

# **Proposal for Ranking of Agricultural Universities for the year 2018**

*Submitted to*

**Deputy Director General (Agril. Edn.)  
Indian Council of Agricultural Research  
New Delhi**



*Submitted by*

**Dr. Panjabrao Deshmukh Krishi Vidyapeeth,  
Akola (M. S.) 444 104**

## **DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA**

### **Evaluation Proforma for Ranking of Agricultural Universities for the year 2018**

#### **Brief Profile of the University:**

1. Full Name and Address of the University : **Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Krishinagar, Akola – 444 104 (M.S.)**
2. Contact details of ICAR Nodal Officer : Name : **Dr. Shashank G. Bharad**  
E-mail: [nodalpdkv@gmail.com](mailto:nodalpdkv@gmail.com),  
sgbharad@gmail.com  
Mobile : 9657725711
3. Number of Students Passed out (2018) :  
UG : 476  
PG : 324  
Ph.D. : 24
4. Faculty Position as on 01.01.2018 :

	Sanctioned	In Position	% of Filled
Colleges	237	178	75.11
Research Centres	105	45	42.86
AICRP	67	45	67.16
KVKs	49	38	77.55
Total	458	306	Average : 66.81

#### **5. University budget of Financial Year 2018-19**

(Rs. in Lakh)		
i.	State Government	11371.00
ii.	Central Government	2864.48
iii.	Private Sector	4.40
	<b>Total</b>	<b>14239.88</b>



Fax : 0091-0724-2258219  
Gram : UNIVERSITY  
Phone : 2258372 (O)  
(PBX) : 2258200 - 217  
Extn. 1010

**DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH,**  
**KrishiNagar, Akola.- 444 104**  
**Dist. Akola (Maharashtra)**

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**DECLARATION**

It is certified that the information provided in the proforma is correct and the responsibility of accuracy and authenticity of the data lies with the university.

It is to declare that the entire filled-in proforma was uploaded on the website of the university and it is available at [www.pdkv.ac.in](http://www.pdkv.ac.in). It is further declared that the document shall be made available till next ranking.

Date: 06/06/2019



  
Registrar,  
Dr. PDKV, Akola

## Proforma

Parameters	Score	Score claimed	Score awarded
<b>(A).TEACHING OUTCOME (IMPACT/QUALITY WEIGHTAGE 40% OR 40 MARKS)</b>			
<b>A1. Number of students got ICAR-PG Scholarships (erstwhile JRF) during 2018/Number of UG students passed out (List to be enclosed as Annexure A1) (Maximum 1 mark)</b>	<b>08 students</b>		
If more than 5% of UG students got ICAR PG Scholarships (The students who cleared the exam but not awarded ICAR PG Scholarships not to be included.)	1 mark	--	
<b>A2. Number of students got admission in Master's program during 2018 through ICAR entrance examination/Number of UG students passed out (List to be enclosed as Annexure A2) (Maximum 1 mark)</b>	<b>17 students</b>		
If more than 10% of UG students got admission at Masters level through ICAR entrance examination	1 mark	--	
<b>A3. Students Performance at M.Sc. Level (List to be enclosed as Annexure A3) (Maximum 2 marks)</b>			
If more than 5% of students got ICAR-JRF/SRF (erstwhile SRF) or equivalent (The students who cleared the exam but not awarded ICAR-JRF/SRF not to be included.)	2 marks	--	
<b>A4. Students Performance at M.Sc. Level (List to be enclosed as Annexure A4) (Maximum 1 mark)</b>			
If more than 10% of students got admission in Ph.D. through ICAR entrance examination	1 mark	--	
<b>A5. ICAR Jawaharlal Nehru Award for Ph. D. thesis in 2018 (List to be enclosed as Annexure A5) (Maximum 2 marks)</b>			
If number is 1	1 mark		
If number is more than 1	2 marks		
<b>A6. Percentage of ARS selections in the disciplines offered by University against available seats advertised by ASRB during 2018 (List to be enclosed as Annexure A6) (Maximum 3 marks)</b>			
Up to 5 per cent	1 mark		
More than 5 per cent	3 marks		



<b>A7. Percentage of students qualified NET Exam in the disciplines of Agriculture and allied Sciences during 2018 (List to be enclosed as Annexure A7) (Maximum 3 marks)</b>	<b>58 students</b>		
Up to 5 per cent	1 mark		
More than 5 per cent ( <b>16.66 %</b> )	3 marks	03	
<b>A8. Percentage of faculty positions filled in teaching, research, extension, KVK, AICRP and at regional stations (with details of Positions filled and sanctioned cadre strength for each category ) (List to be enclosed as Annexure A8) (Maximum 4 marks)</b>			
60 to 70 % ( <b>66.81 %</b> )	1 mark	01	
70 to 80 %	2 marks		
If more than 80 %	4 marks		
<b>A9. Number of students admitted from overseas for Ph.D. during 2018 (List to be enclosed as Annexure A9) (Maximum 2 marks)</b>			
If number is up to 2	1 mark		
If it is more than 2	2 marks		
<b>A10. National and International awards (such as those conferred by the National Organizations like ICAR, CSIR, DBT, DST, Government of India, international Bodies of repute like FAO, UN, CG Centres and Recognized National Sciences /Engineering Academies) (earned by Faculty) in 2018 (List with only top 10 awards to be enclosed as Annexure A10) (Maximum 3 marks)</b>	<b>04 Award</b>		
If Number is 1	1 mark		
If Number is 2-4	2 marks	02	
If Number is more than 4	3 marks		
<b>A11. Best Institution/University Awarded by ICAR in 2018 in any field (Proof to be enclosed as Annexure A11) (Maximum 1 mark)</b>	1 mark	01	
<b>A12. Award in All India Youth Festival or All India Agri. University Sports Meet in 2018 (Proof to be enclosed as Annexure A12) (Maximum 1 mark)</b>	<b>02 Award</b>		
1st, 2nd or 3rd Position in 2018	1 mark	01	

<b>A13. Fellowship or Associateship of National Science Academies (NAAS, INSA, NAS, NAMS, INAE achieved during 2018) (List not more than five to be enclosed as Annexure A13) (Maximum 2 marks)</b>			
Upto 1	1 mark		
2 or more	2 marks		
<b>A14. Percentage of Faculty with Ph.D. degrees obtained from universities from outside of the state where employed (List along with proof to be enclosed as Annexure A14) (Maximum 2 marks)</b>			
If less than 15 % ( <b>9.80 %</b> )	No marks		
15 to 25 %	1 mark		
More than 25 %	2 marks		
<b>A15. Percentage of Faculty from the State other than the State in which university situated (List along with proof to be enclosed as Annexure A15) (Maximum 2 marks)</b>			
Less than 20 %	No marks		
20 – 30 %	1 mark		
More than 30 %	2 marks		
<b>A16. Percentage of Faculty with 3 months or more of Post doctoral/Visiting scientist experiences abroad in 2018 (Maximum 1 mark)</b>			
More than 3% of faculty strength	1 mark	--	
<b>A17. Average footfall in library (Maximum 2 marks)</b>			
Up to 15 % of students/faculty in position visiting library daily	1 mark		
More than 15 % of students/faculty in position visiting library daily ( <b>17.54 %</b> )	2 marks	02	
<b>A18. CERA utilization in 2018 (Maximum 2 marks)</b>			
*CERA Utilization (number of hits/total number of students and faculty) (to be awarded for top 10 universities) * <i>information will be collected from DKMA, ICAR</i>	2 marks	02	

<b>A19. Accreditation on 01.01.2018 (by ICAR) (copy of accreditation letter/certificate to be enclosed as Annexure A19). (Maximum 3 marks)</b>			
Accreditation granted for up to 2 years to the University	2 marks	02	
Accreditation granted for up to 5 years to the University	3 marks		
<b>A20. Implementation of recommendation of Fifth Deans, Committee/BSMA Committees. (copy of proceedings of Academic Council/ Board of Management, in which decision of implementation was taken, to be enclosed as Annexure A20) (Maximum 2 marks).</b>			
Fifth Deans Committee/BSMA Committees recommendations partially implemented (If not implemented in all the faculties / Colleges).	1 mark		
Fifth Deans Committee/BSMA Committees recommendations fully implemented.	2 marks	02	

<b>(B). RESEARCH (WEIGHTAGE 30 % OR 30 MARKS)</b>	<b>Score</b>	<b>Score claimed</b>	<b>Score awarded</b>
<b>B1. Research Product</b> – (No. of research articles including review articles per faculty member having NAAS rating of over 6.0 in 2018) (List of papers along with NAAS rating 2019 to be enclosed as Annexure B1). Listing of publications below NAAS rating of 6.0 should not be made. <b>(Maximum 9 marks)</b>			
Less than 0.5 papers per faculty member	No marks		
0.6 – 1.0 papers per faculty member	3 marks		
1.1 – 1.5 papers per faculty member	5 marks		
1.6 – 2.0 papers per faculty member	7 marks		
More than 2.0 papers per faculty member	9 marks		
<b>B2. Research Impact (Maximum 5 marks)</b>			
Percentage of faculty having h-index as 10 or more than 10 (to be obtained from Google Scholar )	<b>8 faculty</b>		
If 2 to 5 Percent ( <b>2.61 %</b> )	1 mark	01	
If 6 to 10 Percent	2 marks		
If 10 to 20 Percent	3 marks		
If more than 20 Percent	5 marks		
<b>B3. Research Excellence</b>			
<b>(i) Patents granted during 2018</b> (Only patents granted along with proof to be listed as Annexure B3 (i)) <b>(Maximum 6 marks)</b>			
Per patent granted	2 marks (limited to 6 marks)		
<b>(ii) Varieties released (Maximum 6 marks)</b> (Varieties released by the centre/State Government and notified in Gazette to be listed. (Copy of gazette notification to be enclosed as Annexure B3(ii)) or <b>breeds/technologies/vaccines developed/new strains of bacteria/virus/parasite identified (Maximum 6 marks)</b> (Appropriate proof for development and adoption of technology to be enclosed as Annexure B3(ii)) or <b>new farm machinery &amp; tools developed during the year 2018 (Maximum 6 marks)</b> (Appropriate proof for development and adoption of machinery & tools to be enclosed as Annexure B3(ii))	1 mark for each (limited to 6 marks)	06	

<b>(iii) Funds received through external competitive grants (excluding ICAR development and KVK and AICRP grants) (Total amount) (Maximum 3 marks)</b>			
2 -3 Crores	1 mark		
3 to 5 Crores	2 marks		
More than 5 Crores ( <b>7.77 Crores</b> )	3 marks	03	
<b>(iv) If PME Cell Established and Functional (Maximum 1 mark)</b>	1 mark	01	

<b>(C). EXTENSION AND OUTREACH (WEIGHTAGE 30% OR 30 MARKS)</b>	<b>Score</b>	<b>Score claimed</b>	<b>Score awarded</b>
<b>C1. KVK Awards during 2018 (Maximum 4 marks)</b> (Attach Proof as Annexure C1)		--	
Zonal Award (one mark for each award)	2 marks		
National Award (two marks for each award)	2 marks		
<b>C2. Extension workers Award at State/National Level (by Government Agency) during 2018.</b> (Proofs to be enclosed as Annexure C2) (Maximum 4 marks)		--	
<b>State level Awards</b>			
1-5 Awards	1 mark	01	
More than 5 awards	2 marks		
<b>National level awards</b>			
1-3 Awards	1 marks		
More than 3 awards	2 marks		
<b>C3. Quality input supplied by University (Seed, Semen, planting material etc.) during 2018 (Maximum 2 marks)</b>			
More than 50,000– 1,50,000 planting material	1 mark		
More than 1,50,000 planting material	2 marks	02	
Or			
Semen up to 10,000 doses	1 mark		
Semen 10001 to 50,000 doses	2 marks		
Or			
Breeder Seed (Cereals and Pulses) upto 200 quintals	1 mark		
More than 200 quintals	2 marks	02	
Or			
Fish Seed / fingerlings supplied			
10 Lakh to 1 Crore	1 mark		
More than 1 Crore	2 marks		
<b>C4. If one lakh soil samples are analyzed per year (Maximum 1 mark)</b>	1 mark	--	

<b>C5. Revenue generated through consultancies, certification, testing, tuition fee, licensing, training, sale of inputs and commercialization of technologies during FY 2018-19.</b> The details of revenue, head (item) wise, duly certified and signed by comptroller of the University need to be listed as Annexure C5. The list should exclude the items listed in B3(iii) (Maximum 10 marks)			
5-10 % of University Budget	1 mark		
10-20 % of University Budget ( <b>11.63%</b> )	4 marks	04	
20-30 % of University Budget	7 marks		
More than 30 % of University Budget	10 marks		
<b>C6. Number of inter-institutional collaborative projects obtained during 2018</b> (Proof to be enclosed as Annexure C6) (Maximum 2 marks)			
One project	1 mark		
Two or more	2 marks	02	
<b>C7. Partnership with Private Sector made during 2018</b> (Proof to be enclosed as Annexure C7) ( <b>Maximum 1 mark</b> )	1 mark	01	
<b>C8. Exchange of faculty (Sabbatical, Visiting Scientist, Adjunct Faculty) during 2018</b> (Proofs to be enclosed as Annexure C8)(Guest lectures not to be included) ( <b>Maximum 2 marks</b> )			
Faculty coming from outside University (Minimum 1)	1 mark	01	
Faculty of University going to other University (Minimum 1 faculty)	1 mark		
<b>C9. Number of Enterprises / start-ups promoted by the University (List is to be provided as Annexure C9) (Maximum 2 marks)</b>			
1 -2	1 mark		
More than 2	2 marks	02	
<b>C10. Percentage of Students employed in Public/Private/Banking Sectors (List is to be provided as Annexure C10) (Maximum 2 marks)</b>			
10 – 20 percent	1 mark		
More than 20 per cent ( <b>23.94 %</b> )	2 marks	02	
<b>Total</b>	<b>100 marks</b>		

# ANNEXURES



## ANNEXURE A1

### Number of students got ICAR-PG Scholarships (erstwhile JRF) during 2018/Number of UG students passed out

#### Template for the Parameter A1

Sl No.	Number of students got ICAR-PG Scholarships in 2018	Total number of UG students passed out in 2018	Percentage (%)
1.	08	476	1.68 %
List of the students got ICAR-PG Scholarships in 2018			
Sl No.	Name of the student		
1.	Dolma Deachen		
2.	Ramkishor Kurmi		
3.	Vikram Kumar Purbey		
4.	Manish Gaur		
5.	Tirupati Nath Pandey		
6.	Hement Meena		
7.	Jaybharat Doshi		
8.	Aayush Sharma		

## ANNEXURE A2

### Number of students got admission in Master's program during 2018 through ICAR entrance examination/Number of UG students passed out

#### Template for the Parameter A2

Sl No.	Number of students got admission in Masters program in 2018	Total number of UG students passed out in 2018	Percentage (%)
1.	20	476	4.20 %
<b>List of the students got admission in Masters program in 2018</b>			
Sl No.	Name of the student		
1.	Sakhi Vyas		
2.	Nagesh Bochewar		
3.	Naresh Kumar Rajveer Singh		
4.	Vukanti Yashvant Reddy		
5.	Shital Sunil Bachanwar		
6.	Pooja Jeevanrao Chirade		
7.	Shivani Dilip Khandar		
8.	Ritu Bharat Kukade		
9.	Ankita Ramesh Nimkande		
10.	Shital Nandkishor Hagwane		
11.	Rani Suresh Wagh		
12.	Sarvesh Gawde		
13.	Sushant Baswant		
14.	Anjana C.B.		
15.	Gayatri P.		
16.	Abhishek Pawar		
17.	Neha Agashe		
18.	Usendi Giridhar		
19.	Anju Sathyan		
20.	Mhaskey Akash		

### **ANNEXURE A3**

#### **Students Performance at M.Sc. Level**

##### **Template for the Parameter A3**

Sl No.	Number of students got ICAR-JRF/SRFs in 2018	Total number of Masters students passed out in 2018	Percentage (%)
<b>NIL</b>			
<b>List of the students got ICAR-JRF/SRF Scholarships in 2018</b>			
<b>Sl No. Name of the student</b>			
<b>NIL</b>			

## ANNEXURE A4

### Students Performance at Ph.D. Level

#### Template for the Parameter A4

Sl No.	Number of students got admission in Ph.D. in 2018 through ICAR entrance	Total number of Masters students passed out in 2018	Percentage (%)
NIL			
List of the students got admission in Ph.D. in 2018 through ICAR entrance exam			
Sl No	Name of Student		
NIL			

## ANNEXURE A6

### Percentage of ARS selections in the disciplines offered by University against available seats advertised by ASRB during 2018 Template for the Parameter A6

Sl No.	Number of students got ARS in the disciplines offered by the university in 2018	Total number of seats available in such disciplines advertised by ASRB	Percentage (%)
	NIL		
List of the students got ARS selections			
Sl No.	Name of the student	ARS Discipline	
NIL			

