

# JNKVV

## *Student Diary*



**Jawaharlal Nehru Krishi Vishwa Vidyalaya**  
**Jabalpur 482 004 (MP), India**

# JNKVV

## *Student Diary*



**Jawaharlal Nehru Krishi Vishwa Vidyalaya**  
Jabalpur 482 004 (MP), India

## PERSONAL MEMORANDA

### PERSONAL DETAILS

Name : \_\_\_\_\_

Date of Birth : \_\_\_\_\_ Blood Group : \_\_\_\_\_

Father's Name : \_\_\_\_\_

Mother's Name : \_\_\_\_\_

Father's Occupation: \_\_\_\_\_ Enrolment No. : \_\_\_\_\_

Home Address : \_\_\_\_\_ Unique ID No. : \_\_\_\_\_

Admission Year: \_\_\_\_\_

Permanent Addr. : \_\_\_\_\_ Course: \_\_\_\_\_

Discipline: \_\_\_\_\_

Phone : Res. \_\_\_\_\_ Mob.No. : \_\_\_\_\_

E-mail : \_\_\_\_\_ Parents Mob. No. : \_\_\_\_\_

PAN No. : \_\_\_\_\_ Aadhar Card No. : \_\_\_\_\_

Passport No. : \_\_\_\_\_ Renewal Date : \_\_\_\_\_

Driving Lic. No. : \_\_\_\_\_ Renewal Date : \_\_\_\_\_ Vehicle No. \_\_\_\_\_

Photo

### HOSTEL

Hostel Name : \_\_\_\_\_ Room No : \_\_\_\_\_

Hostel Warden Name: \_\_\_\_\_ Hostel Warden Mob. No.: \_\_\_\_\_

### SCHOLARSHIP

Scholarship Name : \_\_\_\_\_ Amount: \_\_\_\_\_

Scholarship Name : \_\_\_\_\_ Amount: \_\_\_\_\_

### BANK ACCOUNT

Bank Name : \_\_\_\_\_ Account No. \_\_\_\_\_ IFSC: \_\_\_\_\_

Bank Name : \_\_\_\_\_ Account No. \_\_\_\_\_ IFSC: \_\_\_\_\_

### INSURANCE POLICY

Agency : \_\_\_\_\_ Policy No : \_\_\_\_\_ Payment due on : \_\_\_\_\_

Agency : \_\_\_\_\_ Policy No : \_\_\_\_\_ Payment due on : \_\_\_\_\_

### PORTAL REGISTRATION & FEES

Portal Registration: 1st Year: \_\_\_\_\_ 2nd Year: \_\_\_\_\_

(Amount & Date) 3rd Year: \_\_\_\_\_ 4th Year: \_\_\_\_\_

Semester Fees : 1st Year: \_\_\_\_\_ 2nd Year: \_\_\_\_\_

(Amount & Date) 3rd Year: \_\_\_\_\_ 4th Year: \_\_\_\_\_

### HEALTH RECORD

Height (cm): \_\_\_\_\_ Weight (kg): \_\_\_\_\_ Vision (Left): \_\_\_\_\_ (Right) \_\_\_\_\_

Dental Hygiene: \_\_\_\_\_ Any specific ailment: \_\_\_\_\_

**JNKVV 14<sup>th</sup> Convocation (April 12, 2018)**



Felicitation of HE, the Governor of Madhya Pradesh & Chancellor, Smt. Anandiben Patel by Vice Chancellor, Prof. P.K. Bisen



Distribution of Gold Medal and Degree Certificate to Student



डॉ. प्रदीप कुमार बिसेन  
कुलपति



**जवाहरलाल नेहरू कृषि विश्वविद्यालय**  
कृषि नगर, आधारताल, जबलपुर ४८२ ००४ (म.प्र.)  
**Jawaharlal Nehru Krishi Vishwa Vidyalaya**  
Krishi Nagar, Adhartal, Jabalpur 482 004 (M.P.)  
Ph.: 0761-2681706 (O); Fax: 2681389  
E-mail: bisenvcjnkvv@gmail.com

## स्वागतम्

प्रिय छात्र-छात्राओं,

मध्य भारत में हरित-क्रांति के सृजनकर्ता तथा पीली-क्रांति के सूत्रधार, जवाहरलाल नेहरू कृषि विश्वविद्यालय में अपनी योग्यता के कारण प्रवेश पाने पर कुलपति की हैसियत से, मैं आप सभी विद्यार्थियों का स्वागत करता हूँ।

अमेरिकी लैंड-ग्रांट पद्धति पर आधारित तथा अक्टूबर 1964 में उद्घाटित इस विश्वविद्यालय के गौरव-गाथा तथा कृषि-विकास यात्रा में हम सभी के साथ सम्मिलित होने के अवसर पर आपके उज्ज्वल भविष्य की कामना करता हूँ।

उत्कृष्ट कृषि शिक्षा, अनुसंधान तथा विस्तार सेवाओं के सतत मूल्यांकन पश्चात् देश के 73 कृषि-शिक्षा संस्थानों में 18वाँ स्थान प्राप्त करने के उत्साह के साथ मैं आपको यह याद दिलाता हूँ कि राष्ट्र की सेवा में हम अपने छह कृषि महाविद्यालयों, एक कृषि अभियांत्रिकीय महाविद्यालय, आठ आंचलिक व क्षेत्रीय कृषि अनुसंधान केंद्र, एक उद्यानिकी वोकेशनल संस्थान तथा मध्यप्रदेश के सात कृषि जलवायु केंद्रों में फैले 20 कृषि विज्ञान केंद्रों की सहायता से 25 जिलों की कृषि समस्याओं को सुलझाते हुये, अपना उत्तरदायित्व आप सभी की सहायता से जागरूकता के साथ निभा रहे हैं।

राष्ट्रीय स्तर पर अनेकानेक उपलब्धियों के साथ-साथ, लगातार मध्यप्रदेश राज्य को पाँच बार प्रतिष्ठित कृषि कर्मण पुरुस्कार प्राप्त करने पर हम आल्हादित हैं।

मुझे पूर्ण विश्वास है कि जवाहरलाल नेहरू कृषि विश्वविद्यालय के विद्यार्थी के रूप में राष्ट्रीय स्तर पर अपनी प्रतिभा के अनुरूप इस विश्वविद्यालय को गौरवान्वित करके, अच्छे नागरिक बनकर राष्ट्र-सेवा में अपना अमूल्य योगदान देते रहेंगे। युवाशक्ति हमारी ऊर्जा है। आपके बुद्धि-कौशल तथा तार्किक कार्यों से अपने माता-पिता, गुरुजनों तथा राष्ट्र का कृषि क्षेत्र में श्रेष्ठतम् संस्थान बनाने में हमारी सहायता करेंगे, यही मेरी आकांक्षा है।

आपके उज्ज्वल भविष्य के लिये विश्वविद्यालय परिवार के साथ मैं सदैव हर कदम पर आपके साथ हूँ।

जबलपुर  
जुलाई 2, 2018

( प्रदीप कुमार बिसेन )



## राष्ट्र-गान

जन-गण-मन अधिनायक जय हे भारत भाग्य विधाता ।

पंजाब-सिन्धु-गुजरात-मराठा द्राविड़-उत्कल-बंग

विंध्य हिमाचल यमुना गंगा उच्छल जलधि तरंग

तव शुभ नामे जागे, तव शुभ आशिष मांगे  
गाहे तव जय-गाथा ।

जन-गण-मंगल दायक जय हे भारत भाग्य विधाता ।

जय हे, जय हे, जय हे, जय जय जय जय हे।

- रविन्द्रनाथ टैगोर



## राष्ट्र-गीत

वन्दे मातरम्, वन्दे मातरम् ।

सुजलाम् सुफलाम् मलयज शीतलाम् ।

शस्य श्यामलाम् मातरम् । वन्दे मातरम् ॥

शुभ्रज्योत्स्नाम् पुलकित यामिनीम् ।

फुल्ल कुसुमित द्रुमदल शोभिनीम् ॥

सुहासिनीम् सुमधुरभाषिणीम् ।

सुखदाम् वरदाम् मातरम् । वन्दे मातरम् ।

- बंकिमचंद्र चट्टोपाध्याय





## मध्यप्रदेश-गान

सुख का दाता, सब का साथी, शुभ का यह संदेश है,  
माँ की गोद, पिता का आश्रय, मेरा मध्यप्रदेश है ।

