

Yearly Status Report - 2019-2020

Part A Data of the Institution				
Name of the head of the Institution	DR ASHOK KUMAR SINGH			
Designation	Director			
Does the Institution function from own campus	Yes			
Phone no/Alternate Phone no.	01125842367			
Mobile no.	9899045037			
Registered Email	director@iari.res.in			
Alternate Email	aks_gene@yahoo.com			
Address	IARI, Pusa Campus			
City/Town	New Delhi			
State/UT	Delhi			
Pincode	110012			

University	Deemed
Type of Institution	Co-education
Location	Urban
Financial Status	central
Name of the IQAC co-ordinator/Director	DR PRAMOD KUMAR
Phone no/Alternate Phone no.	01125842367
Mobile no.	9910633210
Registered Email	incharge_pme@iari.res.in
Alternate Email	pramod_iari@yahoo.co.in
3. Website Address	

Web-link of the AQAR: (Previous Academic Year)	<u>https://www.iari.res.in/</u>
4. Whether Academic Calendar prepared during the year	Yes
if yes,whether it is uploaded in the institutional website: Weblink :	<u>https://www.iari.res.in/index.php?optio</u> <u>n=com_content&view=article&id=633&Itemi</u> <u>d=196</u>

5. Accrediation Details

Cycle	Grade	CGPA	Year of	Vali	dity
			Accrediation	Period From	Period To
1	A+	3.51	2016	16-Sep-2016	15-Sep-2021

6. Date of Establishment of IQAC

11-May-2017

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture							
Item /Title of the quality initiative by IQAC							
Research Advisory Committee Meeting	12-Dec-2019 2	40					
Academic Council Meeting	07-Feb-2019	45					

	1	
Academic Council Meeting	25-Jul-2019 1	37
Academic Council Meeting	14-Nov-2019 1	41
Executive Committee Meeting	26-Sep-2019 1	39
ISO Certification	28-Feb-2020 1	31
IQAC	30-Sep-2019 1	9
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Departmen t/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Division of Agricultural Economics	Center of Advanced Faculty Training (CAFT)	ICAR	1995 9855	851126
Division of Plant Pathology	National Referal Lab for Virus Diagnosis	ICAR	2004 6570	2450000
Division of Plant Pathology	Centre of Advanced Faculty Training (CAFT)	ICAR	1995 9855	674215
Division of Biochemistry	Niche Area of Excellance	ICAR	2019 730	19344000
Division of Soil Science and Agricultural Chemistry	Niche Area of Excellance(Risk Assessment of metals and metalloids in water, soil plant continuum under basmati rice growing areas of Northern India)	ICAR	2019 730	17761000
Division of Agricultural Chemicals	Niche Area of Excellence on Formulation and Analysis Centre (NAEFAC)	ICAR	2019 730	685000
Division of Agricultural Extension	Centre of Advanced Faculty Training (CAFT)	ICAR	1995 9855	922113

	ZTM &BPD Unit, IARI	IP SPECTRA (Intellectual Property Facilitation Center)	Ministry of MSME		2019 730	1050727	
	ZTM &BPD Unit, IARI	Pusa Krishi Incubator as Knowledge partner in RKVY -RAFTAR scheme	Ministry of Agriculture & Farmers Welfare, GoI		2019 730	450000	
	ZTM &BPD Unit, IARI	ABIC	IC	LAR	2019 730	3300000	
		Nc) Files	Uploaded	!!!		
	9. Whether composition of IQAC as per latest Yes NAAC guidelines:						
ι	Jpload latest notificatio	n of formation of IQAC		<u>View</u>	File		
	10. Number of IQAC meetings held during the 6 year : 6						
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website			Yes				
ι	Jpload the minutes of r	neeting and action take	n report	<u>View</u>	<u>File</u>		
11. Whether IQAC received funding from any of the funding agency to support its activities during the year?				No			
1	2. Significant contril	outions made by IQA	C during	the current	year(maximum five	bullets)	
o The academic rules and regulations for the year are delineated in the academic term calendar and is implemented through PG School, Dean, Professors, Board of Studies (BoS)							
		tributions made in Division at Ann				d by the	
а	nd research the	udents to do goo selected MSc/ Ph old Medal present	D studer	nts from (each Division is		
c	The Research pr	ogramme for the	year pre	epared by	the Divisions i	n the Divisional	

o The Research programme for the year prepared by the Divisions in the Divisional Budget and Research Committee (DBRC), it is then implemented by the PIs/ Co-PIs of the projects and is evaluated in the Institute Research Council (IRC I), Institute Research Council (IRC II) and Research Advisory Committee (RAC).

o The Extension activities of the Institute for the year are planned in the Extension Council Meeting

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13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes		
The academic calendar of the year has been prepared and uploaded on website	Accomplished the scheduled activities delineated in the academic calendar in time		
Research programme is prepared for a period of five years and annually revised by DBRC	Accomplished the research activities as per schedule		
The Extension activities of the Institute is planned in the Extension Council meeting	The trainings, on farm demonstrations, farmers visits, Pusa Krishi Mela, etc have been achieved as per plans.		
No Files	Uploaded !!!		
4. Whether AQAR was placed before statutory body ?	Yes		
Name of Statutory Body	Meeting Date		
DG ICAR	12-Dec-2019		
5. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	No		
6. Whether institutional data submitted to AISHE:	Yes		
ear of Submission	2020		
Date of Submission	18-Aug-2020		
7. Does the Institution have Management nformation System ?	Yes		
f yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	PG School, IARI Management System exists for online management of academic activities of students. The system is available to students, faculty members, scientists and administrative staff of PG school. The management system includes, course management, student management, faculty		

eLearning managemen managemen of each a advisory preparat: PPWs and facilitat examinat: final viv system al submissio eoffice f: Services exists to Solutions Payable, Managemen Budget Ma Managemen Informat: Documents Collabora Material Purchase Human Res HR polic: Performan Payroll S Payment, and Incom	nt, administrative management, g and student Research nt system. The student nt system monitors the progress student through constitution of committees, Board of Studies, ion, submission and approval of ORWs. The online system tes conduction of qualifying ion, thesis submission and va voce examination. This lso operates for online on of fees. Besides this, is in place for management of iles. Management of Information Financial Management System o take up Financial Management: s for General ledger, Account Account Receivable, Cash nt, Fixed Assets Management, anagement and grants, Project nt: Scope for Project ion, Costing, Project s, Contract Management and ation of Project documents, Management: Solutions for and Inventory Management, source: Employee information, ies, Leave Management, nce and Appraisal System and System: Salary, GPF, Pension Retirement Benefit Calculation me tax calculation Solutions the ICAR employees.
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	Part B						
CRITERI	ON I – CUR		rs				
1.1 – Curr	iculum Desi	gn and Developmer	nt				
1.1.1 – Pro	ogrammes for	which syllabus revision	on was carrie	ed out durin	g the Academic y	ear	
Name	of Programm	e Programme	e Code	Programm	e Specialization		Date of Revision
	No I	Data Entered/Not	Applica	ble !!!			
			No file	uploaded	1.		
1.1.2 – Pro year	ogrammes/ co	ourses focussed on err	nployability/	entrepreneu	urship/ skill develo	pmer	t during the Academic
	mme with Code	Programme Specialization	Date of In	troduction	Course with Co	ode	Date of Introduction
	Nill	Nill	N	ill	AC 505: Agrochemics regulation quality cont and managem (3L0P)	al , rol	09/07/2010

r			1	
Nill	Nill	Nill	AE 555: Testing and evaluation of agricultural equipment (2L+1P)	09/07/2010
Nill	Nill	Nill	AE 620: GIS and remote sensing for land water resource management (2L+1P)	09/07/2010
Nill	Nill	Nill	AE 657: Computer aided analysis and design of farm machinery (2L+1P)	09/07/2010
Nill	Nill	Nill	AE 656: Machinery systems for precision agriculture (2L+1P)	09/07/2010
Nill	Nill	Nill	AG ECON 530: Agricultural marketing (2L+1P)	09/07/2010
Nill	Nill	Nill	AG ECON 630: Agricultural price analysis (2L+1P)	09/07/2010
Nill	Nill	Nill	AG ECON 641: Institutional and legal environmental for agribusiness (2L+0P)	09/07/2010
Nill	Nill	Nill	AG ECON 532: International trade (3L+0P)	09/07/2010
Nill	Nill	Nill	AG ECON 550: Agricultural development and policy analysis (3L+0P)	09/07/2010
		<u>View File</u>		
.2 – Academic Flexibi	lity			
1.2.1 – New programme	s/courses introduced	I during the Academic y	ear	
	ourse F			

	No file uploaded.					
1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the Jniversity level during the Academic year.						
Name of programmes adopting CBCS	Date of implementation of CBCS/Elective Course System					
MSc(Agriculture)	Nill	22/08/1958				
PhD or DPhil	Nill	22/08/1958				
- Curriculum Enrichment						
3.1 – Value-added courses imparting	transferable and life skills offered dur	ing the year				
Value Added Courses	Date of Introduction	Number of Students Enrolled				
Advances in Breeding for Stress Resistance in Vegetable Crops (VSC611)	18/11/2019	7				
Advances in Vegetable Breeding for Quality and Special Traits (VSC622)	30/03/2020	7				
Algae in Agriculture and Industry (MB605)	30/03/2020	4				
Applications of Microorganisms in Agriculture (MB606)	18/11/2019	3				
Basic Horticulture (VS507)	29/07/2019	5				
Biotechnology for Vegetable Crop Improvement (VSC 601)	29/07/2019	7				
Breeding of Cross Pollinated Vegetable Crops (VSC 513)	18/11/2019	16				
Breeding of Self Pollinated Vegetable Crops (VSC522)	30/03/2020	9				
Hi-tech Vegetable Farming (VSC621)	30/03/2020	7				
Food Microbiology (MB507)	18/11/2019	5				
	<u>View File</u>	·				
.2 – Field Projects / Internships unde	er taken during the year					
Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships				
MSc(Agriculture)	Impact of climate resilient technologies on crop	1				

crop 1 MSc(Agriculture) Econoic of contract farming: A case of potato in Gujarat ; Neelkantappa

	P (20916), MSc (Ag Econ)	
MSc(Agriculture)	Assessing business performance of farmer producer organizations: A case study of Kolhapur; Vishalkumar Suresh Hosamani (20917), MSc (Ag Econ)	1
MSc(Agriculture)	Impact assessment of biofortified varieties of IARI; Ms Geetha ML (20918), MSc (Ag Econ)	1
MSc(Agriculture)	Making agriculture income-centric: A multi stakeholder analysis; Ms Chiatra Ganesha Ternamakki (20928), MSc (Ag Extn)	1
MSc(Agriculture)	Socio-economic assessment of custom hiring centres in Punjab and Western Uttar Pradesh: A multidimensional study; Ms Juhee Agrawal (20929), MSc (Ag Extn)	1
MSc(Agriculture)	Health and nutritional status of rural women in Kurnool district of Andhra Pradesh: A multidimenstional study; Prashant (20930) , MSc (Ag Extn)	1
MSc(Agriculture)	Analysis of best practices and impact of selected ARICs; Pradeep Tippannanavar (20931) , MSc (Ag Extn)	1
MSc(Agriculture)	Contingency planning for climate change adaptation: An analysis of technological feseability, institutional arrangements and adoption ; Chandan Gowda H (20932) , MSc (Ag Extn)	1
MSc(Agriculture)	Status, prospectus and challenges of millets as nutri -health food for enhancing nutritional security in India: Stakeholders'analysis; Bhagirath Das (20933), , MSc (Ag Extn)	1

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4 – Feedback System				
.4.1 – Whether structured feedback received fro	m all the stakeholders.			
Students	Yes			
Teachers	No			
Employers	No			
Alumni	No			
Parents	No			

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

The university has well-defined mechanism to obtain structured feedback from all the stakeholders viz. students, teachers etc, which is then scrupulously processed to derive actionable insights for improving the overall output and impact of the various teaching courses/programmes. To cite an examples at the end of each trimester, the students are provided with the a "Course evaluation proforma" for each course taught in that trimester for their candid and uninhibited feedback about the course. The "Course evaluation proforma" contains objective questions to assess the perception of the students regarding the course design and its implementation. The response of the students is analysed by the Professor of the Division as well as by the competent authorities in the PG School, ICAR-IARI and appropriate actions are taken immediately to fill in the deficiency gaps, if any, highlighted by the students for the further improvement of the course. If there is any shortfall as regard to the method and mode of teaching of any of the course instructors, he/she is personally advised by the Professor of the Discipline to take necessary measures to live up to the expectations of the students. Similarly, the course instructors whose teaching style is appreciated by the students, in the evaluation proformae submitted by them, are acknowledged for their performance at various platforms in order to encourage them to keep up the good work. Every year before the convocation programme, nominations of the consistently topperforming faculty members are invited by the PG School, ICAR-IARI from each Discipline and BEST TEACHER AWARD(S) are decided upon amongst these nominees this award is conferred every year during the convocation programme. Furthermore, Board of Studies in each Discipline is constituted with faculty members from each category, alongwith one students' representative. The meetings of the BOS are regularly convened to deliberate and decide upon various issues concerning teaching programmes. The faculty members and students are encouraged to put forth their genuine concerns and viewpoints for their forwardal to the PG School for further discussion in the four standing committees. The recommendations of the standing committee are discussed and approved, if found suitable, in the Academic Council meetings, which are held at least thrice in a year. The elected representatives of the faculty and students (two each) are also members of Academic Council and can raise their concerns and innovative ideas in the academic council meetings to improve the teaching and learning practices at IARI. The feedback is also obtained from the IARI Alumni during the Alumni dinner organised in the Convocation week celebration. The concerns of common interest are also discussed at Professors' meeting organized at regular intervals by Dean and Joint Director (Edn.) IARI.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