## ANNEXURE A7

### Percentage of students qualified NET Exam in the disciplines of Agriculture and allied Sciences during 2018

#### Template for the Parameter A7

Sl No.	Number of students qualified NET in the disciplines of agriculture and allied sciences	Total number of PG and PhD students	Percentage (%)
1.	58	348	16.66 %
<b>List of the students qualified NET</b>			
Sl No.	Name of the student	Discipline	
1	J.M. Parbat	Plant Pathology	
2	D.J. Baghele	Agril. Entomology	
3	R.M. Samrit	Agril. Entomology	
4	Hemant Pedu	Agril. Entomology	
5	R.S. Mali	Agril. Entomology	
6	D.G. Wasnik	Plant Pathology	
7	M.Y. Nandare	Plant Pathology	
8	M.M. Dali	Floriculture and Landscaping	
9	K.R. Palekar	Floriculture and Landscaping	
10	K.M. Kokate	Land & Water Management Engineering	
11	Amol Abhiman Shelke	Land & Water Management Engineering	
12	Mayur Prakash Adawadkar	Land & Water Management Engineering	
13	Arvind Nagnath Shinde	Land & Water Management Engineering	
14	H.N. Rokade	Agril. Process Engineering	
15	Prabhat Patle	SSAC	
16	P.H. Rathod	SSAC	
17	Vijat Jadhav	SSAC	
18	Arati Gabhane	SSAC	
19	Rahul Patil	SSAC	
20	Shubham Girdekar	SSAC	
21	Jaypal Yadav	SSAC	
22	Buddhbhushan Wankhade	SSAC	
23	Sagar Ingle	SSAC	
24	Sarika Patil	SSAC	
25	Pankaj Nagraj Madavi	Plant Pathology	
26	Ganesh Fakira Vyavhare	Plant Pathology	
27	Raju Shankarrao Ghawade	Plant Pathology	
28	Renuka Rajecndra Tatte	Plant Pathology	
29	Ranjit Shivaji Lad	Plant Pathology	
30	Yugendra Suresh Desai	Plant Pathology	
31	Someshree Sampatrao Mane	Plant Pathology	
32	K.P. Ingle	Agril. Biotechnology	
33	Dipti R. Dhumale	Agril. Biotechnology	
34	Neha C. Mhaske	Agril. Biotechnology	
35	Komal D. Thorat	Agril. Biotechnology	
36	Prashant R. Shingote	Life Science (CSIR-UGC-NET)	

37	Aditi Rajkumar Rajane	Genetics & Plant Breeding
38	Pallavi Ramdhan Sasane	Genetics & Plant Breeding
39	Nandan R. Tayade	Genetics & Plant Breeding
40	Sumit G. Gajbhe	Genetics & Plant Breeding
41	Chandrakant Raut	Genetics & Plant Breeding
42	Roshan Indore	Agronomy
43	Santosh Thomare	Agronomy
44	Akshay Bayaskar	Agronomy
45	Sumedh Hiwale	Agronomy
46	Pritam Chirde	Agronomy
47	Sushant Patil	Agronomy
48	Kolhe V.N.	Vegetable Science
49	Pawar A.P.	Vegetable Science
50	S.V. Bhaver	Vegetable Science
51	V.V. Mali	Vegetable Science
52	D.S. Ravankar	Vegetable Science
53	Pranali Thakare	Extension Education
54	Anjali Madhukar Wanare	Fruit Science
55	Trupti Ghanshyam Bhadke	Fruit Science
56	Jagdish Sukhdev Ingole	Agril. Entomology
57	Arya Krishna	Agril. Entomology
58	Kharvind Kiran Shivnandan	Agril. Entomology

## ANNEXURE A8

### Percentage of faculty positions filled in teaching, research, extension, KVK, AICRP and at regional stations

Template for the Parameter A8

Faculty Position as on 01.01.2018

	Sanctioned	In Position	% of Filled
Colleges	237	178	75.11
Research Centres	105	45	42.86
AICRP	67	45	67.16
KVKs	49	38	77.55
Total	<b>458</b>	<b>306</b>	<b>Average : 66.81</b>



## ANNEXURE A10

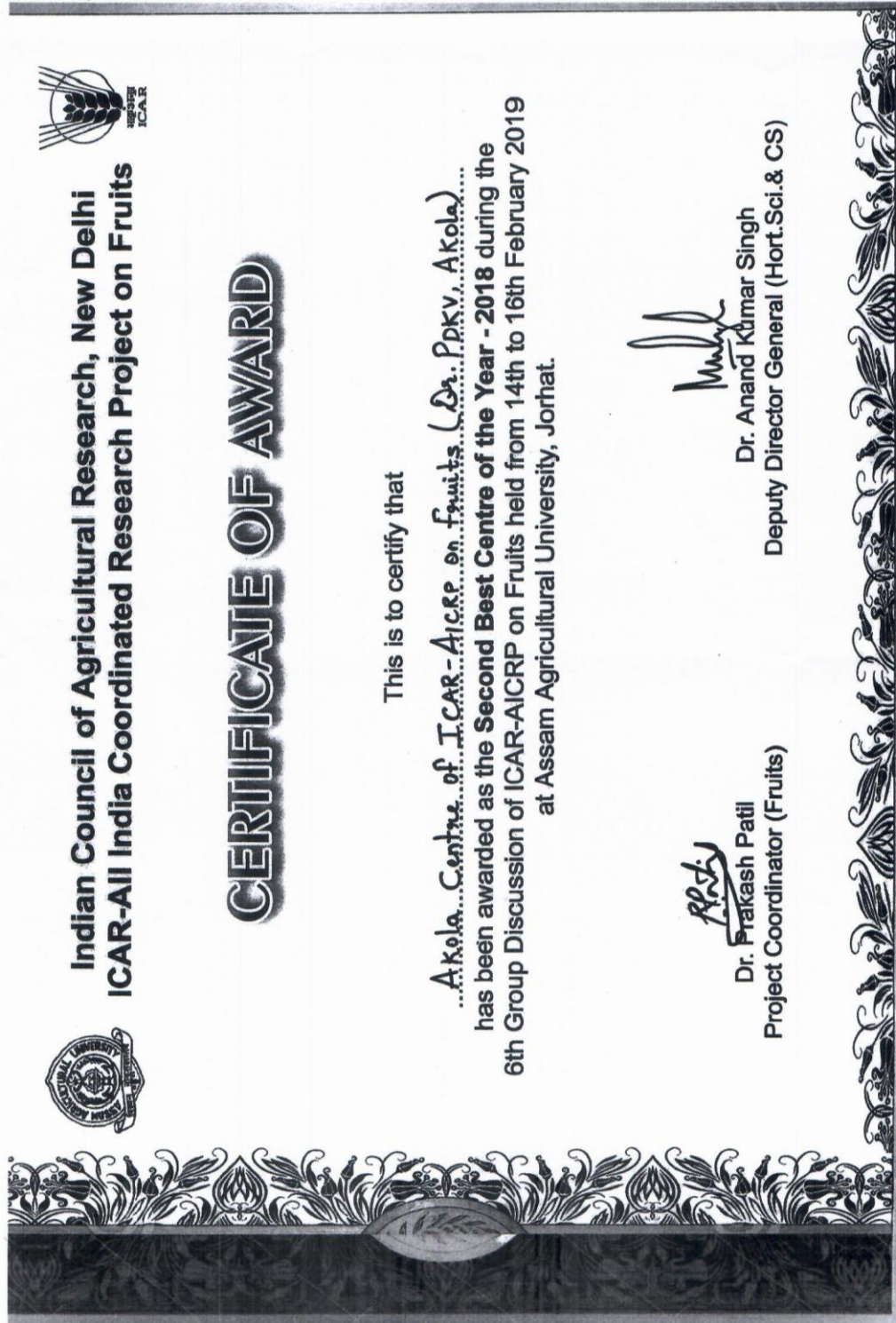
### National and International awards in 2018

#### Template for parameter 10

Sl No.	Number of National and International Awards		
1.	04		
List of the National and International Awards			
Sr. No.	Name of Faculty member	Name of the Award	Organization
1.	Dr. V. K. Kharche	National Award for outstanding contribution in Agriculture.	Rashtriya Chemicals & Fertilizers, Mumbai
2.	Dr. A. K. Kamble	Best Doctoral Thesis Award (2018)	Geneiss Urban & Rural Development Soc., Hyderabad (UN-FAO-GSP-Partner)
3.	Dr. R. B. Ghorade	Development of promising lines of Sorghum	AICRP on Sorghum, Hyderabad
4.	Dr. S.R. Kalbande	3 <sup>rd</sup> Prize Winner – Innovation in Agriculture	Maharashtra State Innovation Society, Govt. of Maharashtra

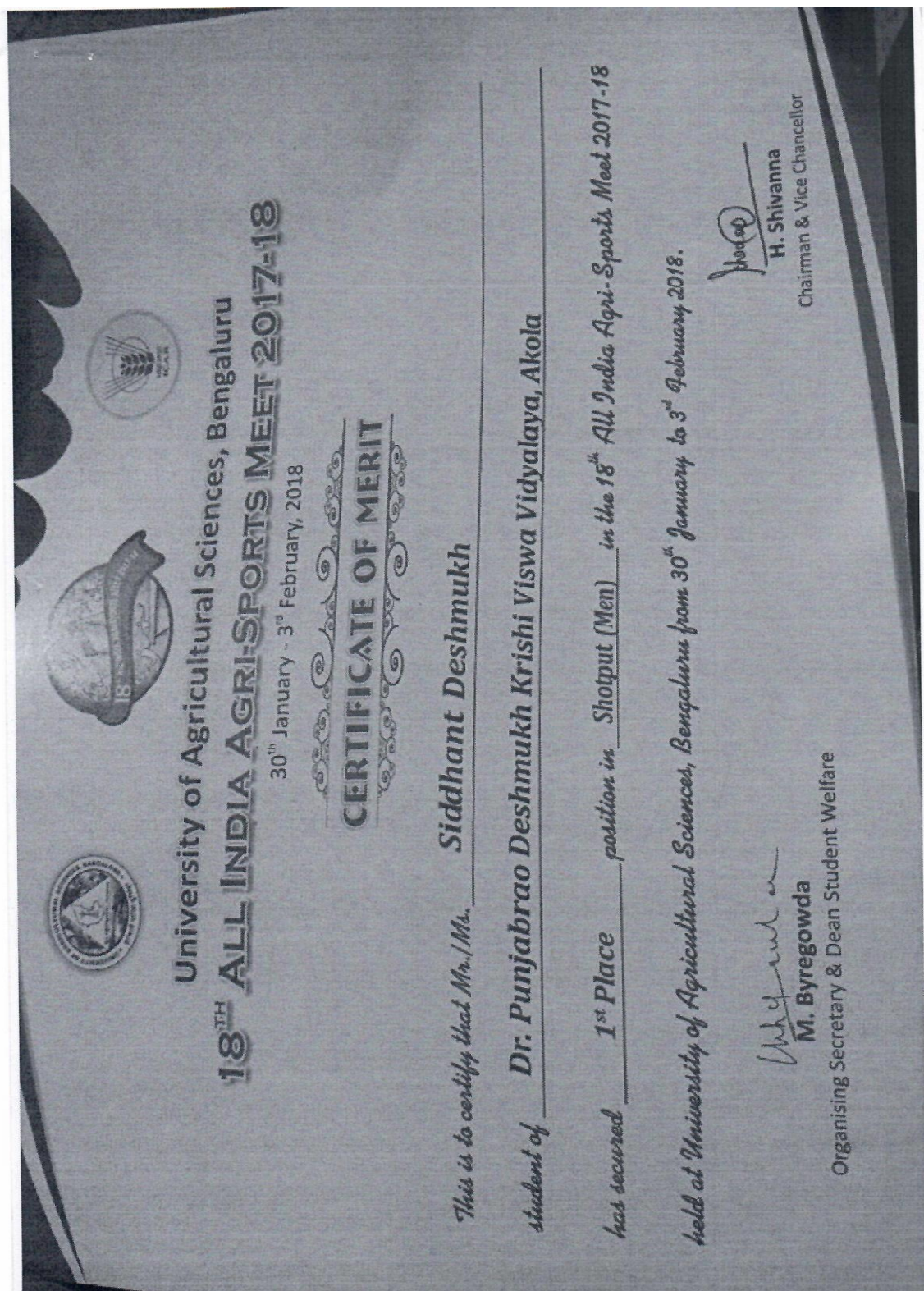
ANNEXURE A11

Best Institution/University awarded by ICAR



ANNEXURE A12

Award in All India Youth Festival or All India Agril. University Soprt Meet 2018





# Agri Unifest 2018-19

## 19<sup>th</sup> All India Inter Agricultural Universities Youth Festival

Jointly Organized by

Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar,

Government of Gujarat

and



Indian Council of Agricultural Research, New Delhi



Government of Gujarat



### CERTIFICATE OF MERIT

This is to certify that

Mr. ANIL KAKADE

representing

PDKV, AKOLA, M.H.

was adjudged Third in Rangoli event of the

19<sup>th</sup> All India Inter Agricultural Universities Youth Festival

organized during February 3-7, 2019 at

Sardarkrushinagar Dantiwada Agricultural University,

Sardarkrushinagar, Gujarat

Dr. V. R. Patel

Organizing Secretary &

Director of Students' Welfare

SDAU, Sardarkrushinagar, Gujarat



19<sup>th</sup> All India Inter Agricultural Universities  
Youth Festival

Prof. (Dr.) Ashok A. Patel

Vice Chancellor

SDAU, Sardarkrushinagar,

Gujarat

## ANNEXURE A14

### Percentage of Faculty with Ph.D. degrees obtained from universities from outside of the state where employed

#### Template for the Parameter A14

Sl No.	Number of faculty with Ph.D. degrees obtained from universities from outside of the state where employed	Total number of faculty	Percentage (%)
1.	30	306	9.80 %
List of the faculty members			
Sl No.	Name of the faculty member		
1.	Dr. V.S. Khawale		
2.	Dr. Shanti N K Nagrajan		
3.	Dr. P.V. Shende		
4.	Dr. R.P. Gajbhiye		
5.	Dr. S.S. Moon		
6.	Dr. S.S. Mane		
7.	Dr. S.P. Divekar		
8.	Dr. M.B. Nagdeve		
9.	Dr. G.U. Satpute		
10.	Dr. K.D. Gharde		
11.	Dr. Yatnesh Bisen		
12.	Dr. S.H. Thakre		
13.	Dr. S.K. Thakre		
14.	Dr. V.B. Shinde		
15.	Dr. P.A. Borkar		
16.	Dr. I.L. Pardeshi		
17.	Dr. Ashwini Charpe		
18.	Dr. S.B. Wadatkar		
19.	Dr. M.M. Deshmukh		
20.	Dr. A.N. Mankar		
21.	Dr. S.D. Jadhav		
22.	Dr. Y.B. Taide		
23.	Dr. S.S. Harne		
24.	Dr. N.K. Kapse		
25.	Dr. A.U. Nimkar		
26.	Dr. D.R. Rathod		
27.	Dr. P.V. Jadhav		
28.	Dr. D.M. Mankar		
29.	Dr. U.R. Chinchmalatpure		
30.	Dr. P.S. Joshi		

## ANNEXURE A15

### Percentage of Faculty from the State other than the State in which university situated

#### Template for the Parameter A15

Sl No.	Number of faculty from the States other than the State in which university is located	Total number of faculty	Percentage (%)
1.	01	306	0.30 %
List of the faculty members			
Sl No.	Name of the faculty member		
1.	Dr. Yatnesh Bisen		

## ANNEXURE A16

### Percentage of Faculty with 3 months or more of Post-doctoral/Visiting scientist experiences abroad in 2018


#### Template for the Parameter A16

Sl No.	Number of faculty with 3 months or more of Postdoctoral/Visiting scientist experiences abroad in 2018	Total number of faculty	Percentage (%)
NIL			
List of the faculty members			
Sl No.	Name of the faculty member		
NIL			

## ANNEXURE A19

Accreditation as on 01.01.2018

ANNEXURE- A-19



**INDIAN COUNCIL OF AGRICULTURAL RESEARCH**  
NEW DELHI

**NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD**

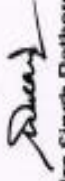
**CERTIFICATE OF ACCREDITATION**


On the recommendations of the ICAR Peer Review Team, the National Agricultural Education Accreditation Board, ICAR, New Delhi hereby grants accreditation to the **Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola (Maharashtra)** and its following constituent colleges upto March 31, 2018.

- College of Post Graduate Studies, Akola
- College of Agriculture, Nagpur

The accredited academic programmes are listed overleaf.

March, 2017  
New Delhi

  
(Narendra Singh Rathore)  
Deputy Director General (Agril. Edn.), ICAR  
and Vice-Chairman, NAEAB

  
(Trilochan Mohapatra)  
Secretary, DARE & Director General, ICAR  
and Chairman, NAEAB

**REGISTRAR**  
Dr. PDKV, Akola



## ANNEXURE A 20

### Implementation of recommendation of Fifth Dean Committee/BSMA Committees

#### Implementation of Recommendation of Fifth Deans Committee

This is to certify that the Recommendation of Fifth Deans Committee of ICAR, New Delhi has been fully implemented in Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola from the academic year of 2017-18. The copy of the proceedings of the decision taken in this regard by the Maharashtra Council of Agriculture Education and Research, Pune for implementing V Deans Committee recommendations for all the four SAU's of Maharashtra including Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola on dated 11 September, 2017 is enclosed herewith for kind perusal.