विंध्याचल सा भाल, नर्मदा का जल जिसके पास है,  
यहाँ तामी और बेतवा का पावन इतिहास है ।  
उर्वर भूमि, सघन वन, रत्न सम्पदा जहाँ अशेष है,  
स्वर-सौरभ-सुषमा से मंडित, मेरा मध्यप्रदेश है ।

सुख का दाता, सब का साथी, शुभ का यह संदेश है,  
माँ की गोद, पिता का आश्रय, मेरा मध्यप्रदेश है ।

क्षिप्रा में अमृत घट छलका, मिला कृष्ण को ज्ञान यहाँ,  
महाकाल को तिलक लगाने, मिला हमें वरदान यहाँ ।  
कविता, न्याय, वीरता, गायन, सब कुछ यहाँ विशेष है,  
हृदय देश का यह, मैं इसका, मेरा मध्यप्रदेश है ।

सुख का दाता, सब का साथी, शुभ का यह संदेश है,  
माँ की गोद, पिता का आश्रय, मेरा मध्यप्रदेश है ।

चंबल की कल-कल से गुंजित, कथा तान, बलिदान की,  
खजुराहो में कथा कला की, चित्रकूट में राम की ।  
भीमबैठका आदिकला का, पत्थर पर अभिषेक है,  
अमृतकुंड अमरकंटक में, ऐसा मध्यप्रदेश है ।

सुख का दाता, सब का साथी, शुभ का यह संदेश है,  
माँ की गोद, पिता का आश्रय, मेरा मध्यप्रदेश है ।

- महेश श्रीवास्तव



जवाहरलाल नेहरू कृषि विश्वविद्यालय, जबलपुर

## कुल-गीत

जय कृषि कुल जय भारत, जय कृषि कुल जय भारत,  
जय कृषि कुल जय भारत  
हमारा ये कृषि कुल परिवार

नर्मदा तट जाबालिपुरम् का, है गौरव गुरुद्वार ।  
नींव रखी नेहरू ने इसकी, किया स्वप्न साकार ॥  
हमारा ये कृषि कुल परिवार

हरित क्रांति का अग्रदूत यह, बना प्रगति आधार ।  
उन्नत खेती और किसानों, का चिर पहेरेदार ॥  
कृषक जगत में नवल शोध कर, करता ज्ञान प्रसार ।।।  
हमारा ये कृषि कुल परिवार

भारत भू की हृदय स्थली, है इसका विस्तार ।  
धरा गोंडवाना अँचल में, सुरभित नव सहकार ॥  
आओ करें वंदना इसकी, अगम ज्ञान आगार ।।।  
हमारा ये कृषि कुल परिवार

जय कृषि विश्वविद्यालय, जय कृषि विश्वविद्यालय,  
जय कृषि विश्वविद्यालय ।

- पंडित रूद्रदत्त दुबे



## Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (MP) – At a Glance



### Introduction

Under an Act of Madhya Pradesh Legislature passed in 1963, the University, Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV) was established by transferring the then existing six Government Colleges of Agriculture and two Veterinary Sciences & Animal Husbandry and 26 Research Stations, on the pattern of Land grant College of USA to narrow down the gap between experts and farmers. With an integrated mandate of Teaching, Research and Extension the JNKVV was inaugurated by the then Minister of Information & Broadcasting, Government of India on October 1st, 1964. The University had to part with the creation of sister universities Indira Gandhi Krishi Vishwa Vidyalaya (IGKV) at Raipur, Chhattisgarh in 1987, Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya (RVSKVV), Gwalior, M.P. in 2008 and Nanaji Deshmukh Pashu Chikitsa Vigyan Vishwa Vidyalaya (NDVSU), Jabalpur, M.P. in 2009.

### Mission

- To conduct education, research and extension activities for enhancing productivity, profitability and sustainability of agricultural production systems and quality of rural livelihood in the State of Madhya Pradesh

### Mandate

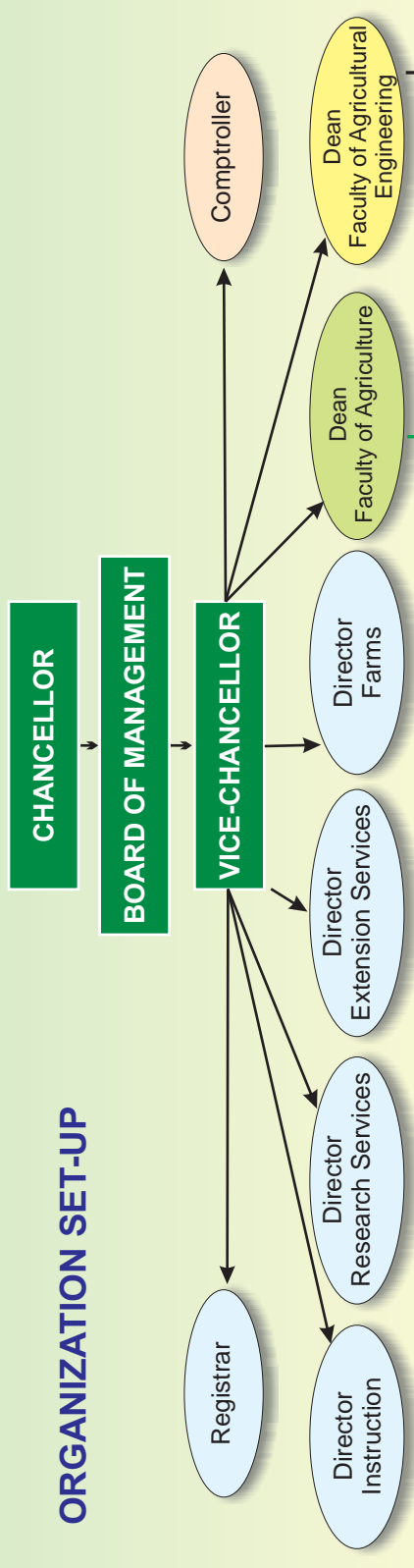
- To serve as a centre of higher education and research in the field of agriculture and allied sciences
- To disseminate technology to farmers, extension personnel and organizations engaged in agricultural development through various extension programs

### Jurisdiction

The University is serving 25 districts of Madhya Pradesh spread over seven agro-climatic zones:

1. Chhattisgarh Plain (Balaghat district).
2. Northern Hill Zone of Chhattisgarh (Mandla, Dindori, Shahdol, Annupur, Umaria)
3. Kaymore Plateau & Satpura Hills (Jabalpur, Katni, Seoni, Panna, Rewa, Sidhi, Singhroli & Satna)
4. Vindhyan Plateau- Partially (Sagar, Damoh, Raisen & Vidisha districts only)
5. Central Narmada Valley (Narsinghpur, Hoshangabad & Harda)
6. Bundelkhand Zone- Partially (Tikamgarh & Chhatarpur)
7. Satpura Plateau (Betul & Chhindwara)

