

**NAAC**

**Revised Format of Self-Study Report**

**(As per the NAAC Manual for Universities effective from July, 2017)**

**Quantitative Metrics for Department**

## CRITERION I - CURRICULAR ASPECTS

### Key Indicator - 1.1 Curriculum Design and Development

Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17				
			2012-13	2013-14	2014-15	2015-16	2016-17
1.1.2	Percentage of programmes where syllabus revision has taken place in last 5 years. Revised programme /Total Programme * 100	No. of courses/ programmes revised in last 5 years	1				
		Course Code					
		Course Title/ Programme Title	Ph. D./PMB1 (research Methodology)				
		Total number of courses/programmes offered in Department	M.Sc. (PMBB) and Ph.D				
1.1.3	Courses having focus on employability/ entrepreneurship/ skill development. Name of the course/ programme with major activities		2012-13	2013-14	2014-15	2015-16	2016-17
		Name of the course/programme					
		Dissertation is to familiarized the students with tool and techniques of Molecular Biology and developing scientific writing skill and presentation skill.					

### Key Indicator - 1.2 Academic Flexibility

1.2.1	New courses introduced during last five years	Number of new courses	1 PMB1 (research Methodology)				
		Total number of courses offered	3 Paper in Ph.D				

Supporting Document required:

Name of new courses

Name of programmes

### Key Indicator- 1.3 Curriculum Enrichment

<b>Key Indicator- 1.3 Curriculum Enrichment</b>							
<b>1.3.2</b>	<b>Number of value added courses imparting transferrable life skills in last 5 years</b>	No. of courses in last 5 years with 30 or more contact hours	M.Sc. (PMBB) SemIV has inhouse dissertation project in the Department to enhance their research skill.				
		Course Code and Title	M.Sc. (PMBB) -1001				
		No. of times offered during the same year	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>
			1	1	1	1	1
		Total no. of students Completing the course in the year	All Students	All Students	All Students	All Students	All Students
<b>1.3.4</b>	<b>Number of students undertaking field projects/internships</b>	No. of students undertaking field programmes/ internship	<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>
		Names of the programme					
M.Sc. (PMBB) Semester IV has inhouse dissertation project in the Department to enhance their research skill.							
<b>Key Indicator 1.4 Feedback system</b>							
<b>1.4.1</b>	<b>Structured feedback from 1) student, 2) Teachers, 3) Employers, 4) Alumni, 5) Parents A. any 4 of the above B. any 3 of the above</b>	D					

	<b>C. any 2 of the above</b> <b>D. any 1 of the above</b> <b>E. None of the above</b>	
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## Criterion II - Teaching - Learning and Evaluation

### Key Indicator - 2.1 Student Enrolment and Profile

Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	2012-13	2013-14	2014-15	2015-16	2016-17
<b>2.1.1</b>	<b>Average percentage of students from other States and Countries during the last five years</b>	Number of students enrolled from other states and countries. (data to be given on the basis of permanent address mentioned by the student in the admission form).	<b>20%</b>	<b>20%</b>	<b>10%</b>	<b>10%</b>	<b>30%</b>
		Total number of students enrolled in Dept./Centre	<b>64</b>	<b>66</b>	<b>68</b>	<b>71</b>	<b>71</b>
<b>2.1.2</b>	<b>Demand Ratio (Average of last five years)</b>	Number of seats available in all the programs	M.Sc 12 Ph.D.	M.Sc 12 Ph.D.	M.Sc 12 Ph.D.	M.Sc 12 Ph.D.	M.Sc 12 Ph.D.
		Total number of eligible applications received	M.Sc <b>456</b> Ph.D. <b>115</b>	M.Sc <b>1400</b> Ph.D. <b>204</b>	M.Sc <b>600</b> Ph.D. <b>25</b>	M.Sc <b>567</b> Ph.D. <b>179</b>	M.Sc <b>616</b> Ph.D. <b>200</b>

2.1.3	Average percentage of seats filled against seats reserved for various categories as per applicable reservation policy during the last five years	Number of students admitted from the reserved category (data to be given only for SC,ST,OBC students)	M.Sc SC -1 ST-1 OBC-3  Ph.D OBC-2	M.Sc SC -1 ST-1 OBC-3  Ph.D SC-2	M.Sc SC -1 ST-1 OBC-3  Ph.D. None	M.Sc SC -2 ST-1 OBC-2  Ph.D ST -1 SC -1 OBC- 1	M.Sc SC -1 ST-0 OBC-3  Ph.D ST -1
		Total number of seats earmarked for reserved category (seats for SC,ST,OBC) as per GOI or State Government rule	M.Sc SC -2 ST-1 OBC-3	M.Sc SC -2 ST-1 OBC-3	M.Sc SC -2 ST-1 OBC-3	M.Sc SC -2 ST-1 OBC-3	M.Sc SC -2 ST-1 OBC-3

**Key Indicator - 2.2 Catering to Student Diversity**

Metric No.  (as per NAAC Manual)	Description  (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department  (For Academic years 2012-13 to 2016-17)	2012-13	2013-14	2014-15	2015-16	2016-17
			2.2.2	Student -Teacher ratio (Data Requirement for last five years (year wise))	Total number of students enrolled in the institution (Year wise)	M.Sc. + Ph.D. = 64	M.Sc. + Ph.D. = 66
Total number of Permanent teachers in the institution (Year wise)	11	11			11	11	11
Total number of Adhoc teachers in the institution (Year wise)	0	0			0	0	0
Total number of differently-abled students on roll in the Dept/ Centre	0	0			0	0	0

		Total number of students on roll in the Dept/ Centre					
<b>Key Indicator- 2.3 Teaching- Learning Process</b>							
2.3.2	Average percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc.	Number of teachers using ICT (LMS, e-resources) In Dept./ Centre	11	11	11	11	11
		Number of teachers on roll	11	11	11	11	11
		ICT tools and resources available (Yes/No)	YES				
2.3.3	Ratio of mentor to students for academic and stress related issues	Number of students assigned to mentor for academic and stress related issues	64	66	68	63	62
		Number of mentors assigned to address the issues	3	3	3	3	3
		Ratio (Mentor:Mentee)	21:3	22:3	23:3	21:3	21:3
<b>Key Indicator-2.4 Teacher Profile and Quality</b>							
2.4.1	Average percentage of teachers against sanctioned posts during the last five years	Number of teachers (Data Requirement for last five years for permanent teachers)	11	11	11	11	11
		Number of sanctioned posts	13	13	13	13	13
2.4.2	Average percentage of permanent teachers with Ph.D. during the last five years	Number of permanent teachers with PhD	100%	100%	100%	100%	100%
		Total number of permanent teachers	11	11	11	11	11