  
**REGISTRAR**  
Dr. PDKV, Akola (Mah.)



## महाराष्ट्र कृषी शिक्षण व संशोधन परिषद,

आयएसओ १००१ : २००८ मान्यंकित संस्था

१३२/ब, भांडुर्डा, भोसलेनगर, पुणे - ४११ ००७.



ई-मेल : mcaer@rediffmail.com

दूरध्वनी (१५२०) २५५३ ७२५७.

महाराष्ट्र कृषी शिक्षण व संशोधन परिषदेच्या दिनांक ११ सप्टेंबर, २०१७ रोजी

महाराष्ट्र कृषी शिक्षण व संशोधन परिषद, सभागृह पुणे, येथे

मा. मंत्री (कृषी) तथा अध्यक्ष, कृषी परिषद यांच्या अध्यक्षतेखाली

झालेल्या १४ व्या बैठकीचे इतिवृत्त.

\* \* \* \* \*

महाराष्ट्र कृषी शिक्षण व संशोधन परिषदेची १४ वी बैठक मा. मंत्री (कृषी) तथा अध्यक्ष, कृषी परिषद श्री. पांडुरंगरावजी फुडकर साहेब यांच्या अध्यक्षतेखाली दि. ११ सप्टेंबर, २०१७ रोजी महाराष्ट्र कृषी शिक्षण व संशोधन परिषद, सभागृह पुणे येथे दुपारी १२.०० वाजता आयोजित करण्यात आली होती.

बैठकीच्या सुरुवातीस मा. उपाध्यक्ष यांनी मा. मंत्री (कृषी) तथा अध्यक्ष, कृषी परिषद यांचे स्वागत केले. यानंतर कृषी परिषदेचे महासंचालक डॉ. के.एम. नागरगोंगे, भाद्रसे यांनी डॉ. राम खचे, मा. उपाध्यक्ष, श्री. विजयकुमार, मा. प्रधान सचिव (कृषी) डॉ. मुधाजीराय मुळीक, मा. राज्यपाल नियुक्त सदस्य व सर्व कृषी परिषद सदस्यांचे, डॉ. बन्दी व्यंकटेश्वरलू, कुलगुरु, डॉ. पंजाबराव देसमुख कृषी विद्यापीठ, अकोला व कुलगुरु, वसंतराव नाईक मराठवाडा कृषी विद्यापीठ, परभणी; डॉ. तपस भट्टाचार्य कुलगुरु, डॉ. बाळासाहेब सावंत कोंकण कृषी विद्यापीठ, दापोली, जि. रत्नागिरी आणि डॉ. के. पी. बिखनाथ, कुलगुरु, महाराष्ट्र फुले कृषी विद्यापीठ, राहुरी, आणि श्री. एस.पी.सिंग, आयुक्त (कृषी) यांचेसह स्वागत केले. डॉ. हरिहर कौसडोंकर संचालक (विस्तार शिक्षण व साधनसामग्री विकास) यांनी बैठकीचे सुरुसंचालन केले.

सदर बैठकीसाठी उपस्थित असलेल्या सदस्यांची व निधीविभागांची यादी परिशिष्ट-१'अ' सोबत जोडली आहे. यानंतर विषय सूचीनुसार बैठकीस सुरुवात झाली.

Sr.	Post Graduate Degree	Sr.	Post Graduate Degree
1	M.Sc.(Agri.)	2	M.Sc.(Hort.)
3	M.Tech. (Agri. Engg.)	4	M.Sc.(Forestry)
5	M.Tech.(Food Tech.)	6	M.B.A.(Agri.)
7	M.F.Sc.(Fisheries Science)	8	M.Sc. (Post Harvest Management)
9	M.Sc.(Agri.Biotechnology)	10	M.Sc. (Home Science / Community Science)

Sr.	Ph.D. Degree
1	Ph.D. (Agriculture)
2	Ph.D. (Home Science / Community Science)
3	Ph.D. (Fisheries)
4	Ph.D. (Food Tech.)
5	Ph.D. (Agri. Bio-tech.)
6	Ph.D. (Agri. Engg.)

विषय क्र.१७: पाचव्या अधिष्ठाता समितीच्या शिफारसीनुसार शैक्षणिक वर्ष २०१७-१८ पासून कृषी विद्यापीठांतर्गत विविध पदवी अभ्यासक्रम राबविण्याबाबत.

भारतीय कृषी अनुसंधान परिषदेने स्थापित केलेल्या पाचव्या अधिष्ठाता समितीच्या शिफारसीनुसार कृषी, उद्यानविद्या, मत्स्य, वन, कृषी अभियांत्रिकी, अन्नतंत्र, जैवतंत्र, सामाजिक विज्ञान इत्यादी पदवी अभ्यासक्रमांचे पाठ्यक्रम सादर करण्यात आलेले असून संचालक (शिक्षण) समन्वय समितीने कृषी व्यवसाय व्यवस्थापन व पशुसंवर्धन या अभ्यासक्रमांचे पाठ्यक्रम शिफारसीत केलेले आहेत. सदरचे पाठ्यक्रम सन २०१७-१८ या शैक्षणिक वर्षापासून लागू करण्यासाठीचा प्रस्ताव असल्याची माहिती संचालक (शिक्षण), कृषी परिषद यांनी दिली. संचालक (शिक्षण) समन्वय समितीने दि. १/१/२०१७ रोजीच्या बैठकीमध्ये सदर अभ्यासक्रमांची परीक्षा व मूल्यांकन पध्ती प्रस्तावित केलेली असून याबाबत सदर समन्वय, संचालक (शिक्षण) समन्वय समिती यांनी सविस्तर माहिती सादर केली. याबाबत विचारविनिमय होऊन खालील ठराव पारित करण्यात आला.

१०/१२

उत्तराव क्र. १४/१४/२०१७

१. ०. १४. १५. १६. १७. १८. १९. २०. २१. २२. २३. २४. २५. २६. २७. २८. २९. ३०. ३१. ३२. ३३. ३४. ३५. ३६. ३७. ३८. ३९. ४०. ४१. ४२. ४३. ४४. ४५. ४६. ४७. ४८. ४९. ५०. ५१. ५२. ५३. ५४. ५५. ५६. ५७. ५८. ५९. ६०. ६१. ६२. ६३. ६४. ६५. ६६. ६७. ६८. ६९. ७०. ७१. ७२. ७३. ७४. ७५. ७६. ७७. ७८. ७९. ८०. ८१. ८२. ८३. ८४. ८५. ८६. ८७. ८८. ८९. ९०. ९१. ९२. ९३. ९४. ९५. ९६. ९७. ९८. ९९. १००.

"भारतीय कृषी अनुसंधान परिषदेने स्थापित केलेल्या पाचव्या अधिवृत्ता समितीच्या शिफारसीनुसार कृषी, उद्यानविज्ञान, मत्स्य, वन, कृषी अभियांत्रिकी, अन्नतंत्र, जैवतंत्र, सामाजिक विज्ञान ह्या पदवी अभ्यासक्रमाचे पाठ्यक्रम तसेच संचालक (शिक्षण) समन्वय समितीने शिफारसीनुसार कृषी व्यवसाय व्यवस्थापन व पशुसंवर्धन या अभ्यासक्रमाचे पाठ्यक्रम व सदर अभ्यासक्रमान्तर्गत परीक्षा व मूल्यापेक्षा पद्धती सन २०१७-१८ या शैक्षणिक वर्षापासून लागू होण्याबाबत निर्धारित करण्यास कृषी परिषद मान्यता प्रदान करते.

1. System of Evaluation

Percentage Marks	Conversion into points
100	10 Points
90 - 99.99	9.0 - 9.999
80 - 89.99	8.0 - 8.999
70 - 79.99	7.0 - 7.999
60 - 69.99	6.0 - 6.999
50 - 59.99	5.0 - 5.999
49.99 & Below (Fail)	4.999 and Below (Fail)

2. Minimum Marks for passing the subject will be 50% (minimum 40% each in Practical and Theory exam for separate passing)

3. Division of Results

OGPA	Class
4.999 and Below	Fail
5.000 - 5.999	Pass Class
6.000 - 6.999	II Division
7.000 - 7.999	I Division
8.000 and above	I with Distinction

4. Other provisions: 10 marks of Practical records are split into 2 parts as 5 marks for practical records and 5 marks for assignments. Existing passing criteria has been reduced from 55% to 50%. There is no provision of grace marks as per V<sup>th</sup> Deans Committee of ICAR. Therefore, provision of Grace Marks is removed for the students admitted from academic year 2017-18 onwards.

Remaining system of examination and mark allotment for theory and practical will remain unchanged."

यासंबंधी सर्व विद्यार्थी, महाविद्यालये यांना तातडीने सर्वोप्या माहितीसाठी कळविण्यात यावे, असे कृषि परिषद ठरविते.

१८/१२

## ANNEXURE B1

### Research Products

#### Template for the Parameter B1

Sl No.	Total number of research articles having NAAS rating of over 6.0 published in 2018	Total number of faculty	Number of research papers per faculty
1.	07	306	
<b>List of the research articles*</b>			
Sl No.	Details of publication	NAAS Rating	
1.	V.G. Atkare (2018) : Effect of feeding feed sorghum fodder on milk yield and composition of cross breed cows, Indian. J. Animal Res., 52 (6): 929-933	6.20	
2.	Shelke, R.R., S.D. Chavhan and P.A. Kahate (2018): Effect of feeding of urea ammoniated soybean straw on dry matter intake, yield and quality of cowmilk. Indian J. Animal Sci., 88 (6): 727-730	6.19	
3.	Mrunalini Badnakhe, S.S. Burbha, A. Jagarlapudi and R.M. Gade (2018) Evaluation of citrus gummosis disease dynamics and prediction it weather an inversion based leaf optical model. Computer & Electronics in Agriculture. 155: 130 -141.	8.43	
4.	Rai, M., A.P. Ingle, M. Anasane and R.M. Gade (2018). Effective management of soft rot of ginger caused by Pythium spp. Fusarium spp. Immerging role of nanotechnology. Applied Microbiology and Biotechnology. 102 (16) : 6827-6839	9.34	
5.	Srinivasa Pediniti and R.M. Gade (2018). Modeling soil water disease interaction of flood irrigated mandarin. Vadose Zone Journal. 17 (1): 1 – 13.	8.71	
6.	A. O. Shirale, V. K. Kharche, G. S. Rohi and B. P. Meena 2018. Ameliorative impact of different organic amendments on sodicity and nutrient dynamics in sodic black calcareous soils of central India. Agrochimica. Vol. LXII-N-3.	6.69	
7.	A. O. Shirale V. K. Kharche R. R. Wakode B. P. Meena H. Das and R. P. Gore.2018. Influence of Gypsum and Organic Amendments on soil properties and crop productivity in degraded black soils of central India. Communications in Soil science and Plant analysis. 49 (19).	6.54	



## ANNEXURE B2

### Research Impact

#### Template for the Parameter B2

Sl No.	Number of faculty members having h-index as 10 or more	Total number of faculty	Percentage of faculty with h-index as 10
1.	08	306	2.61 %
List of faculty members having h-index as 10 or more			
Sl No.	Name of the faculty	h-index	
1.	Dr. V.K. Kharche	10	
2.	Dr. S.G. Bharad	10	
3.	Dr. R.D. Deotale	12	
4.	Dr. Shanti Patil	10	
5.	Dr. Ashwini Charpe	10	
6.	Dr. V.J. Tambe	12	
7.	Dr. Manish R. Deshmukh	10	
8.	Dr. Sanjay S. Wanjari	10	

## ANNEXURE B 3 (ii)

### Varieties released

#### (ii) Varieties released

(Maximum 6 marks) (Varieties released by the Centre/State Government and notified in Gazette to be listed) (Copy of gazette notification to be enclosed as Annexure B3 (ii)) :

1. Paddy : SYE-503-78-34-2 (PDKV -Tilak)
2. Soybean : AMS-1001(PDKV- Yellow Gold)
3. Gladiolus: AKGL-04-16 (PDKV - GOLD)
4. Paddy: SKL-22-39-31-25-31-34 (PDKV- Kisan) notified in Gazette

#### Undertaking

It is to certify that three varieties of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola were released in State level Joint Agrosco -2018 at BSKKV, Dapoli during 24<sup>th</sup> to 26<sup>th</sup> May 2018. One variety (PDKV- Kisan) was notified in Gazette released by Central/State Government during 2018.



Director of Research  
Dr. PDKV., Akola



# भारत का राजपत्र The Gazette of India

असाधारण  
EXTRAORDINARY  
भाग II—खण्ड 3—उप-खण्ड (ii)  
PART II—Section 3—Sub-section (ii)  
प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं. 1246] नई दिल्ली, मंगलवार, मार्च 27, 2018/चैत्र 6, 1940  
No. 1246] NEW DELHI, TUESDAY, MARCH 27, 2018/CHAITRA 6, 1940

कृषि एवं किसान कल्याण मंत्रालय  
(कृषि, सहकारिता एवं किसान कल्याण विभाग)

अधिसूचना

नई दिल्ली, 27 मार्च, 2018

**का.आ. 1379(अ).**—केन्द्रीय सरकार, बीज अधिनियम, 1966 (1966 का 54) की धारा 5 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, केन्द्रीय बीज समिति से परामर्श के पश्चात्, यह राय होने पर कि नीचे की सारणी के स्तंभ (3) में विनिर्दिष्ट किस्मों के बीजों के प्रकारों की क्वालिटी, जो उक्त सारणी के स्तंभ (2) में तत्स्थानी प्रविष्टियों में विनिर्दिष्ट प्रकार के हैं, का विनियमन करना आवश्यक और समीचीन है, यह घोषणा करती है कि बीजों की उक्त किस्में उक्त सारणी के स्तंभ (4) में उल्लिखित राज्यों के लिए कृषि प्रयोजन हेतु विक्रय किए जाने के लिए अधिसूचित किस्में होंगी और राजपत्र में इस अधिसूचना के प्रकाशन की तारीख से उक्त अधिनियम के प्रयोजनों के लिए संपूर्ण भारत के लिए अधिसूचित किस्में होंगी, अर्थात्:-

सारणी

क्रम सं.	प्रकार	किस्म	राज्य
(1)	(2)	(3)	(4)
1.	चावल	दश (केएमपी-175)	कर्नाटक
2.	चावल	जेआर-81	मध्य प्रदेश
3.	चावल	उन्नत किशोर	मध्य प्रदेश
4.	चावल	उन्नत श्रीर शंकर	मध्य प्रदेश
5.	चावल	महीसागर (आई ई टी 22100)	गुजरात
6.	चावल	सीएन 1272-55-105 (आई ई टी-19886)	सिंचित परिस्थितियों के तहत पश्चिम बंगाल, बिहार, ओडिशा, महाराष्ट्र, आंध्र प्रदेश और कर्नाटक



**MINISTRY OF AGRICULTURE AND FARMERS WELFARE****(Department of Agriculture, Cooperation and Farmers Welfare)****NOTIFICATION**

New Delhi, the 27th March, 2018

**S.O. 1379(E).**— In exercise of the powers conferred by section 5 of the Seeds Act, 1966 (54 of 1966), the Central Government, after consultation with the Central Seed Committee, is of the opinion that it is necessary and expedient to regulate the quality of the seeds of the varieties specified in column (3) of the Table below of the kinds specified in the corresponding entries in column (2) of the said Table, hereby declares that the said varieties of seeds shall be the notified varieties to be sold for purpose of agriculture for the States mentioned in column (4) of the said Table and shall be the notified varieties for the whole of India for the purposes of the said Act, with effect from the date of publication of this notification in the Official Gazette, namely: -

**TABLE**

Serial Number	Kind	Variety	States
(1)	(2)	(3)	(4)
1.	Rice	Daksha (KMP-175)	Karnataka.
2.	Rice	JR-81	Madhya Pradesh.
3.	Rice	Improved Chinnor	Madhya Pradesh.
4.	Rice	Improved Jeera Shankar	Madhya Pradesh.
5.	Rice	Mahisagar (IET 22100)	Gujarat.
6.	Rice	CN 1272-55-105 (IET-19886)	West Bengal, Bihar, Orissa, Maharashtra, Andhra Pradesh and Karnataka under irrigated conditions.
7.	Rice	CO52	Tamil Nadu.
8.	Rice	JRB 1 (IET 23422)	Madhya Pradesh.
9.	Rice	GNRH-1 (NVSR-H-1003)	Gujarat.
10.	Rice.	GNR-5 (NVSR-6137)	Gujarat.
11.	Rice	CO 43 Sub-1 (IET 25676)	Tamil Nadu, Andhra Pradesh, Odisha, Karnataka.
12.	Rice Hybrid	27P37 PR 14101 (IET 24844)	Chhattisgarh, Madhya Pradesh and Maharashtra.
13.	Rice Hybrid	28S41 PR 14109 (IET 24891)	Uttar Pradesh, Odisha, West Bengal, Jharkhand, Maharashtra, Madhya Pradesh, Chhattisgarh, Telangana, Andhra Pradesh, Karnataka and Tamil Nadu.
14.	Rice Hybrid	28P67 PR 14105 (IET 24879)	Uttar Pradesh, Bihar, Jharkhand, Odisha, West Bengal, Chhattisgarh and Maharashtra.
15.	Rice	DRR Dhan 47 (IET 23356)	Telangana, Andhra Pradesh, Karnataka, Kerala and Pudducherry.
16.	Rice	DRR Dhan 48 (IET 24555)	Andhra Pradesh, Telangana, Tamil Nadu, Karnataka and Kerala.
17.	Rice	DRR Dhan 49 (IET 24557)	Gujarat, Maharashtra and Kerala.