# ORGANIZATION SET-UP



COLLEGE	Dean, CoA Jabalpur	Dean, CoA Rewa	Dean, CoA Tikamgarh	Dean, CoA Ganjbasoda	Dean, CoA Waraseoni	Dean, CoA Powarkheda	Agri. Engg. Jabalpur
Agroclimatic Zone	Kymore Plateau & Satpura Hills Jabalpur	Kymore Plateau & Satpura Hills	Vindhyan Plateau Zone Tikamgarh	Vindhyan Plateau	Satpura Plateau Chhindwara	Central Narmada Valley Powarkheda (Hoshangabad)	Kymore Plateau & Satpura Hills
Zonal Agri. Res. Station (ZARS)							
Regional Agri. Research Station (RARS)							
Agri. Research Station (ARS)			Naogaon (Chhattarpur)		Tendani, Sausar		
Krishi Vigyan Kendra (KVK)	Jabalpur, Katni	Rewa, Sidhi, Singroli, Shahdol	Tikamgarh, Panna, Chhattarpur	Sagar	Chhindwara	Harda, Betul	
Districts	Jabalpur, Katni, Anuppur, Umaria	Rewa, Satna, Sidhi, Singroli, Shahdol	Tikamgarh, Panna, Chhattarpur, Damoh	Vidisha, Raisen, Sagar	Balaghat, Seoni, Chhindwara, Mandla	Hoshangabad, Harda, Betul	

(as on 31.07.2018)

### Constituent Colleges and Centres of JNKVV (location and establishment year)

Faculty / Colleges	Year of Establishment	Accreditation by ICAR
<b>Faculty of Agriculture</b>		
College of Agriculture, Jabalpur	1955	Accredited
College of Agriculture, Rewa	1955	Accredited
College of Agriculture, Tikamgarh	2004	Accredited
College of Agriculture, Ganj Basoda	2007	Accredited
College of Agriculture, Waraseoni	2012	Under process
College of Agriculture, Powarkheda	2016	-
Degree programme of Forestry is accredited by Indian Council of Forestry Research & Education, Dehradun.		
<b>Faculty of Agricultural Engineering</b>		
College of Agricultural Engineering, Jabalpur	1966	Accredited by ICAR
<b>Horticulture</b>		
Dryland Horticulture Research & Training Centre (DHRTC), Garhakota, Sagar	2006	Operated by JNKVV
<b>Diploma in Horticulture</b> (Horticulture Vocational Education Institute, Garhakota, Sagar)		
1. Nursery Management 2. Seed Production	2008	Operated by JNKVV
<b>Others</b>		
Biotechnology Centre, Jabalpur	2003	
Seed Technology Research Centre	2009	
<b>Research Station</b>		
Zonal Agricultural Research Station (ZARS)	Chhindwara, Jabalpur, Powarkheda, Tikamgarh,	
Regional Agricultural Research Station (RARS)	Dindori, Rewa, Sagar, Waraseoni,	
Agricultural Research Station (ARS)	Garhakota, Navgaon, Tendani, Sausar	
<b>Specialized Research Centre</b> (in the process of establishment)	1. Sugarcane Research Center, Bohani, Narsinghpur 2. Organic Farming Research Center, Orai, Mandla	
<b>Extension Centre</b>		
Krishi Vigyan Kendra (20)	Annupur, Badgaon, Betul, Chhatarpur, Chhindwara, Damoh, Dindori, Harda, Jabalpur, Katni, Mandla, Narsinghpur, Panna, Rewa, Sagar, Seoni, Shahdol, Singrauli, Tikamgarh and Umaria	

## Departments in Faculty of Agriculture and Agricultural Engineering

Faculty of Agriculture	Faculty of Agricultural Engineering
1. Agricultural Biotechnology	1. Agricultural Structure & Environmental Engg
2. Agricultural Economics & Farm Mgmt.	2. Applied Physics & Agricultural Meteorology
3. Agronomy	3. Farm Machinery & Power Engineering
4. Entomology	4. Post Harvest Process & Food Engineering
5. Extension Education	5. Soil & Water Engineering
6. Food Science & Technology	
7. Forestry	
8. Horticulture	
9. Mathematics & Statistics	
10. Plant Breeding & Genetics	
11. Plant Pathology	
12. Plant Physiology	
13. Soil Science & Agricultural Chemistry	

## Academic Programmes

Bachelor Degree	Masters Degree	Doctoral Degree	Diploma
<ul style="list-style-type: none"> <li>☛ B.Sc. (Hons) Ag.</li> <li>☛ B.Sc. (Hons) Forestry</li> <li>☛ B.Tech. (Agril. Engineering)</li> </ul>	<ul style="list-style-type: none"> <li>☛ Faculty of Agriculture (13 departments)</li> <li>☛ Master of Agri-Business Management (MABM)</li> <li>☛ Faculty of Agricultural Engineering (3 depts.)</li> </ul>	<ul style="list-style-type: none"> <li>☛ Faculty of Agriculture (13 department)</li> <li>☛ Faculty of Agricultural Engineering (3 department)</li> </ul>	<ul style="list-style-type: none"> <li>Horticulture</li> <li>☛ Seed Production</li> <li>☛ Nursery Management</li> </ul>
Admission through entrance test conducted by Professional Examination Board, Bhopal	Admission through entrance test conducted jointly by JNKVV and RVSKVV	Admission through entrance test conducted jointly by JNKVV and RVSKVV, Gwalior	Baed upon participation in Counseling after 12 <sup>th</sup> standard

## Availability of seats in Bachelor Degree programmes (2018-19)

College	Free Seats	Payment Seats (20%)	ICAR* (15%)	NRI (5%)	Total Intake Capacity
<b>B.Sc. (Hons.) Agriculture</b>					
College of Agriculture, Jabalpur	70	14	11	4	99
College of Agriculture, Rewa	70	14	11	4	99
College of Agriculture, Tikamgarh	70	14	11	4	99
College of Agriculture, Ganjbasoda	40	8	6	2	56
College of Agriculture, Waraseoni	40	8	6	2	56
College of Agriculture, Powarkheda	40	8	6	2	56
<b>Sub-Total</b>	<b>330</b>	<b>66</b>	<b>51</b>	<b>18</b>	<b>465</b>
<b>B.Sc. (Hons.) Forestry</b>					
College of Agriculture, Jabalpur	25	5	4	1	35
<b>B.Tech. (Agricultural Engineering)</b>					
College of Agricultural Engineering, Jabalpur	70	14	11	4	99
<b>TOTAL</b>	<b>425</b>	<b>85</b>	<b>66</b>	<b>23</b>	<b>599</b>

\* ICAR Quota seats to be filled by the ICAR. It is not filled through PAT Entrance Test.

### Master and Doctorate Degree Programme in different disciplines at constituent colleges

S. No.	Faculty of Agriculture	Campus wise seats									
		Master								Doctorate	
		Jabalpur		Rewa		Tikamgarh		Total		Jabalpur	
		F	P	F	P	F	P	F	P	F	P
1	Agri. Eco. and Farm Management	16	16	*	*	*	*	16	16	4	2
2	Agricultural Extension	10	10	6	6	3	3	19	19	4	4
3	Agricultural Statistics	8	8	0	0	0	0	08	08	0	0
4	Agronomy	10	6	5	5	3	3	18	14	4	2
5	Entomology	12	10	2	2	-	-	14	12	4	4
6	Food Technology	6	6	0	0	0	0	06	06	0	0
7	Genetics & Plant Breeding	10	6	4	4	0	0	14	10	6	6
8	Molecular Biology & Biotechnology	6	6	0	0	0	0	06	06	2	0
9	Plant Pathology	12	12	3	3	*	*	15	15	2	2
10	Plant Physiology	8	8	0	0	0	0	08	08	3	3
11	Soil Science	10	6	0	0	0	0	10	06	4	2
12	Fruit Science	5	5	2	2	0	0	7	7	2	1
13	Vegetable Science	5	5	2	2	2	2	9	9	2	1
14	Agro-forestry	4	4	0	0	0	0	4	2	2	1
	Total	112	96	28	28	14	14	154	138	39	28
16	Agri-Business Management	15	15	0	0	0	0	15	15	0	0
	Grand Total	127	111	28	28	14	14	169	153	39	28