2.4.3	<b>Average teaching experience of permanent teachers in number of years</b>	Average teaching experience of all permanent teachers (give supporting document of names of only permanent teachers)	16.5years	17.5years	18.5years	19.5years	20.5years
2.4.4	<b>Average percentage of Permanent teachers who received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the last five years (Data Requirement for last five years)</b>	Number of Permanent teachers in Dept/Centre receiving awards from State, National, International level	100%	100%	100%	100%	100%
		Total number of permanent teachers in Dept./ Centre	11	11	11	11	11
2.4.5	<b>Average percentage of permanent teachers from other States against sanctioned posts during the last five years (Data Requirement for last five years)</b>	Number of permanent teachers from other states	45%	45%	45%	45%	45%
		Total number of sanctioned posts	13	13	13	13	13
<b>Key Indicator- 2.6 Student Performance and Learning Outcomes</b>							

<p><b>Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed on website and communicated to teachers and students</b></p>	<p><b>Programme Specific Outcome (PSO)</b>  <u>PSO of M.Sc. in PMBB</u>  The M.Sc. course in PMBB is designed to expose students to the latest developments in the exciting areas of modern plant sciences. This course prepares students to take up research in Plant Molecular Biology and allied areas as a possible career option as well as unable generation of manpower for the emerging plant biotechnology industry.  <u>PSO of Ph.D. in PMB</u>  The Ph.D. course of the Department of Plant Molecular Biology is aimed at introducing students to advances in the field of plant molecular biology and plant biotechnology. The students also learn to undertake literature survey develop expertise in areas of molecular biology, computer application, data search and presentation and writing skill.</p>							
<p><b>Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution</b></p>	<p><b>Course Outcomes (CO)</b>  <u>CO in M.Sc. in PMBB</u>  CO1- Understand the basics of protein structure, folding and engineering  CO2 – Understand the nature and basic concepts of cell biology  CO3- Understand the basic concepts and principles behind the various techniques in molecular biology  CO4 – Learn the basic concepts of immunology and its role in life forms.  CO5 – Understands the basic mechanisms of gene expression in prokaryotes  CO6- Learn the molecular basis of plant growth and development control by hormones and the signaling components  CO7-Learn the basics of bioinformatics and analyses the databases  CO8 – Learn the basic structure and function of eukaryotic genomes  CO9- Understand the basic principles of pattern formation and development in plants and other model organisms  CO10 – learn the basic principle and techniques of engineering plants  CO11- Dissertation work involved detailed studies pertaining to a specific research problem and provides hand on experience to students for conducting research in modern laboratory environment</p>							
<p><b>2.6.3</b></p>	<p><b>Average pass percentage of students (Data Requirement for last five years)</b></p>	<p>Program Code</p>						
		<p>Name of the program</p>		<p>M.Sc.</p>	<p>M.Sc.</p>	<p>M.Sc.</p>	<p>M.Sc.</p>	<p>M.Sc.</p>
		<p>Number of students appeared</p>		<p>10</p>	<p>12</p>	<p>11</p>	<p>10</p>	<p>10</p>
		<p>Number of students passed</p>		<p>10</p>	<p>12</p>	<p>11</p>	<p>10</p>	



<b>Key Indicator- 2.7 Student Satisfaction Survey</b>			
<b>2.7.1</b>	<b>Online student satisfaction survey regarding teaching learning process</b>	Data Requirement: Name/ Class/ Gender Student Id number/ Aadhaar Id number Mobile number Email id	<b>Supporting Document required:</b>  Degree programme Database of all currently enrolled students need to be prepared - See Annexure I

### Criterion III: Research, Innovations and Extension

#### Key Indicator 3.1 Promotion of Research and Facilities

<b>Metric No.</b> (as per NAAC Manual)	<b>Description</b> (as per NAAC Manual, July 2017, for Reference purposes)	<b>Data Requirement from Department</b> (For Academic years 2012-13 to 2016-17)	<b>Academic Years 2012-13 to 2016-17</b>				
			<b>2012-13</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>
<b>3.1.3</b>	<b>Teachers awarded international fellowship for advanced studies/ research during the last five years</b>	Number of teachers awarded international fellowship from 2012-13 to 2016-17.		1		1	1
		<b>Name of the teacher</b>	<b>Name of the award</b>	<b>Year of Award</b>		<b>Awarding Agency</b>	
		Professor Anil Grover	Indo-Australia Visiting Fellowship	2013			
		Prof. I. Dasgupta	Erasmus Mundus Fellowship	2015		European Union	
		Prof. I. Dasgupta	Visiting fellowship from North West A&F University, Shaanxi, China	2015		North West A&F University, China	
	Prof. Girdhar K. Pandey	Jiangsu Agricultural	2016-2017		Visiting		

			Academy of Sciences (JAAS), Nanjing, China			Professor,	
		<b>Supporting Documents required:</b> Documents attached					
<b>3.1.4</b>	<b>JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows in the university enrolled during the last five years</b>	Number of JRFs, SRFs, Post-Doctoral Fellows, Research Associates and other research fellows in the Dept./Centre from 2012-13 to 2016-17.	57	55	53	54	53
		<b>Name of Research fellow</b>	<b>Year of enrolment</b>		<b>Duration of fellowship</b>	<b>Type of the fellowship</b>	<b>Granting agency</b>
			See the attached list 1.(Latest)				
<b>3.1.5</b>	<b>Does the Department/ Centre have these facilities? If, so choose the options and provide relevant documents as mentioned.</b>	1. Central Instrumentation Centre 2. Animal House/Green House / Museum 3. Central Fabrication facility 4. Media laboratory/Business Lab/Studios 5. Research/Statistical Databases  <b>Options:</b> A. Any four facilities exist B. Three of the facilities exist C. Two of the facilities exist D. One of the facilities exists E. None of the facilities exist					
			B				

		<b>Opt any One</b>						
		<b>Supporting Document required:</b> Name of the facility Green Houses Year of establishment Videos/pictures						
<b>3.1.6</b>	<b>Whether the Department is under UGC - SAP, CAS, DST -FIST, DBT, ICSSR and other similar recognitions by government agency (Yes/No)?</b>  <b>If Yes, Supporting Documents required:</b> Please provide departmental recognition award letters	<b>Name of the Scheme</b>	<b>Name of the funding agency</b>	<b>Year of Award</b>	<b>Funds provided</b>	<b>Duration of award</b>		
		DST FIST level II	DST	2012	4.3 crore	2012-2017		
		UGC –SAP (DRS Phase III)	UGC	2013	74.75 lakhs	2013-2018		
<b>Key Indicator 3.2 Resource Mobilization for Research</b>								
<b>3.2.1</b>	<b>Grants for research projects sponsored by the non-government sources such as industry, corporate</b>	<b>Name of the Project/ Endowments, Chairs</b>	<b>Name of the Principal Investigator</b>	<b>Department of Principal Investigator</b>	<b>Year of Award</b>	<b>Funds provided</b>	<b>Duration of the project</b>	<b>Name of the Project/ Endowments, Chairs</b>