18.	Rice	DRR Dhan 50 (IET 25671)	Andhra Pradesh, Telangana, Tamilnadu, Karnataka, Bihar, Odisha, Chhattisgarh, Uttar Pradesh and Madhya Pradesh.
19.	Rice	DRR Dhan 51 (IET 25484)	Uttar Pradesh, Gujarat, Telangana and Chhattisgarh.
20.	Rice	CAU-RI (IET 23544)	Manipur and Meghalaya.
21.	Rice	Him Palam Lal Dhan-1 (HPR 2795)	Himachal Pradesh, Meghalaya and Manipur.
22.	Rice	Punjab Basmati-4 (RYT 3404) (IET-25399)	Punjab.
23.	Rice	Punjab Basmati-5 (RYT 3432) (IET-26153)	Punjab.
24.	Rice	PR-126 (RYT 3379) (IET-24721)	Punjab.
25.	Rice	MDU.6 (IET-23994)	Tamil Nadu.
26.	Rice	PDKV Kisan (SKL-22-39-31-25-31-34)	Eastern Vidarbha Zone of Maharashtra.
27.	Rice	Ranjit SUB-1	Assam.
28.	Rice	Bahadur SUB-1	Assam.
29.	Rice	CNRH 102 (IET 22913)	West Bengal.
30.	Wheat	KRL 283	Uttar Pradesh.
31.	Wheat	MACS 4028 (d)	Maharashtra and Karnataka.
32.	Wheat	Chhattisgarh Genhu-3 (CG 1013)	Chhattisgarh.
33.	Wheat	HUW 669 (Malviya 669)	Uttar Pradesh.
34.	Bread Wheat	UAS-334	Karnataka.
35.	Bread Wheat	DBW 168	Maharashtra and Karnataka.
36.	Bread Wheat	DBW 173	Punjab, Haryana, Delhi, Rajasthan (excluding Kota and Udaipur division), Western Uttar Pradesh (except Jhansi division), Jammu and Kathua district of Jammu and Kashmir, Paonta Valley and Una district of Himachal Pradesh and Tarai region of Uttarakhand.
37.	Bread Wheat	UAS 375	Maharashtra and Karnataka.
38.	Bread Wheat	Pusa Wheat 1612 (HI 1612)	Eastern Uttar Pradesh, Bihar, Jharkhand, West Bengal (excluding hills), Odisha, Assam and plains of other North Eastern States.
39.	Durum Wheat	Pusa Wheat 8777 (HI 8777)	Maharashtra and Karnataka.
40.	Barley	Central Barley DWRB 137	Madhya Pradesh, Gujarat, Kota and Udaipur division of Rajasthan, Uttar Pradesh, Bihar and Jharkhand, West Bengal (excluding hills), Odisha, Assam and plains of North eastern states.
41.	Barley	K-1055 (Prakhar)	Uttar Pradesh.
42.	Maize	Gujarat Anand White Maize Hybrid-2 (GAWMH-2)	Gujarat.
43.	Maize	Shaktiman-5 (MHQPM 09-08)	Uttar Pradesh, Bihar, Jharkhand, West Bengal, Orissa and Chhattisgarh in both Kharif and Rabi seasons.
44.	Maize	CP. 999	Karnataka, Tamilnadu, Telangana and Maharashtra.
45.	Maize	CP. 838	Punjab, Haryana, UP, Plain areas of Uttarakhand, Bihar, Jharkhand, West Bengal, Odisha, Karnataka, Tamil Nadu, Telangana, Andhra Pradesh, Maharashtra, Rajasthan and Gujarat.
46.	Maize Hybrid	MM 9344 (DMH 192)	Karnataka, Maharashtra, Andhra



**(ii) Breeds/Technologies/Vaccines developed/new strains of bacteria/virus/parasite identified**

(Maximum 8 marks) (Appropriate proof for development and adoption of technology to be enclosed as Annexure B3(iii))

- 1) For getting higher seed yield and economic returns in soybean, foliar application of 2 % 19:19:19 (NPK water soluble fertilizer) at pod initiation stage is recommended.
- 2) It is recommended that, Sowing of Kharif sorghum on four row 1.5 m. BBF at 45 cm by tractor is recommended for getting maximum yield, net returns and improved moisture conservation.
- 3) For obtaining higher grain yield and net monetary returns from drill rice in Eastern Vidarbha Zone of Maharashtra, sowing of drill rice at row spacing of 20 cm and plant to plant distance at 10 – 15 cm is recommended.
- 4) Under rainfed condition, to reduce the subsoil compaction due to use of rotavator, and to improve the moisture retention and other soil physical properties and also for obtaining higher crop yield, it is recommended to use deep ploughing once in three years and use rotavator every years.
- 5) It is recommended that the post emergence application of Imazethapyr + Imazomox 70 WG 0.070 kg a l /ha (100 g/ha) POE 20 DAS was the most remunerative and effective herbicide for controlling the weed flora and getting higher yield and economic returns in groundnut.
- 6) The integrated application of 2.5 tones of Farm Yard Manure + 1.25 tones of Gypsum 15-20 DAS in Tied Broad Bed Furrow is recommended for improvement in soil properties, yield and monetary returns of soybean in deep black sodic soils of Purna valley of Vidarbha.
- 7) In deep black soils of Vidharbha, for obtaining higher grain, protein yield and monetary returns of Pigeon pea as well as improving fertility status of soil, application of 30 kg K<sub>2</sub>O + 20 kg S ha<sup>-1</sup> In sulphur deficit soil along with recommended dose of 25 kg N and 50 kg P<sub>2</sub>O<sub>5</sub> ha<sup>-1</sup> is recommended.
- 8) It is recommended to apply 187.5:112.5:150 kg NPK/ha for obtaining higher and better quality yield of capsicum under 50 per cent green shade net house conditions. Out of 112.5 kg phosphorus, 84.50 kg should be applied through single super phosphate by soil application whereas, 187.5:28:150 kg NPK/ha should be applied through urea, phosphoric acid and muriate of potash in twenty equal split doses once in a week through fertigation.
- 9) Banana variety Grand Nine (G-9) is recommended under Vidarbha region for successful cultivation, best quality and maximum yield returns.
- 10) It is recommended for successful propagation of pomegranate through air layering the media combination of sphagnum moss and vermicompost 1:1 WV is effective for better success, survival and higher monetary return.
- 11) For higher success of grafting in custard apple, ten months old rootstock during January to March is recommended.
- 12) For getting maximum flower yield and economic returns from Jasmine (*Jasminum Sambac*), it is recommended to prune the plants during fourth week of December with medium pruning level (30 cm above ground level) in Vidarbha region.

- 13) For effective management of pulse beetle it is recommended to keep 80 tablets (weighing 0.5 g each) per quintal in stored mungbean
- 14) The PDKV process for preparation of smooth textured jam from beetroot, that includes preparation of pulp by pressure cooking and grinding, adding it with sugar, lemon juice and preservative and heating for 30 to 40 minutes is recommended.
- 15) PDKV developed Hydroponic structure made by U-PVC pipe with dimension of (3x 2x 3 m) is recommended for green fodder crops.
- 16) PDKV developed solar insect light trap in IPM practice is recommended for trapping harmful insect in the field
- 17) It is recommended to use Dr. PDKV double basin solar distillation system integrated with vacuum tubes to enhance thermal efficiency and maximize distillate yield.
- 18) PDKV SPV knapsack cum hand operated sprayers is recommended for spraying on various crops.
- 19) It is recommended to use drip irrigation at 80% evapotranspiration replenishment with polyethylene mulch (silver color and 50 micron thickness) for highest growth and yield of chilli crop.
- 20) It is recommended to use drip irrigation at 80 % Etc with black polyethylene mulch during winter season for highest growth and yield of Bitter Gourd crop.
- 21) For obtaining higher yield and superior quality of Nagpur mandarin fruits with more economics returns, water soluble fertilizer should be applied through fertigation with dose of 1020- 340- 510 NPK(g/plant) in six splits .
- 22) PDKV Soil bag machine is recommended for the filling of soil in the nursery polybags.
- 23) In Amravati Division of Vidharbha region 81.80 per cent farmers were found without knowledge of preparation of insecticide solution. It is recommended that the State Agril. Dept., Agril Universities, Krishi Vigyan Kendras and other institute should initiate awareness about this .

#### **Undertaking**

It is to certify that 23 Technologies of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola were released in State level Joint Agrosco -2018 at BSKKV, Dapoli during 24<sup>th</sup> to 26<sup>th</sup> May 2018. These technologies were demonstrated on large scale and also being adopted by large number of farmers.



Director of Research  
Dr. PDKV., Akola




**(ii) New farm machinery & tools developed during year 2018**

(Appropriate proof for development and adoption of machinery & tools to be enclosed as Annexure B3 (ii))

SN.	Name of farm implement /machinery	Important Features
1	PDKV small tractor operated seed ferti drill cum interrow cultivator	PDKV small tractor (18.5 - 25 hp) operated seed ferti drill cum interrow cultivator is recommended for sowing and intercultural operation
2	PDKV small tractor operated crop residue disintegrator	PDKV small tractor (18.5 -25 hp) operated crop residue disintegrator is recommended for <i>in-situ</i> crop residues management
3	PDKV developed power cutter	Dr. PDKV developed power cutter is recommended to use for cutting sugar cane sets and forage.
4	PDKV Rotary Onion Grader	It is recommended to use PDKV Rotary Onion Grader (Capacity- 20 TPD) for size grading of onions
5	PDKV Jamun pulp extraction machine	PDKV Jamun pulp extraction machine is recommended for the extraction of jamun pulp.

**Undertaking**

It is to certify that Five farm implements and machine of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola were released in Joint Agrosco -2018 at BSKKV, Dapoli during 24<sup>th</sup> to 26<sup>th</sup> May 2018. The demonstrations of farm implements and machines were undertaken on large scale and also being adopted by many farmers.

  
Director of Research  
Dr. PDKV., Akola

**ANNEXURE C 2**

**Extension workers award at State/National level (By Government agency)  
during 2018**

<b>Sl No.</b>	<b>Number of Award at State and National level</b>		
<b>1.</b>	<b>03</b>		
<b>List of awardee</b>			
<b>Sl No.</b>	<b>Name of the faculty</b>	<b>Name of Award</b>	<b>State/National</b>
1.	Dr. V. M. Bhale	Outstanding contribution in the field of Agriculture	State
2.	Dr. S.R. Kalbande	Startup India Finalist Maharashtra Yatra	State
3.	Dr. S.R. Kalbande	Jai Kisan Farmers Foram	State

**ANNEXURE C 3**

**Quality input supplied by University**

**DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH ,  
KRISHI NAGAR , AKOLA 444104 (M. S.)**

**Dr.V.K. Kharche**  
Director of Research



Gram : University  
Phone :0724- 2258419 (O)  
FAX, 0724- 2258419  
E-mail: [director\\_res@pdkv.ac.in](mailto:director_res@pdkv.ac.in)

No. DR/ <sup>256</sup> /2019

Dated : 4<sup>th</sup> June, 2019

**CERTIFICATE**

This is to certify that the Nurseries of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola has produced and supplied 6, 69,235 quality planting materials of different fruit and forest plants during the year 2018.

  
**Director of Research**  
**Dr. PDKV, Akola**

**DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH ,**  
**KRISHI NAGAR , AKOLA 444104 (M. S.)**

**Dr.V.K. Kharche**  
Director of Research




Gram : University  
Phone :0724- 2258419 (O)  
FAX. 0724- 2258419  
E-mail: [director\\_res@pdkv.ac.in](mailto:director_res@pdkv.ac.in)

No. DR/258/2019

Dated : 4<sup>th</sup> June, 2019

**CERTIFICATE**

This is to certify that the Agriculture Research Stations under Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola has produced and sold 968.67 quintals breeder seed of Cereals and Pulses during the year 2018.

  
**Director of Research**  
**Dr. PDKV, Akola**




## ANNEXURE C 5

**Revenue generated through consultancies, certification, testing, tuition fee, licensing, training, sale of inputs and commercialization of technologies during FY 2018-19**

### Template for the Parameter C5

Sl No.	Total revenue generated	Total budget of University	Total budget of university
1.	1656.17	14239.88	11.63 %
Sl No.	Revenue generated*	Amount in lakhs	
1.	Consultancies	0.00	
2.	Certification	0.00	
3.	Testing	335.96	
4.	Tuition fee	713.08	
5.	Licensing/ MoU	4.64	
6.	Training	247.00	
7.	Sale of inputs	352.50	
8.	Commercialization of technologies	0.00	
9.	Revolving fund	2.99	
10.	Any other (Please specify)	0.00	
	Total	1656.17	

  
Signature of the Comptroller with Seal  
Comptroller  
Dr. Panjabrao Deshmukh  
Krishi Vidyapeeth AKOLA

## ANNEXURE C 6

### Number of inter-institutional collaborative projects obtained during 2018

Sr. No.	Name of the inter-institutional collaborative projects
1.	Detailed (Soil & plant) nutrient analysis in long term farming systems comparison experiments (LTE)
2.	Joint masters thesis research project
3.	Seeding the green future
4.	Improvement of foxtail millet ( <i>Setaria italic</i> ) for yield and blast resistance using mutagenesis
5.	Multiplication of Trombay crop varieties, extension and application of nuclear technique for food processing
6.	Field evaluation of Trombay mutants and selection and research activities in agriculture and post harvest technology
7.	Protection and rehabilitation of soil for food security in India.



# FiBL



## AGREEMENT

Between

**DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH (PDKV), AKOLA-444104  
(MAHARASHTRA) INDIA.**

And

**THE RESEARCH INSTITUTE OF ORGANIC FARMING (FiBL), ACKERSTRASSE,  
CH-5070 FRICK, SWITZERLAND**

And

**BIORE ASSOCIATION, THE 5TH KM MILESTONE, KASRAVAD MANDLESHWAR  
ROAD, TEHSIL KASRAVAD, DISTRICT KHARGONE, MADHYA PRADESH - 451228  
INDIA**

The Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola - a Premier Agricultural University in Maharashtra, India, hereinafter referred to as PDKV and the Research Institute of Organic Agriculture, hereinafter referred to as FiBL embarked on a formal collaboration in research, training, dissemination and utilization of results generated by joint projects, by means of MoU signed in November, 2017. bioRe association is an association representing farmers in Nimar valley of Madhya Pradesh. Since 2007, FiBL and bioRe are engaged in a long-term collaboration aimed at conduct of farming systems research – mainly in the form of the Long-Term Farming Systems Comparison (SysCom) Program. Within the framework of the SysCom Program and in accordance with the provisions of the above mentioned MoU all the three institutions are making an agreement for the following projects to be carried out jointly from 2018-21:

**1. SysCom-PDKV Project -1: Detailed (Soil and plant) nutrient analysis in Long Term Farming Systems Comparison Experiments (LTE) located at the Research Farm of bioRe in India**

**1.1. The main tasks of this project include:**

- 1.1.1. Detailed (Soil and plant) nutrient analysis on the samples obtained in the Long Term Farming Systems Comparison Experiments (LTE), located at the research farm of bioRe in M.P. This means, quantification of pH, Electrical Conductivity, Organic carbon and available proportions of Nitrogen, Phosphorus, Potassium, Calcium carbonate, Sulphur, Iron, Manganese, Zinc, Copper, Boron; and quantification of total proportions of N, P and K from soil, plant and seed samples.
- 1.1.2. Timely delivery of quality controlled data in appropriate excel sheets.
- 1.1.3. Basic analysis of data with figures and graphs.
- 1.1.4. Co-development of the concept of publication based on the research results

- 1.2. The investigators for the said project at PDKV will be Dr. D. V. Mali, Dr. N.M. Konde and Dr. S.M. Bhoyar.
- 1.3. The total budget allocated to this project over a duration of two years is Indian rupees eighteen Lakh and twenty six thousand only (1,826,000/-).

<b>SysCom-PDKV Project 1: Detailed (Soil and plant) nutrient analysis in Long Term Farming Systems Comparison Experiments (LTE) located at the Research Farm of bioRe in India</b>			
SN	Particulars	Year and Budget in INR	
		2018-19	2019-20
1	Contractual Staff (Senior Research Fellow) @ Rs.25000/- +10% HRA/Month	330,000.00	330,000.00
2	Chemicals , Glasswares, Filter papers and other consumables etc.	350,000.00	350,000.00
3	Travel and other Operational expenses	150,000.00	150,000.00
	<b>Total</b>	<b>830,000.00</b>	<b>830,000.00</b>
4	Institutional charges @10%	83,000.00	83,000.00
	<b>Grand Total</b>	<b>913,000.00</b>	<b>913,000.00</b>

- 1.4. The budget will be released in three split instalments.
- 1.5. The release of the allocated budget for year 2 is dependent on successful completion of the tasks of year-1 and a satisfactory review.