Name of the Programme	Programm Specializat		r of seats ilable		umber of ation received	Students Enrolled
MSc(Agricult re)	tu Nill	192 Nill		192 Nill		191
PhD or DPhi	.l Nill		246 2531		2531	246
		No file	uploaded	1.		
2 – Catering to S	tudent Diversity					
.2.1 – Student - Fu	Il time teacher ratio	o (current year dat	a)			
Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	available in the institution teaching only UG		fulltime teache available in th	e teaching both UC and PG courses
2019	Nill	1369	Ni	11	491	Nill
3 – Teaching - Le	earning Process					•
.3.1 – Percentage o arning resources ef	_		aching with L	earning	Management S	ystems (LMS), E-
Number of Teachers on Roll	Number of teachers using ICT (LMS, e- Resources)	ICT Tools and resources available	Number o enable Classroe	ed	Numberof sma classrooms	rt E-resources and techniques used
491	491	10	32	2	6	12
	<u>View</u>	<u>File of ICT</u>	<u>Tools an</u>	<u>d res</u>	ources	
	<u>View Fil</u>	<u>e of E-resou</u>	rces and	techn:	<u>iques used</u>	
.3.2 – Students me	ntoring system ava	ailable in the institu	ution? Give d	letails. (maximum 500 w	vords)
significant enhance mentoring of the sistakeholders viz. D and faculty men encourage them a institute, various a and culture of programmes are Professor in each students'admiss Research Guides guides take over courses and in t	students starts with Director, Joint Direc nbers etc. All the h and to make them a academic rules and f the institute etc. T organized at the D Discipline, who loo sion, he and HOD s to the students is the role of mentors the constitution of t ns.The advisory Co	Il output and impa orientation progra tors, Associate De igher officials add ware about the fa regulations, expe o enable the stud Divisional level also bks after all the ac guides the studen done within the fi ship of the student heir advisory com	ct of the insti- amme organi ean, MOHR, ress the new cilities availa ctations of the ents to quick b. The IARI hademic affain ts for various rst trimester s allotted to to mittee, which udents help to	itute at i ized at t Libraria Ily admit able in th ne institu Ily adopt nas a un rs of the s acader of their them. H n has m them to	national and inte he Institute level n, medical Office tted students in the interinstitute, past atte from the stud to the new envi- ique system of a division. During mic activities. The admission. After e/she helps ther embers from the	ernational arena. The l, attended by all the er, HODs, Professors this programme to achievements of the lents and rich legacy ironment similar appointment of one g initial one month of the allotment of the this, the Research n in the selection of a major, minor and an of Post Graduate

foreign students but also to make them aware about social and cultural fabric of India. A Hospitality Committee functions under the Chairmanship of the Foreign Students' Adviser to look after the comfort of foreign students. A qualified Medical Officer takes care of health for better efficiency and output The medical service is provided free to students at the dispensary. The PG School, IARI, New Delhi has Standing Committee on Students Problems Discipline, Welfare, Board and Residences which considers Complaints/Grievance of students, if any.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
1369	491	1:3

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
572	491	81	9	421

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2019	Dr. Neera Singh	Professor	Best Teacher Award in Agricultural Highe Education, ICAR- IARI, New Delhi
2019	Dr. Aditi Kundu	Assistant Professor	Outstanding wome scientist award, Society of Pesticide Science India
2019	Dr Indu Chopra	Associate Professor	Best Poster Award, Society of Pesticide Science India/ IARI
2019	Dr Indu Chopra	Associate Professor	4th Prize in Hindi power point presentation, IAR
2019	Dr Indu Chopra	Associate Professor	3rd prize in Hindi Anuvad Pratiyogita, IARI
2019	Dr. Neethu Narayanan	Assistant Professor	Best oral presentation award Symposium
2019	Dr. Parshant Kaushik	Assistant Professor	Best Poster Award, Symposium
2019	Dr. Priya Saini	Assistant Professor	Best oral presentation award Agricultural Environmental Technology Development

							Soci	ety, U.S. Nagar
2019	Dr	Dr. Abhishek Mandal Dr. Girish K Jha			ssocia fesso:		Awa	Coung Scientist ard, Society of ticide Science, India
2019	Dr.			Pr	ofess	or	Glol Nitr and Glo (GCR Nit: Pack Cold	Attended the unch of the UN bal Campaign on Sustainable cogen Management the UK Research nd Innovation obal Challenges Research Fund RF), South Asian rogen Hub Work- cage Meetings in ombo, Sri Lanka uring October 23-26, 20
			View	<i>r</i> File				
5 – Evaluation Proc	ess and Refo	rms						
2.5.1 – Number of days	from the date	of semester	r-end/ ye	ar- end exa	aminatio	n till the d	leclara	ation of results during
2.5.1 – Number of days ne year	from the date	of semester	r-end/ ye	ear- end exa	aminatio	n till the d	leclara	ation of results during
	from the date of Programme		r-end/ ye		Last da semes	n till the d ate of the ter-end/ y examination	last rear-	-
ne year		Code	Semeste		Last da semest end e	ate of the ter-end/ y	last rear- on	Date of declaration of results of semester- end/ year- end
Programme Name MSc(Agricultu	Programme	Code	Semest	er/ year	Last da semesi end e	ate of the ter-end/ y examination	last rear- on 19	Date of declaration of results of semester- end/ year- end examination
Programme Name MSc(Agricultu re) MSc(Agricultu	Programme Nill	Code	Semest	er/year ster-II	Last da semesi end e 23	ate of the ter-end/ y examination 3/03/20	last /ear- on 19	Date of declaration of results of semester- end/ year- end examination 30/03/2019
Programme Name MSc(Agricultu re) MSc(Agricultu re) MSc(Agricultu	Programme Nill Nill	Code	Semesta Trimes Trimes	er/year ster-II ster-III	Last da semesi end e 23 13	ate of the ter-end/ y examination 3/03/20: 3/07/20:	last rear- on 19 19	Date of declaration of results of semester- end/ year- end examination 30/03/2019 20/07/2019
Programme Name MSc(Agricultu re) MSc(Agricultu re) MSc(Agricultu re)	Programme Nill Nill Nill	Code	Semesta Trimes Trimes Trimes	er/year ster-II ster-III ester-I	Last da semesi end e 23 13 16	ate of the ter-end/ y examination 3/03/201 3/07/201 5/11/201	last rear- on 19 19 19	Date of declaration of results of semester- end/ year- end examination 30/03/2019 20/07/2019 23/11/2019
Programme Name MSc(Agricultu re) MSc(Agricultu re) MSc(Agricultu re) PhD or DPhil	Programme o Nill Nill Nill Nill	Code	Semeste Trimes Trimes Trimes Trimes	er/year ster-II ster-III ster-I ster-II	Last da semesi end e 23 13 16 23 13	ate of the ter-end/ y examination 3/03/201 5/11/201 3/03/201	last rear- on 19 19 19 19	Date of declaration of results of semester- end/ year- end examination 30/03/2019 20/07/2019 23/11/2019 30/03/2019
Programme Name MSc(Agricultu re) MSc(Agricultu re) MSc(Agricultu re) PhD or DPhil PhD or DPhil	Programme of Nill Nill Nill Nill Nill	Code	Semesta Trimes Trimes Trimes Trimes Trimes	er/year ster-II ster-III ster-II ster-II	Last da semesi end e 23 13 16 23 13 16	ate of the ter-end/ y examination 3/03/201 3/07/201 3/03/201 3/07/201	last rear- on 19 19 19 19	Date of declaration of results of semester- end/ year- end examination 30/03/2019 20/07/2019 23/11/2019 30/03/2019 20/07/2019
Programme Name MSc(Agricultu re) MSc(Agricultu re) MSc(Agricultu re) PhD or DPhil PhD or DPhil	Programme of Nill Nill Nill Nill Nill Nill	Code	Semesto Trimes Trimes Trimes Trimes Trimes o file	er/year ster-II ster-III ster-III ster-III ster-III ster-III uploaded	Last da semesi end e 23 13 16 23 13 16	ate of the ter-end/ y examination 3/03/201 3/07/201 3/03/201 3/03/201 3/07/201 3/07/201	last rear- on 19 19 19 19 19 19	Date of declaration of results of semester- end/ year- end examination 30/03/2019 20/07/2019 23/11/2019 20/07/2019 23/11/2019
Programme Name MSc(Agricultu re) MSc(Agricultu re) MSc(Agricultu re) PhD or DPhil PhD or DPhil PhD or DPhil PhD or DPhil 2.5.2 - Average percen	Programme of Nill Nill Nill Nill Nill Nill Nill Nill	Code	Semesta Trimes Trimes Trimes Trimes S/grievar	er/year ster-II ster-III ster-III ster-III ster-III ster-III uploaded	Last da semesi end e 23 13 16 23 13 16 1.	ate of the ter-end/ y examination 3/03/201 3/07/201 3/03/201 3/03/201 3/07/201 3/07/201	last rear- on 19 19 19 19 19 19 19 t total	Date of declaration of results of semester- end/ year- end examination 30/03/2019 20/07/2019 23/11/2019 20/07/2019 23/11/2019

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

http://pgs.iasri.res.in/pgs_main.asp

2.6.2 - Pass percentage of students

Programme Code Nill	Programme Name MSc(Agricu lture)	Spec	gramme ialization	Numbe studen appeared final ye examina 15	its in the ear ition	Number of students passed in final year examination 153	Pass Percentage
Nill	PhD or DPhil		Nill	89	9	89	100
I			No file	uploaded	l.		
2.7 – Student Satis	sfaction Survey						
2.7.1 – Student Sati questionnaire) (resul					ormance	e (Institution may	design the
	<u>http.</u> <u>News/Resu</u>			res.in/f. on%20resp			
CRITERION III – I	RESEARCH, INI			ID EXTEN	SION		
3.1 – Promotion of	Research and Fa	acilities	5				
3.1.1 – Teachers aw	varded National/Inte	ernation	al fellowshi	p for advan	ced stud	lies/ research du	ring the year
Туре	Name of the te awarded th fellowship	ne	Name of t	he award	Dat	e of award	Awarding agency
National	Team Bras (Drs. D. Yadava, Su Vasudev, Na Singh, K Prabhu, S Yadav, M Yadav, Rajkumar, Dass, S.C. and Rajen Singh)	K. jata aveen .V. .K. .S. B. Giri dra	Is apprec certif for la variety Mustar	icate' ndmark / `Pusa	Nill		ISGPB
National	Yadava, He Division Seed Scie	Dr. D.K. Yadava, Head, Division of Seed Science and Technology		'NAAS Recognition Award' for Genetic improvement of rapeseed mustard		Nill	NAAS
National	Team -Drs Sivasamy Sanjay Kur Vikas, V.K. Jayapraka T.R. Da	y, mar, ., P. .sh,	Deshmuk Award Outstand erdisci Team Re in Agric	l for ling Int plinary esearch cultural llied			ICAR
National	Dr. K Annapuri		Exce Award i	llence In PGPR		Nill	Asian PGPR Society

		Research		
National	Dr. K. Annapurna	INSA Visiting Scientist-2018, Germany.	Nill	INSA
National	Dr. Aditi Kundu	Outstanding women scientist award	Nill	Society of Pesticide Science, Ind:
National	Dr. Neera Singh	Best Teacher Award in Agricultural Higher Education	Nill	ICAR-IARI, New Delhi
National	Team Brassica (Drs. D.K. Yadava, Sujata, K.V. Prabhu, T. Mohapatra, B. Dass, S.C Giri, S.K. Yadav, A.K. Yadav, Raj Kumar, Raj	ISGPB appreciation certificate' for landmark variety 'Pusa Mustard 25'	Nill	ISGPB
National	Dr. Radha Prasanna	Fellowship of the Academy of Microbiological Sciences (FAMSc).	Nill	Academy of Microbiologic Sciences
National	Dr. (Mrs.) Anuja Gupta,	Fellow of Indian Phytopat hological Society (FPSI)	Nill	Indian Phyt athological Soceity

3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
SRF	1825	DBT
SRF	1825	UGC-CSIR
IARI JUNIOR FELLOWSHIP	730	IARI
IARI Senior Research Fellowship	1095	IARI
ICAR PG SCHOLARSHIP	730	ICAR
ICAR JRF SRF FELLOWSHIP	1095	ICAR
National Fellowship (Scheduled Tribe)	1825	Ministry of Tribal Affairs
National Fellowship (Schedule Cast)	1825	UGC
Maulana Azad National Fellowship	1825	Ministry of Minority Affairs
NET-JRF	1825	UGC

0 Dec	atten (D	<u>View File</u>		
2 – Resource Mobiliza		ch eived from various agencies	industry and other	r organisations
Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	1095	ICAR, AIREA, BARC, DAE, CSIR, DAC, DBT, DRDO, DST, IMD, MoHRD, MSME, NCPAH, NHB, PPVFRA, RKY, SAC, NFSM	33800	Nill
Minor Projects	1095	ICAR, CSIR, DACFW, DBT, DST, MOHRD, NABARD, NFSM, PPVFRA	468	Nill
Industry sponsored Projects	1095	Ajay Bio tech (India) Ltd. Individual consultancy IRRI, Mynmar RK Overseas, M/s Tirupati Cement Products, Mahalanobis National Crop Forecast Centre, Near Krishi Vistar Sadan (MNCFC) Construction Design Services UP Jal Nigam, Noida	64	Nill
Projects sponsored by the University	2555	IARI	500	500
International Projects	1095	ICARDA, GCFSI, UNDP, Bill Milinda Gates Foundation, DWFI, IRRI, Harvest Plus, IFPRI	2241	Nill
Total	Nill	Nill	Nill	7906
		No file uploaded.		
.3 – Innovation Ecosy		Intellectual Property Rights		

Title of workshop/seminar		Name of the	Dept.			Date
Samarth - Workshop	1	ZTM BPD	Unit		11	/02/2019
Samarth - Workshop	2	ZTM BPD	Unit		07	7/05/2019
Samarth - Workshop	3	ZTM BPD	Unit		12	2/09/2019
Samarth - Workshop	4	ZTM BPD	Unit		18	3/11/2019
Pusa Startup Momentur A flagship program und Samarth		ZTM BPD	Unit		12	2/07/2019
Start-upto Corporate	1	ZTM BPD	Unit		14	Ł/03/2019
ARISE		ZTM BPD	Unit		13	3/05/2019
Start-up-Farmer Dialogue		ZTM BPD	Unit		29	9/05/2019
Start-upto Corporate	2	ZTM BPD	Unit		30)/05/2019
Technology innovatio Day	on	ZTM BPD	Unit		30/08/2019	
Intellectual Propert Rights Business for SM and Startups	-	ZTM BPD	Unit		04/09/2019	
Valorization of Horticultural and Arab Crops	le	ZTM BPD	Unit		02/12/2019	
ADP on Integrated Approach for Diagnosti and #Management of Inse Pest, Vectors and Natur Enemy	.cs ect	ZTM BPD	Unit		20/01/2020	
Maitri: Indo-Brazi Agri tech Cross Borde Incubation program 201	r	ZTM BPD	Unit		Nill	
	<u> </u>	<u>View F</u>	<u>ile</u>			
3.3.2 – Awards for Innovation wor	א by Institutio	n/Teachers/Re	search s	cholars,	/Students durin	g the year
Title of the innovation Name o	f Awardee	Awarding Ag	aency	Date	e of award	Category
	NEER ENTURES	IITKhara			Nill	Most Innovative product award

				product award at Empressario
Hydrology sensor and IoT	NEER AGRIVENTURES	Brigham Young University (Utah, USA)2019	Nill	Global Finalist at International business model competition
A STUDY ON MARKET INTEGRATION AND PRICE FORECASTING OF MAJOR VEGETABLES IN	Nandini Saha (11380)	ICAR-IARI	14/02/2020	IARI merit award for MSc 58th convocation of IARI HELD DURING Feb 10-14, 2020