	<b>houses, international bodies, endowments, Chairs in the institution during the last five years (Amount in Rupees)</b>								
		None							
<b>3.2.2</b>	<b>Grants for research projects sponsored by the government sources during the last five years (for the period 2012-13 to 2016-17 ; Amount in Rupees)</b>	<b>Name of the Project</b>	<b>Name of the Principal Investigator</b>	<b>Department of Principal Investigator</b>	<b>Year of Award</b>	<b>Funds provided</b>	<b>Durati on of the projec t</b>	<b>Fundin g Agency</b>	<b>Total amount of funds received</b>
		Centre for Advanced Research and Innovation on Plant Stress and Development al Biology	J.P. Khurana (Coordinator); A.K. Tyagi (PI); Paramjit Khurana (PI); Anil Grover (PI)	Plant Molecular Biology	2013-2018	Rs 3.67+1.81 crores for entire Centre	5 years	DBT	Rs.3.53 crores
		Functional validation of genes involved in regulating transition to flowering in rice	J.P. Khurana (PI)	Plant Molecular Biology	2015-2020	Rs 1.38 crores	5 years	DBT	Rs 59.20 lakhs
		Functional	J.P. Khurana	Plant	2013-	Rs 68 lakhs	5	DST/	Rs. 053.80

		Analysis of genes involved in regulating photomorphogenesis and abiotic stress tolerance in plants	(PI)	Molecular Biology	2018		years	SERB	lakhs
		J.C.Bose fellowship	A.K. Tyagi	Plant Molecular Biology	2007	1,21,10,000/	10 years	SERB, DST	1,07,70,000/
		Functional characterization of genetic and epigenetic regulatory networks involved in the reproductive development in rice	A.K. Tyagi	Plant Molecular Biology	2015	1,96,10,400/	5years	DBT	93,02383
		Characterization of Molecular Components Involved in Pollen	Sanjay Kapoor	Plant Molecular Biology	2015	13107200 ₹	2015-2019	DBT	

		Abortion During High Temperature Stress							
		Characterization of Gene Regulatory Networks and Transcriptional Mechanisms that Control Male Gametophyte	Sanjay Kapoor	Plant Molecular Biology	2015	16740400 ₹	2015-2020	DBT	
		Regulation of ripening in tomato by manipulation of epigenome	Arun K Sharma	Plant Molecular Biology	2016	91.74 lakhs	5 years	DBT	23,53,000
		Tomato Ripening Network	Arun K Sharma	Plant Molecular Biology	2015	130.98 lakh	5 years	DBT	76,35,372
		"Genetic analysis of the regulation of Hsp100 promoter activity by heat shock	Anil Grover	Plant Molecular Biology	2014-2017	95 lakhs	3 years	DST	

		factors in rice and Arabidopsis"							
		J.C. Bose Project Fellowship award,	Anil Grover	Plant Molecular Biology	2015-2020	68 lakhs		DST	
		Functional Characterization of voltage-dependent anion channel (VDAC) gene family in <i>Arabidopsis</i> under oxidative stress and potassium derived conditions.		Plant Molecular Biology	2013-2016	24.18		DAE/BRNS	
		Functional analysis of rice calcineurin B-like associated kinase, OsCIPK25 in abiotic stress conditions		Plant Molecular Biology	2014-2016	23		CSIR	
		Enhancement of starch accumulation and grain filling by dual specificity protein		Plant Molecular Biology	2014-2017	47		DBT	

		phosphatase AtDSP in <i>Arabidopsis</i> and OsPP42 in rice						
		Functional characterization of <i>Arabidopsis</i> CCX 1 and 2 (Ca <sup>2+</sup> Cation exchangers) under abiotic stress conditions		Plant Molecular Biology	2015-2017	48.79		DBT
		Functional characterization of rice CCX2 (Ca <sup>2+</sup> cation exchangers) under abiotic stress conditions.		Plant Molecular Biology	2015-2017	46.43		DBT
		Investigation of alternate salt and osmotic stress pathway in <i>Arabidopsis</i> mediated calcineurin B-like associated			2014-2017	40.65		SERB



		protein kinase 21							
3.2.3	Average number of research projects per teacher funded by government and non-government agencies during the last five years	Total Number of research projects during last five years (Add all the projects amended by both government and non-government agency in respect of all faculty members)	See annexure 2						
		Total Number of teachers	10						
	<b>Key Indicator 3.3 Innovation Ecosystem</b>								
3.3.3	Number of Awards for innovation won by teachers/research scholars/students during the last five years	<b>Name of the Awardee</b>	<b>Name of the Awarding Agency with contact details</b>			<b>Year of Award</b>			
		Dr. Surekha K-Agarwal	Innovative Young Biotechnologist Award			2012			
		Prof. Girdhar K. Pandey	National Bioscience Career Development Award, DBT, Govt. of India			2015			
		<b>Supporting Documents attached</b>							
3.3.4	Number of Start-ups incubated on campus during the last five years	<b>Name of the start ups</b>	<b>Nature of start up</b>	<b>Year of commencement</b>		<b>Contact information of the promoters</b>			

	None				
	<b>Key Indicator 3.4 Research Publications and Awards</b>				
<b>3.4.2</b>	<b>Has any faculty from the Dept./Centre received incentive from the University for getting state, national and international recognition/awards (Eg. R. &amp; D. grants; Travel Grants; Grants for Publications; Conference Registration for Paper presentation; Collaborations, etc.)</b>	(Yes /No)			
		<b>Name of the Awardee with contact details</b>	<b>Name of the Awarding Agency</b>	<b>Year of Award</b>	<b>Incentive details</b>
		Prof. J.P. Khurana	Fellow of TWAS	2013-14	R & D Grants; Rs. 2.80 lakhs (13-14) Rs.3.00 lakhs (14-15) Rs. 3.00 lakhs (15-16)
		Prof. Paramjit. Khurana	Fellow of TWAS	2013-14	R & D Grants;
		<b>List of Awards is attached</b>			
<b>3.4.3</b>	<b>Patents published/awarded during the last five years (2012-13 to 2016-17)</b>	<b>Name of the Patent published/awarded</b>	<b>Patent Number</b>	<b>Year of Award</b>	
		A DNA construct for gene silencing in rice	278167	2016	