## 2. SysCom-PDKV Project 2: Joint master thesis research projects

- 2.1. One master student from Agronomy and one master student from Soil Science and Agricultural Chemistry could be funded through this fellowship scheme as per the following budget:

<b>SysCom-PDKV Project 2: Joint master thesis research projects with the engagement of PDKV students and their supervisors</b>			
SN	Particulars	Year and Budget in INR	
		2019-20	2020-21
1	(SysCom Research Fellow in Agronomy) @ Rs.12500.00 per month	150,000.00	150,000.00
2	(SysCom Research Fellow in Soil Science) @ Rs.12500.00 per month	150,000.00	150,000.00
	<b>Total</b>	<b>300,000.00</b>	<b>300,000.00</b>
	<b>Grand Total</b>	<b>300,000.00</b>	<b>300,000.00</b>

- 2.2. The fellow student(s) should exclusively work on a well-defined research project within the framework of the Long Term Farming Systems Comparison Experiments (LTE), located at the research farm of bioRe in M.P and Dr. PDKV, Akola.



- 2.3. The student projects shall be co-supervised by FiBL scientists Dr. Gurbir S. Bhullar and Dr. Amritbir Riar, who will be granted with appropriate recognitions from respective Board of Studies at PDKV.
  - 2.4. The selection of the student and continuation of the fellowship is subject to case by case review by FiBL scientists Dr. Gurbir S. Bhullar and Dr. Amritbir Riar.
  - 2.5. The results from the data obtained in these projects could be published in the form of master theses and in publications/ conferences with pre-approval of FiBL and with due authorship credits.
  - 2.6. The respective master student(s) and their co-supervisors from PDKV Akola University could gain authorship on the publications arising from joint work, depending upon their respective contributions.
  - 2.7. The respective institutes will bear lodging, boarding and local transportation for the students and scientists involved in the research programme.
3. SysCom-PDKV Project 3: Joint organisation of the Global Convention on Organic Agriculture in 2019 in Nagpur
  - 3.1. FiBL, bioRe and PDKV will jointly organise a Global Convention on Organic Agriculture in September 2019 in Nagpur.
  - 3.2. FiBL will host two technical sessions in the conference.
  - 3.3. FiBL will provide a financial contribution for the conference organisation with a total sum of Indian rupees five lakh only.

SysCom-PDKV Project 3: Joint organisation of the Global Convention on Organic Agriculture in 2019 in Nagpur			
SN	Particulars	Year and Budget in INR	
		2019	
1	One full day of scientific sessions and discussions on cotton based systems	500,000.00	
	<b>Total</b>	<b>500,000.00*</b>	
	<b>Grand Total</b>	<b>500,000.00</b>	

\* part of this budget will be paid from Seeding the Green Future Project.

#### 4. Financial transactions

- 4.1. Main partner of FiBL for the SysCom program in India is the bioRe Association, located at the 5<sup>th</sup> km Milestone, Kasravad Mandleshwar Road, Tehsil Kasravad, District Khargone, Madhya Pradesh - 451228 India.
- 4.2. The budget for the above project activities shall be allocated through SysCom program.
- 4.3. FiBL and bioRe researchers will be actively involved in all the projects mentioned above. In accordance with the mentioned budget, PDKV will receive payments from bioRe for the services provided in each of the above projects against appropriate invoice.

Each party has agreed as above and hereby sign

Place: Frick  
Date: 20.02.2019



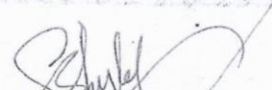
Dr. Gurbir S. Bhullar  
Theme Leader – Tropical Agriculture  
FiBL, Switzerland

Place: Frick  
Date:



Prof. Dr. Urs Niggli  
Director, FiBL  
Ackerstrasse 113, Switzerland

Place: Akola  
Date:



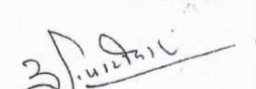
Dr. Sanjay M. Bhoyar  
Head, Department of Soil Science  
Dr. PDKV, Akola, India

Place: Akola  
Date:



Dr. Vilas M. Bhale  
Vice-Chancellor  
Dr. PDKV, Akola, India

Place: Kasravad  
Date: 19.02.2019



Mr. Ishwar Patidar  
Head of Research  
bioRe Association (M.P.)

Place: Kasravad  
Date: 19.02.2019



Mr. Vivek Rawal  
General Secretary  
bioRe Association (M.P.)

**Agreement of for the "Seeding the Green Future" Project**

BETWEEN

**Dr. Panjabrao Deshmukh Krishi Vidyapeeth (PDKV)**, P.O. Krishi Nagar, Akola, Maharastra 444104, INDIA, further referred to as "Akola University" legally represented in this matter by Dr. V.K. Kharche, Director of Research – Akola University.

AND

**Research Institute for Organic agriculture (FiBL)**, Ackerstrasse 113, Box 219, 5070 Frick, Switzerland, further referred to as "FiBL" legally represented in this matter by Prof. Dr. Urs Niggli, Director

Concerning the implementation of the project **Seeding the Green Future - Participatory Cotton Breeding for Organic Farming & Securing Genetic Diversity of non-GM Cotton** according to the project proposal submitted by FiBL to the Mercator Foundation Switzerland and Organic Cotton Accelerator (OCA) Switzerland in 2017.

**The Parties**

The **Research Institute of Organic Agriculture (FiBL)** is a private foundation aiming at establishing practice-oriented agronomic and economic research in organic farming, including plant breeding. FiBL has about 150 staff and is one of the world's leading R&D and technology transfer centers dedicated to sustainable, organic and low-input agriculture. FiBL focuses on applied soil and crop science, socio-economic and animal science and the dissemination of scientific findings to farmers, policy makers and other stakeholders in the food supply chain. The close links between R&D and technology transfer is a particular strength of FiBL. FiBL is/was coordinator/partner in over 25 scientific projects of the European Research framework. FiBL's Plant Breeding focuses focus on plant soil/microbe interaction aiming for breeding for improved adaptation and symbiosis, on genotype management interaction (cropping systems, fertilizer levels), participatory breeding approaches (cotton breeding), optimizing genotype and management simultaneously (breeding for mixed cropping systems) and networking. FiBL is collaborating closely with private and public breeders, farmers, label organisations and policy makers. Breeding activities are complemented by on farm cultivar trials and the development of marketing concepts involving different stakeholders. FiBL has long been committed to the international development of organic agriculture. Alongside practical research, high priority is given to transferring knowledge into agricultural practice through advisory work, training courses and expert reports as well as various modern methods of documentation. Since 2002, FiBL is conducting research on cotton in India and also in West Africa. FiBL has close collaboration with various scientific groups in India in the scope of the Indo-Swiss-Collaboration for Biotechnology since almost 15 years and is conducting long term research in collaboration with bioRe since 2007. The participatory cotton breeding work in collaboration with Prof Patil is running since 2011.



The underlying agreement can be dissolved with or without juridical intervention by one of the signing parties in only one of the following situations:

- If any party fails to comply with the agreement, due to internal or external reasons.
- When fraud or abuse of the funds is observed and ascertained.
- If and as soon as one of the parties be declared bankrupt.
- If and as soon as one of the parties be granted a moratorium in respect of his debts.

#### Applicable law and Jurisdiction

The parties shall strive to settle any dispute arising in an amicable manner. This agreement will be construed under Swiss Law and disputes which cannot be resolved amicably may be brought before the court (Bezirksgericht) in Laufenburg (Canton of Aargau).

This agreement will become valid after FIBL has received a copy of the agreement signed by involved parties. This agreement will replace any previous multilateral or bilateral agreement between project partners with respect to the Seeding the Green Future. The agreement will end after the agreed term indicated at the beginning of this agreement and after FIBL has received reports mentioned in this agreement.

After termination of the project, FIBL shall be entitled to claim back any remaining project funds.

Each party has agreed as above and hereby sign

Place and Date: Akola 14/6/18

Signature: \_\_\_\_\_

Dr. V.K. Kharche  
Director of Research  
Dr. P.D.K.V. Akola

Dr. Panjabrao Deshmukh Krishi  
Vidyapeeth

P.O. Krishi Nagar, Akola, Maharashtra  
444104, INDIA

Place and Date: Frick, 20/09/2018

Signature: \_\_\_\_\_

Prof. Urs Niggli  
Director

Research Institute of Organic Agriculture  
(FiBL)

Ackerstrasse 113

CH-5070 Frick, Switzerland

**FiBL**  
Switzerland

*Handwritten signature*  
**REGISTRAR**  
Dr. PDKV, Akola (Mah.)





## Agreement of for the "Seeding the Green Future" Project

BETWEEN

**Dr. Panjabrao Deshmukh Krishi Vidyapeeth (PDKV)**, P.O. Krishi Nagar, Akola, Maharastra 444104, INDIA, further referred to as "Akola University" legally represented in this matter by Dr. V.K. Kharche, Director of Research – Akola University.

AND

**Research Institute for Organic agriculture (FiBL)**, Ackerstrasse 113, Box 219, 5070 Frick, Switzerland, further referred to as "FiBL" legally represented in this matter by Prof. Dr. Urs Niggli, Director

Concerning the implementation of the project **Seeding the Green Future - Participatory Cotton Breeding for Organic Farming & Securing Genetic Diversity of non-GM Cotton** according to the project proposal submitted by FiBL to the Mercator Foundation Switzerland and Organic Cotton Accelerator (OCA) Switzerland in 2017.

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Research Institute of Organic Agriculture FiBL | Ackerstrasse 113 | Postfach 219  
5070 Frick | Switzerland | Phone +41 62 865 72 72 | [info.suisse@fibl.org](mailto:info.suisse@fibl.org) | [www.fibl.org](http://www.fibl.org)

The underlying agreement can be dissolved with or without juridical intervention by one of the signing parties in only one of the following situations:

- If any party fails to comply with the agreement, due to internal or external reasons.
- When fraud or abuse of the funds is observed and ascertained.
- If and as soon as one of the parties be declared bankrupt.
- If and as soon as one of the parties be granted a moratorium in respect of his debts.

#### Applicable law and Jurisdiction

The parties shall strive to settle any dispute arising in an amicable manner. This agreement will be construed under Swiss Law and disputes which cannot be resolved amicably may be brought before the court (Bezirksgericht) in Laufenburg (Canton of Aargau).

This agreement will become valid after FIBL has received a copy of the agreement signed by involved parties. This agreement will replace any previous multilateral or bilateral agreement between project partners with respect to the Seeding the Green Future. The agreement will end after the agreed term indicated at the beginning of this agreement and after FIBL has received reports mentioned in this agreement.

After termination of the project, FIBL shall be entitled to claim back any remaining project funds.

Each party has agreed as above and hereby sign

Place and Date: Akola 14/6/18

Signature: \_\_\_\_\_

Dr. V.K. Kharche  
Director of Research  
Dr. P.D.K.V, Akola

Dr. Panjabrao Deshmukh Krishi  
Vidyapeeth

P.O. Krishi Nagar, Akola, Maharashtra  
444104, INDIA

Place and Date: Frick, 20/09/2018

Signature: \_\_\_\_\_

Prof. Urs Niggli  
Director

Research Institute of Organic Agriculture  
(FiBL)

Ackerstrasse 113

CH-5070 Frick, Switzerland



*Handwritten signature*  
REGISTRAR  
Dr. PDKV, Akola (Mah.)

Table 4: Budget and Financial Plan for Seeding the Green Future Phase II

Green Cotton Phase II "Seeding the Green Future" Budget Estimate 31 Aug 2017 Cost Center (annual changes reserved)	Budget Season 2018/19 (in CHF)
Personnel costs including social charges & overhead	5952.00
Material costs	10619.00
Travel expenses	1111.00
Budget Estimate Cost Center	
<b>TOTAL BUDGET</b> (Seventeen thousand, six hundred eighty three Swiss francs)	<b>17683.00</b>

**Please Note:**

\*Allocated budget will come into 2 installments (75% after signing MoU and 25% after final data submission and approval)

\*\*Total budget allocation is segregated for Personal, Material and Travel cost (Annexure II)

\*\*\*Project partners need to provide details sufficient to justify, if the deviation of expenses is more than 15% for any main budget line.

\*\*\*\*Project partners are responsible to submit financial reporting and financial audits against these main budget lines to FiBL.



**DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH ,  
KRISHI NAGAR , AKOLA 444104 (M. S.)**

**Dr.V.K. Kharche**  
Director of Research




Gram : University  
Phone :0724- 2258419 (O)  
FAX. 0724- 2258419  
E-mail: [director\\_res@pdkv.ac.in](mailto:director_res@pdkv.ac.in)

No. DR/260/2019

Dated : 4<sup>th</sup> June, 2019

**CERTIFICATE**

This is to certify that adhoc research project entitled "Improvement of Foxtail millet (*Setaria italica*) for yield and blast resistance using mutagenesis" was funded by Board of Research in Nuclear Sciences (BRNS), BARC, Trombay, Mumbai. The sanction number of the project was 35/14/47/2014-BRNS/35112. The project was executed under Dr. M.P.Mohril as a Principal Investigator during 2015-16 to 2017-18. The third year grant, 7.32 Lakh rupees, for the year 2017-18 (financial year and March 2018) was received by Department of Agril. Botany, Dr. PDKV, Akola for the execution of the project.

  
**Director of Research**  
**Dr. PDKV, Akola**





Government of India  
Department of Atomic Energy (DAE)  
Board of Research in Nuclear Sciences (BRNS)

Dr. S.Dutta  
Programme Officer (RTAC)

BRNS Secretariat, 1st Floor, CC.  
BARC, Trombay, Mumbai-400085.  
Phone: +91-2225595331  
Email: dsubrata@barc.gov.in

Date: 25/09/2017

No: 35/14/47/2014-BRNS/35198

OFFICE MEMORANDUM

Sub. Terminal grant-in aid for the year 2017-2018, for the R/P entitled "Improvement of Foxtail (*Setaria italica*) for yield and Blast resistance using mutagenesis" under Dr. M.P. Mohanil, Asstt. Professor, Biotechnology Centre, Department of Agril. Botany, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola-444 104, MS bearing sanction 35/14/47/2014-BRNS with RTAC, BRNS.

In continuation of this Department letter of even number dated 22/08/2016, on the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval of the President of India for the continuance of captioned project during 2017-2018 and sanction to incur an expenditure of Rs.7,32,100/- (Rupees seven lakh thirty-two thousand one hundred only) as detailed below:

Item of expenditure	Year 3 (2017-2018)
	0
Equipments	336000
Staff Salary - SRF @ Rs.28,000/- p.m.	72000
Technical Assistance	100000
Consumables	50000
Travel - PI	30000
Travel - PC/DC	100000
Contingencies	44100
Overheads	732100
<b>Total(INR)</b>	

- Date of Termination of the Project: 31/03/2018.
- The grant remaining unspent under the Heads "Equipments", "Consumables" and "Overheads" for the year 2016-2017 are allowed to be carried forward to the current financial year 2017-2018.
- The expenditure involved is debitable to the following Head of Account: 04 3401 00 004 27 02 31
- This issues with the concurrence of Scientific Secretary, BRNS and IFA.

Dr. S.Dutta

Pay & Accounts Officer, DAE, Mumbai-400 001.

Copy forwarded to:

1. Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
2. Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001, rd2@dae.gov.in
3. Comptroller, Vice-Chancellor, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola-444 104, MS.
4. Principal Investigator(PI): Dr. M.P. Moharil, Asstt. Professor, Biotechnology Centre, Department of Agri. Botany, Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola-444 104, MS.

A. In accordance with Rule 30 of the General Financial Rules 2005, this sanction will lapse if no payment in whole or part is made during a period of twelve months from the date of issue of this sanction letter.

B. Grant for the terminal year will be released in FULL (unspent balance of previous year and Interest earned will be adjusted) on receipt of the CLAIM IN DUPLICATE in prescribed FORM-II along with the following documents. The data for these documents are required to be filled online and a printout of the same should be forwarded to the undersigned after obtaining original signatures of the concerned officials.

- (a) Utilization Certificate for the preceding year.
- (b) Statement of Accounts signed by Internal Auditor/ Accountant of the Institution/ University for the preceding year. Interest earned in previous year should be reflected in the Statement of Accounts.
- (c) Copy of appointment order and joining report of the staff appointed for the project along with Minutes of the Selection Committee.
- (d) An inventory of equipment including copy of the Purchase order.

C. PLEASE NOTE THAT CLAIM(S) SHALL BE SUBMITTED TO THIS DEPARTMENT WELL IN ADVANCE BEFORE THE END OF THE FINANCIAL YEAR IN WHICH THE CLAIM IS DUE. OTHERWISE, THE SANCTIONED GRANT WILL BE LAPSE.