MODELLING EV	A Koushik	Bag,	ICAR	-TART	14/	/02/2020	TAR	I Merit
POTRANSPIRATIO AND WATER PRODUCTIVITY OF WHEAT UNDER TILLAGE, RESIDUE AND NITROGEN MANAGEMENT	20936	- · ·	1011			02,2020		edal
DEVELOPMENT	Jitend		IC	CAR		Nill		aharlal
OF INDIGENOUS SENSOR NETWORK BASED IRRIGATION SYSTEM FOR IMPROVING AGRICULTURAL WATER PRODUCTIVITY	Kumar P	hD					Outs	Award fo canding al Thesi
STUDIES ON	Prem Ku	mar		lian		Nill		AE TAFE
DESIGN PARAMETERS OF UREA AMMONIUM NITRATE (UAN) APPLICATOR SYSTEM	Sundaram,	PhD	Societ Agricul Engine	ltural	al		Gold	medal
Grading up o: Bengal Goats by conserving semen for artificial insemination		care	Inc Chambe Comme			Nill	Pad Ag	StartUp riculture vard
Precision in irrigation management	AgSmar Technolog Pvt Ltd	jies	N	ill		Nill	in Hi Inno	startup; malayan vation Llenge
Precision in irrigation management	AgSmar Technolog Pvt. Lto	jies	IIM Ah	medabad		Nill	the12; to be Inno	ne of startups part of vation ground
Post-Harvest Food Technology Value addition	Foods Priv	vate	Minis MS1	try of Æ		Nill	Minis MSM Exceli	rded by stry of E for lence in ducts
				File	<u> </u>			
3.3.3 – No. of Incubat			-					
Incubation Center	Name	Spons	sered By	Name of Start-u		Nature of Sta up		Date of mencement
PUSA	PUSA	ICAR	R, RKVY-	Imago	D-AI	A.I.enab	le	Nill

BPD UNIT)	BPD UNIT)	DST		quality decision system	
PUSA KRISHI (ZTM BPD UNIT)	PUSA KRISHI (ZTM BPD UNIT)	ICAR, RKVY- RAFTAAR and DST	FASAL	AI-powered SaaS platform to provide farm level, crop specific and crop-stage s pecification able intelligence	Nill
PUSA KRISHI (ZTM BPD UNIT)	PUSA KRISHI (ZTM BPD UNIT)	ICAR, RKVY- RAFTAAR and DST	Doodhbhandar	Dairy Management	Nill
PUSA KRISHI (ZTM BPD UNIT)	PUSA KRISHI (ZTM BPD UNIT)	ICAR, RKVY- RAFTAAR and DST	Bonfarmo C aptech(CT)Pv tLtd	A device for precise sugarcane bud cutting	Nill
PUSA KRISHI (ZTM BPD UNIT)	PUSA KRISHI (ZTM BPD UNIT)	ICAR, RKVY- RAFTAAR and DST	Avocare Biotech Centre	Tissue culture of Cordyceps Militaris (Yarsagumba) and its post harvest products	Nill
PUSA KRISHI (ZTM BPD UNIT)	PUSA KRISHI (ZTM BPD UNIT)	ICAR, RKVY- RAFTAAR and DST	Aegipan Animal Biocare Pvt. Ltd.	Grading up of Bengal Goats by conserving semen for artificial insemination	Nill
PUSA KRISHI (ZTM BPD UNIT)	PUSA KRISHI (ZTM BPD UNIT)	ICAR, RKVY- RAFTAAR and DST	BBC Agro Seeds Agro Industries	BBC Straw Seed erisatractor mounted conservation sowing equipment to eliminate the problem of rice straw burning.	Nill
PUSA KRISHI (ZTM BPD UNIT)	PUSA KRISHI (ZTM BPD UNIT)	ICAR, RKVY- RAFTAAR and DST	Delmos Research Pvt. Ltd.	Milk testing kit	Nill
PUSA KRISHI (ZTM BPD UNIT)	PUSA KRISHI (ZTM BPD UNIT)	ICAR, RKVY- RAFTAAR and DST	Dissolved Oxygen Plus	Farm Mecha nization- Sprinkler aerator	Nill

PUSA	PUSA	ICAR, RKVY-	Elicius	Portable	Nill			
KRISHI (ZTM	KRISHI (ZTM	RAFTAAR and	Energy	device to	11111			
BPD UNIT)	BPD UNIT)	DST		determine				
				the quality				
				and ripeness of fruits				
				and				
				vegetables.				
		<u>View</u>	File					
	blications and A							
	rded during the yea							
	me of the Departme		Nur	nber of PhD's Awar	ded			
Agricultural Chemicals Agricultural Economics				3				
	Agricultural Economics Agricultural Engineering			4				
		_		5				
	Agricultural Extension Agricultural Physics			1				
Agri	Agricultural Statistics			5				
	Agronomy			2				
	Bioinformatics			1				
Cor	mputer applica	ation		3				
	Entomology			5				
	Environmental Sciences			1				
Geneti	cs and Plant	-		6				
4 2 – Research P			UGC website during the year					
Туре		Department	Number of Publ		Impact Factor (i			
- 77 -					any)			
Nationa	~	gricultural hemicals	22		Nill			
Nationa	-	gricultural conomics	5		Nill			
Nationa	~	gricultural gineering	19		Nill			
Nationa	-	gricultural xtension	13		Nill			
Nationa	~	gricultural Physics	12		Nill			
Nationa	al	Agronomy	23		Nill			
Nationa	al E	Intomology	5		Nill			
Nationa		enetics and ht Breeding	55		Nill			
Nationa		riculture and ndscaping	17		Nill			

National	Fruits and Horticulture Technology	12	Nill		
	View	File			
3.4.3 – Books and Chapters ir Proceedings per Teacher durir		blished, and papers in Natior	nal/International Conference		
Depart	ment	Number of I	Publication		
Agricultura	l Chemicals	:	14		
Agricultura	l Economics		5		
Agricultural	Engineering	:	11		
Agricultura	l Extension	:	24		
Agro	nomy		60		
Bioche	mistry		3		
Entom	ology	19			
Environment	al Sciences	:	25		
Genetics and 1	Plant Breeding	:	23		
Fruits and Hortic	ultural Technology	3			
	<u>View</u>	File			
3.4.4 - Patents published/awa	rded/applied during the year	ſ			
Patent Details	Patent status	Patent Number	Date of Award		
The 3 polymorphic primers for species- specific detection of begomo virus	Filed	201911051754	13/12/2019		
Natural carrier based anthocyanin formulation for targeted release in git and process thereof	Filed	201911014982	15/04/2019		
Pigeon pea Pod Stripper	Published	313550	31/05/2019		
Heat Stable Anthocyanin Rich Composition and process of its preparation	Published	321722	27/09/2019		
Nanofabrication of phosphorus on kaolin mineral receptacles	Published	316692	24/07/2019		
Digital Soil Test Fertilizer Recommendation (STFR) Meter	Published	330282	27/01/2020		
	No file	uploaded.			

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding sel citation
Antibiot ics biorem ediation: Perspectiv es on its ecotoxicit y and resistance	Kumar, M., Jaiswal, S., Sodhi, K.K., Shree, P., Singh, D.K., Agrawal, P.K., Shukla, P.	Environm ent Intern ational	2019	Nill	ICAR- IARI	164
Climate change impact and adaptation for wheat protein	Asseng, S., Martre, P., Maiorano, A., Rötter, R.P., O'Leary, G.J., Fitz gerald, G.J., Girousse, C., Motzo, R., Giunta, F., Babar, M.A., Reynolds, M.P., Kheir, A.M.S., Thorburn, P.J., Waha, K., Ruane, A.C., Aggarwal, P.K., Ahmed, M., Balkovi?, J., Bass	Global Change Biology	2019	Nill	ICAR- IARI	152
Trace elements in soil-ve getables interface: Translocat ion, bioac	Gupta, N., Yadav, K.K., Kumar, V., Kumar, S., Chadd, R.P.,	Science of the Total Envi ronment	Nill	Nill	ICAR- IARI	135

cumulation , toxicity and amelio ration - A review	Kumar, A.					
Exploita tion of microbial antagonist s for the control of postharves t diseases of fruits: a review	Dukare, A.S., Paul, S., Nambi, V.E., Gupta, R.K., Singh, R., Sharma, K., Vishwa karma, R.K.	Critical Reviews in Food Science and Nutrition	Nill	Nill	ICAR- IARI	122
Role of silicon in mitigation of heavy metal stresses in crop plants	Bhat, J.A., Shivaraj, S.M., Singh, P., Navadagi, D.B., Tripathi, D.K., Dash, P.K., Solanke, A.U., Sonah, H., Deshmukh, R.	Plants	Nill	Nill	ICAR- IARI	119
tamination of vegetables and food chain: Role of su stainable remediatio n	Kumar, S., Prasad, S., Yadav, K.K., Shri vastava, M., Gupta, N., Nagar, S., Bach, QV., Kamyab, H., Khan, S.A., Yadav, S., Malav, L.C.	Environm ental Research	Nill	Nill	ICAR- IARI	114
A review on biochar modulated soil condition improvemen ts and	Purakaya stha, T.J., Bera, T., Bhaduri, D., Sarkar,	Chemosph ere	Nill	Nill	ICAR- IARI	109

1	I _	, ,				I
nutrient dynamics concerning crop yields: Pathways to climate change mitigation and global food security	B., Mandal, S., Wade, P., Kumari, S., Biswas, S., Menon, M., Pathak, H., Tsang, D.C.W.					
Fluoride contaminat ion, health problems and remedi ation methods in Asian grou ndwater: A comprehens ive review	Yadav, K.K., Kumar, S., Pham, Q.B., Gupta, N., Rezania, S., Kamyab, H., Yadav, S., Vymazal, J., Kumar, V., Tri, D.Q., Tala iekhozani, A., Prasad, S., Reece, L.M., Singh, N., Maurya, P.K., Cho, J.	Ecotoxic ology and Environmen tal Safety	Nill	Nill	ICAR- IARI	100
Resequen cing of 429 chickpea accessions from 45 countries provides insights into genome diversity, domesticat ion and agronomic traits	Varshney, R.K., Thudi, M., Roorkiwal, M., He, W., Upadhyaya, H.D., Yang, W., Bajaj, P., Cubry, P., Rathore, A., Jian, J., Doddamani, D., Khan, A.W., Garg, V., Chitikinen i, A., Xu,	Nature Genetics	Nill	Nill	ICAR- IARI	97

	D., Gaur, P.M., Singh, N.P., Chat urvedi, S.K., Nadigatla, G.V.P.R., Kr					
Soil organic carbon dynamics: Impact of land use changes and management practices: A review	Ramesh, T., Bolan, N.S., Kirkham, M.B., Wije sekara, H., Kanchi kerimath, M., Srinivasa Rao, C., Sandeep, S., Rinklebe, J., Ok, Y.S., Choudhury, B.U., Wang, H., Tang, C., Wang, X., Song, Z., Freeman II, O.W.	Advances in Agronomy	NIL	NIL	ICAR- IARI	89
46-b-Index o	f the Institutiona	Publications du	<u>View File</u>	used on Scopus/	Web of science	<u> </u>
Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Antibiot ics biorem ediation: Perspectiv es on its ecotoxicit y and resistance	Kumar, M., Jaiswal, S., Sodhi, K.K., Shree, P., Singh, D.K., Agrawal, P.K., Shukla, P.	Environm ent Intern ational	2019	33	164	ICAR- IARI
Climate change impact and adaptation for wheat	Asseng, S., Martre, P., Maiorano,	Global Change Biology	2019	33	152	ICAR- IARI

ter, P., eary, Fitz ald, J., usse,	rotein A., Rötter, R.P., O'Leary, G.J., Fitz gerald, G.J., Girousse, C., Motzo, R., Giunta, F., Babar, M.A., Reynolds, M.P., Kheir, A.M.S., Thorburn, P.J., Waha, K., Ruane, A.C., Aggarwal, P.K., Ahmed, M., Balkovi?, J., Bass Trace ements N., Yadav, of the soil-ve K.K., Total Envi roment Kuan, V., Balkovi?, J., Bass	Rötter, R.P., O'Leary, G.J., Fitz gerald, G.J., Girousse, C., Motzo, R., Giunta, F., Babar, M.A., Reynolds, M.P., Kheir, A.M.S., Thorburn, P.J., Waha, K., Ruane, A.C., Aggarwal, P.K., Almed, M., Balkovi?, J., Bass201933135ICAR-
hta, aabar, A., olds, P., sir, .S., burn, J., , K., ne, C., rwal, K., I, M., ovi?, Bass Science 2019 33 135 ICAR- IARI K., Total Envi	erface: Kumar, S.,	erface: Kumar, S., Chadd, Dioac R.P., Kumar, A. Dxicity amelio .on - A eview Tploita Dukare, Critical Dukare, Reviews in robial Paul, S., Science Munar, A. Pod Science

in crop plants	D.B., Tripathi, D.K., Dash, P.K., Solanke, A.U., Sonah, H., Deshmukh, R.					
tamination of	Kumar, S., Prasad, S., Yadav, K.K., Shri vastava, M., Gupta, N., Nagar, S., Bach, QV., Kamyab, H., Khan, S.A., Yadav, S., Malav, L.C.	Environm ental Research	2019	33	114	ICAR- IARI
A review on biochar modulated soil condition improvemen ts and nutrient dynamics concerning crop yields: Pathways to climate change mitigation and global food security	<pre>Purakaya stha, T.J., Bera, T., Bhaduri, D., Sarkar, B., Mandal, S., Wade, P., Kumari, S., Biswas, S., Menon, M., Pathak, H., Tsang, D.C.W.</pre>	Chemosph ere	2019	33	109	ICAR- IARI
Fluoride contaminat ion, health problems and remedi ation methods in Asian grou ndwater: A comprehens ive review	Kamyab,	Ecotoxic ology and Environmen tal Safety	2019	33	100	ICAR- IARI