		None				
3.4.4	Number of Ph. Ds awarded per teacher during the last five years	<b>Name of the PhD scholar</b>	<b>Name of the Department</b>	<b>Name of the guide/s</b>	<b>Year of registration of the scholar</b>	<b>Year of award of PhD</b>
			See the attached table 3			
3.4.5	Details of research papers per teacher in the Journals notified on UGC website during the last five years	See the attached list				
3.4.6	Details of books and chapters in edited volumes / books published, and papers in national/international conference-proceedings per teacher during the last five years	See the attached list				
3.4.7	Bibliometrics of the publications during the last five years based on average citation index in Google Scholar/Scopus/ Web of Science or PubMed/ Indian Citation Index/Indexed Journals	Total number of journal citations received by publications in Google Scholar, SCOPUS, Web of Science, Indian Citation Index, indexed journals during last five years		8962/AKT, 5898/JPK		

		Total number of publications in Google Scholar, SCOPUS, Web of Science, Indian Citation Index, indexed journals during last five years ( from 2012-13 to 2012-17)			46/JPK		
<b>3.4.8</b>	<b>Bibliometrics of the publications during the last five years based on Scopus/ Web of Science – h-index of the university</b>	Total Number of overall citations				22-35	
<b>Key Indicator 3.5 Consultancy</b>							
<b>3.5.2</b>	<b>Revenue generated from consultancy during the last five years</b>	Names of the consultants	Name of consultancy project	Consulting/Sponsoring agency with contact details	Revenue generated (amount in rupees)	Total revenue generated in rupees	
<b>3.5.3</b>	<b>Revenue generated from corporate training by the institution during the last five years Documents:</b>	Names of the teacher-consultants	Title of the corporate training program	Agency seeking training with contact details	Revenue generated (amount in rupees)	Number of trainees	Total revenue generated in rupees

		<b>None</b>					
	<b>Key Indicator 3.6 Extension Activities</b>						
<b>3.6.2</b>	<b>Number of awards and recognition received for extension activities from Government / recognised bodies during the last five years</b>	Name of the activity	Name of the Award/ recognition	Name of the Awarding government/ recognised bodies	Year of the Award		
<b>3.6.3</b>	<b>Number of extension and outreach programs conducted in collaboration with industry, community and Non- Government Organizations through NSS/NCC/Red cross/YRC etc., during the last five years</b>	Name of the extension and outreach programs	Number of extension and outreach programs	Name of the collaborating agency: Non- government, industry, community with contact details			
<b>3.6.4</b>	<b>Average percentage of students participating in extension activities with Government Organisations, Non-</b>	Name of the activity	Name of the scheme	Year of the activity	Number of teachers participating in	Number of students participating	

	<b>Government Organisations and programs such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the last five years</b>					such activities	in such activities
		<b>Swachh Bharat</b>		2014	11	57	
<b>Key Indicator 3.7 Collaboration</b>							
<b>3.7.1</b>	<b>Number of Collaborative activities for research, faculty exchange, student exchange per year</b>	Title of the collaborative activity	Name of the collaborating agency with contact details	Source of financial support	Year of collaboration	Duration	Nature of the activity
		Newton-Bhabha Ph.D. Placement Programme	University of Leeds, UK	DBT & British Council	2016	6 months	Student Exchange

		Indo Dutch Collaborative research program on “Characterization of Molecular Components Involved in Pollen Abortion During High Temperature Stress”	DBT India and NOW Netherlands	DBT India	2015-2019	4 years	Collaborative research and personnel Interaction
<b>3.7.2</b>	<b>Number of linkages with institutions/industries for internship, on-the job training, project work, sharing of research facilities etc. during the last five years</b>	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Year of commencement	Duration(From-to)	Nature of linkage	

		<b>None</b>					
<b>3.7.3</b>	<b>Number of functional MoUs with institutions of national, international importance, other universities, industries, corporate houses etc. during the last five years (only functional MoUs with ongoing activities to be considered)</b>	<b>Organisation with which MoU is signed</b>	<b>Name of the institution/ industry/ corporate house</b>	<b>Year of signing MoU</b>	<b>Duration</b>	<b>List the actual activities under each MoU</b>	<b>Number of students/teachers participated under MoUs</b>
		Biotechnology Industry Research Assistance Council (BIRAC)	Nirmal Seeds, Pachora, Maharashtra	2012	Five years	Research and development	Five
		<b>none</b>					
<b>Criterion IV – Infrastructure and Learning Resources</b>							
<b>Key Indicator 4.1 Physical facilities</b>							
<b>Metric No.</b>	<b>Description</b> (as per NAAC Manual,	<b>Data Requirement from Department</b> (For Academic years 2012-13 to 2016-17)		<b>Academic Years 2012-13 to 2016-17</b>			



(as per NAAC Manual)	July 2017, for Reference purposes)		2012-13	2013-14	2014-15	2015-16	2016-17
4.1.1	Facilities for teaching - learning available in Dept./centre as per minimum requirements of statutory bodies	Facilities	Available in Department/ Centre				
		Classroom(only number and size in mtr. / square )					
		Laboratories (only number and size in mtr. / square )	One Lab exclusive for M.Sc. Practicals and there are seven computer labs equipped with 18 computers. All faculty Members has their own modern lab having latest technology for advanced studies used by Ph.D students registered with them. Beside that 2 Central facilities, one radioactivity room and 2 cold room are there.				
		Computing instruments (only number )	106 computers				
4.1.3	% of classrooms and seminar halls with ICT-enabled facilities such as smart class, LMS, etc.	Facilities	Number of Classrooms /Seminar Hall/ Smart class room				
		Classrooms with LCD	2				
		Classrooms with Wi-fi/LAN	2				
		Seminar halls with ICT facilities	1				
		Total No. Of classroom and seminar Hall in the department	2				
<b>Key Indicator - 4.2 Library as a Learning Resource</b>							
4.2.7	E-content developed by teachers 1. e-pathshala 2. For CEC (undergraduate) 3. For SWYAM 4. For other MOOCS	Name of the teacher	Name of the module	Platform on which module is developed	Date of launching e-content	Number of platforms on which e-content has been developed by teachers	

	<p><b>platform</b> For NPTEL/ NMEICT/ other Government facilities</p> <p><b>5. For institutional LMS</b></p> <p><b>Options:</b> 1. any 5 of above 2. any 4 of above 3. any 3 of above 4. any 2 of above 5 None of the above</p> <p><b>Opt Any One</b></p>					
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**Key Indicator 4.3 IT infrastructure**

4.3.2	Student- Computer ratio in Dept./Centre	No. of working computers	Total no. of students	
		106	53	
4.3.4	Facilities for e-content development such as Media centre, Recording facility Lecture Capturing System (LCS)			

**CRITERION V: STUDENT SUPPORT AND PROGRESSION**

**Key Indicator - 5.1 Student Support**

Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17				
			2012-13	2013-14	2014-15	2015-16	2016-17