D. The balance of Overhead grant shall be released after on receipt of the CLAIM in duplicate in prescribed FORM-II along with the following documents within 6 months from the date of termination of the project:

- (1) Consolidated AUDITED Statement of Accounts from a Statutory Auditor (Govt. Auditor) or a Chartered Accountant for the grant-in-aid paid during the previous years (Form-IV).
- (2) AUDITED Utilization Certificate to the effect that grant received during the years were utilized for the purpose for which they were sanctioned.
- (3) An inventory of equipment in An inventory of equipment, including copy of the Purchase orders.
- (4) Three hard copies of the final consolidated Project Completion Report (PCR).
- (5) Uploading of soft copy of the PCR and two page brief report through the website.

E. If the claims are not received within the stipulated period, it will be presumed that the Investigator has no further claim, and the file will be closed.

F. The grant remaining unutilized, if any, may be refunded vide DD drawn in favour of "Pay & Accounts Officer, DAE, Mumbai" and sent to BRNS Secretariat alongwith documents listed at para (D) above. The unutilized grant may be refunded in whole rupees by rounding off the amount to the nearest rupee.

G. Attention is also invited to the procedure regarding publication of papers (vide para 9 of the Annexure to the "Terms and Conditions" already sent to you alongwith first year sanction letter), the above has been classified as Unreserve for the purpose of the publication of results of the work.

5. AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001
6. Member Secretary (RTAC) : Dr Ashutosh Dash, [adash@barc.gov.in](mailto:adash@barc.gov.in); Ph:+91-2225595372.
7. Co-Investigator (CI) : Dr. R. b. Ghorade, Senior Research Scientist, Sorghum Research Centre Dr. PDKV, Akola, Email : [akola@sorghum.res.in](mailto:akola@sorghum.res.in), Mobile :9850723706
8. Principal Collaborator (PC): Dr. P. Suprasanna, NA&BTD, BARC

*Sundera Dutta*  
Dr. S. Dutta

Note:


1. Please quote the Sanction Number 35/14/47/2014-BRNS in all your correspondence with BRNS.
2. All the forms mentioned in the sanction letter and the terms & conditions are also available on the website. Kindly update Statement of Accounts, details of Equipment and staff in the menu available on the leftside when view application is clicked. The renewal/extension forms and scanned copy of duly signed financial documents (SA, UC & claim) also needs to be uploaded to get grant for subsequent years. Kindly verify that the data given in your profile is correct.
3. Please note that as per the government orders under Direct Benefit Transfer (DBT) scheme, the staff salary has to be transferred to his/her bank account. Accordingly, Aadhar Number (UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be intimated

NO MDR/128/19  
Department of Agril. Botany  
Dr. P. D. N. V. Akola  
Date 04/06/2019

#### Annexure C6

This is to certify that the following MOU between Dr. PDKV, Akola and BARC, Mumbai is made and ongoing during 2018.

1. **Title of Project**-Multiplication of Trombay crop varieties, extension and application of nuclear technique for food processing.
2. **Title of Project** -Field evaluation of Trombay mutants and selections and Research activities in Agriculture and Post Harvest Technology.

  
**Head**  
Deptt. of Agril. Botany  
Dr. P. D. N. V. Akola  
Department of Agril. Botany  
Dr. P. D. N. V. Akola





**DIRECTORATE OF EXTENSION EDUCATION**  
**DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH**

KRISHINAGAR P.O., AKOLA - 444 104 (Maharashtra)

Phone: (0724) 2258174

Fax : (0724) 2258732

No. DEE/ETO/MANAGE LoC/3476 /2019

Date: 04.06.2019

**Certificate**

This is to certify that, MANAGE, Hyderabad and PDKV, Akola has signed Letter of Cooperation on Dt. 01 March, 2018 for creation of contents and validation of contents on NICE software in Pro-soil project for farming community in selected villages of Amaravati and Yavatmal districts of Maharashtra with the involvement of University and KVK scientists.

The work of creation of contents and validation of contents is continued till date and the University and KVK scientists are creating and validating the contents time to time for solving the queries of farming community in Amaravati and Yavatmal districts as per the Letter of Cooperation between MANAGE, Hyderabad and PDKV, Akola

(D. M. Mankar)

**Director of Extension Education**

## LETTER OF COOPERATION

Between the **National Institute of Agriculture and Extension  
Management (MANAGE)**

And

**Directorate of Extension Education, Dr. Punjabrao Deshmukh Krishi  
Vidyapeeth (PDKV), Akola**

To support the weather and soil based advisories using the NICE  
platform under the Project – **Protection and Rehabilitation of soil  
for food security in India (ProSoil)** in the project locations in  
Amravati and Yavatmal districts

National Institute of Agriculture Extension Management (MANAGE), and Directorate of Extension Education, Dr. Punjabrao Deshmukh Krishi Vidyapeeth (PDKV), Akola agree to collaborate to provide quality weather and soil based advisories to the farmers in the Amravati and Yavatmal districts of Maharashtra; under the project – Protection and Rehabilitation of Soil for food security in India (ProSoil).

MANAGE under the ProSoil is a national autonomous institute under the ambit of Ministry of Agriculture and Farmers Welfare, Government of India; and delivers expert services to create capacities and institutional systems for betterment of extension systems in the agriculture sector. It creates young capable human resources through various management education courses as well as re-capacitates managers through well designed management trainings. Besides running academic programs, MANAGE also provides expert services and research inputs for improved extension in agriculture. It has also been steering innovative initiatives like agri-business and agri-clinics and supporting state level agriculture training institutes (SAMETIs). MANAGE has also designed IT services for easy access and use of training materials to enable capacity building of other stakeholders.

MANAGE has been identified by the Ministry of Agriculture and Farmers Welfare, Government of India as a National Consortium Facilitation Agency (NCFA) to implement the NICE platform developed by GIZ, for providing quality weather and soil based advisories to farmers. MANAGE and GIZ (ProSoil) have entered into an formal agreement wherein GIZ is supporting MANAGE in the initial phases as a National Consortium Facilitating Agency (NCFA) and it is expected that post this the processes would be mainstreamed.

## 1. Background

The ProSoil project is a unique project under the special initiative – One World, No Hunger of the Ministry of Economic Cooperation and Development, Federal Government of Germany. This global initiative reflects our commitment to eradicate hunger and malnutrition and ensuring that the future generations have sufficient, healthy and affordable food. Major focus of this initiative is African region (Benin, Burkina Faso, Ethiopia, Kenya and Madagascar) and India. ProSoil project is being implemented in India in partnership with National Bank for Agriculture and Rural Development (NABARD) and in collaboration with Ministry of Agriculture and Farmers Welfare, GoI; MANAGE, State Agriculture Universities, KVKs and other research partners. Direct field level implementation is supported by the NGO partners namely BAIF Development Research Foundation, Watershed Organisation Trust (WOTR) and Foundation for Ecological Security (FES).

The project's aim is to implement approaches to soil fertility and rehabilitation on a total of 53,000 ha of land, with 40% of the participating farmers being women and yields on the treated main crop production fields increasing by 20%. Two proposals for improved soil fertility management and for the involvement of the private sector will be communicated to the National Mission for Sustainable Agriculture.

The primary areas of intervention under the ProSoil project are:

- Improved soil fertility in water catchment areas
- Soil health maps
- Piloting of innovative technologies and business models: business models around urban organic waste like compost, Terra Preta etc. and ICT solutions for improved agricultural advice on soil fertility issues.

One of the critical interventions under the project is to provide the small and marginal farmers with quality and localized advisories based on weather, crops and soil status. The relevant knowledge



and information needed to help the stakeholders to adopt suitable adaptation technologies and strategies suited to localized needs, is currently disintegrated. GIZ has developed a ICT enabled platform called Network for Information on Climate (ex) Change or NICE that enables network based advisory processes that is real time and localized.

One of the project locations are the clusters in Yavatmal and Amravati district of Maharashtra. The cluster consists of 12 villages in Ralegaon, Kelapur, Kalamb and Ghatanji blocks of Yavatmal district and 2 villages in Morshi block of Amravati district. The on-field implementation in these clusters are supported by BAIF Development Research Foundation. The Community Resource Persons (CRPs) appointed by BAIF Development Research Foundation support the farmers and are equipped with tablet-application of NICE to deliver localized advisories to the farmers.

#### **1.1 Through the NICE platform ProSoil project intends to:**

- Pilot innovative technology framework to effectively integrate the disaggregated agriculture knowledge systems and tune it to address the hyper-localized knowledge needs of farmers (specifically small and marginal farmers)
- Set up institutional systems at district and block levels to leverage and converge diverse knowledge and expertise of various institutions using the NICE platform
- Build the capacities of various stakeholders, specifically farming community, to effectively access and use the NICE platform
- Propose and support, based on learning from pilot, enabling policies, institutional systems for up-scaling

#### **2. MANAGE and DEE, PDKV agree to collaborate and hence jointly achieve the following objectives:**

- (a) Identify experts at University and KVKs based on specific localized climate change adaptation needs. KVK scientists will develop the localized quality advisories on the NICE platform. The experts in PDKV will validate these advisories. Only the valid and approved advisories will be disseminated to farmers through multiple modes i.e. SMS, one pager documents, voice mails, video links, tablets of extension cadre (appointed by the implementing NGO partner) and others. This multi-modal dissemination will be done through the NICE platform.
- (b) Review and respond to the feedback from the farmers and hence an iterative process for advisory generation
- (c) Support, coordinate and monitor advisory processes i.e. content creation by KVKs, content validation by university experts and timely dissemination of advisories.
- (d) Both also will monitor and support the 'query response' processes to ensure farmers' queries are responded within 48 hours.
- (e) Build the capacities of experts, extension cadre and farmers on new knowledge, technologies to improve soil health and fertility as well as improve agriculture productivity.
- (f) Conduct short studies and undertake reviews collate impacts and report results from the project on time to time basis

#### **3. Support needed from the DEE, PDKV**

The overarching support and role from DEE, PDKV, Akola are:

- (i) Nominate scientists from PDKV to validate the advisories, from the subject areas of:
  - a. Agronomy
  - b. Horticulture
  - c. Soil and water management,
  - d. Pest and disease management,

- e. Animal Husbandry and Dairy Science
- f. Home Science (Kitchen gardens)
- g. Fisheries
- h. Agriculture Economics
- i. Agriculture Engineering

(ii) Nominate the experts from KVKs in Amravati and Yavatmal namely - in the subject areas of:

- a. Agronomy
- b. Horticulture
- c. Soil and water management,
- d. Pest and disease management,
- e. Animal Husbandry and Dairy Science
- f. Home Science (Kitchen gardens)
- g. Fisheries
- h. Agriculture Economics
- i. Agriculture Engineering

- (iii) The nominated experts from KVKs will perform the role of *content creators* on the NICE platform. The role of content creators will be to use the weather information, crop information and soil data accessible on NICE to create localized advisories. These advisories will be mostly as one-pager documents. SMS will be created only in situations of alerts for the farmers to avoid bombarding of SMSs to farmers. Others kind of advisories will include pictures, video links and voice mails (as required and suitable). Define state-specific content accreditation / validation procedures using a well-defined quality assurance framework and procedure to ensure its quality. The Scientists from KVKs (Amravati and Yavatmal)
- (iv) DEE, PDKV, Akola will form a '*Content Advisory Group*' to review quarterly the needs of the farmers and suggest subject matter experts to develop localized content

#### 4. Reporting mechanisms

- 4.1 The report on status of content creation, validation and approval can be viewed in NICE software by DEE, MANAGE and GIZ officials. The progress of advisory dissemination by scientists of KVK and university will be closely monitored and reviewed monthly by DEE.

#### 5. Resources

5.1 MANAGE will provide for travel expenses of the university and KVK scientists as required to facilitate the advisory process in the ProSoil project locations in Amravati and Yavatmal. The University and KVK scientists will visit the field locations at least four time (before rabi and kharif) and mid-season (rabi and kharif).

5.2 MANAGE will provide the capacity building support to the scientist on use of NICE as well as up-dation of technical knowledge by facilitating participation in agreed workshops, trainings and other events. The costs to enable the travel and logistics required to participate in such events will be provided by MANAGE. MANAGE envisages at least 4 such events in a year.

#### 6. GENERAL CONDITIONS

9.1 The parties hereby agree that they are not exclusively bound by this MOA and shall be at liberty to enter into any separate agreements or arrangements with any kind of third party without reference to the other party



# WORK PLAN

INTERVENTIONS AND ACTIVITIES	01/18	02/18	03/18	04/18	05/18	06/18	07/18	08/18	09/18	10/18	11/18	12/18
Identification of scientist from University and KVKs and their trainings on NICE												
Formalizing cooperation between MANAGE and PDKV, Akola												
Training on NICE												
Refresher trainings												
Implementation of advisories using NICE												
Content creation by KVK scientists												
Content validation by University Experts												
Response to farmers' queries												
Student and farmers' feedback response review												
Institute a Content Advisory Group												
Review and inputs on contents and feedback												
Linking												
Building up capacity building efforts around CCA in Agriculture												
Calling to other KVKs												
Trainings of other KVK personnel												


msj

## ANNEXURE C 7

### Partnership with Private Sector made during 2018

Memorandum of Understanding Between Dr. PDKV, Akola and Manufacturers for Post Harvest Processing Machineries during 2018-19

1	M/s Pankaj Industries, MIDC, Phase I, Plot No. A/1, Shivar, Akola Mob. No. 9423089239	PKV Mini dal mill (3 hp) PKV Screw polisher PKV Mini dal mill (5 hp)	May 16, 2018
2	M/s S.K. Engineering, Akola MIDC, Shivani, Akola Mob. 9673079330	PKV Waste fired dryer PKV Mini dal mill (3 hp)	May 16, 2018
3	M/s Shreehari Welding Works MIDC, Chikhali, Plot No. A-38, A-39, Tq. Chikhali, Dist. Buldhana Mob. No. 9822046775, 9011497287	PKV Mini dal mill (3 hp) PKV Cleaner grader (1 hp) PKV Screw polisher (1 hp) PKV Mini dal mill (5 hp) PKV Mini dal mill (Integrated) PKV Chilli seed extractor	May 16, 2018
4	M/s Sai Machinery, S. No. 25/2, Plot No. 53, Flat No. 201, Radharaman Palace, Ashtvinayak Colony, Pipeline Road, Savedi, Ahmadnagar-414 003, Mob. No. 9552522601, 9011819048	PKV Mini dal mill (3 hp) PKV Screw polisher PKV Mini dal mill (5 hp)	May 16, 2018
5	M/s A.K. Engineering, MIDC No. 4, Plot No. 28/2, AGC, Akola Maharashtra Mob. No. 9923411893, 8600589610, 9405682357	PKV Mini dal mill (3 hp) PKV Mini dal mill (5 hp) PKV Cleaner-Grader	May 16, 2018
6	M/s Shri Sukhsa Industries, Plot No. F 41, MIDC II, Akola - 444 001 Mob. 9763637690	PKV Cleaner-Grader PKV Mini dal mill (3 hp) PKV Mini dal mill (5 hp) PKV Screw polisher (1 hp)	May 16, 2018
7	M/s Welcome Industries, Navi Vasti, Backside of Bus Stand, Durgapur Road, Badnera, Dist. Amravati-444 701 Mob. No. 9503637208, 9371893180	PKV Mini dal mill (3 hp) PKV Screw polisher (1 hp) PKV Mini dal mill (5 hp) PKV Mini dal mill (Integrated)	May 16, 2018
8	M/s Osaw Agro Industries Pvt. Ltd. P. O. Bag 5, Agrosaw Complex, Jagadhri Road, Ambala Cantt. (HR)-133 001	PKV Mini dal mill (3 hp)	May 16, 2018
9	M/s S.K. Edutech and Agro Industries, Plot No. N-29/2, MIDC, Phase IV, Akola Mob. No. 9822641908	PKV Mini dal mill (3 hp) PKV Mini dal mill (5 hp) PKV Cleaner-Grader PKV Screw polisher (1 hp)	May 16, 2018
10	M/s Jagdamba Agro Engineering, Bhokardan Naka, Auranagabad Road, Jalna Mob. No. 9420461501, 9422927831	PKV Mini dal mill (3 hp) PKV Waste fired dryer PKV Cleaner-Grader PKV Screw polisher (1 hp)	May 16, 2018
11	M/s Vyankatesh Agro Engineering, Jalna Mob. No. 9423251759, 9420221882	PKV Mini dal mill (5 hp)	May 16, 2018
12	M/s Dnyaneshwari Dal Mill, Shevgaon, Dist. Ahmadnagar Mob. 7020684986	PKV Mini dal mill (3 hp) PKV Screw polisher (1 hp) PKV Mini dal mill (5 hp) PKV Mini dal mill (Integrated)	May 16, 2018
13	M/s Jalaram Engineering Works MIDC, D-5, Phase II, Akola Mob. 9422163388	PKV Onion Grader	July 24, 2018
14	Shree Sant Gajanan Maharaj College of Engineering, Shegaon	Educational MoU	July 24, 2018
15	Sipana College Engineering & Technology, Amravati	Educational MoU	July 24, 2018

  
 Associate Dean  
 College of Agri. Engg. & Tech  
 Dr. P.D.K.V., AKOLA



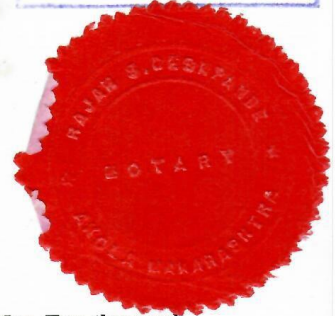
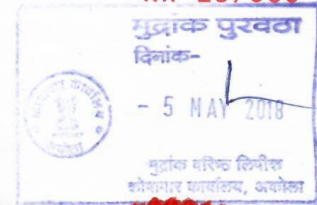
Pankaj Industries, Akola



महाराष्ट्र MAHARASHTRA

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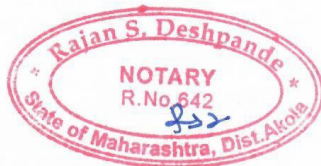
RX 257060



## AGREEMENT

### 1.1 THE AGREEMENT

1.1.1 THIS AGREEMENT made and entered at Akola on 16<sup>th</sup> day of May, Two thousand eighteen between Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, (M.S.), a State Agricultural University registered under Maharashtra Agricultural University Act 1983, having its registered office at Krishi Nagar, Akola-444104 hereinafter called, "UNIVERSITY" which expression shall where the context so admits includes its successors and permitted assignees of the one part, AND M/s Pankaj Industries and having its registered office at MIDC, Phase I, Plot No. A/1, Shivar, Akola hereinafter called CONTRACTING PARTY which expression shall where the context so admits includes its successors and permitted assignees of the other part.



