, 10 Quinquennial Review Teams of ICAR evaluated the research programmes of the University and reported great satisfaction.

Lower Education (for 10th pass students) is being imparted through 10 constituent and 88 unaided affiliated 2-year Agricultural Diploma Schools. All unaided affiliated Agriculture Diploma Schools have been upgraded to 3-year Semi-English Agricultural Technology Schools from 2012-13. Intake capacity of Lower Education is 5820. Till today, 54473 students completed this Lower Education Diploma. Besides, 4024 students have successfully completed Mali (Gardener) Training Course.

During 2013-14, 38 students excelled in JRF (26), GATE (1), SRF (2) & Higher Education Scholarship (9). Eight Faculty members visited 10 countries viz. Turkey, Uganda, Netherlands, France, Germany, Spain, USA, Israel and Sri Lanka in 2014-15. For the capacity building, 169 Faculty members have undergone various training programmes, and 112 students have attended seminars, symposia, etc. during 2013.

RESEARCH

An excellent network of 27 Research Stations spread over 5 Agro-climatic Zones exists in the jurisdiction of MPKV, and its 4 campuses meant for P.G. and or Ph. D. programmes. There are 51 All India Coordinated Research Projects and 78 Non-Plan Schemes funded by State Govt. are in operation in MPKV. During the period under report, six new projects have been sanctioned.

Since inception of MPKV has developed and released 237 improved varieties / F₁ hybrids of 60 crops. Most of them particularly pulses, oilseeds, rabi sorghum, pearl millet, wheat, rice, fruits particularly pomegranate, citrus, vegetables like onion, brinjal, chilli, cucumber and many cucurbits are very popular among the farmers of Maharashtra and also in 12 other states of India.

Similarly 1250 crop production technologies pertaining to agro-techniques; soil and water management; farming and cropping systems; integrated nutrient, water, pest, crop protection; post-harvest handling and processing; farm machinery, etc. are developed and recommended to the farmers for enhancing the crop productivity and quality.

University has developed 120 different types of farm implements and machineries since its inception of which 25 are even recommended through Joint-Agresco. Similarly, we developed and recommended four softwares for irrigation through Joint-Agresco. Additionally, MPKV has established three new laboratories for testing, training and production of equipments / machineries.

State Level Biotechnology Research Centre, MPKV, Rahuri, has enabled the Scientists to work on development of transgenes (tomato, brinjal, chickpea, pigeon pea); gene discovery (sorghum, pearl millet, banana, custard apple); application of molecular markers in crop improvement (wheat, rice, chickpea, cotton, sugarcane, soybean); molecular marker based characterization and diversity study (different crops), and plant tissue culture (banana, spine gourd, pomegranate).

University has also registered pure breeds of cattle - Khillar; goat - Osmanabadi and Sangamneri; sheep – Deccani, and buffalo – Pandharpuri, and cow-Phule Triveni [(Gir x Jersey) x Holstein Friesian] cattle breed with NBAGR, Karnal. The sophisticated Frozen Semen Laboratories are established in Rahuri for 'Phule Triveni' bull and in Kolhapur for proven bull of Pandharpuri buffalo.

Our Pigeon Pea Sub-centre at Rahuri has been upgraded as Pigeon Pea Main Research Centre by ICAR. Six new research projects have been sanctioned by the various funding agencies during 2014. In 2012-13, "Directorate of Floriculture" got transferred from IARI, New Delhi to College of Agriculture, Pune (under ICAR) has been started functioning from last year.

Large quantity of seeds (8974 q) of various field and forage crops; grafts of fruit crops (12 lakhs); vegetable seeds (breeder – 3.84 q, certified – 78.81 q) and bio-fertilizers (120 q + 31.78 L) and bio-pesticides (100 q) were produced during last year. During last five years under HOPE project, seed production was undertaken on 20100 farmers' fields covering 8040 ha area. About 40% increased grain and fodder yield because of our five- point technology of dry land rabi sorghum.

A Strategic Agro-Climatic Zone-wise Comprehensive Agriculture Development Plan" for Five Agro-climatic Zones is prepared and is submitted to the Govt. of Maharashtra. "Strategic Research Plan 2025" is also prepared and prioritized research is classified under short, medium and long term experiments.