5.1.1	Average percentage of students benefited by scholarships and free-ships provided by the Government during the last five years	Number of students benefited					
		Total no of student					
5.1.2	Average percentage of students benefited by scholarships, free-ships, etc. provided by the University besides government schemes during the last five years	Number of students benefited	10	10	10	10	10
		Name of the scheme with contact information					
5.1.3	Number of capability enhancement and development Scheme (Total number in last five years)	1.Guidance for competitive examinations	None				
		2. Career Counselling	Informal Counselling is provided by all teachers				
		3. Soft skill development					
		4. Remedial coaching					
		5. Language lab					
		6. Bridge courses					
		7. Yoga and Meditation					
		8. Personal Counselling					
					None		
			None				
5.1.4	Average percentage of students benefited by guidance for competitive examinations and career counselling offered by the University during the last five years	Number of students who have passed in the competitive exam					
		Number of students placed					
		Name of the scheme	None				

### Key Indicator - 5.2 Student Progression

<b>5.2.1</b>	<b>Average percentage of placement of outgoing students during the last five years</b>	Name of the employer with contact details					
		Number of students placed					
		Total no. of outgoing students who opted for campus placement					
<b>5.2.2</b>	<b>Percentage of student progression to higher education (previous graduating batch)</b>	Number of students proceeding from					
		UG to PG	N/A	N/A	N/A	N/A	N/A
		PG to MPhil	N/A	N/A	N/A	N/A	N/A
		PG to PhD	10	20	30	20	30
		MPhil to PhD	N/A	N/A	N/A	N/A	N/A
		MPhil to PhD	N/A	N/A	N/A	N/A	N/A
		PhD to Post doctoral	N/A	10	N/A	N/A	N/A
		Total No. of final year students Post Graduate: M.Phil: Ph.D:	M.Sc.10	M.Sc.12	M.Sc.11	M.Sc.10	M.Sc.10
<b>5.2.3</b>	<b>Average percentage of students qualifying in state/ national/ international level examinations during the last five years (eg: NET/SLET/GATE/GMAT/CAT / GRE/TOEFL/Civil Services/State government examinations)</b>	Number of students selected to					
		NET	1	3	2	3	3
		SLET					
		GATE	2			1	
		GMAT					
		CAT					
		GRE					
		TOEFL					
		CIVIL SERVICES					
		STATE GOVERNMENT EXAMINATIONS					
Please provide some exemplary documentary evidence from students/alumni data base							

		Total number of students who appeared in National/ International exams	<b>12</b>	<b>12</b>	<b>12</b>	<b>10</b>	<b>12</b>
<b>Key Indicator-5.4 Alumni Engagement</b>							
<b>5.4.2</b>	<b>Alumni contribution during the last five years</b>	Alumni contribution during the last five years					
		Options: A. $\geq$ 100 Lakhs B. 50Lakhs - 100 Lakhs C. 20 Lakhs - 50 Lakhs D. 5 Lakhs - 20 Lakhs E. <5 Lakhs	<b>None</b>				
		Name of the alumnus/ alumni association:					
		Quantum of contribution:					
		N/A					
<b>5.4.3</b>	<b>Number of Alumni Association /Chapters meetings held during the last five years</b>	Number of alumni association meetings					
		Dates of meetings					
<b>Criterion VI: Governance, Leadership and Management</b>							

**Key Indicator - 6.3 Faculty Empowerment Strategies**

Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17				
			2012-13	2013-14	2014-15	2015-16	2016-17
6.3.4	Number of teachers attending professional development programme Viz. Orientation programme, Refresher course, Short term course, Faculty Development Programme	Orientation programme					
		Refresher course		2			
		Short Term Course					
		Faculty Development Programme					

**Supporting Documents Required:** Reports of the Human Resource Development Centres (UGC- ASC or other relevant centres);

**Criterion VII – Institutional Values and Best Practices**

**Key Indicator - 7.1 Institutional Values and Social Responsibilities**

Metric No. (as per NAAC Manual)	Description (as per NAAC Manual, July 2017, for Reference purposes)	Data Requirement from Department (For Academic years 2012-13 to 2016-17)	Academic Years 2012-13 to 2016-17				
			2012-13	2013-14	2014-15	2015-16	2016-17
<b>7.1.1 Gender Equity</b>							
7.1.1.1	Number of gender equity promotion programs organized by the Department during the last five years	Number of gender equity promotion programs					
			None				
7.1.2.1	Percentage of power requirement of the department met by the renewable energy sources	Power requirement met by renewable energy sources		Total power requirement			
7.1.2.6	Average percentage expenditure on green initiatives and waste management excluding salary component during the last five years	Expenditure on green initiatives and waste management excluding salary component		Annual expenditure excluding salary component of the department			
7.1.3	Differently abled (Divyangjan) Friendliness	1. Physical facilities					
		2. Provision for lift		<b>Yes</b>			

	<b>Resources available in the department</b>	3. Ramp / Rails		<b>Yes</b>			
		4. Braille Software/facilities					
		5. Rest Rooms					
		6. Scribes for examination					
		7. Special skill development for differently abled students					
		8. Any other similar facility (Specify)					
		<b>D. (At least 2 of the above)</b>					
<b>7.1.4 Inclusion and Situatedness</b>							
<b>7.1.4</b>	<b>Number of specific initiatives to address locational advantages and disadvantages during the last five years</b>	Number of initiatives to address locational advantages and disadvantages					
		Number of initiatives taken to engage with and contribute to local community during the last five years (Not addressed elsewhere)					
<b>7.1.5 Human Values and Professional Ethics</b>							
<b>7.1.5</b>	<b>Code of conduct handbook exists for students, teachers, governing body, administration including Vice Chancellor / Director / Principal /Officials and support staff</b>	(Yes)					



7.1.5	Display of core values in the institution and on its website	(Yes)					
7.1.5	The Department plans and organizes appropriate activities to increase consciousness about national identities and symbols; Fundamental Duties and Rights of Indian citizens and other constitutional obligations	(Yes)					
7.1.5	The Department offers a course on Human Values and professional ethics.	(No)					
7.1.5	The Departmental functioning is as per professional code of prescribed / suggested by statutory bodies / regulatory authorities for different professions.	(yes)					
7.1.5	Number of activities conducted for promotion of universal	Title of the Programme/Activity					
		Duration (From-to)					
		Number of participants					

	<b>values (Truth, Righteous conduct, Love, Non-Violence and peace); national values, human values, national integration, communal harmony and social cohesion as well as for observance of fundamental duties during the last five years</b>	None	
<b>7.1.5</b>	<b>Department organizes national festivals and birth / death anniversaries of the great Indian personalities.</b>	(No)	None
<b>7.1.5</b>	<b>The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions</b>	(Yes).	<b>Yes</b>