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S.K. Ergg-



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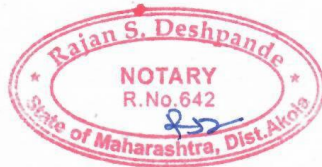
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## AGREEMENT

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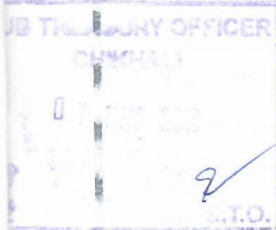




महाराष्ट्र MAHARASHTRA ३९०

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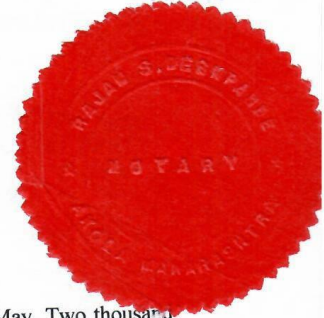
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१५/५/१८  
पं. श्री यशवंतराव गुंडाकर  
हस्तक्षेप (बिंदु)  
पं. श्री यशवंतराव गुंडाकर.

SHREEHARI WELDING WORKS  
A-38, A-39, Tq. Chikhali, Dist. Buldhana  
M. 9867200004, 9867005917

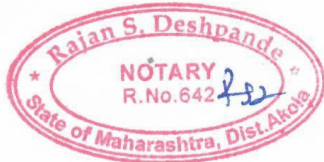
कलास विधेयार राज  
६ दिवसीय ६/२००  
कोड नं. ६३०२००४



## AGREEMENT

### 1.1 THE AGREEMENT

1.1.1 THIS AGREEMENT made and entered at Akola on 16 day of May, Two thousand eighteen between **Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, (M.S.)**, a State Agricultural University registered under Maharashtra Agricultural University Act 1983, having its registered office at **Krishi Nagar, Akola-444104** hereinafter called, "**UNIVERSITY**" which expression shall where the context so admits includes its successors and permitted assignees of the one part, AND **M/s Shreehari Welding Works** and having its registered office at **MIDC, Chikhali, Plot No. A-38, A-39, Tq. Chikhali, Dist. Buldhana** hereinafter called **CONTRACTING PARTY** which expression shall where the context so admits includes its successors and permitted assignees of the other part.



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Chale





महाराष्ट्र MAHARASHTRA

© 2017 ©

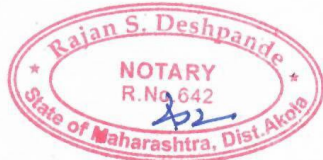
RX 299092



## AGREEMENT

### 1.1 THE AGREEMENT

1.1.1 THIS AGREEMENT made and entered at Akola on 16 day of May, Two thousand eighteen between **Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, (M.S.)**, a State Agricultural University registered under Maharashtra Agricultural University Act 1983, having its registered office at **Krishi Nagar, Akola-444104** hereinafter called, "**UNIVERSITY**" which expression shall where the context so admits includes its successors and permitted assignees of the one part, AND **M/s A.K. Engineering** and having its registered office at **MIDC No. 4, Plot No. 28/2, AGC, Akola Maharashtra** hereinafter called **CONTRACTING PARTY** which expression shall where the context so admits includes its successors and permitted assignees of the other part.



- 1 -





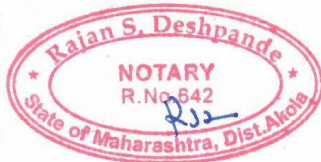
महाराष्ट्र MAHARASHTRA

© 2017 ©

RX 618956

**AGREEMENT****1.1 THE AGREEMENT**

1.1.1 THIS AGREEMENT made and entered at Akola on 16<sup>th</sup> day of May, Two thousand eighteen between **Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, (M.S.)**, a State Agricultural University registered under Maharashtra Agricultural University Act 1983, having its registered office at **Krishi Nagar, Akola-444104** hereinafter called, "**UNIVERSITY**" which expression shall where the context so admits includes its successors and permitted assignees of the one part, AND **M/s Shri Sukhsa Industries** and having its registered office at **Plot No. F 41, MIDC II, Akola - 444 001** hereinafter called **CONTRACTING PARTY** which expression shall where the context so admits includes its successors and permitted assignees of the other part.



- 1 -

**SHRI SUKHSA INDUSTRIES**  
 M. S. D.  
**PROPRIETOR**

Welcome Industries, Low Amount

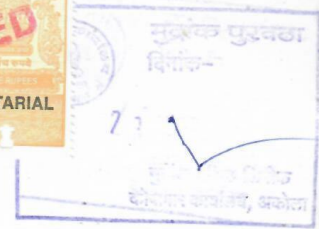
अकोल



महाराष्ट्र MAHARASHTRA

2017

RX 645327



## AGREEMENT

### 1.1 THE AGREEMENT

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*[Handwritten signature]*

*Bonsal*





महाराष्ट्र MAHARASHTRA

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NAGPUR TREASURY  
SU 345923

23 APR 2018

Stamp Head Clerk / Sr. Clerk

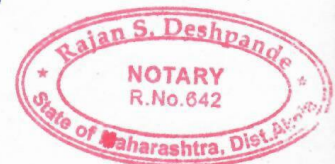


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1.1.1 THIS AGREEMENT made and entered at Akola on 16<sup>th</sup> day of May, Two thousand eighteen between Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, (M.S.), a State Agricultural University registered under Maharashtra Agricultural University Act 1983, having its registered office at Krishi Nagar, Akola-444104 hereinafter called, "UNIVERSITY" which expression shall where the context so admits includes its successors and permitted assignees of the one part, AND M/s Osaw Agro Industries Pvt. Ltd. and having its registered office at P. O. Bag 5, Agrosaw Complex, Jagadhri Road, Ambala Cantt. (HR)-133 001 hereinafter called CONTRACTING PARTY which expression shall where the context so admits includes its successors and permitted assignees of the other part.

- 1 -



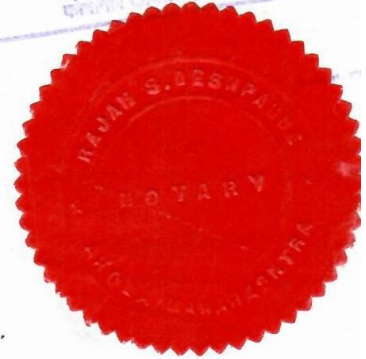




महाराष्ट्र MAHARASHTRA

2017

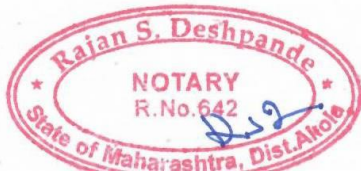
RX 299050



## AGREEMENT

### 1.1 THE AGREEMENT

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- 1 -









Topic \_\_\_\_\_

Trisigle





महाराष्ट्र MAHARASHTRA

© 2017 ©

SX 133237

प्रतिज्ञापत्रासाठी (अनुच्छेद-४)

प्रतिज्ञापत्र कोणाकडे सादर करावयाचे

प्रतिज्ञापत्रासाठीचे कारण

मुद्रांक देण्यासाठीचे संत

हस्ते

मुद्रांक पिडी राखणारी नोंदवही अनु.क्र.

मुद्रांक विकत घेणाऱ्याची सहा -

उप कोषागार कार्यालय  
शेवगाव

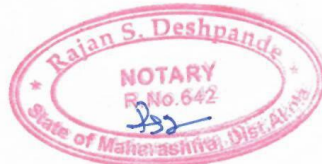
14 MAY 2010

वसंत कान्ते मुद्रांक  
शेवगाव, परवाना क्र. ४/११९६

## AGREEMENT

### 1.1 THE AGREEMENT

1.1.1 THIS AGREEMENT made and entered at Akola on 16<sup>th</sup> day of May, 1983, thousand eighteen between Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, (M.S.), a State Agricultural University registered under Maharashtra Agricultural University Act 1983, having its registered office at Krishi Nagar, Akola-444104 hereinafter called, "UNIVERSITY" which expression shall where the context so admits includes its successors and permitted assignees of the one part, AND M/s Dnyaneshwari Dal Mill and having its registered office at Near Market Yard, Pathardi Road, Shevgaon, Dist. Ahmadnagar - 414 502 hereinafter called CONTRACTING PARTY which expression shall where the context so admits includes its successors and permitted assignees of the other part.







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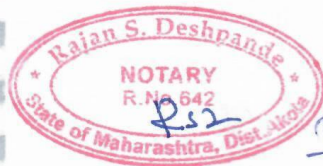
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## AGREEMENT

### 1.1 THE AGREEMENT

1.1.1 THIS AGREEMENT made and entered at Akola on 25<sup>th</sup> day of July, Two thousand eighteen between Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, (M.S.), a State Agricultural University registered under Maharashtra Agricultural University Act 1983, having its registered office at Krishi Nagar, Akola-444104 hereinafter called, "UNIVERSITY" which expression shall where the context so admits includes its successors and permitted assignees of the one part, AND M/s. Shri Jalaram Engineering Works and having its registered office at MIDC, Plot No. D-5, Phase II (Shivani), Akola – 444 104 hereinafter called **CONTRACTING PARTY** which expression shall where the context so admits includes its successors and permitted assignees of the other part.



- 1 -

V. A. Deshpande

Dt. of MOU - 01 March, 2018

MEMORANDUM OF UNDERSTANDING

Between

**DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH  
AKOLA**

And

**UNITED PHOSPHOROUS LIMITED, MUMBAI**

MEMORANDUM OF UNDERSTANDING

Between

**DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH (DR. PDKV), AKOLA**

And

**UPL Limited, MUMBAI**

**Mechanized Spray System of Pesticides/ Adarsh Farm Service (UPL)**

Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola - 444 104 represented by its Registrar at Akola herein after referred to as "Dr. PDKV", which expression shall, unless it be repugnant to the subject or context thereof, include its successors and permitted assignees, of the ONE PART.

UPL Limited, having its office at UPL House, 610 B/2, Bandra Village Off Western Express Highway Bandra- East, Mumbai 400051, India (hereinafter referred to as "UPL" which expression shall, where the contexts so admits, includes its parents, successors and permitted assigns) of the other part.

**Objective:**

1. To spread awareness amongst farmers, farm labourers, general public and health officials regarding safe method of spraying and using various crop protection products
2. To popularize mechanical spray system to reduce human contact to spray drift
3. To transfer the technology in complete schedule of control of pest/diseases i.e. system of Integrated Pest Management (IPM)

**NOW HERewith THE PARTIES MUTUALLY AGREE TO UNDERTAKE ACTIVITIES BELOW**

**1. ACTIVITIES:**

- 1.1. **Dr. PDKV** and **UPL** have principally agreed to provide training programme to the extension workers for state department of agriculture and innovative/early adopter farmers and rural youths on mechanical spray system and schedule of control of diseases, pest i. e. IPM
- 1.2. **Dr. PDKV** and **UPL** have principally agreed to organize demonstrations on complete mechanized spray system.
- 1.3. To organize demonstrations on complete schedule of control of pest and diseases i.e. IPM on major crops i.e. Cotton, Soybean and Tur in Kharif and Gram in Rabi season.
- 1.4. **Dr. PDKV** and **UPL** intend to work in collaboration for dissemination of technical



information/technologies. Both parties are willing to co-operate for meeting the objectives.

- 1.5. **Dr. PDKV** and **UPL** shall undertake activities for the removal of various misconceptions prevalent in the general public on the safe usage of agrochemicals.
- 1.6. **Dr. PDKV** and **UPL** shall fight against the arbitrary decisions related to the use or disuse of any agrochemicals which are not based on scientific evidence.
- 1.7. Both parties are willing to co-operate for meeting the objectives.
- 1.8. As per the terms of this MoU, **Dr. PDKV** and **UPL** intend to work together at various locations/ selected villages of Vidarbha region in general and Yavatmal district in particular. **Dr. PDKV** shall, provide training and necessary demonstrations on mechanical spray system and control of diseases and pest i.e. IPM on major crops i.e. cotton, soybean and tur in Kharif and gram in Rabi season for dissemination with the help of the Programme Coordinator of Krishi Vigyan Kendra's of **Dr. PDKV** situated in a particular district. **Dr. PDKV** shall provide the necessary infrastructure to achieve the objectives of this MOU and **UPL** knowledge and funding support to **Dr. PDKV**
- 1.9. **Dr. PDKV** will time to time provide the budget to **UPL** needed for organization of training / demonstrations and **UPL** shall, provide all financial assistance to **Dr. PDKV** for organization of training / demonstrations. **Dr. PDKV** shall provide details of the breakup of the cost to be incurred to **UPL** for its approval. **Dr. PDKV** shall incur only those costs and expenses which have been approved by **UPL** in writing. **UPL** shall be liable to reimburse all costs and expenses which are incurred after taking prior approval from **UPL** and for which relevant supporting documents evidences the expenses have been submitted by **Dr. PDKV**.
- 1.10. If **UPL** invites **Dr. PDKV** resource person for **UPL** programmes, **UPL** will take care of honorarium, travel, boarding and accommodation (if necessary) arrangements for **Dr. PDKV** Resource Person.

## **2. Non-Exclusive Agreement:**

- 2.1 **UPL** Programme will acknowledge by **Dr. PDKV** while disseminating the information provided by **Dr. PDKV** to the extension workers / farmers wherever relevant and vice-versa in the selected area of operation.
- 2.2 **UPL** may periodically provide feedback from farmers extension workers / farmers to **Dr. PDKV** and vice-versa

**3. EFFECTIVE DATE / EXTENSION / TERMINATION OF MOU**

This MoU shall take effect on the date the last authorized signatory affixes his / her signature, and shall remain valid for five (5) years unless sooner terminated when one of the parties notifies the other in writing of its intention to terminate the MOU. In this case, the MoU will terminate three months from the date of such notification. This MoU may be further renewed or extended upon mutual agreement between the parties, which shall be made not later than six (6) months prior to the termination date.

**4. ASSIGNMENT:**

Neither party shall make any assignment or transfer of this MoU or rights referable to or arising from the same, unless otherwise approved by the other party by a written confirmation in advance following information to be furnished by the party desirous of such assignment or transfer, for consideration by the other party not less than 90 days in advance of the desired date for effecting any assignment or transfer. However, UPL may assign or otherwise transfer / his MoU to an affiliate of UPL without the prior written consent of Dr. PDKV. UPL shall ensure to inform Dr. PDKV on any such transfer assignment subsequently.

**5. AGENCY :**

Neither party shall be or is an agent for the other party or is authorized to make any representations or commitments on behalf of the other party. Nothing in this MOU shall be deemed to create a relationship of principles and agent or employer and employee between UPL and Dr. PDKV and Dr. PDKV shall solely responsible in all respects for employment, control and conduct of any and all persons employed by the Dr. PDKV.

**6. CONFIDENTIALITY AND NON-DISCLOSURE :**

The parties mutually agree that all non-public information relating to this MOU will be held in strict confidence and shall not be disclosed to third parties, without the prior written consent of the other party. This provision will not apply to information received from Dr. PDKV for being disseminated by UPL.

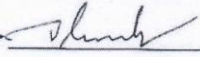
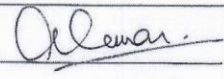
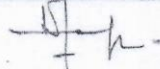
7. The parties agree to be bound by the terms and conditions of this MoU, in witness whereof they have signed this Memorandum of Understanding through their authorized representative.