	J., Kumar, V., Tri, D.Q., Tala iekhozani, A., Prasad, S., Reece, L.M., Singh, N., Maurya, P.K., Cho, J.					
Resequen cing of 429 chickpea accessions from 45 countries provides insights into genome diversity, domesticat ion and agronomic traits	Varshney, R.K., Thudi, M., Roorkiwal, M., He, W., Upadhyaya, H.D., Yang, W., Bajaj, P., Cubry, P., Rathore, A., Jian, J., Doddamani, D., Khan, A.W., Garg, V., Chitikinen i, A., Xu, D., Gaur, P.M., Singh, N.P., Chat urvedi, S.K., Nadigatla, G.V.P.R., Kr	Nature Genetics	2019	33	97	ICAR- IARI
Soil organic carbon dynamics: Impact of land use changes and management practices: A review	Ramesh, T., Bolan, N.S., Kirkham, M.B., Wije sekara, H., Kanchi kerimath, M., Srinivasa Rao, C., Sandeep, S., Rinklebe, J., Ok,	Advances in Agronomy	2019	33	89	ICAR- IARI

Chou B. Wang Tang Wang Song Fre	S., dhury, U., J, H., J, C., J, X., J, Z., eeman O.W.	View	<u>v File</u>			
3.4.7 – Faculty participa	tion in Seminars/Conf	erences and	d Symposia	during the year		
Number of Faculty	International	Nati	onal	State		Local
Attended/Semi nars/Workshops	124	2	296	6		34
Presented papers	104	1	L97	2		11
Resource persons	63	1	L26	16		37
		No file	uploaded	l.		
3.5 – Consultancy 3.5.1 – Revenue genera	ated from Consultancy	during the y	(00r			
Name of the Consulta		Name of consultancy		Consulting/Sponsoring		enue generated
department		project		gency	(am	ount in rupees)
Dr. Arun Kuma M.B., Principa Scientist, Divis of SST	l at Myanma ion improvement	IRRI consultant at Myanmar for improvement of seed system.		Individual consultancy IRRI, Philippines		351624
Dr. Pramod Kum Principal Scientist, Divis of Agril. Econom	Forecas ion Agricultura	ting l Output bace, logy and ased (FASAL)	Near Krishi Vistar nd Sadan (MNCFC)			498000
Dr. Ravinder K Principal Scient WTC	ist Technology Wastewa Treatment H for Resid Boarding Jawahar Na Vidyalay Rasulpur,	v based ater Facility ential School avodaya va at Palwal,	Project Manager, Unit-12, Construction Design Services, UP Jal Nigam, Noida		283000	
Dr. Mandira Barman, Scientist, Division of SSAC and Mining Lim on Soil Health Plant		m and ompounds Limited alth and	and Mini	d Minerals ng Limited, ka, India.		4142688

			1			
Dr. Bhupinde Singh, RSO and Principal Scientist, CESC	l utilizatio yellow gyp;	on of sum in under le	TATA Steel Limited			24745682
Dr. D.S. Gurjar, Sr. Scientist, WTC Wegetation with 10 km radius of plant due to fly ash generated and Primary and Secondary Pollutants on Crop around NTPC-Kudgi".		NT	PC-Kudgi		4137943	
Dr. Ashwani Kumar, Sr. Scientist, IAR Regional Statio Karnal-PI Dr. An Gupta-CoPI Dr. R Yadav-Co-PI Dr V.K. Pandita-Co-	`Azomax' I `Ecomax G n, Enhancemen uja Yield in W .N. (Two seas . trials	x G' for ement of .n Wheat" seasons			552174	
Dr. Ravinder K Principal Scient WTC	ist IARI Techn based Eco-f: Wastewa Treatment fa for RK Ove site in G	IARI Technology based Eco-friendly Wastewater Treatment facility for RK Overseas site in Ghilot Industrial Area,		RK Overseas, 6/9 Kirti Nagar Industrial Area, new Delhi		590000
Dr. Ravinder Kaur Desig Principal Scientist WTC Eco-fr for Com polish: the Creat Wate Sector STP und		based Cement Pr ly STP C-60, Con ction of Centre, Ja		Tirupati Products, Community Janakpuri, lhi-110058		998280
			uploaded			
3.5.2 – Revenue genera	ted from Corporate Tra	aining by th	e institution	during the year		
		Agency s trair	-	Revenue genera (amount in rupe		Number of trainees
Department of Seed Science and Technology	Seed Production, processing, testing and storage in	NSC Del	, New Lhi	223000		25

	Field and Vegetable crops (Rabi) March 12-16, 2019.				
CATAT, IARI, New Delhi	Improved agricultural practices post- harvest management, 10-16th October, 2019	ATMA,	Ajmer	19850	30
CATAT, IARI, New Delhi	Improved Agricultural Technologies for Higher Income for farmers of North Tripura, 17-21st November, 2019	ATMA Trip	,North ura	16310	25
Division of Floriculture and Landscaping, IARI	MTC Training "Advances in Floriculture and Landscaping" funded by Directorate of Extension, Ministry of Agriculture and Farmers' Welfare, Govt of India 20-27 February 2020	Hort./Agri. State officials of various states		331300	20
Division of Soil Science and Agricultural Chemistry	16th Advanced Level Training on Soil Testing, Plant Analysis and Water Quality Assessment, 25 July - 14August 2019(3 weeks)	Self- sponsored		340000	8
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		-			n industry, community and etc., during the year
Title of the activitie	collaborating	agency	particip ac	r of teachers ated in such ctivities	Number of students participated in such activities
	No Data E				
		No file	uploaded	•	

during the year

luring the year							
Name of the activity	ý	Award/Reco	gnition	Award	ling Bodies	N	umber of students Benefited
For writing book namely KrishiAvshesho se jaivIndhankeliye" Renu Singh, Ranvir Singh, O. P. Singh, Satish Serial Publishing house(ISBN 978-93-86200-85-3)		Union	Affair: In VigyanE	try of Home s Govt. of dia at Bhawan, New Delhi		Nill	
Outstanding Rajbhasha (Hindi)work		Hindi Shield for the Division of Agricultural Extension		IARI, New Delhi			Nill
For training a quality seed distribution	and	Extension award		Agricul	Dept of ture, Govt of UP		Nill
Outstanding wo in Tribal Farmi Systems, 2019	ng	Fakhrudd Ahmed Aw		ICAR, New Delhi			Nill
No file uploaded.							
-			hh Bharat, Aids Aware		Awareness, Gender Issue,		
Swach Bharat Abhiyan		MOHR	Swachata Abhiyan		10		1369
Mera Gaon Mera Gaurav	Mera Gaon Different		Awareness 491 creation about schemes of government of India, latest technologies developed by IARI, etc		491		100
			No file	uploaded	l.		
3.7 – Collaborations 3.7.1 – Number of Colla	borati	ve activities for re	esearch fac	culty exchar	nge, student exch	ande (during the year
				-	-	0 -	Duration
Nature of activityTo attend 14thIUPAC InternationalCongress of CropProtectionChemistry, Belgium		Najam Akhtar Shakil		Source of financial support IUPAC, USA and Organizing Committee, 14th IUPAC International Congress of Crop Protection Chemistry, Ghent, Belgium			6

Belgium

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Presented Country paper on Challenges of Indian Seed Industry in Global	Dr Alka Singh	CAAST-NAHEP, IARI	2
Seed Symposium at Iowa			
Participated in World Food Prize events during at Des Moines, Iowa	Dr Alka Singh	CAAST-NAHEP,IARI	3
Methods of Social Research and Impact Assessment Techniques, Myanmar	Dr R.N.Padaria	ICAR-ACARE program	11
Methods of Social Research and Impact Assessment Techniques, Myanmar	Dr Sudipta Paul	ICAR-ACARE program	11
Teaching faculty to Yezin Agricultural University, Nay Pyi Taw to teach Course on Basic Statistics under India Myanmar - Advanced Centre for Agricultural Research and Education (IM- ACARE) Programme, Myanmar	Dr. Seema Jaggi	DARE	10
Teaching faculty to Yezin Agricultural University, Nay Pyi Taw to teach Course on Basic Statistics under India Myanmar - Advanced Centre for Agricultural Research and Education (IM- ACARE) Programme	Dr. Rajender Parsad	DARE	10
e-Governance Leadership Programme for mission leaders leading to e- Governance projects	Dr. Anil Rai	DARE	9
Expert for imparting classroom and field training to the Govt. of Thailand officials for field testing	Dr. Tauqueer Ahmad	FAO-RAP	7

of guideline measurement harvest and harvest loss cereals, pul fruits vegeta Thailand	of post- es of lses, ables,						
Expert f imparting cla and field tra to the Govt Nepal officia field testin guidelines measurement harvest and harvest loss meat, milk, f vegetables,	ssroom aining . of ls for ng of on c of post- es of truits	r. Tauqueer Ahmad	FAO-RAP		5		
		View	<u>/File</u>				
_	3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year						
Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	o Participant		
Teaching and Research	PG outreach programme	Indian Institute of Horticultura 1 Research, Hessaraghatt a, Lakepost, Bangalore 560089	23/12/2010	31/12/20	021 12		
Teaching and Research	PG outreach programme	CIPHET, Ludhiana, Pu njab-141004	04/12/2010	31/12/20	021 Nill		
Teaching and Research	PG outreach programme	CIAE, Nabi Bagh, Bhopal, Madhya Pradesh, India-462038	10/12/2010	31/12/20)21 14		
Teaching and Research	PG outreach programme	DWR, Karnal, Haryana 132001	12/11/2011	31/12/20	021 Dr RS Chhokar Dr Subhash Chander		
Teaching and Research	PG outreach programme	DSR, Hyderabad	08/10/2014	31/12/20	021 Dr Hari Prasanna Dr IV Patil Dr Sujay		

					Rakshit
Teaching and Research	PG outreach programme	M/s Jain Irrigation Systems Pvt Ltd, Jalgaon, Maharashtra	25/04/2013	31/12/2021	Nill
Teaching and Research	PG outreach programme	Indian Institute of Vegetable Research, JAKHINI, SHA HANSHAPUR, V aranasi-2213 05	20/08/2018	31/12/2021	Dr Nagendra Ra: Dr Rakesh Kumar Dubey
Collaborat ive research work	Development of a plant protection product based on natural extracts and oils derived from karanjin, capsaicin, sesamin and garlic	M/s Seipasa, Valencia, Spain fespin osa@seipasa. com 34 962 541 163 ICAR- IARI, New Delhi	01/06/2017	30/06/2020	From M/s Seipasa, Spain Dr. Maria De Puig Mora Project Manager Mr. Francisco Espinosa Chief Research Officer From IARI, New Delhi Dr. V.S. Rana (PI) Dr. N.A. Shakil (CO-PI)
Collaborat ive research work	Chemical, structural and functional c haracterizat ion of identified anti-tick lead phytoch emicals and optimization of delivery matrix for effective application of natural formulation for the control of acaricide resistant ticks	ICAR- IVARI, Izatnagar CSIR-NBRI, Lucknow ICAR- IARI, New Delhi ICAR- DMAPR, Anand CoVAS, Pookode	01/01/2017	31/12/2020	IVRI, Izatnagar Dr. Srikanta Ghosh, Dr. B.C. Saravanan, Dr. Ravi Kumar, Dr. S. Dey, NBRI, Lucknow Dr. AKS Rawat, Dr. Sharad Srivastav, Dr. M. M. Pandey IARI, New Delhi Dr. Rajesh Kumar, Dr. Suman Gupta DMAPR, Anano Dr. Satyanshu

					Kumar CVAS, Pook	
Indo-US Bilateral Workshop on "Transnation al Research Needs and Applications of Plant Mic robiomes",	For collab oration on Plant Microbiome	College of Agriculture Natural Resources, University of Delaware, US	25/02/2020	27/02/2020	Dr K Annapurna Dr Archna Suman Dr B Ramakrishnan Dr V Govindasamy	
<u>View File</u>						

3.7.3 - MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs			
M/s. Shri Krishna Beej UtpadakSahkari Samiti	08/08/2019	Maize PJHM-1	Nill			
M/s. Patanjali Bio Research Institute Pvt. Ltd.	07/08/2019	PUSA Mustard -31	8			
M/s. Alliance Agri Tech	30/08/2019	HD-3226	34			
M/s. Astha Beej Co. Pvt. Ltd.	30/08/2019	HD-3226	34			
M/s. Brar Seeds Farm	30/08/2019	HD-3226	34			
M/s. Gee Seeds Company	30/08/2019	HD-3226	34			
M/s. Gobind Seeds	30/08/2019	HD-3226	34			
M/s. Golden Seeds Chemicals	30/08/2019	HD-3226	34			
M/s. Harbir Agrotech Pvt. Ltd.	30/08/2019	HD-3226	34			
M/s. Kalra Seed Farm	30/12/2019	HD-3226	34			
	View	v File				
CRITERION IV - INFRAS	TRUCTURE AND LEAR	NING RESOURCES				
1.1 – Physical Facilities						
4.1.1 – Budget allocation, excl	luding salary for infrastructu	re augmentation during the y	ear			
Budget allocated for infrastructure augmentation Budget utilized for infrastructure development						

	Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development				
2008		2008				
	4.1.2 – Details of augmentation in infrastructure facilities during the year					
	Facilities	Existing or Newly Added				