**Annexure 1****DEPARTMENT OF PLANT MOLECULAR BIOLOGY - List of all students**

Sl No.	Name of the Scholar	Class	Gender	Student Id Number	Aadhar Id Number	Mobile Number	Email Id
1	Amit Kumar	M.Sc.	M	16PMBB1031986	563364000000.00	9911980753	amitkumar.23101994@gmail.com
2	Bhavya Shree	M.Sc.	F		752777053439.00	9643865857	<a href="mailto:bhavya-shree-8@yahoo.co.in">bhavya-shree-8@yahoo.co.in</a>
3	Gayatri Tripathi	M.Sc.	F	16PMBB1064891	773620000000.00	9540107242	gayatri.sahavi4296@gmail.com
4	Neelam	M.Sc.	F	1 6PMBB1 0421 33	367766000000.00	9871556384	neelam030396@gmail.com
5	Nikhil	M.Sc.	F	16PMBB1006259	308280000000	8010629979	<a href="mailto:nikhilkhatana0833@gmail.com">nikhilkhatana0833@gmail.com</a>
6	Prakhar	M.Sc.	M	16PMBB1072629	479124677127	8468963395	<a href="mailto:prakhar9t6@gmail.com">prakhar9t6@gmail.com</a>
7	Shivangi Dabas	M.Sc.	F		883242000000	8800944131	sdshivangi@gmail.com
8	Somesh Thapliyal	M.Sc.	M	16PMBB100660	608107000000.00	9871148569	dlf.somesh@gmail.com
9	Suraj Singh	M.Sc.	M	16PMBB1057706	303115000000.00	7836001705	surajsingh740@gmail.com
10	Swati Mahiwal	M.Sc.	F	16PMBB1022081	303115100171.00	7836001705	swati271095@gmail.com

11	Tonu Angaila Chithung	M.Sc.	F	16PMBB1041736	650202000000.00	9718971017	<a href="mailto:angailachithung@gmail.com">angailachithung@gmail.com</a>
12	Aakriti Jain	M.Sc.	F	17PMBB1033459	864151555710.00	9643868142	<a href="mailto:aakritij95@gmail.com">aakritij95@gmail.com</a>
13	Ankit	M.Sc.	M	17PMBB1032201	336663329590.00	9990827202	<a href="mailto:aakritij95@gmail.com">aakritij95@gmail.com</a>
14	Atreyee Sardar	M.Sc.	F	17PMBB1000817	403026433850.00	9899784797	<a href="mailto:ankit.smart101.as@gmail.com">ankit.smart101.as@gmail.com</a>
15	Himanshi Choudhary	M.Sc.	F	17PMBB1020137	730564724456.00	9654604869	<a href="mailto:himanshi1227@gmail.com">himanshi1227@gmail.com</a>
16	Himanshi Gautam	M.Sc.	F	17PMBB1020137	969255044675.00	9891885665	<a href="mailto:himanshi941996@gmail.com">himanshi941996@gmail.com</a>
17	Monika Shrivastva	M.Sc.	F	17PMBB1044854	221652774275.00	783807013	<a href="mailto:monikasrivastava49@gmail.com">monikasrivastava49@gmail.com</a>
18	Nidhi Yadav	M.Sc.	F	17PMBB1053578	917352017374.00	8218307426	<a href="mailto:nidhiyadav9999@gmail.com">nidhiyadav9999@gmail.com</a>
19	Sarvesh Jamwal	M.Sc.	F	17PMBB1071691	831142382056.00	9971984828	<a href="mailto:sarvesh973@gmail.com">sarvesh973@gmail.com</a>
20	Shivam Chaudhary	M.Sc.	M	17PMBB1084014	289430771844.00	7042833390	shivam44441@gmail.com
21	Shruti Saini	M.Sc.	F	17PMBB1044411	976979795666.00	8818307426	<a href="mailto:shrutisaini09@gmail.com">shrutisaini09@gmail.com</a>
22	Aishwarye Sharma	Ph.D	M	SF-1/Ph.D./2017/1180	560704394899.00	9643948583	
23	Barkha Ravi	Ph.D	F	SF-1/Ph.D./2017/1182		9910133276	<a href="mailto:barkha.ravi06@gmail.com">barkha.ravi06@gmail.com</a>
25	Harsha Samtani	Ph.D	F	SF-1/Ph.D./2017/1181	997683060784.00	971012560	<a href="mailto:harshasimply.sam@gmail.com">harshasimply.sam@gmail.com</a>

26	Lisha Khungar	Ph.D	F	SF-1/Ph.D./2016/1114	962545454006.00	9971967487	-
28	Ringyao Jajo	Ph.D	M	SF-1/Ph.D./2016/1114	882577497648.00	7975056445	
29	Sanchi Bhimrajka	Ph.D	F	SF-1/Ph.D./2017/1186	8130364798	8130364798	<a href="mailto:sanchi25bhimrajka@gmail.com">sanchi25bhimrajka@gmail.com</a>
30	Ankita Prusty	Ph.D	F	SF-1/Ph.D./2016/1114	259868185527	8745033634	<a href="mailto:ankitaprusty10@gmail.com">ankitaprusty10@gmail.com</a>
31	Shipra Singh	Ph.D	F	SF-1/Ph.D./2016/1116	402439429093	9711607389	<a href="mailto:14.shiprasingh@gmail.com">14.shiprasingh@gmail.com</a>
32	Amarjot Kaur	Ph.D	F	SF-1/Ph.D/2011/835	936015303837.00	9968213913	<a href="mailto:just_amar1988@yahoo.co.in">just_amar1988@yahoo.co.in</a>
33	Satyam Vergish	Ph.D	M	SF-1/Ph.D/2013/940	518225492441.00	8010776346	<a href="mailto:satyamvergish@gmail.com">satyamvergish@gmail.com</a>
34	Nitin Jain	Ph.D		SF-1/Ph.D/2011/837	840998878285.00	9811110634	<a href="mailto:jainnitin865@gmail.com">jainnitin865@gmail.com</a>
35	Akanksha Bhatnagar	Ph.D		SF-1/Ph.D/2013/925	301847204732.00	16.04.2013	<a href="mailto:akankshabhatnagar88@gmail.com">akankshabhatnagar88@gmail.com</a>
36	Eshan Sharma	Ph.D	M	SF-1/Ph.D/2012/908	807939255377	16.11.2012	<a href="mailto:esh15sharma@gmail.com">esh15sharma@gmail.com</a>