S.No.	Faculty of Agricultural Engineering	Jabalpur			
		M. Tech.		Ph.D.	
		F	P	F	P
17	Farm Machinery and Power Engineering	6	6	4	4
18	Processing and Food Engineering	6	6	4	4
19	Soil and Water Engineering	6	6	4	4
	Total	18	18	12	12

### Summary

	Master( 19 subjects)		Doctorate (15 subjects)	
	Free	Payment	Free	Payment
Total seats	187	171	51	40
Sub total		358		91
ICAR quota (25% of free seat)		47		13
Grand total		405		104

\* Temporarily shifted to College of Agriculture, Jabalpur

### Gold Medals, Cash Prizes and Awards

Following medals/prizes/awards have been established for the degree holders of the University:

Award	Degree Programme
University Gold Medal	B.Sc. (Ag) / B.Sc. (Forestry)
University Gold Medal	B.Tech. (Agril. Engg.)
University Gold Medal	M.Sc. (Ag)/M.Sc. (Forestry)/MBA/ M.Tech. (Agril. Engg.)
Late Dr. R.L. Gupta Gold Medal	Highest cumulative marks/GPA in the subjects offer by the Department of Entomology at B.Sc. (Ag) degree programme
Late Dr. D.K. Tiwari Gold Medal	Highest OGPA in M.Sc. (Ag)
Late Dr. P.K. Nigam Gold Medal	Highest OGPA in M.Sc. (Ag) Plant Physiology
Late Pandit Shrikant Mishra cash prize	First rank in B.Sc. (Ag) degree programme
JNKVV Pensioners Parishad Talent Cash Award	Rs. 15000/- to first and 10000/- to second rank holder in B.Sc. (Ag) degree programme
Sitaram Jindal Foundation Gold Medals	? Highest scorer at B.Sc. (Agriculture/ Forestry) degree programme at the University level ? Highest scorer at B.Tech. (Agril. Engg.) degree programme at the University level ? Highest scorer at Masters (Agriculture/ Agril. Engg./Forestry/Horticulture) degree programme at the University level
Best Thesis Award	At University level for best Master and Doctorate level thesis submitted in the University for each academic year.
EPCO Fellowship	Fellowship from Environmental Planning and Coordination Organization; Government of MP for Ph.D. scholar to perform research on climate change related subjects in MP. EPCO provides fellowship of Rs. 25,000/- per month for three years and contingency of Rs. 50,000/- per year for three year.
Best User of the Library Award	Library Science Day is celebrated every year on 12th August by the Central Library on birthday of Father of Library Science Dr. S.R. Ranganathan. On the occasion the best user is honoured with best library user's award.

### Students Scholarship

S.No.	Scholarship Name	Details
01	ICAR (NTS) - UG National Talent Scholarship	Rs. 2,000/- per month. Students from out of M.P. State, for continuation 70% marks for General category & 65% for SC/ST category, all subject passed in 1 <sup>st</sup> attempt
02	ICAR (NTS) - PG	Rs. 3,000/- per month Students other than JNKVV. Started from Nov. 2015
03	ICAR (JRF) - PG	Students awarded JRF by ICAR Rs. 8,640/- per month + Rs. 6,000/- per year contingency



S.No.	Scholarship Name	Details
04	<b>ICAR (SRF) - Ph.D.</b>	Students awarded SRF by ICAR Rs. 12,000/- per month (1 <sup>st</sup> Yr and 2 <sup>nd</sup> Yr) and Rs. 14,000/- per month (3 <sup>rd</sup> Yr) + Rs. 10000/- per year contingency
05	<b>Merit cum means scholarship ( ICAR)</b>	Rs. 500/- per month. Income of parents Rs. 1.0 lakh, more than 65% marks in 12 <sup>th</sup> standard
06	<b>Vishwa Vidyalaya Merit Scholarship</b>	<b>UG</b> - 1st year, selected on the basis of percentage obtained in 12 <sup>th</sup> standard result @ Rs.1,200/- per year ; <b>PG</b> – selected on the basis of B.Sc.(Ag.) result @ Rs. 1,500/- per year (5% selected to the total strength of University)
07	<b>Dr. P.D. Gadkari Scholarship</b>	12 <sup>th</sup> Standard toper student in the V.V. Rs. 5000/- 1 <sup>st</sup> year (only one year)
08	<b>Dr. P.K. Nigam Sports &amp; Culture Scholarship</b>	V.V. Award for one student every year, Rs. 1200/-
09	<b>General Category Vikramaditya Scholarship</b>	Free seat admitted students, Income of parents Rs. 1.0 lakh, more than 65% marks obtained in 12 <sup>th</sup> standard. Rs. 2,500/- (50% of tuition fees)
10	<b>SC/ST/OBC Post Matric Scholarship</b>	Parents income SC/ST - upto Rs.3.0 lakhs (relief free seat for payment seat students); OBC- upto Rs. 75,000/- only free seat students. SC, ST(Hosteller) @ Rs. 1,500/-per month; SC, ST (Day Scholar) @ Rs. 550/- per month; OBC (Hosteller) @ Rs. 425/- per month; OBC (Day Scholar) @ Rs. 190/- per month and deposited fee of both semester
11	<b>Awas Sahayta</b>	As per category and parents income, SC/ST - upto Rs. 3.0 lakhs (relief free seat for payment seat students); only for SC /ST students @ Rs. 2,000/- per month
12	<b>Minority Scholarship</b>	Muslim, Jain, Christian, Sikh, Parsi, Buddhist
13	<b>Rajiv Gandhi National Fellowship SC/ST/OBC U.G.C., New Delhi</b>	All India merit basis (PG degree), <b>For JRF:</b> Rs. 25,000/-per month + Rs. 12,000/- per month contingency ; <b>For SRF:</b> Rs. 28,000/- per month + Rs. 25,000/-per month contingency
14	<b>Inspire Fellowship from Department of Science &amp; Technology, New Delhi</b>	1 <sup>st</sup> rank of concerning department at University level, Rs. 25000/- per month + Rs. 12000/-per month (JRF), Rs. 28000/- per month + Rs. 25000/- per month (SRF)
15	<b>Central Sector Scholarship</b>	Above 80% marks in 12 <sup>th</sup> standard
16	<b>Other state SC/ST/OBC Scholarship</b>	Students may apply for scholarship through college
17	<b>Anand Foundation</b>	ASPEE Scholarship
18	<b>Gaon Ki Beti</b>	Above 60% marks in 12 <sup>th</sup> standard and resident of village
19	<b>EPCO Scholarship</b>	Ph.D. Scholarship for research on climate change related subjects Rs. 25,000/-per month. For maximum 3 years + Rs. 50,000 contingency