	Campus Area				Existing			
	Class	rooms		Existing				
	Labor	atories		Newly Added				
Classr	ooms wit	h LCD faciliti	es	Newly Added				
Seminar	halls wi	th ICT facili	ties		1	Existing		
Value of the equipment purchased during the year (rs. in lakhs)					Ne	wly Added		
Number of important equipments purchased (Greater than 1-0 lakh) during the current year					Ne	wly Added		
Class	rooms wi	th Wi-Fi OR LA	N		1	Existing		
		N	o file	upload	ed.			
4.2 – Library as	a Learning	Resource						
4.2.1 – Library is	automated {	Integrated Library	Managem	ent Syste	em (ILMS)}			
Name of the softwar	-	Nature of automati or patially)	· •		Version	Year of	automation	
КОН	A	Fully			18x		2012	
4.2.2 – Library Se	ervices					!		
Library Service Type		Existing		Newly	Added	Тс	otal	
Text Books	13548	9 Nill	1	641	8797706	137130	8797706	
Reference Books	3671	Nill	1	.11	994857	3782	994857	
e-Books	358	Nill	1	358	Nill	1716	Nill	
Journals	12971	5 Nill	1	.15	9221360	129830	9221360	
e- Journals	Nill	Nill		7	1670396	7	1670396	
CD & Video	16773	3 Nill	3	50	Nill	17123	Nill	
		N	o file	upload	ed.		•	
Graduate) SWAY	L 4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional Learning Management System (LMS) etc							
Name of the	Teacher	Name of the Mo	odule		n on which modu s developed		launching e- ontent	
		No Data Ent						
		N	o file	upload	ed.			
4.3 – IT Infrastru	cture							
4.3.1 – Technolog	gy Upgradat	ion (overall)						
Type Tota mpu	Il Co Comp Iters La		Browsing centers	Compute Centers		Departme Avail nts Band h (ME	lwidt	

Existin								GBPS)	
g	3500	160	3500	0	120	1390	1830	1	0
Added	100	15	100	0	0	35	50	0	0
Total	3600	175	3600	0	120	1425	1880	1	0
.3.2 – Band	dwidth avail	able of int	ernet connec	ction in the l	nstitution (L	eased line)			
				1 MBP	S/ GBPS				
I.3.3 – Facil	ity for e-cor	ntent							
Nam	e of the e-c	ontent de	velopment fa	cility	Provide t		e videos a cording fac	nd media ce ility	ntre and
			No Data E	ntered/N	ot Appli	cable !!	!		
.4 – Mainte	enance of	Campus	Infrastructu	ıre					
4.4.1 – Expe omponent, e			naintenance	of physical f	acilities and	academic	support fac	cilities, exclu	ding salar
-	ed Budget o nic facilities		xpenditure in intenance of facilitie	academic	-	ed budget o cal facilities		penditure in intenance of facilites	f physical
	360		360	0		1636		163	6
for undertaking this all-important work. The cleanliness in each division of the institute is maintained on daily basis by the permanent skilled supporting staff members along with the contractual staff, specifically hired for the aforementioned purpose, under the guidance and supervision of a designated building in-charge in each division. The construction repair and electrical maintenance work in the institute is undertaken by CPWD. Besides, there is a separate unit viz. Farm, Horticulture and Landscape Operation Service Unit (FHLOSU) in the institute, which not only looks after the day-to-day repair and maintenance of the imported and indigenous machines but also supervises all the landscaping work, maintenance of gardens/lawns of the Institute and its residential areas. Every department maintains a stock register for the available equipments. Proper audit of the stock takes place at the end of every year and reports submitted for future records and references. The maintenance of equipments/instruments housed in different divisions is undertaken by the concerned HOD as per the laid down General Financial Rules (GFR). The annual Maintenance Contract (AMC) of all costly and sensitive instruments/equipments in these divisions is obtained for their uninterrupted and hassle-free use by the beneficiaries. The log book for the use of all the instruments is properly maintained. The IT equipment for providing Internet services throughout the campus is also kept under AMC. The servers and data centre equipments are managed by System Administrator. The LAN maintenance is under the Network Administrator. The website and online application activities are managed by Website administrator. A senior faculty member has been appointed as an In-								porting	
afores buildi maintes separa (FHLOSU) maintena land res availabl year an of equ concers Mainten in thes the ben mainta campu	mentioned ing in-ch nance wo: ate unit in the ince of t lscaping idential e equipm id report ipments/ ned HOD a ance Consi eficiario ined. Th as is als	d purpo arge in rk in t viz. F institu- the imp- work, n areas. areas. s subm instrum as per tract ons is es. The so kept	se, under h each div he instit arm, Hort ute, which orted and maintenand Every de Proper aud itted for ents hous the laid (AMC) of a obtained log book quipment f	the gui vision. The ute is u iculture in not only indigend the of gar partment dit of the future re red in di down Gen all costly for the for the for provi C. The se	ual staf: dance and the const ndertake and Land y looks bus machi dens/law maintain te stock tecords a fferent of eral Fins y and se tr uninte use of a ding Int	f, special d superva- ruction h by CPW dscape O after the nes but ms of the ns of the takes pl and refer division ancial Re- ensitive arrupted all the ernet set d data of	fically ision of repair D. Besic peration de day-t also su also su talso su talso su ck regis ace at ences. s is und ules (GF instrum and has instrume ervices entre e	hired for a design and elect les, there o Service o day rep pervises tute and ster for the end o The maint lertaken 1 FR). The ents/equi sle-free ents is pr throughou quipments	porting r the nated rical e is a Unit oair and all the its the of every cenance by the annual .pments use by roperly it the s are

inviting the requirement of books from various departments which is then processed following the standard procurement procedure. Needless to mention that during the execution of all the purchases, the Government of India (GOI) rules, regulations and guidelines are followed mutatis mutandis.

https://www.iari.res.in/

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 - Scholarships and Financial Support

Financial Support from institution Financial Support rom Other Sources	IARI Scholarship	347	71839200	
a) National	SRF-ICAR, DBT, DST, CSIR, National Fllowship (ST), National Fellowship (sc), Moulana Azad National Fellowship, NET-JRF	90	33048000	
b)International	ICCR General Scholarship Scheme, India-Afghanistan Fellowship Programme III, India Afghan Scholarship Scheme of MEA, Netaji Subhash-ICAR International Fellowship, SAARC Agriculture PhD scholarship programme, India Africa Fellowship Programme III	14	3520320	

coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Agronomy of Rainy Season Crops (AGR 001)	09/07/2010	10	Department of Agronomy
Agronomy of Winter season Crops (AGR 002)	09/07/2010	10	Department of Agronomy
Agronomy of summer season crops (AGR 003)	09/07/2010	11	Department of Agronomy

Soil and Environment (AGR 004)		0	9/07/2010	11		Dej	partment of SSAC
Major Pests of 01 Crops and their Management (AGR 005))9/07/2010			-	partment of tomology	
Crop morph and physiolog 006)		0	9/07/2010	10		Department of Plant Physiology	
Principle Horticultural (AGR 007	Crops	0	9/07/2010	10		-	partment of ticulture
On-farm Edu and Visits differen Institutions 008	to t	0	9/07/2010	10	10		partment of ficultural xtension
Post Harve	Principles of Post Harvest Technology (AGR 009)		9/07/2010	10		Department of Post Harvest Technology	
Genetics and	Elements of Genetics and Plant Breeding (AGR 010)		9/07/2010	10			partment of enetics
			<u>View</u>	<u>rFile</u>			
5.1.3 – Students be nstitution during the	•	guidance	e for competitive exa	aminations and car	eer couns	elling offe	ered by the
Year	Name o schei		Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Numb student have pa the comp	issedin	Number of studentsp placed
2019	Al serv:	RS ice	1369	1369	:	11	11
2019	otl exar	ner ns	1369	1369	!	58	58
			No file	uploaded.			
5.1.4 – Institutional narassment and rag				dressal of student	grievance	s, Preven	tion of sexual
Total grievan	ces receive	ed	Number of grieva	ances redressed	Avg. number of days for grievand redressal		• •
2				2		5	510
5.2 – Student Prog 5.2.1 – Details of ca		emont d	uring the year				
			uning the year		04		
Nameof	On can Numbe	•	Number of	Nameof	Off car	· ·	Number of
· · · · ·							

visited	participated		visited	participated	
	No D		ot Applicable	111	
			uploaded.		
5.2.2 – Student pro		education in percen			
Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2019	44	MSc (Agri)	Agricultural Extension	IARI	PhD
2019	100	MSc (Agri)	Agricultural Physics	IARI	PhD
2019	86	MSc (Agri)	Agricultural Statistics	IARI	PhD
2019	100	MSc (Agri)	Agronomy	IARI	PhD
2019	75	MSc (Hort)	Floriculture & Land Scaping	IARI	PhD
2019	0	MSc (Hort)	Fruit Science	IARI	PhD
2019	67	MSc (Agri)	Entomology	IARI	PhD
2019	100	MSc (Agri)	Agricultural Chemicals	IARI	PhD
2019	67	MSc (Agri)	Agricultural Economics	IARI	PhD
2019	100	MTech	Agricultural Engineering	IARI	PhD
		View	<u>v File</u>		
5.2.3 – Students qu (eg:NET/SET/SLET/				• •	
	Items		Number of students selected/ qualifying		
	NET		41		
	Any Other			69	
			uploaded.		
5.2.4 – Sports and	cultural activities / c	ompetitions organis	sed at the institutior	n level during the ye	ar
Acti	-	Le		Number of F	-
freshers we	organized in	Univers	ity level	1:	369

Annual	cultural meet	Ur	niversity le	vel	75			
Debate ex	Declamation, tempore, essay ting, etc	Ur	iversity le		40			
No file uploaded.								
1 – Number		or outstanding		sports/cultu	iral activities at natio	nal/internation		
Year	A team event should Name of the award/medal	National/ Internaional	s one) Number of awards for Sports	Number awards f Cultura	or number	Name of the student		
2019	First Prize, National Essay Writing	National	Nill	1	21207	Ashish Verma		
2019	First Prize, Skit	National	Nill	1	21220 21212 11192 11389	Shivam Chaubey, Anand Shi ashimpar Aatish Sagar, Dh rmendar, Ajay, Siddhart and Amit		
2019	First Prize, Solo Dance	National	Nill	1	21218	Nagawad Omkar Satish		
2019	Third Prize, Adzap	National	Nill	1	Nill	Dharmer ar, Ajay Siddhart		
2019	First Prize, Painting and Sketching	National	Nill	1	11438	Tanima Das		
2019	Special Prize, Painting and Sketching	National	Nill	1	11211	Sayantan Karmarka		
2019	Third Prize, Sketching	National	Nill	1	21236	Satyan Verma		
2019	Silver Medal, Quiz	National	Nill	1	Nill	Team		
2019	First Prize,	National	1	Nil	1 10940			

	Football					A
2019	Third Prize, Quiz	National	Nill	1		Nandini Saha, Mousumi Pr iyadarshin i and Omprakash
View File						

5.3.2 – Activity of Student Council & amp; representation of students on academic & amp; administrative bodies/committees of the institution (maximum 500 words)

The IARI has an active Students' Union known as Post Graduate School Students' Union (PGSSU), who puts forth major concerns of the students and issues related to them at different fora for their resolution and implementation. The Executive Committee of PGSSU comprises of following elected members: (i) President (ii) Vice President (Girl) (iii) General Secretary (iv) Games and Sports Secretary (v) Finance Secretary (vi) Social Cultural Secretary (vii) The students representative to the Academic Council (viii) Five class representatives (ix) Literary secretary (Girl) (x) Alumni secretary (xi) Career Council and Placement Secretary. The Board of Studies (BOS) in each Discipline also has a students' representative, who actively takes part in the decision making in the matters pertaining to the various academic activities of that particular Discipline. Two student representatives are also appointed as member of the Academic Council in the following manner: 1. The President, PGSSU is an ex-officio student representative in the Academic Council. 2. The second student representative is elected every year by secret ballot by the members of the PGSSU through the same election process adopted for electing the Executive of the Post Graduate School Students' Union. 3. The tenure of the student representative is one year. Furthermore, the President PGSSU elected students' representative are also members of following three Standing Committees: • Standing Committee on Scholarships, Financial Assistance and Academic Progress • Standing Committee on Students Problems and Discipline, Welfare Board and Residences • Standing Committee on Courses, Curricula and academic affairs Students Welfare Fund is maintained in the PG School, IARI. The student welfare fund is granted advance loans to the needy students for special purposes. This fund is administered by a committee known as Students Welfare Committee. The President, PGSSU and Finance Secretary, PGSSU are members in this committee. Furthermore, the students are also kept members in the committees constituted for prevention of sexual harassment and ragging at work place and for promotion of gender sensitization. The students are also members in the various committees constituted for successful organization of various annual events at the institute such as convocation week programme, various award lectures, teachers day celebration, international women's day celebration, Girrl child day celebration, Krishi Vigyan Mela, etc.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

IARI has a registered Alumni Association, which has been created with a primary aim of networking its alumni and developing a sense of community amongst them. Alumni are one of the main stakeholders of the University as they contribute immensely to the functioning and development of the university in multiple dimensions. The institute is utilizing the services of Alumni in various committees like Institute Research Council, Research Advisory Council, Quinquennial Review Team, etc. The Alumni are also being encouraged to join as Adjunct Faculty to strengthen teaching and research activities. The Alumni are

also welcome to serve IARI as National Professor, Eminent Scientist, Eminent Professor, etc. The Alumni also form pool of resources for evaluation of thesis, external examiners of students' theses and for conducting Qualifying Examination. The Alumni serving in various ICAR institutes, SAUs and Private Firms are welcome to take up collaborative or joint research projects. Besides, they are providing mentoring services to the current students of the institute. Through their rich experience they are helping the students to understand the requirements of various industries and educating them to plan and shape their career in right direction. Students also get opportunity to work in the labs of some of the alumni to gain research experience in cutting edge technologies. They are also imparting them first-hand knowledge about the various steps and procedures needed for setting up their own start-ups. During the convocation week celebration of the institute, alumni are invited for the convocation week celebration and they share their memories and experiences during convocation dinner. This helps them to rekindle their old relationships. Alumni Directory is regularly updated to keep the contact alive with all the IARIians.

5.4.2 – No. of registered Alumni:

10257

5.4.3 - Alumni contribution during the year (in Rupees) :

No Data Entered/Not Applicable !!!

5.4.4 – Meetings/activities organized by Alumni Association :

Alumni meet is organized on the day of convocation (14 Feb 2020) and the alumni are invited to participate and give their feedback.