37	Chanderkant Chowdhary	Ph.D	M	SF-1/Ph.D./2012/960	632364840765	12.7.2012	<a href="mailto:ckryptone@gmail.com">ckryptone@gmail.com</a>
38	Naveen Sharma	Ph.D	M	SF-1/Ph.D./2011/841	253000276924	29.7.2011	<a href="mailto:naveenla10sharma@gmail.com">naveenla10sharma@gmail.com</a>
39	Nikita Sharma	Ph.D	F	SF-1/Ph.D./2017/1158	987174480807	9718793864	<a href="mailto:nsnikitasharma9@gmail.com">nsnikitasharma9@gmail.com</a>
40	Nisha Negi	Ph.D	F	SF-1/Ph.D./2013/966	489677457869	9899948079	<a href="mailto:nisha.negi@south.du.ac.in">nisha.negi@south.du.ac.in</a>
41	Shaloo Meena	Ph.D	F	SF-1/Ph.D./2015/1040	698619714109	22.5.2015	<a href="mailto:shaloomeena@gmail.com">shaloomeena@gmail.com</a>
42	Garima Singh	Ph.D	F	SF-1/Ph.D./2013/939	4996 7889 8822	22.7.2013	<a href="mailto:shinggarima.gs@gmail.com">shinggarima.gs@gmail.com</a>
43	Lalit Dev Tiwari	Ph.D	M	SF-1/Ph.D./2013/927	489299301752	8447886934	<a href="mailto:lalit25dev@gmail.com">lalit25dev@gmail.com</a>
44	Richa Babbar	Ph.D	F	SF-1/Ph.D./2013/933	(Voter ID) SJE0588509	22.7.2013	<a href="mailto:richapilani@gmail.com">richapilani@gmail.com</a>
45	Rinchuila Shimpurrai	Ph.D	F	SF-1/Ph.D./2016/1117	(Voter ID) MMJ0350272	7838997169	<a href="mailto:rinchuila2014@gmail.com">rinchuila2014@gmail.com</a>
46	Ritesh Kumar	Ph.D	M	SF-1/Ph.D./2013/941	985362866414	8826654124	<a href="mailto:saklani.ritesh@gmail.com">saklani.ritesh@gmail.com</a>
47	Gaurav Kumar	Ph.D	M	SF-1/Ph.D./2011/849	446946361115.00	11.11.2011	

48	Kamlesh Kumari	Ph.D	F	SF-1/Ph.D./2015/1059	Voter I card ALW0179507	8800463985	<a href="mailto:kamlesh.kumar407@gmail.com">kamlesh.kumar407@gmail.com</a>
49	Kanika Gupta	Ph.D	F	SF-1/Ph.D./2015/1057	235026605807.00	9654218302	<a href="mailto:kanikagupta1903@gmail.com">kanikagupta1903@gmail.com</a>
50	Madhvi Naresh	Ph.D	F	SF-1/Ph.D./2014/987	387163833328.00	9910410465	<a href="mailto:madhvinaresh9@gmail.com">madhvinaresh9@gmail.com</a>
51	Gautam Gawande	Ph.D	M	SF-1/Ph.D./2015/1056	228095607200	9717482260	<a href="mailto:gawandegautam2412@gmail.com">gawandegautam2412@gmail.com</a>
52	Neelima Boora	Ph.D	F	SF-1/Ph.D./2015/1060	Passport Number K33393497	8882262266	<a href="mailto:neelimaboora7@gmail.com">neelimaboora7@gmail.com</a>
53	Ridhi Khurana	Ph.D	F	SF-1/Ph.D./2017/1157	463276785813	9811458045	<a href="mailto:khuranaridhi@gmail.com">khuranaridhi@gmail.com</a>
54	Vibha Verma	Ph.D	F	SF-1/Ph.D./2013/929	589256669101	9953226849	<a href="mailto:vibhalverma@gmail.com">vibhalverma@gmail.com</a>
55	Amrapali	Ph.D	F	SF-1/Ph.D./2012/904	230043191551	9899816508	<a href="mailto:sharmaamrapali4@gmail.com">sharmaamrapali4@gmail.com</a>

56	Bhoomika	Ph.D	F	SF-1/Ph.D./2016/1115	761092853200	9871285248	<a href="mailto:bhoomika124@gmail.com">bhoomika124@gmail.com</a>
57	Priya Gambhir	Ph.D	F	SF-1/Ph.D./2015/1062	297153682352	9999079555	<a href="mailto:priyagambhir5@gmail.com">priyagambhir5@gmail.com</a>
58	Utkarsh Raghuvanshi	Ph.D	M	SF-1/Ph.D./2014/999	(Voter ID) KNV4564068	9654042105	<a href="mailto:utkarsh@genomeindia.org">utkarsh@genomeindia.org</a>
59	Vijendra Singh	Ph.D	M	SF-1/Ph.D./2015/1065	533775373673		
60	Indu Tokas	Ph.D		SF-1/Ph.D./2011/840			
61	Kanwaljeet Kaur	Ph.D	F	SF-1/Ph.D./2015/1039	615218546954	9911081637	<a href="mailto:kanwaljeet008@gmail.com">kanwaljeet008@gmail.com</a>
62	Manisha Sharma	Ph.D	F	SF-1/Ph.D./2014/989	660609876662	9818062472	<a href="mailto:manishasharma.pmb@gmail.com">manishasharma.pmb@gmail.com</a>
63	Sibaji K. Sanyal	Ph.D		SF-1/Ph.D./2014/1024	779603392008	8860532367	<a href="mailto:SIBAJISANYAL@GMAIL.COM">SIBAJISANYAL@GMAIL.COM</a>
64	Saroj Kumar Jha	Ph.D	M	SF-1/Ph.D./2014/975	8826072632	8826072632	<a href="mailto:saroj.pmb@gmail.com">saroj.pmb@gmail.com</a>



65	Deepika Sharma	Ph.D	F	SF-1/Ph.D./2015/1055	798135565269	8588035484	<a href="mailto:dpksharma188@gmail.com">dpksharma188@gmail.com</a>
66	Pratibha Gour	Ph.D	F	SF-1/Ph.D./2015/1016	885387501542	8377021732	<a href="mailto:pratibha.gour@gmail.com">pratibha.gour@gmail.com</a>
67	Santosh Kumar	Ph.D	M	SF-1/Ph.D./2012/897	(Passport No. J-3387558)	9818091078	<a href="mailto:roy.santosh8@gmail.com">roy.santosh8@gmail.com</a>
68	Vaishali	Ph.D	F	SF-1/Ph.D./2016/1118	580547215504	9990787494	<a href="mailto:vaishali0803@gmail.com">vaishali0803@gmail.com</a>
69	Balaji M.	Ph.D	M	SDC-12/12	653915388188.00	9560035696	<a href="mailto:ijalab123@gmail.com">ijalab123@gmail.com</a>
70	Cheeni Vijayakumar	Ph.D	M	SF-1/Ph.D./2013/926	237939439213	7503017838	<a href="mailto:cvijaykumarreddy@gmail.com">cvijaykumarreddy@gmail.com</a>
71	Jyothish M.S.	Ph.D	M	SF-1/Ph.D./2012/899	693808792919	8800523700	<a href="mailto:jyotishmandani@gmail.com">jyotishmandani@gmail.com</a>