#### 8. NOTICES:

All notices and other communications required to be served on either party under the terms of this MOU shall be considered to be duly served if it shall have been delivered to, left with or posted by registered mail/e-mail to the other Party as its last known address of business, provided in the name clause here above.

#### 9. GOVERNING LAW AND JURISDICTION:

This MOU shall be governed by the laws of India and the courts in Mumbai shall have the jurisdiction to determine the dispute arising under this MOU.

UPL Limited	
Sign here ▶ 	Sign here ▶ 
Name <u>Sagar Kanshik</u>	Name <u>Dr. Ajit Kumar</u>
Designation <u>Chief operating officer</u>	Designation <u>Global Head - Technical &amp; Development</u>
Dr. PDKV, Akola	
Sign here ▶ _____	
Name <u>Dr. V. M. Bhale</u>	Dr. D.M. Mankar
Designation <u>Vice Chancellor</u>	Director, Extension Education Dr. PDKV, Akola

## ANNEXURE C 8

### Exchange of faculty (Subbatical, Visiting Scientist, Adjunct) during 2018

Sr. No.	Name of the Faculty	Organization
1.	Dr. Aziz Mujtaba Aezum	SKUAST, Kashmir
2.	Dr. J.G. Manjaya	BARC, Mumbai
3.	Dr. Ashok Badginwar	BARC, Mumbai
4.	Dr. S.J. Jambhulkar	BARC, Mumbai



**University Order No. 751 (Est.) of 2018**  
**D a t e d. 19 .09. 2018**

In partial modification to the University Order No. 583 (Est.) of 2018 issued under endorsement No. Adm/AP (Soil)/6444-50 dated 19.07.2018, the date of deputation for undergoing "INSA-Visiting Scientist Fellowship" for a period of 03 months at Department of soil Science, Akola Maharashtra by Dr. Aziz Mujtaba Aezum, Assistant Professor-cum-Junior Scientist(Soil Science), Mountain Research Centre for Field Crops, Khudwani may please read as 1<sup>st</sup> December, 2018 instead of November 1<sup>st</sup>, 2018.

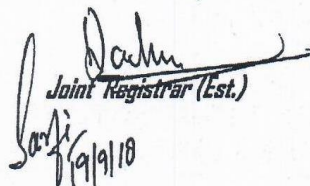
Sd/-  
Registrar

No. AU/Adm/AP (Soil)/9690-93  
Dated. 19 .09. 2018

**Copy to the:**

- ❖ Director Research, SKUAST-K, Shalimar. This has reference to his proposal bearing No. AU/DR/Trg/3822 dated 08.09.2018
- ❖ Associate Director Research, MRCFC, Khudwani
- ❖ Concerned
- ❖ Secretary to Vice-Chancellor, SKUAST-K, Shalimar

Dr Aziz Mujtaba

  
Joint Registrar (Est.)  
19/9/18



## DEPARTMENT OF AGRICULTURAL BOTANY

*Dr. Panjabrao Deshmukhi Krishi Vidyapeeth, Akola (M.S.)*

**Dr. D.V. Durge**  
Ph.D. (Plant Physiology)  
**Head**



Mob. No. 9850296972  
Fax No. 0724-2258239  
Email: [hdagbotany@pdkv.ac.in](mailto:hdagbotany@pdkv.ac.in)

No. HDB/EDN/ 126 /of 2019

Date : 04.06.2019

### CERTIFICATE

This is to certify that **Dr. J. G. Manjaya**, Scientific Officer (Soybean Group) and Head NA & DBT, BARC, Trombay, Mumbai had visited the Department of Agril. Botany as a **Visiting Faculty member** during 1 October to 31 December 2018. He has delivered a lecture for Post Graduate Student (M.Sc.Agril and Ph.D Agri) in their academics and for identifying theme of research in future.

  
Head

Deptt. of Agril. Botany  
Dr. PDKV, Akola

## DEPARTMENT OF AGRICULTURAL BOTANY

*Dr. Panjabrao Deshmukhi Krishi Vidyapeeth, Akola (M.S.)*

**Dr. D.V.Durge**  
Ph.D. (Plant Physiology)  
**Head**



Mob. No. 9850296972  
Fax No. 0724-2258239  
Email: [hdagbotany@pdkv.ac.in](mailto:hdagbotany@pdkv.ac.in)

No. HDB/EDN/ 127 /of 2019

Date : 04.06.2019

### CERTIFICATE

This is to certify that **Dr. Ashok Badginwar**, Principal Scientist, BARC, Mumbai had visited the Department of Agril.Botany as a **Visiting Scientist** during 1 April to 31 December 2018. He has delivered a lecture for Post Graduate Student (M.Sc.Agril and Ph.D Agri) in their academics and for identifying theme of research in future.

  
Head

Deptt. of Agril. Botany  
Dr. PDKV, Akola

**DIRECTORATE OF RESEARCH,  
DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH,  
AKOLA -444 104 (M.S.)**

**Dr. V. K. Kharche**  
**DIRECTOR OF RESEARCH**



Phone - (0) 0724-2258419  
Fax - 0724-2258419  
E-mail - director\_res@pdkv.ac.in

No. DR/TF/259/2019

Date: 04/06/2019

**CERTIFICATR**


This is to certify that Dr. S. J. Jambhulkar Head, MBS, NABTD, BARC, Mumbai is a visiting scientist to this University during 2018. He is involved in release of crop varieties under the collaborative project.

  
**Director of Research**

### ANNEXURE C 9

#### Number of Enterprises/start-ups promoted by the University

SN	Particulars	Details
1	Name of the PG Student	Sawarkar Shubham Diliprao
2	Name of the Firm/Start-up	Krusha Samruddhi Ekatmik Sheti Prashikshan Va Sanshodhan Kendra
3	Address/Location of the start-up	At Post Chitalwadi, Tahsil-Telhara, Dist.-Akola (Maharashtra)
4	Year of start	2018-19
5	Cost incurred	Rs. 3.5 lakh (50% Loan basis)
6	Initial deliverables	Production of agricultural inputs Training Component
7	Details of Production units	Goat Farming unit Vegetable Farming unit Fruit Farming unit Vermicompost Production unit Poultry Farming unit Organic Farming Unit
8	Employability	Technical Officer : 01 (365 days/year) Skilled Labourers : 04 (365 days/year) Unskilled Labourers : 30 (250 days/year) Marketing Officer : 01(365 days/year)
9	Area of execution	Vidarbha region (11 districts of Maharashtra)
10	Future plan of expansion	Maharashtra state (All districts)

  
Head,  
Deptt. of Agronomy  
Dr. P.D.K.V., AKOLA



Name of start-ups/enterprises through Department of Agril. Process Engineering and AICRP on Post harvest Engineering & Technology, Dr. PDKV, Akola (01.01.2018 to 31.12.2018)

Sr. No.	Name	Name of machine
1	Ramrao Kashiram Gawarguru At- Umri, Post- Adsul, Tq- Telhara, Dt- Akola	PKV Mini Dal Mill (5hp)
2	Balkrushna Mahadeo Sardar At- Gopalkhed, Post-Gandhigram, Tq&Dt- Akola	PKV Mini Dal Mill (5hp)
3	Rahul Jankiram Gawai At Post Ramjinagar, Borgaon, Tq &Dt- Akola	PKV Mini Dal Mill (5hp)
4	Vilas Vinayak Barde At Post Wahi, Tq-Murtizapur, Dt-Akola	PKV Mini Dal Mill (5hp)
5	Chaitak Santosh Palaspagar At-Ganori, Post-Dahihanda, Tq&Dt- Akola	PKV Mini Dal Mill (5hp)
6	Siddharth Daulatrao Dhavane At- Wagholi, Post-Dhegaon (DDhande) Tq-Devali, Dt- Wardha	PKV Mini Dal Mill (5hp)
7	Popat Maroti Sonwane At Post- Pimpri (Kurd) Tq- Pandharpur, Dt- Pune	PKV Mini Dal Mill (5hp)
8	Sumit Dasharth Bhusawade At-Kawalgadda, Post- Bahegaon, Tq-Deglur, Dt-Nanded	PKV Mini Dal Mill (5hp)
9	Anusayabai Shyamraoji chandurkar At Post- Anjansing, Tq- Djamangaon Railway, Dt- Amravati	PKV Mini Dal Mill (5hp)
10	Minabai Jalindar Jadhav At- Tandulwadi, Post- Daregaon, Tq- Sindkhedraja, Dt- Buldhana	PKV Mini Dal Mill (5hp)
11	Sangita Suresh Bhojapure, At- Yevada, Tq- Daryapur, Dt- Amravati	PKV Mini Dal Mill (5hp)
12	Dnyaneshwar Vitthal Pawa, At- Balwadi, Post- Harnguel (Khurd) Tq & Dt- Latur	PKV Mini Dal Mill (5hp)
13	Mahesh Machinery, Rahta, Ahmadnagar	PKV Mini Dal Mill (3hp)
14	Anil Bapusa Nilkanth, Manwat	PKV Mini Dal Mill (3hp)
15	Laxmikant Sahoo, Cuttack	PKV Mini Dal Mill (3hp)
16	Sai Sanmukha, Enterprises Dawnaiganda	PKV Mini Dal Mill (3hp)
17	Ramprasad Jaiswal, Varanasi	PKV Mini Dal Mill (3hp)
18	Nilkanth Gaurav, Tulzapur, Solapur	PKV Mini Dal Mill (3hp)
19	Rajani Gawade, Solapur	PKV Mini Dal Mill (3hp)
20	Marotrao Jaiswal, Katol, Nagpur	PKV Mini Dal Mill (3hp)
21	Nagraj Kumbhar, Raichur	PKV Mini Dal Mill (3hp)
22	Rameshbhai Dhanani, Gir Somnath	PKV Mini Dal Mill (3hp)
23	Bharat Engineering, Gulbarga	PKV Mini Dal Mill (3hp)
24	Manikrao Kada, Osmanabad	PKV Mini Dal Mill (3hp)
25	Nilesh Motor, Ahmadnagar	PKV Mini Dal Mill (3hp)
26	Prashant Awchat, Shirur	PKV Mini Dal Mill (3hp)
27	Kanshalya Goundation, Nawada	PKV Mini Dal Mill (3hp)
28	V. Suryanarayan W., Godavar	PKV Mini Dal Mill (3hp)
29	Aask Food Product, Tasgaon Dist. Sangali. Mr. SurendraPatil	PDKV custard apple deseeder
30	Mr. Chetan Wankhade, Amaravati	PDKV custard apple deseeder
31	Mr. Radhamohan Lahoti, Bhandara	PDKV custard apple deseeder
32	Project Director, ATMA, Buldana Name of Beneficiary: Mr. Mohan Jagtap	PDKV custard apple deseeder
33	Project Director, ATMA, Jalna	PDKV custard apple deseeder
34	Mr. Pandilwar, (B. Tech, Food), Udgir	PDKV custard apple deseeder
35	Shiv Malahar Farmers Self-help Group, Kalewadi, TqPurandar, Pune.	PDKV custard apple deseeder
36	Kalawati Farmers Self-help group, Zendewadi, TqPurandar, Pune	PDKV custard apple deseeder
37	Shree Ganesh Farmers Self-help Group, Tq. Purandar, Pune	PDKV custard apple deseeder
38	Shivshambho Farmers Self-help Group, Tq. Purandar, Pune	PDKV custard apple deseeder

  
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No. HD/UCES&EE/SRK/63/2019,

Date : 03 /06/2018

**Certificate**

This is to certify that as per Maharashtra State Innovation Society letter No. MSInS/2018/C.R./Inc/LOI the sanctioned project entitled "PDKV Research and Incubation Foundation" is running under this department for a period of 5 years with total grants of Rs. 500 lakhs.



Head,  
Department of Unconventional Energy  
Sources & Electrical Engineering  
Dr. PDKV, Akola

**ANNEXURE C 10****List of students employed in Public/Private/Banking sector**

Sl No.	Number of student employed in public/private/banking sector	Total number of UG students passed out in 2018	Percentage of
<b>1.</b>	<b>114</b>	<b>476</b>	<b>23.94 %</b>
<b>List of the students employed in public/private/banking sector</b>			
Sl No.	Name of Student	Sector	
1	Ravi Bhimrao Palwe	Banking	
2	Rakesh Shantaram Patil	Banking	
3	Ankushrao S. Akal	Banking	
4	Umesh Devidas Jadhav	Banking	
5	Santosh Rajesh Kubde	Banking	
6	Shubham Dharamdas Bansod	Banking	
7	Samadhan Dhakane	Banking	
8	Mahadeo Dhawale	Banking	
9	Vijay Shinde	Banking	
10	Prashant Bobade	Banking	
11	Ravi Kale	Banking	
12	Gopal Rathod	Banking	
13	Datta Chaugule	Banking	
14	Rupali Bansod	Banking	
15	Ganesh Mahalle	Banking	
16	Sumant Khule	Banking	
17	Akshay Deshmukh	Banking	
18	Sunil Toradmal	Banking	
19	Dnyaneshwar Phalake	Banking	
20	Gajanan Sahane	Banking	
21	Akshay Shirbhate	Banking	
22	Mahesh Kakade	Banking	
23	Satish Gaikwad	Banking	
24	Pawan Sawale	Banking	
25	Nitin Deshmukh	Banking	
26	Pratik Sable	Banking	
27	Praful Sudhakar Bagadkar	Private	
28	Avinash Ravindra Gadekar	Private	
29	Sachin Kallemwar	Private	
30	Gaurav Manikrao Nevhal	Private	
31	Ajay Mahadev Tayade	Private	
32	Ram Ashok Nagarkar	Private	
33	Akshay Shadeorao Paighan	Private	
34	Anup Arun Garghate	Private	
35	Snehal Zakte	Private	
36	Suresh Desai	Private	

37	Sampatrao Mane	Private
38	Nitin Gurav	Private
39	Priti Shinde	Private
40	Kanchan Bawankule	Private
41	Pooja Walunj	Private
42	Samir Zade	Private
43	Manoj Vyavhare	Private
44	Mayuri Chavhan	Private
45	Meghal Tayde	Private
46	Neha C. Mhaske	Private
47	Madhuri Bhanudas Gawande	Private
48	Ku. Pallavi Bhandekar	Private
49	Yash Dudhe	Private
50	Amol Punghate	Private
51	Sharad S. Bhure	Private
52	Pravin Gawali	Private
53	Ku. Damini Meshram	Private
54	Shubhangi Kshirsagar Maraskole	Private
55	K.M. Wankhade	Private
56	S.S. Bhure	Private
57	Shubham Anandrao Kakad	Private
58	Manisha Pathod	Private
59	Prafulla Rahangadale	Private
60	Mangesh B. Pandit	Private
61	Sambhaji Patil	Private
62	Arvind Narayan Nagre	Private
63	Amol Sanjay Yewale	Private
64	Akshay Prakash Sawant	Private
65	Swapnil Wankhede	Central Govt.
66	Namdeo G. Dhurve	State Govt.
67	Ku. Dimpal Raut	State Govt.
68	ku. Leena Karangami	State Govt.
69	Amit Thawkar	State Govt.
70	Suraj Kumare	State Govt.
71	Sanjay Wagh	State Govt.
72	Kamlakar Chapale	State Govt.
73	Aditya B. Ghogare	State Govt.
74	Santosh D. Valvi	State Govt.
75	Vikesh S. Madavi	State Govt.
76	Ku. Sweeti G. Hedro	State Govt.
77	Ku. Jyoti Atram	State Govt.
78	Ravindra C. Madavi	State Govt.
79	Snehalkumar M. Gedam	State Govt.
80	ku. Ranjana Chanap	State Govt.
81	Gosu Hichami	State Govt.
82	Girish Tulavi	State Govt.
83	Mamta Mahendra Bhute	State Govt.
84	Komal D. Thorat	State Govt.
85	Dipti Raghunath Dhumale	State Govt.
86	Krishnanand Pralhad Ingle	State Govt.



87	Anand Murlidhar Pal	State Govt.
88	Sanjay G. Meshram	State Govt.
89	Rupesh Chandrashekhar Meshram	State Govt.
90	Dhiraj Parashram Wakode	State Govt.
91	G.A. Kankal	State Govt.
92	Pratiksha Mendhe	State Govt.
93	Akash Ingole	State Govt.
94	Sanjay Meshram	State Govt.
95	Santosh Gade	State Govt.
96	Sushant Shinde	State Govt.
97	Dhiraj Wakode	State Govt.
98	Dattaprasad Bhalerao	Maharashtra State Seed Corporation (MSSC)
99	Santosh Thorat	MSSC
100	Pooja Sarase	MSSC
101	Rupali Deshmukh	MSSC
102	Krushnamurti Rathod	MSSC
103	Prachi Morale	MSSC
104	Rushali Gondchwar	MSSC
105	Ravi Bhoyar	MSSC
106	Amol Indhole	MSSC
107	Akash Wankhade	MSSC
108	Ashwini Amle	State Govt.
109	Manisha Deshmukh Naib	State Govt.
110	Gurvant Pandhare	State Govt.
111	Devdatta Pachpole	State Govt.
112	Pratiksha Medhe	State Govt.
113	Amar Nikam	State Govt.
114	Mahantesh Bagale	State Govt.