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

The institute follows a professional approach in managing the various academic and administrative activities by way of decentralization and participative management. The Director of the institute gives adequate budgetary allocation of funds to the Joint Directors and Heads of Divisions (HODs) along with the generous freedom and flexibility for their utilization to ensure full, independent and effective discharge of their responsibilities and functions. The HODs are empowered to sanction indents amounting to Rs 1 lakh. Monthly meetings of the HODs are conducted by the Director to review the progress made and to chart out the future course of action. Similarly, at the divisional level a Divisional Budget and Research Committee (DBRC) is constituted by including members from different categories of scientists as well as an Administrative Officer. The Chairman of DBRC is head of the Division. The major issues pertaining to equitable and judicious use of allocated funds as well as strategies for enhancing the impact of the ongoing research activities in the division, new programmes to be undertaken and ways to secure additional funds from external sources are thoroughly discussed in the regular meetings of the DBRC and recommendations sent to the Director, IARI for further approval. For an effective efficient implementation of the academic vision of the institute and for seamless discharge of the Institute's mandate in this regard, Board of

Studies (BOS) is constituted in each division with members from different strata of scientists. The chairperson of BOS is the Professor of the division and it also includes one Students' Representative. All the major decisions for maintaining, nourishing and improving the teaching standards in the division are taken by the BOS under the guidance of Director and Dean of the institute. The Professor of the division is given full freedom to effectively utilize 6.1.2 – Does the institution have a Management Information System (MIS)?

-

Yes							
6.2 – Strategy Development and Deployment	.2 – Strategy Development and Deployment						
6.2.1 - Quality improvement strategies adopted by the ins	stitution for each of the following (with in 100 words each):						
Strategy Type	Details						
Curriculum Development	• Institute follows the course curriculum as recommended by the ICAR- BSMA (Broad Subject Matter Area) committees, which is being implemented in the teaching programme of 26 disciplines. The curriculum is in line with international standards and covers frontier areas of science.						
Teaching and Learning	 Periodic monitoring of the academic progress is done by Dean Joint Director (Edn.) during his/her meetings with the Professors of each teaching discipline. Strict compliance of the academic regulations and calendar time lines are followed right from the admission to convocation ceremony. The PG School has developed PGS online management system for paperless work for academic activities in all the 26 Disciplines. Online submission of all the proposals of students viz., student credentials, attendance, trimester grades, progress report, PPWs, ORWs, qualifying exam and thesis submission proposals, e-thesis etc is done. Frequent visits of Dean and Joint Director (Education) is made in the Divisions and interactions are done with students and faculty. Compulsory meeting of student Advisory Committee at least once during each trimester is done. • External examiners are invited for the Qualifying examination of PhD students Board of Studies meeting in each discipline are held atleast one in each quarter 						
Examination and Evaluation	For Qualifying exam and Thesis viva voce, expert is called from outside IARI and analytical questions are asked. During each trimester, students performance is evaluated based on quizzes, Mind term and Final examination is done. Practical exams						

are conducted separately.

Research and Development	• Identification of research topics is done by the faculty and submitted to
	BOS of Disciplines, six months in
	advance to admission of students. HoD,
	Professors and all the faculty members are involved in deciding the advisory
	committee of students and research
	topics • Allotment of Chairperson is
	based on students merit and their
	preference for thesis research topics.
	Strict monitoring of students research
	progress by advisory Committee,
	presentation before faculty and BOS
	members is done meeting. Modification/
	corrective measures if any in the
	approved research work with the
	permission of the PG school are taken.
	External evaluation of thesis is done. PhD thesis is evaluated by two external
	experts not below the rank of Professor
	M.Sc/ M.Tech thesis is evaluated by one
	external examine. Incorporation of all
	the suggestions/ comments as suggested
	by the external examiners in the final
	version of the thesis is done. For PhD
	students, publication of two research
	papers (one published another
	communicated) in journal with NAAS
	score >5.0 is compulsory.
Library, ICT and Physical	Online journals and books are
Library, ICT and Physical Infrastructure / Instrumentation	subscribed, which are accessible to all
	subscribed, which are accessible to all the students. The internet and intranet
	subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been
	subscribed, which are accessible to all the students. The internet and intranet
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral Laboratory to analyze referred samples</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral Laboratory to analyze referred samples for pesticides. IARI has Scanning</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral Laboratory to analyze referred samples for pesticides. IARI has Scanning Electron Microscope Facility (SEMF) at</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral Laboratory to analyze referred samples for pesticides. IARI has Scanning</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral Laboratory to analyze referred samples for pesticides. IARI has Scanning Electron Microscope Facility (SEMF) at Division of Entomology and Farm</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral Laboratory to analyze referred samples for pesticides. IARI has Scanning Electron Microscope Facility (SEMF) at Division of Entomology and Farm Machinery Testing Centre, Division of</pre>
	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral Laboratory to analyze referred samples for pesticides. IARI has Scanning Electron Microscope Facility (SEMF) at Division of Entomology and Farm Machinery Testing Centre, Division of Agricultural Engineering. The ASRB</pre>
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	<pre>subscribed, which are accessible to all the students. The internet and intranet and Wi-Fi connectivity has been provided at all the divisions and hostels. The Institute established a National Phytotron Facility in 1997, to study the live responses of plants under controlled conditions. There is a well-equipped Pesticide Referral Laboratory to analyze referred samples for pesticides. IARI has Scanning Electron Microscope Facility (SEMF) at Division of Entomology and Farm Machinery Testing Centre, Division of Agricultural Engineering. The ASRB Online Examination Centre has being established at IARI. Through CeRA (Consortium for eResources in Agriculture), the institute provides online access of approx. 2380 e- Journals on LAN to scientific community. Prof. M S Swaminathan Library has created Online Public Access Catalogue (OPAC) of resources of 36 libraries with "Online Computer Library Center" (OCLC) partnership. The</pre>

	participants to facilitate language classes for foreign students. There is a Central Laboratory for Soil and Plant Analysis at Division of Soil Science and Agricultural Chemistry which provides services to the scientists, students and farmers.
Human Resource Management	 HRD cell of IARI get the training plan for all staff from each discipline. Training programmes are organized at Institute and staff is sent for participation at National and International level. Scientists and students are encouraged to participate in training both at national and international level through fellowships. Grant is providing to faculty and students for attending various workshops/symposia/conferences etc. to broaden their horizon, skills and to foster new linkages. In APAR the reporting officer identify the training needs of the scientists and faculty is sent for training accordingly.
Industry Interaction / Collaboration	<pre>IARI students are encouraged to apply for PM fellowship in which the industry sponsors certain percent of Fellowship and student research is decided based on the need of the industry. Consultancy/ Contract research projects are being taken up by the scientists. BIRAC/DST.DBT projects involving industry is taken up by scientists. Students are encouraged to go for internship/ short course in Industry. IARI technology is commercialized to private firms through ZTM BPD Unit</pre>
Admission of Students	 The Board of Studies (BoS) in each Discipline prepares the requirement of number of M.Sc. and PhD seats and submit to PG School. Hereafter, approval of Academic Council is obtained. The total seat requirement is communicated to the Education Division of ICAR. The Institute admits students to the Post Graduate School under five separate streams as indicated below: (A) Open competition (B) Faculty Upgradation Scheme (FUS) (C) Departmental stream (Scientific and Technical) (D) ICAR in-service nominees (E) International students. M.Sc. and M.Tech. degree courses: Entrance examination for admission to M.Sc. and M.Tech. degree courses is undertaken by the Education Division of ICAR and on

the basis of merit, the ICAR finalizes
 the admission for 23 M.Sc. and one
M.Tech. degree courses at IARI. Ph.D.
 degree courses: Admission to the Ph.D.
 courses in 22 disciplines is based on
 performance of candidates in the
 written entrance examination (70
 weightage) academic score (20
weightage) interview (10 weightage).

6.2.2 – Implementation of e-governance in areas of operations:					
E-governace area	Details				
Planning and Development	IARI is using the ERP solution developed by IASRI for ICAR namely "Management Information Services (MIS) including Financial Management System (FMS)" (MIS FMS). The system has provisions for: Project management: Scope for Project information, costing, project documents, contract management and grants Material management: Solutions for Purchase and inventory management				
Administration	e-office is being implemented for the purpose management of office files comprising of file movement and administrative approval e-Tender is followed for purchase of scientific equipments with amount beyond Rs 1 crores				
Finance and Accounts	<pre>IARI is using the ERP solution developed by IASRI for ICAR namely "Management Information Services (MIS) including Financial Management System (FMS)" (MIS FMS). The system has provisions for: Financial Management: Solutions for general ledger, account payable, account receivable, cash management, fixed assets management, budget management and grants Payroll system: Salary, GPF, Pension payment, retirement benefit calculation and income tax calculation, etc.</pre>				
Student Admission and Support	PG School, IARI Management System for online management of academic activity of students. The system is available to students, faculty members, scientists and administrative staff of PG School, IARI. It has following sub modules (a) Course management (b) Student management (c) Faculty management (d) Administrative management (e) e- Learning (f) Student research management				
Examination	"PG School, IARI Management System" for online management of academic				

activity of students. The system is available to students, faculty members, scientists and administrative staff of PG School, IARI. The students course grades are uploaded online into the PG School, IARI Management System by the Course leader which is approved by
Professor and Dean The proforma for
taking up qualifying examination
submission of thesis is submitted
online in which the Chairman, professor
and HoD provide the names of external
examiners which is finally selected by
the Dean The results of qualifying
examination and the thesis is submitted
online into the "PG School, IARI
Management System"

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2019	Dr. D. Vijay	XIV Agricultural science congress	NAAS	8000
2019	Dr. Sangita Yadav	XIV Agricultural science congress	NAAS	8000
2019	Dr. Shiv k. Yadav	XIV Agricultural science congress	NAAS	8000
2019	Awtar Singh	XIV Agricultural science congress	NAAS	8000
2019	Madhubala Thakre	XIV Agricultural science congress	NAAS	8000
2019	Dr Ananta Vashisth	"International Symposium on "ADVANCES IN AGROMETEOROLOGY FOR MANAGING CLIMATIC RISKS OF FARMERS" INAGMET 2019 during 11-13	Association of Agrometeorol ogists	5000

2019Dr Ananta VashisthISFRS-GEOGLAM- ISRS International Workshop on " Earth Observations for Agricultural Monitoring" during 18-20 February, 2019 at IAR, New Delhi.Indian Society of Remote Sensing30002019Dr Ananta VashisthXIV Agricultural science congressNAAS80002019Dr Ananta VashisthXIV Agricultural science congressNAAS80002019Dr K.K. Bandyopadhyay"ISPRS- GEOGLAM-ISRS International Workshop on " Earth Observations for Agricultural Monitoring" during 18-20Society of Remote Sensing30002019Aditi KunduIst National Agricultural Monitoring" during 18-20 February, 2019 at IARI, New Delhi.Society of Remote Sensing60002019Aditi KunduIst National Agrochemicals Congress: Country's Status on Various Fronts of Agrochemicals. November, 2019Society of Pesticide Science (SPS), India60002019Aditi KunduIst National Agrochemicals. November, 2019Society of Pesticide Science (SPS), India60002019Aditi KunduIst National Agrochemicals. November, 2019Society of Pesticide Science (SPS), India600023.2 - Number of professional development / administrative training programmes organized by the University for asching and non teaching staff during the yearSociety of Pesticide Science (SPS), India				February, 2019 at JNU, New Delhi			
VashisthAgricultural science congressIndian2019Dr K.K. Bandyopadhyay"ISPR5- GEOGLAM-ISRS International Workshop on " 	2019			ISRS International Workshop on " Earth Observations for Agricultural Monitoring" during 18-20 February, 2019 at IARI, New	Society	y of	3000
BandyopadhyayGEOGLAM-ISRS International Workshop on " Earth Observations for Agricultural Monitoring" during 18-20 February, 2019 at IARI, New Delhi.Society of Remote Sensing2019Aditi Kundu1st National Agrochemicals Country's Status on Various Fronts of Agrochemicals. November, 2019Society of Pesticide Science (SPS), India60002019Aditi Kundu1st National Agrochemicals Of Agrochemicals. November, 2019Society of Pesticide Science (SPS), India60002019Aditi Kundu1st National Agrochemicals. 	2019			Agricultural science	NAJ	AS	8000
Agrochemicals Congress: Country's Status on Various Fronts of Agrochemicals. November, 2019 View File	2019			GEOGLAM-ISRS International Workshop on " Earth Observations for Agricultural Monitoring" during 18-20 February, 2019 at IARI, New	Society	y of	3000
5.3.2 – Number of professional development / administrative training programmes organized by the University for	2019	Adit	ti Kundu	Agrochemicals Congress: Country's Status on Various Fronts of Agrochemicals.	Pestic Science	ide (SPS),	6000
	5.3.2 – Number of	professional d	evelopment / :		programmes	organized by t	he University for
Year Title of the Title of the From date To Date Number of Number of	eaching and non te	eaching staff d	uring the year				

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2019	Winter School on WHarnessin	Nill	26/12/2019	15/01/2020	14	Nill

1			1	1		
	g new generation green tech					
	nologies from					
	plants, microbial					
	and waste					
	sources for sustai					
	nable					
	crop, envi ronmental					
	and human					
	health", ICAR					
2019		Nill			15	Nill
	Analytical Approaches		01/10/2019	21/10/2019		
	on					
	Doubling Farmers'					
	Income (CAFT),					
	ICAR					
2019	Training on "Approp	Nill	17/08/2019	26/08/2019	11	Nill
	riate		17/00/2019	20/00/2019		
	Small Farm Mechanizat					
	ion for					
	Enhancing Farm produ					
	ctivity					
	and Income″					
	for African					
	nationals.					
2020	Online	Nill	01 /00 /0000		40	Nill
	Training on "Life		21/09/2020	25/09/2020		
	Skills and Personalit					
	y Developm					
	ent" NAHEP- CAAST					
2019	One-week	Nill			18	Nill
	training course on		29/07/2019	03/08/2019		
	"Preparati					
	on and Dis semination					
	of Agromet					
	Advisories at Block					

	level" under GKMS for establ ishing District Agromet Units (DAMU) at KVK, a joint initiative of IMD and ICAR IMD					
2019	Distance learning programme on "Remote Sensing and GIS ap plication in watershed management " under IIRS, Dehradun outreach program, ISRO	Nill	08/04/2019	12/04/2019	17	Nill
2019	Distance learning programme on "Basics of Remote Sensing Ge ographical Informatio n System and Global Navigation Satellite System" under IIRS, Dehradun outreach program, ISRO	Nill	19/08/2019	22/11/2019	27	Nill
2019	Data Analysis and Interp retation (for ISS P robationer s, Ministry of	Nill	13/05/2019	24/05/2019	28	Nill

