



# ARIIA

## ATL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



**MHRD**  
Ministry of Human  
Resource Development  
Government of India

### Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2019-20

Institute Name: K. J. Somaiya College of Engineering [ARI-C-33584]

### Pre-Qualifier (Basic Data Requirement For Financial Year (2018-19))

Name of the Institute/ University/ Group of Institutions and any Autonomous Body ( Incubation Unit/Research Park etc.) located within same campus	Total Annual Expenditure of Institute/ University/ Group of Institutions/ any Autonomous Body ( Incubation Unit/ Research Park etc.) located within same campus (Rupees in Figure)	Total Annual Income of Institute/ University/ Group of Institutions/ any Autonomous Body ( Incubation Unit/ Research Park etc.) located within same campus (Rupees in Figure)	Balance Sheet, Income & Expenditure (or) Payment & Receipt Account for FY 2018-19 (Only PDF)
K. J. Somaiya College of Engineering	458625455.00	484698061.00	Document Uploaded in ARIIA DSP
Total (Rupees in Figure)	458625455.00	484698061.00	

**Institute Type : Colleges/Institutes (Private / Self Financed)**

**Total Student Base ( Enrolled Full Time) for all the Academic Programs Offered by Institute/University (Academic Year 2018-19) := 3003**

**Total Faculty Base ( Full Time) Engaged in Teaching and Research at Institute/University (Academic Year 2018-19) := 178**

### Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/rec eived fund to organise the program/acti vity/event?	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)
KJSCE Hack	Innovation	Hackathon	Institute Lead Activity	Code Cell	05-10-2019 00:00:00	06-10-2019 00:00:00	2	Within Campus	103	2	133	0	238	Yes	220000
Crackathon	Innovation	Hackathon	Institute Lead Activity	Code Cell	11-10-2019 00:00:00	11-10-2019 00:00:00	1	Within Campus	40	2	100	0	142	Yes	15000
Competitive Programming Boot Camp	Innovation	Boot Camp	Institute Lead Activity	Code Cell	29-08-2019 00:00:00	30-08-2019 00:00:00	2	Within Campus	80	2	0	0	82	No	---
Introduction to Python (FY)	Innovation	Workshop	Institute Lead Activity	Code Cell	26-08-2019 00:00:00	27-08-2019 00:00:00	2	Within Campus	228	2	0	0	230	No	---
Automation with Python	Innovation	Workshop	Institute Lead Activity	Code Cell	03-08-2019 00:00:00	03-08-2019 00:00:00	1	Within Campus	31	2	36	0	69	No	---
Ways to become a successful Entrepreneur	Entrepreneurship/Startup, Innovation	Motivational Speak	Institute Lead Activity	BloomBox	10-08-2018 00:00:00	10-08-2018 00:00:00	1	Within Campus	100	2	0	0	102	No	---

### Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

Entrepreneurship - The Long March of an Entrepreneur	Entrepreneurship/Startup, Innovation	Motivational Speak	Institute Lead Activity	BloomBox	23-08-2018 00:00:00	23-08-2018 00:00:00	1	Within Campus	145	2	0	0	147	No	---
B-Plan Workshop	Entrepreneurship/Startup, Innovation	B-Plan Workshop	Institute Lead Activity	BloomBox	13-08-2018 00:00:00	13-08-2018 00:00:00	1	Within Campus	60	2	0	0	62	No	---
Blockchain Technology Seminar	Entrepreneurship/Startup	seminar	Institute Lead Activity	BloomBox	13-10-2018 00:00:00	13-10-2018 00:00:00	1	Within Campus	75	2	0	0	77	No	---
Ennovate 19	Entrepreneurship/Startup, Innovation	B-Plan Competition	Institute Lead Activity	BloomBox	05-04-2019 00:00:00	05-04-2019 00:00:00	1	Within Campus	60	2	0	0	62	No	---
Hack IOT	Innovation	Business Model and Hands-On workshop	Institute Lead Activity	Bloombox	03-11-2018 00:00:00	04-11-2018 00:00:00	2	Within Campus	50	1	0	0	51	No	---
Speaker Session on Women in Entrepreneurship	Entrepreneurship/Startup, Innovation	Seminar and Motivational Speak	Institute Lead Activity	BloomBox	29-01-2019 00:00:00	29-01-2019 00:00:00	1	Within Campus	40	2	0	0	42	No	---
Blockchain The Future of Money, Governance and Law	Innovation	Skill development	Institute Lead Activity	BloomBox	19-12-2018 00:00:00	19-12-2018 00:00:00	1	Within Campus	75	0	0	0	75	No	---
Global Blockchain Hackathon	Entrepreneurship/Startup, Innovation	Hackathon	Institute Lead Activity	BloomBox	21-12-2018 00:00:00	22-12-2018 00:00:00	2	Within Campus	73	1	50	0	124	No	---

### Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by reputed external institutions or agencies at national or international level

Name of Program (Full Name)	Program Theme	Program Type	Organizing Agency / Institute Name	Organizing Agency Type	Program Start Date	Program End Date	Program Duration(in Days)	Participants (Students)	Participants (Faculty)	Total Number of Participants	Awards/Recognitions/Achievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/received fund towards sending delegation to participate/represent the program/activity/event?	Total Expense Amount Incurred by Institute? (In Rupees)
Smart India Hackathon	Entrepreneurship/Startup	Hackathon	MHRD	Govt. Agency (Central)	02-03-2019 00:00:00	03-03-2019 00:00:00	2	300	15	315	Yes	Winner of Complex Category	Chatbot for eGovernance	Yes	38350

**Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by reputed external institutions or agencies at national or international level**

Smart India Hackathon	Entrepreneurship/Startup	Hackathon	MHRD	Govt. Agency (Central)	02-03-2019 00:00:00	03-03-2019 00:00:00	2	300	15	315	Yes	Winner of Complicated Category	Mobile App and Web portal for officers or officials availability status	Yes	20760
Smart India Hackathon	Entrepreneurship/Startup	Hackathon	MHRD	Govt. Agency (Central)	02-03-2019 00:00:00	03-03-2019 00:00:00	2	300	15	315	Yes	Winner of Complex Category	TechAgri	Yes	25000
Smart India Hackathon	Entrepreneurship/Startup	Hackathon	MHRD	Govt. Agency (Central)	02-03-2019 00:00:00	03-03-2019 00:00:00	2	300	15	315	Yes	Winner of Complicated Category	Diagnosis of acute diseases in villages and smaller towns using AI	Yes	35600
IBM Hack challenge, 2019	Innovation	Hackathon	IBM	Corporate / Industry Association	26-09-2019 00:00:00	28-09-2019 00:00:00	3	3	0	3	No	---	---	No	---
ECI-ISTE Chhatra Vishwakarma Awards	Innovation	Innovation Contest	AICTE	Govt. Agency (Central)	20-01-2019 00:00:00	21-01-2019 00:00:00	2	3	1	4	No	---	---	No	---
E-Summit I Hack Hackathon	Innovation	Innovation Contest	IIT Bombay	Educational Institute	19-01-2019 00:00:00	20-01-2019 00:00:00	2	4	0	4	Yes	first	Project CryptoPass under Blockchain track	No	---
Vigyaaan	Innovation	Demo day and exhibition	Daimler India Commercial Vehicles	Corporate / Industry Association	04-03-2019 00:00:00	04-03-2019 00:00:00	1	60	1	61	Yes	First Runner Up	Vigyaaan organised by Daimler India Commercial Vehicles in March 2019	No	---
SAE Aero Design East in Texas, USA	Innovation	Demo Day and exhibition	Lockheed Martin	International Agencies	08-03-2019 00:00:00	10-03-2019 00:00:00	3	19	1	20	No	---	---	Yes	650000
ABU Robocon at IITD, Delhi	Innovation	Innoation Contest	IIT Delhi	Educational Institute	16-06-2019 00:00:00	16-06-2019 00:00:00	1	32	1	33	No	---	---	Yes	200000
Formula Student East	Innovation	Engineering Design competition for a single seater formula style racecar prototype	SAE	International Agencies	17-07-2018 00:00:00	22-07-2018 00:00:00	6	40	0	40	Yes	Business Plan Presentation	5th Place - 1st Indian Team to reach Business Plan Finals round	Yes	3800000
BITCAMP national level Hackathon conducted by Computer Society of India	Innovation	Innovation Contest	RAIT ,navi mumbai	Educational Institute	30-03-2019 00:00:00	31-03-2019 00:00:00	2	2	1	3	Yes	First Prize	Project titled as Contact-Less Heart Beat Estimator	No	---

**Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by reputed external institutions or agencies at national or international level**

eYantra Ideas Competition	Innovation	Innovation Contest	IIT Bombay	Educational Institute	06-04-2019 00:00:00	06-04-2019 00:00:00	1	4	1	5	Yes	Best Award	Autonomous Surface Rover and Underwater Inspection System	No	---
International Exhibition of MET, HTS	Innovation	Innovative use of materials	ASM India Chapter	Corporate / Industry Association	27-09-2018 00:00:00	29-09-2018 00:00:00	3	10	1	11	Yes	Innovative use if Materials	2nd Place for Carbon Fiber chassis	Yes	15000
National Finals of Eyantra robotics competition (e-YRC 2018)	Innovation	innovation contest	IIT Bombay	Educational Institute	29-03-2019 00:00:00	30-03-2019 00:00:00	2	4	0	4	Yes	3rd position	Nutty Squirrel Eyantra robotics competition (e-YRC 2018)	No	---
Vigyaan 2019 Chennai	Innovation	Innovation Contest	Daimler India Commercial Vehicles Pvt. Ltd	International Agencies	04-03-2019 00:00:00	04-03-2019 00:00:00	1	4	1	5	Yes	1st Runner up	Adjustable Blade AntiRoll Bar	No	---
Medical Device Hackathon MEDHA 2019	Innovation	Innovation Contest	Haffkin Institute Lower Parel, Mumbai	Educational Institute	13-07-2019 00:00:00	14-07-2019 00:00:00	2	3	1	4	Yes	Excellent Performance Certificate	medical device innovation brings your idea to life	No	---
Capture the Flag Contest	Innovation	Innovation Contest	Vishwa Vidyapeetham, Amrita Puri, Kollam	Educational Institute	20-12-2018 00:00:00	20-12-2018 00:00:00	1	5	1	6	Yes	2nd prize and INR 30000 cash prize	Capture the Flag	No	---

**Courses on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period 2018-19**

Title of Course/Subject Offered	Program Theme	Type of Course	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Enrolment Number	Total Number of Students Completed	Total Numbers of Contact Hours of Course
Gentle Introduction of Tensorflow for Machine Learning	Innovation	Elective/Core Credit Course	Credit Course (Elective)	22-07-2019 00:00:00	23-10-2019 00:00:00	94	Offline	7	7	35
CISCO networking devices and their communication with IoT devices	Innovation	Elective/Core Credit Course	Credit Course (Elective)	22-07-2019 00:00:00	23-10-2019 00:00:00	94	Offline	5	5	35
MEAN Stack	Innovation	Elective/Core Credit Course	Credit Course (Elective)	22-07-2019 00:00:00	30-10-2019 00:00:00	101	Offline	7	7	35
Python for Machine Learning	Innovation	Elective/Core Credit Course	Credit Course (Elective)	22-07-2019 00:00:00	30-10-2019 00:00:00	101	Offline	7	7	35
Tool and Technique for Ethical Hacking	Innovation	Elective/Core Credit Course	Credit Course (Elective)	22-07-2019 00:00:00	30-10-2019 00:00:00	101	Offline	16	16	35
Accounting Basics for Future Startup Founders	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	22-07-2019 00:00:00	30-10-2019 00:00:00	101	Offline	5	5	35
Basics of stock market and investing	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	22-07-2019 00:00:00	30-10-2019 00:00:00	101	Offline	5	5	35
Python for Data Science	Innovation	Elective/Core Credit Course	Credit Course (Elective)	22-07-2019 00:00:00	30-10-2019 00:00:00	101	Offline	18	18	35