**Fees:**
*(in Rs.)*

Programme	Fees Type	1 <sup>st</sup> Year		2 <sup>nd</sup> Year		3 <sup>rd</sup> Year		4 <sup>th</sup> Year	
		1 <sup>st</sup> Sem.	2 <sup>nd</sup> Sem.	1 <sup>st</sup> Sem.	2 <sup>nd</sup> Sem.	1 <sup>st</sup> Sem.	2 <sup>nd</sup> Sem.	1 <sup>st</sup> Sem.	2 <sup>nd</sup> Sem.
<b>B.Sc. (Hons.) Ag. / B.Sc. (Hons.) Forestry</b>	Free (DS)	9666	6852	7107	6852	7107	6852	7107	6852
	Free (H)	14166	9477	9732	9477	9732	9477	9732	9477
	Payment (DS)	42166	1852	20857	20602	20857	20602	20857	20602
	Payment (H)	46666	4477	23482	23227	23482	23227	23482	23227
<b>B.Tech. (Agril. Engineering)</b>	Free (DS)	17284	1852	8385	8065	8385	8065	8285	8065
	Free (H)	21484	4177	10710	10390	10710	10390	10770	10390
	Payment (DS)	54784	1852	27160	26840	27160	26840	27160	26840
	Payment (H)	58984	4177	29492	29165	29492	29165	29492	29165
<b>M.Sc. (Ag.) / M.Sc. (Forestry)</b>	Free (DS)	14350	11602	11857	11602	-	-	-	-
	Free (H)	19150	14527	14782	14527	-	-	-	-
	Payment (DS)	42470	2222	21227	20972	-	-	-	-
	Payment (H)	47270	5147	24152	23897	-	-	-	-
<b>M.B.A. / M.Sc. (Biotech)</b>	Free (DS)	20600	17852	18107	17852	-	-	-	-
	Free (H)	25400	20777	21032	20777	-	-	-	-
	Payment (DS)	48720	8472	27477	27222	-	-	-	-
	Payment (H)	53520	11397	30402	30147	-	-	-	-
<b>M.Tech. (Agril. Engineering)</b>	Free (DS)	17360	14710	14965	14710	-	-	-	-
	Free (H)	21860	17335	17590	17335	-	-	-	-
	Payment (DS)	54884	2210	27465	27210	-	-	-	-
	Payment (H)	59384	4835	30090	29835	-	-	-	-
<b>Ph.D. (Ag.) / Ph.D. (Forestry) (*Bonafide in MP)</b>	Free (DS)	19013	16222	16477	16222	16477	16222	-	-
	Free (H)	23813	19147	19402	19147	19402	19147	-	-
	Payment (DS)	55263	2472	27727	27472	27727	27472	-	-
	Payment (H)	60063	5397	30652	30397	30652	30397	-	-
<b>Ph.D. (Agri. Biotechnology) (*Bonafide in MP)</b>	Free (DS)	25263	22472	22727	22472	22727	22472	-	-
	Free (H)	30063	25397	25652	25397	25652	25397	-	-
	Payment (DS)	61513	8722	33977	33722	33977	33722	-	-
	Payment (H)	66313	11647	36902	36647	36902	36647	-	-
<b>Ph.D. (Agril. Engineering)</b>	Free (DS)	18884	16210	16530	16210	16530	16210	-	-
	Free (H)	23384	18835	19155	18835	19155	18835	-	-
	Payment (DS)	55134	2460	27780	27460	27780	27460	-	-
	Payment (H)	59634	5085	30405	30085	30405	30085	-	-

\* Ph.D. (payment seat) for other states Rs. 62,500/- per annum

Courses of Ph.D. (Agri. Biotechnology) per semester additional fees of Rs. 6,250/- will be charged.

**Laboratory facilities**

Facilities for advance research are available in each constituent department to fulfil the mandate of the University.

Seed Technology Centre	<i>All modern equipments require to test the quality of seed at international level are available in the centre.</i>
Biotechnology Centre	<i>The centre is well equipped for research on molecular aspects.</i>
Breeder Seed Production Centre	<i>The centre is well equipped for maintenance of varieties and production, processing and storage of Nucleus and Breeder Seed.</i>
Microbes Research and Production Centre	<i>The centre is well equipped to produce bio-fertilizer at commercial level and microbial research</i>

Bio-Pesticide Production and Research Centre	<i>The centre is well equipped to produce bio-pesticide at commercial level and research</i>
Crop Quality Lab	<i>The lab is well equipped to test the crop quality and research on related aspects</i>
Post entry Quarantine Lab	<i>The lab is well equipped to test the sample for post-entry quarantine</i>
Farm Machinery Demonstration and Testing Centre	<i>The centre is equipped with modern gadget to test, demonstrate the farm machineries and research on related aspects</i>
Tissue Culture Lab	<i>The lab is equipped with modern gadgets for training on tissue culture</i>
Food Processing Centre	<i>The centre is equipped for research and training on food processing aspects</i>
Soil Testing Lab	<i>The lab is equipped for research and testing on/of soil</i>
Communication Centre with Krishi Gyan Vani Prasar Kendra (Studio)	<i>The centre is well equipped for printing publications, recording , broadcasting and telecasting audio-video</i>
Agricultural Technological Information Centre	<i>The centre is equipped for transfer of technology in best possible way</i>
Soil Science Centre of Advanced Faculty Training	<i>The centre is well equipped for training to advanced faculty in the field of Soil Science and Agricultural Chemistry</i>
Mushroom Production Centre	<i>The centre is well equipped to provide training on mushroom production at commercial level</i>
Herbal Quality Analysis Lab	<i>It is well equipped to test the biochemical quality of herbs</i>
E-Lab	<i>Well equipped e-lab is available for training on aspects related to e-communication</i>
Business Planning and Development Unit	<i>The centre is well equipped to provide training on business planning and development to entrepreneur at national level</i>
Instructional Farms	<i>Each college has well equipped instruction farm for teaching and research at field level</i>
Practical Laboratories	<i>Each department in each college has well equipped lab to perform practical in how-to-do-it manner</i>
Remote Sensing and GIS Lab	<i>The lab is well equipped to research on satellite data on GIS platform</i>
Pesticide Residue Lab	<i>The lab is established to test the residue of pesticide in</i>

### **Infrastructure, Library facilities and Information Network**

The Satyanarayan Sinha Central Library, Jawaharlal Nehru Krishi Vishwa Vidyalaya, (JNKVV), Jabalpur is one of the prime agricultural libraries in central India and a vital component of the University's excellent teaching, research and extension activities. All the recent information resources are accessible in the Library in form of hard, soft copies and online through digital resources. Apart from University Central Library, the library system of JNKVV comprises sub units at all the constituent colleges and few research stations of the University.

#### **User friendly facilities:**

- Library in functional at separate building with high bandwidth internet service.
- Reference, periodical, Agricultural Research Information System (ARIS) functional.
- Thesis (1990-2016) are digitized on 'Krishi Kosh Repository'.
- CeRA (Consortium of e-Resources in Agriculture) / J-Gate (e-Journal Gateway) available with more than 50,000 + Journals and 56,870,816 Articles.
- Educational CD/ Centre for Agriculture and Bioscience International (CABI) CD available

- Books/e-Books, Journals bound volumes / e-Journals, Thesis / e-Thesis available.
- **Library Automation** with KOHA Library automation software
- **Online Public Access Catalogue (OPAC)** is available, which is systematically records of the holdings/collection to find the information for easier to search the available resources.  
<http://jnkvvopac.bestbookbuddies.com>
- **Book Bank Scheme:** Books are issued to students for six months or one semester.

**Implementation of National Academic Depository of UGC at JNKVV, Jabalpur** National Academic Depository (NAD) is an online store house of academic awards (degrees diplomas certificates mark-sheets etc.) lodged by the academic institutions/boards/eligibility assessment bodies in a digital format. It is on 24x7 online mode for making available academic awards and help in validating the authenticity, safe storage and easy retrieval. The digital depository keeps the academic awards in the digital format and ensures data integrity and will be implemented from the year 2018-2019. Students need not carry their certificates uploaded on NAD during Interviews, etc.

**Anti-plagiarism for Doctoral thesis:** In the recent past in general, academic dishonesty has been observed in idea, hypothesis, presentation, conclusion and innovation at national level. For promotion of academic integrity and prevention of plagiarism in higher education use of anti-plagiarism tool is proposed for curricular and project research by UGC. In the first step, it may be adopted at Doctoral thesis level in the University. Before submission, thesis has to pass the fixed standards of plagiarism with the help of anti-plagiarism software. The thesis will be tested online and the report will also be generated online and passed as per the level of plagiarism fixed by UGC. This shall be in force from 2018-19.