	Prog Imple ti	istics ramme ementa ion SPI)							
2019	Adva i Desi Agric al Ex ents Da Anal (CA Educ Divi	atisti al ances in gning cultur cultur coltur s and ata Lysis AFT) ation ision CAR	Nill	19/07/2019	08	/08/2019	25		Nill
2019	in St ic Anal Bree Da (CA Educ Divi	vances catist cal lysis of eding ata AFT) ation sion, CAR	Nill	27/08/2019	16	/09/2019	22	1	Nill
				<u>View File</u>					
				development progr ent Programmes d			ntation Pro	ogram	me, Refresher
Title of the professiona developmer programme	al nt		of teachers attended	From Date		To da	te		Duration
CAFT Training: N generatic sequencing its applica to crop sci from	on and tion		1	03/09/2019	9	23/09/	/2019		21
Trainin programme `Laborato Quality Managemen System an Internal Au as per IS/ISO/IE 17025:2017, NITS, Noi	on ry nt nd ndit SC , at		1	23/07/2019	9	26/07/	/2019		4

conducted by NITS-BIS				
International Workshop on "Management of Persistent Organic Pollutants (POPs) in India: Need and Gap Analysis" organised by CSIR-National Environmental Engineering Research Institute (CSIR- NEERI), Nagpur.	1	17/07/2019	18/07/2019	2
National Workshop on "Functional Foods, Bioactive Compounds and Phytochemicals for Better Nutrition" will be organized in virtual mode by the Department of Biochemistry, Uttar Banga Krishi Vishwavidyalaya in collaboration with the Society for Plant B	1	09/12/2019	11/12/2019	3
Attended training on "Integrated Assessment: Importing countries and Domestic Regulations requirements" Organized by NABL, Gurugram	1	25/07/2019	26/07/2019	2
Laboratory Quality Management and Internal Audit as per	1	17/12/2020	20/12/2020	4

17025:2017				
ICAR-HRD training on "Statistical design and experimental data analysis" ICAR-IASRI, New Delhi.	1	18/02/2020	02/03/2020	12
DST sponsored Training programme on "E ntrepreneurship Development and Management for Women Scientists and Technologists with the Government Sector" 10-21 February, 2020, at Entrepreneur ship Development Institute of India, Ahmedabad., Dr Sangeeta Paul	1	10/02/2020	21/02/2020	12
CAFT training programme on "Next generation sequencing and its application to crop science" at that ICAR- National Institute for Plant Biotechnology, (Formally NRCPB), Pusa Campus, New Delhi, Dr Pranita Jaiswal	1	03/09/2019	23/09/2019	21
NIAS - DST Training Programme for Women Scientists on "Science and Sustainability in India	1	23/09/2019	27/09/2019	5

National Institute for Advanced Studies (NIS), Bangalore), pr Radba Prasaana View_File 6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment): Image: Comparison of the second staff of the second s	(Organized by						I		
Advanced Studies (NIAS), Radha Prasaana View File 6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment): Image: Construct of the second of the									
Studies (NTAS), Bangalore), pr Radha Prasanna View File 6.34 - Faculty and Staff recruitment (no. for permanent recruitment): Image: Comparison of the state									
Bangalore), pr Nadha Prasanna View File 6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment): Teaching Non-teaching Permanent Full Time Permanent Full Time 9 9 3 3 6.3.5 - Welfare schemes for Teaching Non-teaching Students GGHS provided to all faculty members, pispensary with dedicated medical officer, Group Life Insurance Scheme is available to all employees Institute Joint Staff Council (IJSC) Nehru Experimental Centre, Gymnasium PG School Student Union Gyn Sports Ground Dispensary PG School Welfare Fund 6.4 - Financial Management and Resource Mobilization 6.4 - Financial Management and external financial compliance report of internal and external audit is conducted half yearly by the internal and external audit is conducted by the Q. G. G. Office as per its Audit celendar. • Internal Au									
View File 6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment): Teaching Non-teaching Permanent Full Time Permanent Full Time 9 9 3 3 6.3.5 - Welfare schemes for Teaching Non-teaching CGHS provided to all faculty members, Dispensary with dedicated medical officer, Group Life Insurance Scheme is available to all employees Students PG School Student Union Oym Sports Ground Dispensary PG School Welfare Fund 6.4 - Financial Management and Resource Mobilization 6.4 - Institution conducts internal and external financial audits regularly (with in 100 words each) The Institution has an established mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. Internal audit is conducted half yearly by the internal financial compliance. Internal audit is conducted half yearly by the internal financial compliance. Internal audit is conducted half yearly by the internal financial compliance and ivisional libraries is conducted by the C A. G. Office as per its Audit calendar. • Internal Audit is conducted by the C A. G. Office as per its Audit calendar. • Internal Audit is conducted by the Schemes and division by an in-house committee constituted by IOD for the aforesaid purpose. 6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not cove									
Construction Construction 6.3.4 - Faculty and Staff recruitment (no. for permanent recruitment): Teaching Non-teaching Permanent Full Time Permanent Full Time 9 9 3 3 6.3.5 - Welfare schemes for Teaching Non-teaching Students CGHS provided to all faculty members, Dispensary with dedicated medical officer, Group Life Insurance Scheme is available to all employees Institute Joint Staff Gymasium PG School Student Union Dispensary FG School Welfare Fund 6.4 - Financial Management and Resource Mobilization 6.4 - Institution conducts internal and external financial audits regularly (with in 100 words each) The Institution conducts internal and external financial audits regularly (with in 100 words each) The Institution has an established mechanism for conducting internal and external audits on the financial transactions every year to ensure financial compliance. Internal audit is conducted half yearly by the internal financial compliance. Internal audit is conducted by the C A. G. Office as per its Audit calendar. • Internal Audit of the Institute is conducted by the ICAR headquarter on yearly basis. • Besides, the physical verification of the stores and divisional libraries is conducted in each division by an in-house committee constituted by HOD for the aforesaid purpose. 6.4.2 - Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)	Radha Prasanna								
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		Yes/No	Age	ncy		Yes/No		Authority	

i		1		
Academic	Yes	QRT Institute Research Council (IRC II) Institute Research Council I Research Advisory Council (RAC) Are mechanism to monitor the research and teaching activities of the institute and recommendations are compiled with	Yes	Board of Studies and Divisional Budget and Research Committee (IRC I, IRC II RAC) monitors and guides day to day research and teaching activities of the Divisions, respectively
Administrative	Yes	Audit Working in Hindi is audited by the Hindi Committee	Yes	Annual stores verification by committee constituted for the purpose Audit department audits the financial activities Working in Hindi is audited by the committee constituted for the purpose

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

• Funds have been provided to IASRI, NBPGR and NIPB, New Delhi and necessary infrastructure support is extended to IIHR, Bengaluru and CIAE, Bhopal for successful implementation of teaching programmes at these centres. The students admitted at these centres have full access to the PGS online management system for various teaching related activities. The students from these institutes can visit IARI and are provided access to different laboratories for undertaking any experiment committed in their thesis work.

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

• Parents are invited during Convocation and they are encouraged to give their feedback during the farewell programme organized in each Divisions for outgoing students. The students are felicitated for their academic and other achievements. Parents help in the mentoring and counselling of their wards as and when need arises

6.5.4 – Development programmes for support staff (at least three)

Training programme for skill development are organized for supporting staff.
Supporting staffs along with other staffs participate regularly in inter institutional sports activities organised by an institute under the administrative control of ICAR. • New Pusa Recreation Centre (NPRC) has excellent facilities for indoor and outdoor games for support staff. The Centre helps the staff in personality development and maintaining physical fitness. • Support staff can avail the facilities available in the IARI Dispensary. • Support staff has representatives in IJSC who help in implementation of institute welfare schemes.

6.5.5 – Post Accreditation initiative(s) (mention at least three)

The courses have been revised following the 5th Deans Committee Report BSMA (Broad Subject Matter Area) guidelines
The outreach programme has been strengthened by recognising more institutes as partners in academic activities
New courses have been added to broaden the knowledge of students with a view to inculcate soft skills
The students thesis research is aligned with the research programme of Divisions so as to compliment each others' efforts

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	Yes
d)NBA or any other quality audit	No

6.5.7 - Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants	
2019	Research Advisory Committee Meeting	12/12/2019	18/12/2018	12/12/2019	40	
2019	Academic Council Meeting	07/02/2019	14/12/2018	07/02/2019	45	
2019	Academic Council Meeting	25/07/2019	07/02/2019	25/07/2019	37	
2019	Academic Council Meeting	14/11/2019	25/07/2019	14/11/2019	41	
2019	Extension Council Meeting	26/09/2019	12/09/2018	26/09/2019	39	
2020	ISO Certif ication	28/02/2020	Nill	28/02/2020	31	
		No file	uploaded.			

CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male

Establishment of Nutri-farm	05/04/2019	05/04/2019	18	0
Minimization of nutrient loss in processing	11/04/2019	11/04/2019	20	0
Minimization of nutrient loss in processing	14/05/2019	14/05/2019	16	0
Location specific drudgery reduction technologies	26/06/2019	26/06/2019	14	0
Dress- designing and tailoring	01/05/2019	14/06/2019	22	Nill
Promotion of bio fertilizers for organic farming	23/07/2019	24/07/2019	25	7
Improved Agricultural Technologies for Higher Income for farmers of North Tripura	17/11/2019	21/11/2019	17	8
Improved Agricultural Technologies for Higher Income for farmers of North Tripura	19/01/2020	23/01/2020	9	б

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources

Solar panels have been installed on roof tops of Divisions, mela ground, NRL building, etc which generated 2 MW (25) of electricity • The Institute has well-knit protocols/ procedures for the collection and disposal of different kinds of wastes (chemical, biological, radioactive, universal and recyclable) from the laboratories, hostels and research farms. • Radiological safely office is operating in the Institute which takes care of the procurement of radioisotopes and biomolecules for research, collection of wastes on regular basis and its disposal in the designated Gamma garden. • Institute has installed bio-incinerator with a capacity of 50 kg per hour to manage hazardous laboratory waste. The facility was created with the IARI plan fund of Rs 18 lakh in year 2014-15. • The institute has got IBSC to scrutinize and approve applications related to research on GMOs includes genome editing as directed by DBT and Ministry of Science and Technology

7.1.3 - Differently abled (Divyangjan) friendliness

Γ	lte	em facilities			Yes	/No		Nu	Imber of benef	iciaries
	Physical facilities		Yes		33					
	Provision for lift		Yes			33				
	R	amp/Rails			Y	es			33	
	R	lest Rooms			Y	es			33	
	Scribes	for examin	nation		Y	es			33	
	7.1.4 – Inclusic	on and Situated	Iness							
	Year	advantages	Number initiative taken t engage v and contribut local commur	es :o with e to	Date	Duration		ame of tiative	Issues addressed	Number of participating students and staff
	2019	1727	60	D	Nill	365		Mera n Mera aurav	Enhancing farmers knowledge about latest te chnology Dissemina tion of latest te chnology to farmers field	Nill
	2019	12	10		Nill	365	of li	IARI Post fice nkage odel	Enhanced outreach of frontline extension system, Coverage of remotely located farmers through IARI improved technolog ies	Nill
	2019	32	4		NILL	365	sc	ARYA cheme	Entrepr eneurship developme nt in rural youth and women	Nill

						under ARYA project: Under this project KVK Shikohpur has given training to 32 youth and women in 2 areas viz, protected cultivati on, and mushroom productio n, out of which 15 participa nt adopted	
2019	504	4	Nill	365	Frontline Demonstra tion programme	CFLD on mustard under NMOOP with 282 demonstra tions with 200 ha area for improved varieties and latest re commended package of practices were demo nstrated. CFLD on pulses under NFSM were demonstra ted 100 ha area with 176 demonstra tions were organized	Nill

0010	546	4	2212.2	265	0		274.7.7
2019	546	4	Nill	365	Out scaling A gricultur al Innova tions for enhancing farm income and emplo yment	of improved agricultu ral techn ologies. Enhanceme	Nill
2019	397	17	Nill	365	Strengt hening Extension Education Programme of Develo ping Inno vative Models and Techn iques for Higher Pr oductivit y and Pro fitabilit y in Agri culture	ent and promotion of IARI t echnologi es, both improved varieties of different crops and NRM techn ology. Improved productiv	Nill
2019	122	2	Nill	365	IARI- VOs Partn ership Programme	• Mu ltiplicat ion of	Nill

		1 1	the			
			Northern			
			India.•			
			Quality			
			seed prod			
			uction of			
			both			
			paddy and			
			wheat			
			were			
			taken up			
			at YFA			
<u>View File</u>						
7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders						
Title Date of publication Follow up(max 100 words)						

Title	Date of publication	Follow up(max 100 words)
Post Graduate School Calendar	01/02/2011	The guidelines are being followed and practiced in true spirit for the academic activities of Institute
ICAR. 2006. ICAR Guidelines for Intellectual Property Management and Technology Transfer/ Commercialization. Indian Council of Agricultural Research, New Delhi.	28/09/2016	The guidelines are being followed and practiced in true spirit for commercialization and IP management
ICAR, 2014. ICAR Rules and guidelines for Professional Service Functions (Training, Consultancy, Contract Research and Contract Service, Indian Council of Agricultural Research, New Delhi	21/09/2014	The guidelines are being followed and practiced in true spirit for training, consultancy and contract research
Vision Document 2025	Nill	The guidelines are being followed and practiced in true spirit
Vision Document 2050	Nill	The guidelines are being followed and practiced in true spirit
Soil testing services	Nill	The guidelines are being followed and practiced in true spirit for offering the services of the Institute laboratory for testing soil and water quality
Policy decisions and activities undertaken for the benefit of	03/09/2020	Three per cent of the total number of seats in each scheme of admission

different persons, Pu IARI Annual R Page	blished in eport, 2016,	open to Indian nationals are reserved for differently abled candidates subject to their being otherwise suitable as per the norms of ICAR/Govt. of India. During the year 2019-20, 12 physically challenged students (4 M.Sc./M.Tech and 8 Ph.D.) were admitted against the reserved seats for differently abled
		differently abled candidates.