University got the registration of Biopesticides with CIBRC and State Government for *Trichoderma* 1.0% WP, *Pseudomanas fluorescens* 0.5% WP, *Verticillium lecanii* 1.15% WP, and *Metarhizium anisopliae* 1.15% WP. Similarly registration of biopesticides such as *HaNPV* 3% AS and *Beauveria bassiana* 1.15% WP is in process. Our Plant Residue Laboratory has been accredited by National Accreditation Board for Testing and Calibration Laboratories, Department of Science & Technology. Patent has been filed for process of preparing organic jiggery production.

Five Agriculture Research Stations received recognition as Best Research

Stations in India and nine Scientists got awards individually. The National Dairy Development Board (NDDB), Government of India, New Delhi and MPKV, Rahuri has signed MOU for establishing the Bull Research Station and Semen Laboratory, CC, Rahuri

EXTENSION EDUCATION

We are implementing the manifold extension education activities. MPKV has also started either Regional or District Extension Centres in all 10 districts of its jurisdiction. University has formulated 43 Farmers-Scientists Forum having 1650 registered farmer members, to demonstrate and to educate the farmers about the technologies generated by the University. University has adopted 51 villages in its jurisdiction for TOT.

ATIC is a single window delivery system of the University. ATIC undertakes activities like field visits, replying the queries of the farmers and other stakeholders, diagnostic services, selling of seed and seedlings, bio-fertilizers, bio-pesticides, processed products and publications. As many as 1,01,671 farmers visited ATIC during last year.

Audio- Video CD's on Sugarcane, Cotton, Onion, Turmeric, Banana, Management of Cross breed Cows, Agricultural Technology Information Centre (ATIC), prepared for farming community. Quick advisory was provided by University authority to farmers during situation caused due to weather aberrations.

University is transferring improved technologies to the farmers, farm women, youth, staff through training programmes (210), workshops and seminars (139), demonstration and field trials conducted (2542), RKYY FLDs (680), HOPE project rabi jowar farmer's field trials (4000), farmers rallies (172), exhibitions (46), Farmer-Scientist Forum, kisan mobile advisory (to 10,235 farmers) through KVKs and farmers advisory through phone line (41,893).

University brings out informative publications viz. Krishidarshani, Annual Diary, Shri Sugi, Periodicals, Booklets, Books, Folders and Bulletins for farmers. During 2014, 95 extension publications, 29 education publications, and 1904 news and articles in newspapers are published. Our Scientists participated in 309 All India Radio programmes and 74 TV programmes on Doordarshan Mumbai, Pune and other electronic media. E-News MPKV Happenings of MPKV started on MPKV website. Use of Social Media e.g. WhatsApp, SMS for Kisan Advisory. Krishi Darshani - 2014 has received In House Excellence Communication Award of Shailaja Nair Foundation, Mumbai.

Assistant Director General (EP & HS) ICAR, New Delhi has sanctioned funds of Rs. 98.47 lakhs under Tribal Sub-Plan (TSP) for the project untitled “Empowerment of Tribal Community of Nandurbar District of Maharashtra State through Vocational Training Demonstrations and Value addition”, to REC at College of Agriculture, Dhule during year 2014-15.

MPKV signed MOU with NABARD to implement integrated transfer of technology module to conduct need based training programmes, preparation of audio and video CDs of different crops. Four RKVY projects started from 2011-12 with financial outlay of Rs 23.28 crore for Promotion of seed production, transfer of integrated crop management technologies, promotion and large scale production of Biopesticides and Biofertilizers, and establishment of Farm Machinery Testing and Training Centre are completed up to 2014-15.

GENERAL

During 2013-14, construction works of Rs. 13 crores are completed and construction works of Rs. 21 crores is in progress. University got sanction for Rs. 315.13 crores grants from State Government and ICAR for the period 1.4.2014 to 31.01.2015.

Swachta Bharat Abhiyan programme has been successfully implemented in the University.

Dear friends, while wishing you all the best in life, I would like to share with you that for your generation living in an environment of stiff competition, time is most precious thing in the world. All your time should be utilized in pursuits of development towards intellect and mind through worthy action. The basic idea of acquiring education should be to see beyond obtaining degrees. You should develop within yourself discipline, humanity, truthfulness, respect for others, and spirit of service to the society and confidence and courage.

Before I end, once again I congratulate you on getting degrees from this prestigious University and wish you very best for your future life journey and Endeavour.

**THANK YOU ALL
JAI HIND, JAI MAHARASHTRA !**