#### **Preparedness for Competitive Examination Cell (CEC)**

A competitive examination cell has been established with an initiative to promote students to face competitive exams conducted by various governmental and other agencies. Various competitively important reading materials along with multiple choice questions, solved/unsolved papers etc are being provided to students. The section also helps its members in preparing for NET, JRF/SRF, BANK PO, IAS, PSC, UPSC TOFEL, IELTS & GRE examinations etc. New books related to general knowledge, question banks, are added to this collection. Question bank on various subjects developed by ICAR and also Faculty of JNKVV are kept for use of users. **Contact: Dean Student Welfare** for details.

**Carrier Guidance Classes:** Each College organize a carrier guidance class by involving teacher of repute/ professional form Bachelor and Master degree programme.

#### **Hostel and Sports facilities**

Well equipped Gymnasium and stadium are available for all-round development to minimize intellectual isolation at Jabalpur and basic facilities at constituent colleges. Each college has well equipped health medical centre supported by medical and paramedical staff. For all-round development of student and staff, gymnasium, stadium, swimming pool, etc. are functional. Recently, Zonal Sports Complex has been inaugurated by HE the Governor & Chancellor of Madhya Pradesh, Smt. Anandi Ben Patel on April 12, 2018.

**International Hostel:** An International hostel of capacity of 15 students has been established at Jabalpur with the support of ICAR for facilitating education of students from abroad. It enables students and scholars of different nationalities, cultures and social backgrounds to meet informally, share experiences and to learn about themselves, each other and their surroundings. Students from Afghanistan, Nigeria, Botswana, Nepal, Bangladesh and Sri Lanka are residing.

#### **Students helpline**

Student Placement Cell is run by Dean Students Welfare. A large number of students got recruitment in private agriculture organizations and banks through campus interviews.

Hostel		Number of seats						
College	Jabalpur Rewa	Tikamgarh	Waraseoni	Ganj basoda	Powarkheda	Agril. Engg., Jabalpur	Total	
Boys	387	115	48	65	66	30	84	795
Girls	208	120	48	-	26	20	72	494
<b>Total</b>	<b>595</b>	<b>235</b>	<b>96</b>	<b>65</b>	<b>92</b>	<b>50</b>	<b>156</b>	<b>1289</b>
<b>International Hostel</b>	<b>15</b>							

Students are given coaching to appear in competitive examinations for higher education, fellowship and Government jobs. Counseling and help in seeking admission in foreign universities is also provided by Dean Students Welfare. Strong association of alumni with the college/university helps in establishing the brand ambassador through active alumni cell.

Educational tour is regular phenomenon at Bachelor Degree programme. It gives various types of exposure viz., facts of life with pleasure, vision of the outside world and confidence and competence building.

#### **Adoption of ICAR Vth Deans Committee recommendations**

The University has adopted the recommendation of Vth Deans Committee of ICAR from the year 2016-2017 with required changes in course curricula, examination and evaluation.

**Convocation:** So far, the University organized 14 convocation. Recently, 14<sup>th</sup> Convocation was organized at Jabalpur on April 12, 2018, in the gracious presence of HE Governor and Chancellor, MP, Smt. Anandi Ben Patel. Due to change in dress-code, adopting Indian style, the 14<sup>th</sup> Convocation was historical. The University organized the Golden Jubilee Convocation on June 27, 2014 in the auspicious presence of the then President of India, Shri Pranab Mukherjee.

#### **Recognition**

- The University received Mahindra Samridhi National Agriculture Education Award 2015 under National Agriculture Education Prosperity Honour Award Category and Best Agriculture University Vice Chancellor Award in 2015 by AIASA.
- More than 50 national and international awards have been received by the teachers, scientist and extension workers of the University so far.
- Agricultural Education Division, Indian Council of Agricultural Research, New Delhi ranked Jawaharlal Nehru Krishi Vishwa Vidyalya, Jabalpur at 18<sup>th</sup> place among all the organizations involved in Agricultural Education and 12<sup>th</sup> place among State Agricultural Universities.

#### **Teaching-Research MoU**

With a view to strengthen curricular research activities, the University has established strong linkages for higher education, research and training. Areas of cooperation include the subject of mutual interest and contribution towards strengthening agricultural education and research in the state of Madhya Pradesh. JNKVV has signed MoU following national and international universities/institutes and private sector organizations.

- School of Agricultural and Environmental Sciences, ALABAMA University, USA
- International Rice Research Institute, Philippines
- Alcorn State University, Alcorn State, Mississippi, USA
- Chiba University, Japan
- International Centre for Agricultural Research in the Dry Areas (ICARDA)

- Indian Council of Agricultural Research, New Delhi (JNKVV-ICAR, New Delhi)
- Advanced Centre for Plant Virology (ACPV), IARI, New Delhi
- Indian Agricultural Research Institute, New Delhi
- National Research Centre for Citrus, Nagpur
- ISRO-JNKVV - Project on Vegetation Carbon Pool
- Borlaug Institute of South Asia (BISA), Jabalpur (MP)
- National Institute of Agricultural Extension Management (MANAGE), Hyderabad
- International Crop Research Institute for Semi Arid Tropics (ICRISAT), Hyderabad
- ICAR (Umbrella MoU)
- National Knowledge Net work (NKN), GOI, Department of Electronics & Information Technology, National Informatics Centre, New Delhi
- JNKVV-DCM Shriram Consolidated Ltd (Bio-seed Research India), New Delhi
- Department of Biotechnology, Ministry of Science and Technology, GOI, New Delhi (DBT)
- India Meteorological Department, Ministry of Earth Sciences, GOI, New Delhi
- MP State Planning Commission
- PAU (Punjab Agricultural University), Ludhiana
- National Bureau of Agriculturally Important Microorganisms (NBAIM), Mau
- Ministry of Agriculture Co-operation and Farmers Welfare, Government of India, New Delhi for Agro Economic Research Centre
- Anand Agricultural University, Anand (Gujrat)
- Central Cotton Research Institute, Nagpur (M.S.)
- Directorate of Soybean Research, Indore (MP)
- Sonam Seed Technologies Private Limited, Basheer Bagh, Hyderabad
- Jain Irrigation Systems Ltd., Jalgaon, Maharashtra
- Mahindra & Mahindra Limited, Mumbai
- Nuziveedu Seeds Limited, Ranga Reddy Distt., A.P.
- Manisha Agri Biotech Pvt Ltd, Serilingampally, RR Distt. (JNKVV-NABPL)
- Bayer Bioscience Pvt. Limited
- PI Foundation (Pesticide Industries), Gurgaon
- National Fertilizer Limited, New Delhi
- MBCFPL (Madhya Bharat Consortium of Farmers Producers Company Limited, Bhopal)
- Kribhco Agrotech India Pvt. Limited
- Agriculture Skill Council of India, Gurgaon (Haryana)

### **Excellence at National level**

- Centre of Advanced Faculty Training (CAFT) in Soil Science & Agricultural Chemistry
- Centre of Excellence in Medicinal and Aromatic Plants – Herbal garden is one of the unique *ex-situ* garden in the country housing more than 1100 species of 500 genera of 110 families.
- Biotechnology Centre
- Dryland Horticulture Research & Training Institute
- Nucleus and Breeder Seed Production Centre - contributes about 20 per cent of the Breeder seed of various crops at national level.
- Business Planning & Development Unit
- Agri-clinic and Agri-business Training Center of GOI
- Sanitary and Phyto-sanitary Laboratory
- Crop Residue Analysis Laboratory
- Microbes Research and Development Center
- Nucleus and Breeder Seed Production Centre



## Research

In all 138 research projects including 43 AICRP are operating in the University. With strong germplasm availability the University developed 270 varieties of 25 crops. Efficient production technologies developed by the University established soybean as an important commercial crop of India. The University is producing highest quantity of breeder seed at national level with a very strong and unique maintenance breeding system that reflects with high seed replacement rate in the state of Madhya Pradesh.