A			
Activity	Duration From	Duration To	Number of participants
Viglience Awarness Week	28/10/2019	02/11/2020	1914
Agricultural research, research ethics, rural development programme (PGS 505)-	01/01/2019	31/12/2019	126
Adoption of Anti- Plagiarism Policy: To maintain academic integrity, 1434 documents in the form of thesis and manuscripts prior to submission were subjected to web based software and similarity reports were generated.	01/01/2019	31/12/2019	Nil
Anti-Ragging/ Grievance redressal mechanism:: PG School, IARI, New Delhi has Standing Committee on Students Problems Discipline, Welfare, Board and Residences which considers Complaint s/Grievance of students, if any.	01/01/2019	31/12/2019	1914
	No file	uploaded.	-

 Biomass waste is collected and converted into compost under waste to wealth programme at Biomass Utilization Unit

• Institute has developed Pusa decomposer technology for in-situ residue management which is used on the campus and extensively used in Uttar Pradesh, Punjab and Haryana states help minimize paddy straw burning.

• Institute has installed solar panels and generates 2 MW of electricity

• Water harvesting ponds and recharge wells created for water harvesting and recycling of waste water

• Waste water treatment plant to treat waste water and used for irrigation

• Waste paper recycling plant installed to reuse waste papers

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

IARI BEST PRACTICE A. TITLE OF PRACTICE: PUSA DECOMPOSER TECHNOLOGY FOR AGRI-WASTE MANAGEMENT OF ICAR-IARI A1. Objectives India generates about 62 million tons of bio-waste every year. Not only the waste has increased in quantity, but the characteristics of waste have also changed tremendously over a period. The present practice is usually to burn these residues or to leave them to decompose in open. There is an urgent need for rapid degradation of all types of crop residues generated like paddy straw, maize stalks, sugar cane trash, flower waste, garden waste and kitchen waste as an alternate to burning. Some microbial formulations have been developed to overcome this problem but these are not easy to use under field conditions. At IARI, New Delhi, Pusa decomposer, a consortium of seven fungi, has been developed on the basis of their lingo cellulolytic enzyme production potential. In-situ and ex-situ biodegradation of crop residue and farm waste helps in improvement of soil health by increasing the organic carbon in soil and reduces air pollution by preventing farmers from burning of crop residue. A 2. The Context Burning of crop residue causes damage to other micro-organisms present in the upper layer of the soil as well as its organic quality. Due to the loss of friendly pests, the wrath of enemy pests has increased and as a result, crops are more prone to disease. The solubility capacities of the upper layers of soil have also been reduced. According to a report, one tonne stubble burning leads to a loss of 5.5 kilogram nitrogen, 2.3 kg phosphorus, 25 kg potassium and more than 1 kg of sulfur - all soil nutrients, besides organic carbon. Therefore, development of fast degrading, easy to pusa decomposer technology is giving a permanent solution to the farmer community. Farmers and entrepreneurs is relieved of disposal of paddy residue within 25 days time without burning and polluting the environment and also enhanced decomposition of paddy waste into a value added product i.e, compost would help as source of income. A3. The Practice Pusa Decomposer: Division of Microbiology, ICAR-IARI, New Delhi, has developed an effective microbial solution Pusa Decomposer (both in liquid and capsule form) for accelerated decomposition of paddy straw. Four capsules of this product can be scaled up to 25L liquid formulation which can be applied in- situ to 1.0 ha of rice field having 5- 6 tonnes of paddy straw. Pusa Decomposer plays an important role in in-situ and ex-situ decomposition of paddy straw. For In-situ

important role in in-situ and ex-situ decomposition of paddy straw. For In-situ management, harvesting paddy with combine followed by chopper plus mulcher and spraying Pusa Decomposer followed by rotavator and light irrigation to keep the field moist has shown accelerated decomposition of the paddy straw and enabled the farmer to do timely wheat sowing. This was widely demonstrated in Punjab, Haryana, UP and NCR Delhi. Use of Pusa Decomposer does not provide any machine substitution. It accelerates process of paddy straw decomposition and makes the

field ready for wheat sowing in 25 days. Use of Pusa Decomposer enhances chemical, biological and nutritional profile of soil. A4.Evidence of Success Last two years in 2020 and 2021 Delhi Govt. had the Pusa Decomposer solution

sprayed on farmlands (1,935 acres) in the capital and found it decayed the crop stubble in around 20-25 days in time for the farmers to make the fields ready for next crop sowing. 90 of the farmers said the stubble and straw decomposed within 15-20 days when earlier it took 50-60 days. The farmers were happy that the wheat crop benefitted, as the yield increase was found to be 8-10. In 2021, ICAR-IARI in collaboration with a company is preparing to bring about >6000 acres under the Pusa Decomposer spray in Punjab alone for which 25,000 farmers have been selected to participate. UP Govt. is planning for 5000 ha to be brought under Pusa Decomposer. The technology has been licensed to 10 companies and each of them is keen to help the farmer to curtail the straw burning by mass production of the Pusa Decomposer product and making it readily available. Its use enriches the soil with organic carbon (OC), nutrients and soil biological and physical properties also improve. In contrast, burning of paddy straw kills beneficial microorganisms and in addition causes air pollution. Therefore, Pusa Decomposer is a long term sustainable solution for management of paddy straw in conjunction with machinery. A 5. Problems Encountered The very first problem is due to different farms sizes mainly small < 5 acres to large > 100 acres, the exact following of SOP for Pusa decomposer is not being maintained by all the farmers. Secondly, availability and accessability of machinery for proper dissemination of technology at farmers field is utmost important. Custom hiring of spray machines like boom sprayer should be provided at village lrvel. Thirdly, results may vary due to difference in soil texture of different areas. B. TITLE OF PRACTICE: OFF-GRID, BATTERYLESS PUSA FARM SUNFRIDGE TECHNOLOGY B1. Objectives This is an innovative initiative to provide refrigerated storage of perishables for small holder farmers, even in areas lacking electricity supply. The requirement among farmers in India for community-level or on-farm cool structures for storage of perishables is immense, however their availability is limited. PUSA Farm SunFridge(FSF) is a specially designed off-grid batteryless green energy solar-refrigeratedevaporative cold storage structure that is effective and inexpensive and can enhance storability and help the grower control marketing of his high-value perishables. The FSF offers farmers an inexpensive access to "one's own" onfarm cold store that requires no utility-based electricity, and can improve control over marketing crops to fetch better prices and enhance their income. B2 The Context High post-harvest losses especially due to high ambient temperatures in summer season lack of sufficient cold storages and unreliable erratic electricity supply on farmers' fields are some of the challenges faced by small holder farmers in India. The Pusa Farm SunFridge meets these challenges successfully, because the Sunfridge is cooled by solar energy (green or renewable energy) during the day and cold water in water battery (thermal storage) during nighttime. The2-tonne Sunfridge can be easily built as on-farm structure and can help farmer store or precoolhis produce, which will enable reduction in post-harvest losses causing his enhanced income. B3 The Practice The Farm SunFridge(FSF) is asolar-refrigerated evaporatively-cooled off-grid, batteryless, on-farm cold store for storage of perishables. The evaporative cooling component reduces heat load on the structure, enabling the use of a smaller solar panel array and smaller capacity refrigeration system. TheFSF has been tested extensively for storage of amaranth - a model plant to evaluate imperfect storages. These 2-tonne FSFs can be self-built by farmers in two stages: initially as a evaporatively cooled store at 1st stage and then installing insulation and refrigeration system as add-on in the 2nd stage. The first of its kind concrete/FSF(inner size 3 x 3 x 3 m), built at the Division of Agricultural Engineering, IARI in 2017, was made of reinforced cement concrete (RCC) roof, supported on 4 concrete columns. The columns were sheethed in autoclaved aerated concrete (AAC) blocks and built on a concrete foundation. The iron frame FSF takes a quarter of that time to be completed and operational and would cost less in both materials and labor. This has been built in prefabricated and assemble-enabled iron frame at IARI exhibition ground. B4.

Evidence of Success The FSF is operational at three semi-arid villages in states of Rajasthan, Haryana, and Delhi, and the fourth FSF is built as a demo unit at IARI Exhibition ground in Delhi. The latter has been visited by over 500 farmers/ policy makers since March 2021, covered extensively on various print (total circulation approx. 5 million) and social media platforms, and has stimulated intense interest among growers and policy makers. Around 68 of the visitors have expressed a desire to build FSF at their farms. The latest FSF at Cullakpur, Delhi, is in operation since December 27, 2021, and temperature and RH data of FSF can be retrieved from the cloud at

https://dashboard.hobolink.com/public/Farm20SunFridge20Cullakpur20Delhi. The data from the Farm Sunfridge at IARI, Pusa is also uploaded to the cloud and can be seen at

https://dashboard.hobolink.com/public/Farm20SunFridge20IARI20PUSA20Delhi. B5
Problems Encountered and Resources Required The problems encountered are that
the farmers and retailers need more than 2 tonnes capacity structure, so higher
 capacity FSFs need to be designed and built, for which more research is
required too. More Farm SunFridges need to be built as demonstration units in
different agro climatic zones in India for the farmers and retailers to have
first-hand knowledge and hands on experience of the working of these off-grid
batteryless cold stores. We would require 10 such FSFs in India for which the
 resources needed would be to the tune of 1 crore rupees.

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://www.iari.res.in/index.php?option=com_content&view=article&id=829&Itemid =9

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

IARI through its research, education and extension envisages addressing SDG 2. In 2019, the Institute released 31 varieties/ hybrids of agri-horticultural crops for diversified needs of the Country. IARI wheat varieties occupy about 60 of wheat grown area and contributing to the prosperity of millions of farmers. In 2019 four bread wheat varieties and two durum wheat varieties were released in 2019. This includes HD 3249 enriched with 42.5 ppm of Fe and 27 ppm of Zn and HI 8802 with high protein (13.0) and carotenoid content (5.7 ppm). To address the Vitamin A deficiency (VAD), a major problem of our population, three bio-fortified maize hybrids viz., 'Pusa HQPM-5 Improved', 'Pusa HQPM-7 Improved' and 'Pusa VH-27 Improved' were released. In vegetable crops, two hybrids and 15 varieties were released this year for commercial cultivation. A wide array of technologies including new farm machinery, resource conservation technologies, beneficial microbes for reducing the input cost and enhancing farmers' income, while minimizing the emission of Greenhouse gases were developed. IARI has made a breakthrough in developing and popularizing "Pusa Decomposer", a fungal consortium, for in situ and ex situ crop residue decomposition which will help mitigate rice residue burning problem and air pollution, and also enhance soil fertility. We played a pivotal role in Mera Gaon Mera Gaurav programme which improved outreach of technologies through on field demonstrations and direct interaction between scientists and farmers addressing specific needs from time to time. Pusa Krishi Vigyan Mela 2019 with the theme of Krishi Vikas: Innovative Technologies was organized from March 5-7, 2019, wherein over one lakh visitors and 170 public and private exhibitors from across the country participated. Under the ICAR-NAHEP CAAST project, 10 students and 2 faculties were trained at international laboratories abroad. IARI has also trained 700 students from more than 100 different institutions across India on the area of genomics. Human resources developed at IARI

continue to contribute to the global food security. It is a matter of great pride for this institute that 2020's World Food Prize was conferred upon Prof. Rattan Lal, an alumnus of IARI. During 58th Convocation of the Post Graduate school on February 14, 2020, 242 candidates (144 M.Sc., 9 M.Tech. and 89 Ph.D.) including 15 (11 M.Sc. and 4 Ph.D.) international students were awarded degrees. A MoU was signed for dual and joint Ph.D. programme of ICAR-IARI students with Western Sydney University, Australia ICAR-IARI continued to assist Afghan National University of Agricultural Sciences and Technology (ANASTU), Kandahar, Afghanistan and Advanced Centre for Agricultural Research and Education (ACARE) at Yezin Agricultural University, Myanmar in higher agricultural education. The faculty have brough external research grant to the tune of 185 crores from NASF (ICAR), NAHEP (ICAR), DBT, DST and other international agencies for sustaining the excellence in research, education and development programs of the Institute. Faculty and students have published 446 papers in international peer reviewed journals. IARI has been recognised "Special Institution"by Empowered Expert Committee of the Institutions of Eminence, UGC.

Provide the weblink of the institution

https://www.iari.res.in/files/Publication/annual_report/IARIAnnualReportRevised 2019_20_30092020.pdf

8. Future Plans of Actions for Next Academic Year

1. To Enhance the Research Outcome of faculty and students: Faculties will be encouraged to bring external funded projects, and to conduct basic and strategic research for enhancing the research publication and development of technologies towards attaining Sustainable Developmental Goals (SDGs). 2. To initiate PG programmes at National Institute of Abiotic Stress Management (NIASM)-Baramati, National Institute of Biotic Stress Management (NIBSM)-Raipur and Indian Institute of Agricultural Biotechnology (IIAB)-Ranchi. 3. To establish a central research facility called "Discovery Centre" for strengthening faculty and student research and training in the area of genomics. 4. Promotion of digital solutions: IARI will strengthen E-Granth and Krishikosh for promotion of open access policy, subscription of electronic journals and e-books for library. 5. The Institute plans to provide plagiarism check software to its faculty and students to check plagiarism in their manuscripts before publication. 6. IARI will initiate steps to implement NEP2020 and become a global university. 7. School-wise plan: a. School of crop improvement: To utilise germplasm resources for identification of donors and genes and to employ genomics assisted advanced breeding technologies for development of high yielding, biofortified and climate resilient crop varieties. b. School of Horticulture:Development of varieties and hybrids of vegetables, fruits and flowers for enhancing nutrition security of consumers and livelihood security of farmers. c. School of Basic Sciences: To decipher phenotype-genotype relationship using high throughput phenomics and genome editing. d. School of Crop Protection: To develop diagnostic kits for pathogen detection, advancement in pathogen diversity analysis, diagnostics and development of integrated management technologies for agricultural pests and pathogens of national importance by employing the frontier areas of science. e. School of Natural Resource Management: The Crop and Natural Resource Management research will focus on development of methods for crop and resources management and solutions, precision agricultural technologies, microbiomes, and strategies to minimize global warming potential of crop management technologies and solar energy-based solutions. f. School of Social Sciences: The social sciences and technology transfer research will focus on analysis impact assessment, technology transfer through demonstrations, gender issues.