## Annexure - 2

<b>S. No</b>	<b>Title of Project</b>	<b>Investigator(s)</b>	<b>Department of Principal Investigator</b>	<b>Year of Award</b>	<b>Funds provided/in lakhs</b>	<b>Duration of the project/Years</b>	<b>Funding Agency</b>	<b>Total amount of funds received/in lakhs</b>
1.	Development of knowledge based database of rice	Dr. S. Raghuvanshi	DPMB	2009-2013	135.9	5	DBT	135.9
2.	RNAi mediated down regulation of CBL-CIPKs and phosphatases in Rice in Abiotic stress condition and their Biotechnological implication.	Dr. Girdhar K. Pandey	DPMB	2010-2013	26.20	4	DBT	28.39
3.	SNP discovery and trait-specific global transcriptome analysis of Indian mulberry” between DU and the Department of Crop Physiology, University of Agricultural Sciences, GKVK Campus, Bangalore.	Prof. P.Khurana	DPMB	2010-2015	62.41	5	DBT	62.41
4.	“Physical mapping and sample sequencing of wheat chromosome 2A – International Wheat Genome Sequencing Consortium (India)” jointly with DU and two other collaborating Institutes, Indian Agricultural Research Institute, New Delhi and Punjab Agricultural University, Ludhiana.	Prof. J.P. Khurana Prof. P. Khurana	DPMB	2010-2015	751.46	5	DBT	751.46
5.	J.C. Bose Fellowship	Prof. Anil Grover	DPMB	2011-2016	68.2	5	DST	87.60

6.	Transcriptome analysis and genetic manipulation of tomato targeted at folate enhancement	Dr. A. K. Sharma	DPMB	2011-2016	190.00	5	DBT	128.96
7.	Multiplication and field evaluation of transgenic mulberry for the abiotic stress tolerance and suitability for silk rearing.	Prof. Paramjit Khurana	DPMB	2013-2017	31.56	4	DBT	31.56
8.	J.C. Bose Fellowship	Prof. Paramjit Khurana	DPMB	2012-2017	68.00	5	DST	68
9.	Functional genomics of thermal stress in Indian Wheat	Prof. Paramjit Khurana	DPMB	2014-2017	58.87	3	DBT	54.66
10.	Development of viral resistant okra using RNAi approach.	Prof. I. Dasgupta Dr. A. K. Sharma	DPMB	2012-2017	100.00	5	DBT/BIPP	69.89
11.	Functional dissection of geminiviral promoters for developing heterologous gene expression systems.	Prof. I. Dasgupta	DPMB	2012-2015	28.80	3	DBT/BICL	28.80
12.	Deciphering the role of <i>Oryza sativa</i> heat shock transcription factors during leaf senescence.	Dr. S. Katiyar - Agarwal	DPMB	2012-2015	10.33	3	UGC	10.33
13.	Whole genome and transcriptome changes as a consequence of allo and auto polyploidy in <i>Vigna L.</i>	Dr. S. Katiyar - Agarwal	DPMB	2012-2015	46.55	3	DBT-NER	46.55
14.	J.C. Bose Fellowship	Prof. J.P. Khurana	DPMB	2012-2017	68.00	5	DST	54.40
15.	Functional Characterization of voltage-dependent anion channel (VDAC) gene family in <i>Arabidopsis</i> under oxidative stress and	Dr. Girdhar K. Pandey	DPMB	2013-2016	24.18	3	DAE/BRNS	25.81

	potassium derived conditions.							
16.	CPMB Phase IV – Centre for Advance Research and Innovation on Plant Stress and Developmental Biology	Prof. J.P. Khurana Prof. A. K. Tyagi Prof. Paramjit Khurana Prof. Anil Grover	DPMB	2013-2016	367+181 For entire Centre	3	DBT	353
17.	Investigating the role of rice tetraspanin proteins in abiotic stress and development	Dr S. Katiyar- Agarwal	DPMB	2013-2016	51.81	3	DBT	51.98
18.	Delay of fruit ripening of tomato by expression of mutant etr1-1 gene encoding ethylene receptor of <i>Arabidopsis</i>	Dr. A. K. Sharma	DPMB	2013-2016	27.00	3	DBT	27
19.	Functional Analysis of genes involved in regulating photomorphogenesis and abiotic stress tolerance in plants	Prof. J.P. Khurana	DPMB	2013-2018	68.00	5	DST/ SERB	53.80 1
20.	Functional analysis of rice calcineurin B-like associated kinase, OsCIPK25 in abiotic stress conditions	Dr. Girdhar K. Pandey	DPMB	2014-2016	23.00	2	CSIR	17.32
21.	Enhancement of starch accumulation and grain filling by dual specificity protein phosphatase AtDSP in <i>Arabidopsis</i> and OsPP42 in rice	Dr.Girdhar K. Pandey	DPMB	2014-2017	53.10	3	DBT	49.00
22.	Genetic analysis of the regulation of Hsp 100	Prof. Anil Grover	DPMB	2014-2017	95.00	3	DST	44.00

	promoter activity by heat shock in rice and <i>Arabidopsis</i>							
23.	Tomato ripening network	Dr. A. K. Sharma	DPMB	2015-2020	130.98	5	DBT	76,35,372
24.	Characterization of Molecular Components Involved in Pollen Abortion During High Temperature Stress	Prof. Sanjay Kapoor	DPMB	2015 – 2019	150.07	4	DBT-NWO	36.55
25.	Sub-project IV: Characterization of Gene Regulatory Networks and Transcriptional Mechanisms that Control Male Gametophyte, under National Rice Functional Genomics Consortium Project entitled, Development in Rice Functional Characterization of Genetic and Epigenetic Regulatory Networks Involved in the Reproductive Development in Rice	Prof. Sanjay Kapoor	DPMB	2015 – 2020	167.40	5	DBT	23.20
26.	Functional validation of genes involved in regulating transition to flowering in rice.	Prof. J.P. Khurana	DPMB	2015-2020	138.00	5	DBT	59.20
27.	Functional characterization of Arabidopsis CCX 1 and 2 (Ca <sup>2+</sup> Cation exchangers) under abiotic stress conditions	Prof. Girdhar K. Pandey	DPMB	2015-2017	48.79	2	DBT	37.16
28.	Functional characterization of rice CCX2 (Ca <sup>2+</sup> cation exchangers) under abiotic stress conditions.	Prof. Girdhar K. Pandey	DPMB	2015-2017	41.12	2	DBT 46.43	35.00

29.	J.C.Bose fellowship	Professor Akhilesh K. Tyagi	DPMB	2015-2017	1,2110,000/	7	DST	1,07,70,000 /
30.	Functional characterization of genetic and epigenetic regulatory networks involved in the reproductive development in rice	Professor Akhilesh K. Tyagi	DPMB	2015-2017	1,96,10,400/	5	DBT	93,02383
31.	Regulation of ripening in tomato by manipulation of epigenome	Prof. A. K. Sharma	DPMB	2015-2017	9.74	5	DBT	23,53,000