## Accomplishments

- Developed the world famous Jawahar soybean varieties (16) with better oil (18-20%) and protein (40-42%) content, which are resistance to major diseases, which laid strong foundation for expansion of its area and production in the country.
- Brought hybrid rice revolution through development of early maturing hybrid rice varieties. This has resulted to utilize rice fallow through cultivation of chickpea during rabi season in upland rice growing area.
- The varieties of rice viz., improved Chinnor and Improved Jeera Shankar are exploiting niche market of scented rice in India and abroad.
- Chickpea variety JG 11 brought revolution in southern states; JG 74, JG 130, JAKI 9218, JG 16, JG 63 and JG 36 have offered diversification; JG 14 is known as world first heat tolerant variety; and Introduction of Kabuli chickpea varieties led to expansion of 15% area under bold seeded chickpea in the State.
- M.P. wheat is known for its quality. Numerous high quality nutri-rich wheat varieties (23) and production technology have been developed.
- Developed high yielding small millet varieties of Kodo (9) and little millet (6) for food security in tribal areas of the state.
- Developed improved varieties of vegetables such as chillies (2), table pea (5), sweet potato (2), brinjal (2), tomato (1) and Indian bean (4).
- Developed high yielding varieties of medicinal and aromatic plants such as opium poppy, Ashwagandha, Isabgol and Safed musli.
- Developed management practices for black soils of high rainfall areas such as viz., Ridge furrow and broad bed furrow systems; Raised and sunken bed technologies and rainwater recycling technology for efficient use of natural resources.
- Developed and validated system of wheat, pigeonpea, and mustard intensification for enhancing the production.
- Identified potential cropping system of field and vegetable crops for different agro-climatic zones for irrigated and rainfed situations for enhancing cropping intensity; and evolved production technology for 30 medicinal and 6 aromatic plants.
- The University has developed technology for lac production, beekeeping, mushroom production, inland fisheries, poultry, vegetable production, small food processing units etc
- Developed technologies for soil conservation, ground water recharge, low water lifts, mapping of irrigation and energy saving in irrigation. The water budgeting has been developed for all the districts of Madhya Pradesh.
- The Water Resources Restructuring project is implemented in five river basins covering 25 districts of Madhya Pradesh for improvement of water productivity.
- Developed soils test based fertilizer adjustment equations for 16 major crops of the State to achieve desired yield targets.

- Developed consortium of bio-fertilizers for different crops for economic and efficient use of fertilizers and manure; and protocol for commercial production of liquid biofertilizer.
- Integrated Pest Management package for management of major insect pest diseases have been developed.
- Developed low cost technology for cultivation of oyster mushroom.
- Developed low cost machinery viz., Jawahar guggul blazer, thresher for sunflower, safflower handling devices, water chestnut decorticator, pea peeling machine, chickpea stripping cum shelling machine, tillage equipment, energy saving dryers and onion storage structure.
- The University has patent on Improved Seed Drill Choke Indicator (No.232368) and Rice Polish Measurement System (No.228921). Developed Jawahar Light trap for monitoring of Insect-pest occurrence. Electronic instruments such as digital grain moisture meter, fertilizer recommendation package, soil nutrient estimation system, micro controller based sulphur estimation system and personal computer based monitoring system for safe grain storage, multimedia software for popularization of available agricultural technologies, etc. have been developed.
- Developed various bio-agents for control of insect-pests and diseases.

### **Impact of the University**

- Research achievements in the field of agriculture and allied sciences during last fifty three years are reflected in confirmation of various awards to Government of Madhya Pradesh in the field of agriculture.
- The State of Madhya Pradesh has *achieved* 25.8% Agricultural Growth Rate *during* 2016-2017 *with* average 18% AGP *in last* five years.
- In the state of Madhya Pradesh Ten lakh ha uncultivated land is converted into agricultural land ; Seventeen lakh ha land is converted from single to double crop area; and Three lakh ha land is converted from double crop area to three crop area
- The state of Madhya Pradesh is the highest producer of pulses, oilseed, soybean, chickpea, lentil, urid bean, tomato, garlic, guava and organic food produce at national level.
- The state of Madhya Pradesh is the second highest producer of wheat, pigeonpea, mustard, coriander, orange and vegetable pea at national level.
- Efficient production technologies developed by the University made soybean an important crop of India. The state contributes 25% in country's oil pool by Soybean and earns 6585 crores foreign exchange through DOC export.
- JNKVV varieties are covering 40% area of chickpea in India. Jawahar varieties contribute 58 % in national Breeder Seed Production of chickpea. World first heat tolerant variety JG 14 is popular in many countries. JG 11 brought chickpea revolution in A.P. Introduction of Kabuli chickpea led to expansion of 15% area in M.P.
- Highest Breeder seed production by the University at national level ensures high seed replacement rate in the state of Madhya Pradesh *i.e.*, 47.55% in Maize, 37% Mustard, 33.56% Soybean, 30.2% Wheat, 17% Rice, 15.57% Pea, 9.97% Chickpea, 5.79% Lentil, 5.7% Sesame, 2.52% Linseed and 0.87% Niger .
- Soybean varieties developed by JNKVV covers 90% soybean acreage in the country.
- Quality Breeder seed produced by the University ensures replacement of old varieties, reduction in the incidence of loose smut of wheat, bunt of rice etc., ensures no entry of many potential seed borne diseases viz., Karnal bunt of wheat and reduction in the percent rejection of Foundation seed
- Share of the varieties developed by the University in total seed distribution at national level

## **Extension Services**

- The technologies developed by the University are disseminated by the extension workers through well knit network of 20 Krishi Vigyan Kendras spread over 7 agroclimatic zones.

### **Focused areas:**

- On-campus and off-campus trainings
- Demonstrations and 'on-farm' trials
- Organization of Kisan Melas – Farmer Scientist Interface
- Mass communication through newspapers, radio and TV
- Publication of farmer friendly extension literatures
- Institution Village Linkage Programme
- Kisan Call Centre and Kisan Mobile Sandesh
- Services through plant clinics
- Agricultural Technological Information Centre (ATIC) cater the needs of farming community through Single Window System
- Technology Park and Crop Cafeteria
- Linking farmers to the market
- Audio and video recording for broadcasting and telecasting
- More than 931 farmer's varieties have been registered for protection in PPVFRA. At national level 18 farmers of MP are awarded in the year 2016
- Testing and distribution of Soil health card
- Establishment of seed hub at Betul, Harda, Narsinghpur, Damoh, Tikamgarh to make 12,000 quintal certified seed of pulses available to farmers
- Working for welfare of farming community through 'Farmers First Yojana', 'Mukhya Mantri Khet Tirth Yojana', 'Mera Gaon Mera Gourav Yojana', 'Adarsh Sansad Gram Yojana', etc.