MSP430 Advance Workshop	Innovation	FDP	Short Term Certificate Course	18-03-2019 00:00:00	20-03-2019 00:00:00	3	Offline	11	11	30
Embedded Systems and IoT using MSP430 and Tiva	Innovation	FDP	Short Term Certificate Course	17-12-2018 00:00:00	19-12-2018 00:00:00	3	Offline	17	17	30
AICTE and ISTE Approved STTP Industrial IoT System Design from Sensing to Mitigation	Innovation	Short term Certificate	Short Term Certificate Course	10-06-2019 00:00:00	14-06-2019 00:00:00	5	Offline	25	25	40
AICTE ISTE approved One week STTP on Linear Algebra Statistics Mathematical Modeling Hands On	Innovation	Short term Certificate	Short Term Certificate Course	08-01-2019 00:00:00	12-01-2019 00:00:00	5	Offline	25	25	40

### Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Name of Centre	Type of Facility	Year of Facility Creation	Facility Location / Address	Facility Incharge		Carpet Area of Facility	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation & Incubation Centre/Facilities?		Had institute Generated Income either from Services Offered by Pre-Incubation & Incubation Centre/Facilities?
				Facility Incharge Name	Facility Incharge Email		Yes	No	
Entrepreneurship Cell - BloomBox	Pre-Incubation Centre	2011	K. J. Somaiya College of Engineering, Vidyavihar, Mumbai	Facility Incharge Name	Prof. Sagar Korde	500 Sq. Ft.	Yes		No
				Facility Incharge Email	sagar.korde@somaiya.edu		Annual Capital Expenditure (In Rupees)	0	
				Facility Incharge Phone	7045656838		Annual Operational Expenditure (In Rupees)	0	
BETIC Lab	Research Park/Innovation Park	2017	A209, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai	Facility Incharge Name	Dr. Ramesh Lekurwale	111.5 Sq. Mtr.	Yes		No
				Facility Incharge Email	rameshlekurwale@somaiya.edu		Annual Capital Expenditure (In Rupees)	5369405	
				Facility Incharge Phone	9869369543		Annual Operational Expenditure (In Rupees)	0	
CISCO Centre of Excellence in Data networking	Centre of Excellence with Advance Tools & Equipment	2018	A223, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai	Facility Incharge Name	Dr. Ameya Naik	697.5 Sq. Ft.	Yes		No
				Facility Incharge Email	ameyanai@somaiya.edu		Annual Capital Expenditure (In Rupees)	4811099	
				Facility Incharge Phone	9833275939		Annual Operational Expenditure (In Rupees)	17000	

## Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Texas Instruments Innovation Centre	Centre of Excellence with Advance Tools & Equipment	2018	A412, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Ameya Naik</td> </tr> <tr> <td>Facility Incharge Email</td> <td>ameyanai k@somai ya.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>98332759 39</td> </tr> </table>	Facility Incharge Name	Dr. Ameya Naik	Facility Incharge Email	ameyanai k@somai ya.edu	Facility Incharge Phone	98332759 39	61.28 Sq. Mtr.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>2028168</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	2028168	Annual Operational Expenditure (In Rupees)	0	No
Facility Incharge Name	Dr. Ameya Naik																		
Facility Incharge Email	ameyanai k@somai ya.edu																		
Facility Incharge Phone	98332759 39																		
Yes																			
Annual Capital Expenditure (In Rupees)	2028168																		
Annual Operational Expenditure (In Rupees)	0																		
Operating System Laboratory	Research Park/Innovation Park	2017	B317, K. J. Somaiya College of Engineering, Vidyavihar, Mumbai	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Prof. Era Johri</td> </tr> <tr> <td>Facility Incharge Email</td> <td>erajohri@ somaiya. edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>99690479 92</td> </tr> </table>	Facility Incharge Name	Prof. Era Johri	Facility Incharge Email	erajohri@ somaiya. edu	Facility Incharge Phone	99690479 92	79.56 Sq. Mtr.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>1273000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	1273000	Annual Operational Expenditure (In Rupees)	0	No
Facility Incharge Name	Prof. Era Johri																		
Facility Incharge Email	erajohri@ somaiya. edu																		
Facility Incharge Phone	99690479 92																		
Yes																			
Annual Capital Expenditure (In Rupees)	1273000																		
Annual Operational Expenditure (In Rupees)	0																		
Research and Development	Research Park/Innovation Park	2005	K. J. Somaiya College of Engineering, Vidyavihar, Mumbai	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Kashinath Patil</td> </tr> <tr> <td>Facility Incharge Email</td> <td>deanrd @somaiy a.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>88796764 69</td> </tr> </table>	Facility Incharge Name	Dr. Kashinath Patil	Facility Incharge Email	deanrd @somaiy a.edu	Facility Incharge Phone	88796764 69	450 Sq. Ft.	No	No						
Facility Incharge Name	Dr. Kashinath Patil																		
Facility Incharge Email	deanrd @somaiy a.edu																		
Facility Incharge Phone	88796764 69																		
High Performance Computing Lab	Research Park/Innovation Park	2017	B313, K. J. Somaiya College of Engineering	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Ujwala Bhangale</td> </tr> <tr> <td>Facility Incharge Email</td> <td>ujwalab hangale @somaiy a.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>98200659 25</td> </tr> </table>	Facility Incharge Name	Dr. Ujwala Bhangale	Facility Incharge Email	ujwalab hangale @somaiy a.edu	Facility Incharge Phone	98200659 25	66.13 Sq. Mtr.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>2654000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	2654000	Annual Operational Expenditure (In Rupees)	0	No
Facility Incharge Name	Dr. Ujwala Bhangale																		
Facility Incharge Email	ujwalab hangale @somaiy a.edu																		
Facility Incharge Phone	98200659 25																		
Yes																			
Annual Capital Expenditure (In Rupees)	2654000																		
Annual Operational Expenditure (In Rupees)	0																		
I C Engine Lab	Research Park/Innovation Park	2015	B014, K. J. Somaiya College of Engineering	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. S. S. Bhusnoor</td> </tr> <tr> <td>Facility Incharge Email</td> <td>siddappa bhusnoor @somaiy a.edu</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>99205345 14</td> </tr> </table>	Facility Incharge Name	Dr. S. S. Bhusnoor	Facility Incharge Email	siddappa bhusnoor @somaiy a.edu	Facility Incharge Phone	99205345 14	294.5 Sq. Mtr.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>4187000</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	4187000	Annual Operational Expenditure (In Rupees)	0	No
Facility Incharge Name	Dr. S. S. Bhusnoor																		
Facility Incharge Email	siddappa bhusnoor @somaiy a.edu																		
Facility Incharge Phone	99205345 14																		
Yes																			
Annual Capital Expenditure (In Rupees)	4187000																		
Annual Operational Expenditure (In Rupees)	0																		

### Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Project Lab	Research Park/Innovation Park	2016	B310, K. J. Somaiya College of Engineering, Mumbai	Facility Incharge Name	Dr. Irfan Siddavatam	102.26 Sq. Mtr.	Yes		No
				Facility Incharge Email	irfansiddavatam@somaiya.edu		Annual Capital Expenditure (In Rupees)	1384000	
				Facility Incharge Phone	9833484317		Annual Operational Expenditure (In Rupees)	0	

### Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus

Name of Centre	Source of Grant / Fund	Agency Name	Agency Type	Had Received Grants / Funds by Pre-Incubation & Incubation Centre / Facilities exists in Campus?	Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
Entrepreneurship Cell - BloomBox	Institute's Own Fund / Resource	---	---	No	---
BETiC Lab	Funding Agency	IIT Bombay	Educational Institute	No	---
Research and Development	Funding Agency	MU	Govt. Agency (State)	Yes	582100
Texas Instruments Innovation Centre	Funding Agency	Texas Instruments	International Agencies	No	---
CISCO Centre of Excellence in Data networking	Funding Agency	CISCO	International Agencies	No	---
Research and Development	Funding Agency	Department of Science and Technology	Govt. Agency (Central)	Yes	28750000
Research and Development	Funding Agency	ISRO RESPOND	Govt. Agency (Central)	Yes	2635000
Research and Development	Funding Agency	DST - Science and Research Board (SERB)	Govt. Agency (Central)	Yes	4310000
Research and Development	Funding Agency	DRDO CARS	Govt. Agency (Central)	Yes	1200000
Research and Development	Funding Agency	DST - Russian Foundation for Basic Research (RFBR)	Govt. Agency (Central)	Yes	240000

### Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?
Performance analysis of vapour absorption refrigeration system	Research and Development	TRL 6 : Prototype system tested in intended	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 6 : Prototype system tested in intended	Yes	No	No

**Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities**

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?															
		environment close to expected performance.					environment close to expected performance.	<table border="1"> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>100000</td> </tr> </table>	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	100000															
Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)																									
100000																									
<table border="1"> <thead> <tr> <th colspan="5">Principal Innovator</th> </tr> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Dr. S. S. Bhusnoor</td> <td>Faculty</td> <td>Male</td> <td>siddappabhusnoor@somaiya.edu</td> <td>9920534514</td> </tr> </tbody> </table>											Principal Innovator					Name	Type	Gender	Email	Contact	Dr. S. S. Bhusnoor	Faculty	Male	siddappabhusnoor@somaiya.edu	9920534514
Principal Innovator																									
Name	Type	Gender	Email	Contact																					
Dr. S. S. Bhusnoor	Faculty	Male	siddappabhusnoor@somaiya.edu	9920534514																					
Fraud detection and mentoring of water tankers using IOT	Research and Development	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	<table border="1"> <tr> <td>Yes</td> </tr> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>69400</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	69400	No													
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69400																									
No	<table border="1"> <thead> <tr> <th colspan="5">Principal Innovator</th> </tr> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Prof. Avani Sakhapara</td> <td>Faculty</td> <td>Female</td> <td>avanisakhapara@somaiya.edu</td> <td>9220309367</td> </tr> </tbody> </table>										Principal Innovator					Name	Type	Gender	Email	Contact	Prof. Avani Sakhapara	Faculty	Female	avanisakhapara@somaiya.edu	9220309367
Principal Innovator																									
Name	Type	Gender	Email	Contact																					
Prof. Avani Sakhapara	Faculty	Female	avanisakhapara@somaiya.edu	9220309367																					



**Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities**

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?						
<b>Co-Innovator</b>																
Name		Type		Gender		Email		Contact								
Dr. Irfan Siddavatam		Faculty		Male		irfansiddavatam@somaiya.edu		9833484317								
Prof. Dipti Pawade		Faculty		Female		diptipawade@somaiya.edu		8055893876								
Research and Development	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	<table border="1"> <tr> <td>Yes</td> <td>No</td> </tr> <tr> <td colspan="2">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td colspan="2">85000</td> </tr> </table>	Yes	No	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)		85000		No	No	Bio-catalyzed abatement of organic chlorophenols in Effluent Wastewater
Yes	No															
Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)																
85000																
<b>Principal Innovator</b>																
Name		Type		Gender		Email		Contact								
Dr. Jitendra Satam		Faculty		Male		jitendrasatam@somaiya.edu		9892385446								
<b>Co-Innovator</b>																
Name		Type		Gender		Email		Contact								
-		Faculty		Male		pushpendrarai@somaiya.edu		9224840300		Experimental studies on recovery of heat energy from engine exhaust gas using Heat Pipe Heat Exchanger						

**Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities**

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation on Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?											
Research and Development	TRL 6 : Prototype system tested in intended environment close to expected performance.	Faculty	2018	<table border="1"> <tr> <th colspan="2">IP / Patented Technology</th> </tr> <tr> <td>Applied for Patent</td> <td>No</td> </tr> <tr> <td>Patent Application No</td> <td></td> </tr> <tr> <td>Year of Patent Application</td> <td></td> </tr> </table>	IP / Patented Technology		Applied for Patent	No	Patent Application No		Year of Patent Application		Still Under Development Process	TRL 6 : Prototype system tested in intended environment close to expected performance.	<table border="1"> <tr> <td>Yes</td> </tr> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>120000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	120000	No	No	
IP / Patented Technology																					
Applied for Patent	No																				
Patent Application No																					
Year of Patent Application																					
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120000																					
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Name	Type	Gender	Email	Contact																	
Dr. S. S. Bhusnoor	Faculty	Male	siddappabhusnoor@somaiya.edu	9920534514																	
<p><b>Co-Innovator</b></p> <table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Prof. Yogita Yerne</td> <td>Faculty</td> <td>Female</td> <td>yogota.yerne@somaiya.edu</td> <td>7208630981</td> </tr> </tbody> </table>										Name	Type	Gender	Email	Contact	Prof. Yogita Yerne	Faculty	Female	yogota.yerne@somaiya.edu	7208630981	Extended Generalized Wright Type Hypergeometric Function	
Name	Type	Gender	Email	Contact																	
Prof. Yogita Yerne	Faculty	Female	yogota.yerne@somaiya.edu	7208630981																	
Research and Development	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<table border="1"> <tr> <td>Yes</td> </tr> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>70000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	70000	No	No									
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Principal Innovator																													
Name	Type	Gender	Email	Contact																									
Dr. Rachana Desai	Faculty	Female	rachnadesai@somaiya.edu	9969775281																									
Microcontroller based online support system for Maintenance and Monitoring Electrical and Physical parameters of solar PV Panel	Research and Development	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	<table border="1"> <tr> <td>Yes</td> </tr> <tr> <td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td>87700</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	87700	No	No																
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Principal Innovator																													
Name	Type	Gender	Email	Contact																									
Prof.Amey Gawde	Faculty	Male	amey.gawde@somaiya.edu	9773385575																									
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Co-Innovator																													
Name	Type	Gender	Email	Contact																									
Dr. R .G . Karandikar	Faculty	Male	rameshkarandikar@somaiya.edu	9869218446																									
Dr. Kashinath Patil	Faculty	Male	kashinath@somaiya.edu	9969876069																									

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Design and development of prototype of an open loop indigenous Automated Radioactive Medicine Dispenser	Research and Development	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No	No										
								Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)												
								50000												
<p><b>Principal Innovator</b></p> <table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Prof. Chitra Menon</td> <td>Faculty</td> <td>Female</td> <td>chitramenon@somaiya.edu</td> <td>9833015810</td> </tr> </tbody> </table>											Name	Type	Gender	Email	Contact	Prof. Chitra Menon	Faculty	Female	chitramenon@somaiya.edu	9833015810
Name	Type	Gender	Email	Contact																
Prof. Chitra Menon	Faculty	Female	chitramenon@somaiya.edu	9833015810																
No	NewGen IDEC	Research and Development	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	Yes	No	No										
								Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)												
								28750000												
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Name	Type	Gender	Email	Contact																
Dr. Kashinath N Patil	Faculty	Male	kashinath@somaiya.edu	9969876069																

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Deepfire or Deep learning system for Forest Fire Risks, Detection and Assessment		Research and Development	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)  2644000	No															
	No	<table border="1"> <thead> <tr> <th colspan="5">Principal Innovator</th> </tr> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Dr. Jyoti Joglekar</td> <td>Faculty</td> <td>Female</td> <td>jyoti.joglekar@somaiya.edu</td> <td>9594980587</td> </tr> </tbody> </table>									Principal Innovator					Name	Type	Gender	Email	Contact	Dr. Jyoti Joglekar	Faculty	Female	jyoti.joglekar@somaiya.edu	9594980587
	Principal Innovator																								
Name	Type	Gender	Email	Contact																					
Dr. Jyoti Joglekar	Faculty	Female	jyoti.joglekar@somaiya.edu	9594980587																					
<table border="1"> <thead> <tr> <th colspan="5">Co-Innovator</th> </tr> <tr> <th>Name</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Dr. Kashinath Patil</td> <td>Faculty</td> <td>Male</td> <td>kashinath@somaiya.edu</td> <td>9969876069</td> </tr> </tbody> </table>											Co-Innovator					Name	Type	Gender	Email	Contact	Dr. Kashinath Patil	Faculty	Male	kashinath@somaiya.edu	9969876069
Co-Innovator																									
Name	Type	Gender	Email	Contact																					
Dr. Kashinath Patil	Faculty	Male	kashinath@somaiya.edu	9969876069																					
Development of methods for in-season monitoring sugarcane crop in Peninsular India using Earth Observations for precision water and management	Research and Development	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)  120000	No	No															