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### National Anti Ragging Help Line (UGC Crisis Hotline)

#### 24 X 7 ANTI RAGGING HELPLINE

Toll Free No.: 1800 - 180 – 5522, E-mail: helpline@antiragging.in

For complaint log on to - www.antiragging.in; www.amanmovement.org

## WORLD STANDARD TIMES

Place	Time	Place	Time	Place	Time
Accra	GMT	Dublin	GMT	Ottawa	0700 (- 5)
Amsterdam	1300 (+ 1)	Helsinki	1400 (+ 2)	Paris	1300 (+ 1)
Ankara	1400 (+ 2)	Hong Kong	2000 (+ 8)	Peking	2000 (+ 8)
Athens	1400 (+ 2)	Jerusalem	1400 (+ 2)	Perth	2000 (+ 8)
Auckland	2400 (+ 12)	Johannesburg	1400 (+ 2)	Pretoria	1400 (+ 2)
Baghdad	1500 (+ 3)	Karachi	1700 (+ 5)	Quebec	0700 (- 5)
Bangkok	1900 (+ 7)	Kolkata	1730 (+ 5½)	Rio de Janeiro	0900 (- 3)
Belgrade	1300 (+ 1)	Kuala Lumpur	2000 (+ 8)	Riyadh	1500 (+ 3)
Berne	1300 (+ 1)	Kuwait	1500 (+ 1)	Rome	1300 (+ 1)
Bogota	0700 (- 5)	Lagos	1300 (+ 1)	San Francisco	0400 (- 8)
Bonn	1300 (+ 3)	Lisbon	GMT	Seoul	2100 (+ 9)
Brasilia	0900 (- 3)	London	GMT	Singapore	2000 (+ 8)
Brussels	1300 (+ 1)	Los Angeles	0400 (- 8)	Stockholm	1300 (+ 1)
Buenos Aires	0900 (- 3)	Madrid	1300 (+ 1)	Sydney	2200 (+ 10)
Cairo	1400 (+ 2)	Mexico City	0600 (- 6)	Tokyo	2100 (+ 9)
Cape Town	1400 (+ 2)	Montreal	0700 (- 5)	Tripoli	1400 (+ 2)
Caracas	0800 (- 4)	Moscow	1500 (+ 3)	Vancouver	0400 (- 8)
Chicago	0600 (- 6)	Mumbai	1730 (+ 5½)	Vienna	1300 (+ 1)
Copenhagen	1300 (+ 1)	Muscat	1600 (+ 4)	Vladivostock	2200 (+ 10)
Dar-es-Salaam	1500 (+ 3)	Nairobi	1500 (+ 3)	Warsaw	1300 (+ 1)
Darwin	2130 (+ 9½)	New York	0700 (- 5)	Washington	0700 (- 5)
Delhi	1730 (+ 5½)	Oslo	1300 (+ 1)	Wellington	2400 (+ 12)

These times are based on + or - Greenwich Mean Time (GMT).

*Note :* This map is schematic and times are approximate only.



# METRIC INFORMATION

## Metric Units

### Area

100 sq millimetres	= 1 sq centimetre
100 sq centimetres	= 1 sq decimetre
100 sq decimetres	= 1 sq metre
100 sq metres	= 1 are
100 ares	= 1 hectare

### Book sizes

Crown Quarto	= 246 x 189 mm
Crown Octavo	= 186 x 123 mm
Demi Quarto	= 276 x 219 mm
Demi Octavo	= 216 x 138 mm
Royal Quarto	= 312 x 237 mm
Royal Octavo	= 234 x 156 mm
A4	= 297 x 210 mm
A5	= 210 x 148 mm

### Capacity

10 millilitres	= 1 centilitre
10 centilitres	= 1 decilitre
1 litre	= 1 cu decilitre
10 litres	= 1 decalitre
10 decalitres	= 1 hectolitre
10 hectolitres	= 1 kilolitre
1 kilolitres	= 1 cu metre

### Energy

1000 British	= 0.293 kWh
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### Petroleum

1 barrel	= 42 US gallons
	34.97 UK gallons
	0.159 cubic metre

### Precious metals

24 carat implies pure metal	
1 metric carat	= 200 milligrams
1 fine ounce	= 480 grains
1 troy ounce	= 31.1035 grams

### Temperature

#### Conversion

Celsius .....

Fahrenheit

### Length

1000 nanometres	= 1 micrometre
1000 micrometres	= 1 millimetre
10 millimetres	= 1 centimetre
10 centimetres	= 1 decimetre
1000 millimetres	= 1 metre
100 centimetres	= 1 metre
10 decimetres	= 1 metre
10 metres	= 1 decametre
10 decametres	= 1 hectometre

### Nautical

1852 metres	= 1 international nautical mile
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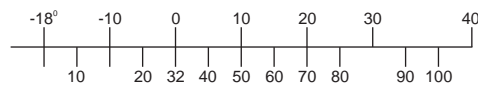
### Paper sizes

Large post	= 16½ x 21 in 419.1 x 533.4 mm
Demi	= 17½ x 22½ in 444.5 x 571.5 mm
Medium	= 18 x 23 in 457.2 x 584.2 mm
Royal	= 20 x 25 in 508 x 635 mm
Double Crown	= 20 x 30 in 508 x 762 mm

### 'A' Series (metric sizes)

A0	≈ 841 x 1189 mm 33½ x 46¾ in
A1	= 594 x 841 mm 23 x 46¾ in
A2	= 420 x 594 mm 16½ x 23 in
A3	= 297 x 420 mm ¼ 11¾ x 16½ in

$$C = 5/9 (F-32) \quad F = 9/5C + 32$$



### Volume

1000 cu millimetres	= 1 cu centimetre
1000 cu centimetres	= 1 cu decimetre
1000 cu decimetres	= 1 cu metre
1000 cu metres	= 1 cu decametre

### Weight (mass)

1000 milligrams	= 1 gram
10 grams	= 1 decagram
10 decagrams	= 1 hectogram
10 hectograms	= 1 kilogram

### Conversion Formulae

To Convert	Multiply by
Inches to Centimetres	2.54
Centimetres to Inches	0.393701
Feet to Metres	0.3048
Metres to Feet	3.2808
Yards to Metres	0.9144
Metres to Yards	1.09361
Miles to Kilometres	1.60934
Kilometres to Miles	0.621371
Sq Inches to Sq Cm	6.4516
Sq Cm to Sq Inches	0.155
Sq Metres to Sq Feet	10.7639
Sq Feet to Sq Metres	0.02903
Sq Yards to Sq Metres	0.836127
Sq Metres to Sq Yards	1.19599
Sq Miles to Sq Miles	0.386103
Acres to Hectares	0.404678
Hectares to Acres	2.47101
Cu Inches to Cu Cm	16.3871
Cu Cm to Cu Inches	0.0610237
Cu Feet to Cu Metres	0.0283168
Cu Metres to Cu Feet	35.3147
Cu Yards to Cu Metres	0.764555
Cu Metres to Cu Yards	1.30795
Cu Inches to Litres	0.016387
Litres to Cu Inches	61.024
Gallons to Litres	4.546
Litres to Gallons	0.22
Grains to Grams	0.0648
Grams to Grains	15.43
Ounces to Grams	28.3495
Grams to Ounces	0.035274
Pounds to Grams	453.592

## INTERNATIONAL CONVERSIONS

### Speed Conversions

Miles per hour to kilometres per hour  
multiply by 1.609344

Kilometres per hour to miles per hour  
multiply by 0.621271

### SPEED

mph	20	30	40	50	60	70	80	90	100
km/h	32	48	64	80	96	112	128	144	160

### WEIGHT

pounds	1	2	3	4	5	10	14	20
kilograms	0.454	0.907	1.361	1.814	2.268	4.536	6.350	9.072



## IMPORTANT PHONE NUMBERS

[illegible]

## IMPORTANT DAYS TO REMEMBER

[illegible]

[illegible]

[illegible]

This image shows a full page of a blank sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. In the top right corner, there is a small portion of text from another page visible, which reads "JNKVV, Jabalpur".

This image shows a blank sheet of white paper with horizontal blue ruling lines. The text "JNKVV, Jabalpur" is printed in the top right corner. The paper appears to be a standard sheet of lined paper, possibly from a notebook or a form.