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	<b>Principal Innovator</b>																							
	Name			Type		Gender		Email		Contact														
	Dr. Jyoti Joglekar			Faculty		Female		jyoti.joglekar@somaiya.edu		9594980587														
Development of Field assay or device for rapid detection of antibiotic susceptibility using Resazurin Method	Research and Development	TRL 6 : Prototype system tested in intended environment close to expected performance.	Faculty	2018	<table border="1"> <thead> <tr> <th colspan="2">IP / Patented Technology</th> </tr> </thead> <tbody> <tr> <td>Applied for Patent</td> <td>No</td> </tr> <tr> <td>Patent Application No</td> <td></td> </tr> <tr> <td>Year of Patent Application</td> <td></td> </tr> </tbody> </table>		IP / Patented Technology		Applied for Patent	No	Patent Application No		Year of Patent Application		Still Under Development Process	TRL 6 : Prototype system tested in intended environment close to expected performance.	<table border="1"> <thead> <tr> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td colspan="2">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td colspan="2">240000</td> </tr> </tbody> </table>	Yes	No	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)		240000		
IP / Patented Technology																								
Applied for Patent	No																							
Patent Application No																								
Year of Patent Application																								
Yes	No																							
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240000																								
No	<b>Principal Innovator</b>																							
Name			Type		Gender		Email		Contact															
Dr. Becky Thomas			Faculty		Male		becky@somaiya.edu		8291982301															
<b>Co-Innovator</b>																								
Name			Type		Gender		Email		Contact	A Novel green and sustainable technique to utilize the sugar case bagasse for making food grade paper														
Dr. Kashinath Patil			Faculty		Male		kashinath@somaiya.edu		9969876069															

**Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities**

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?			
Research and Development	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>4310000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	4310000	No	No	
Yes													
Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)													
4310000													

**Principal Innovator**

Name	Type	Gender	Email	Contact
Prof. Shivangi Thakkar	Faculty	Female	shivangiruparel@somaiya.edu	8976833080

Design and development of a Physical Working Prototype to showcase an optimized algorithm and software for Mapping Elevation (Geo-referencing) using Swarm of Autonomous UAVs (Drones)	Research and Development	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>0</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	0	No	No
Yes													
Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)													
0													

**Principal Innovator**

Name	Type	Gender	Email	Contact
Dr. Jyoti Joglekar	Faculty	Female	jyoti.joglekar@somaiya.edu	9594980587

**Start-ups have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities**

Name of Start-up Received Funding /	Name of Centre	Year of Registration	Registered as	Start-up with Corporate	Start-up Founded by	Type of Innovation	Current Status Pre-	Has the Start-up Grown to a stage	Had Centre/institute	Had the Start-up raised any Seed	Had the Incubation
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## Start-ups have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Grant from Centre				Identification Number (CIN) Registration			Incubation/Incubation Support Received	of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2018-19	provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Start-up during the financial period 2018-19?	fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19?	Centre/institute Received any income/revenue from Start-up for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19 ?																		
BookSquare	Entrepreneurship Cell - BloomBox	2018-19	One Person Company	NA	Student	Service Based Business Solution	Receiving Incubation Support from Incubation Unit	No	No	No	No																		
<table border="1"> <thead> <tr> <th colspan="6">Founder</th> </tr> <tr> <th>Name</th> <th>DIN Number</th> <th>Type</th> <th>Gender</th> <th>Email</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>Adarsh Totla</td> <td>NA</td> <td>Student</td> <td>Male</td> <td>adarsh.totla@somaiya.edu</td> <td>7045656838</td> </tr> </tbody> </table>												Founder						Name	DIN Number	Type	Gender	Email	Contact	Adarsh Totla	NA	Student	Male	adarsh.totla@somaiya.edu	7045656838
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Name	DIN Number	Type	Gender	Email	Contact																								
Adarsh Totla	NA	Student	Male	adarsh.totla@somaiya.edu	7045656838																								

## Co-Incubation Partnership

No Data Filled!

## Technology Commercialization / Transfer

No Data Filled!



## Declaration

To,  
The ARIIA Committee  
MHRD's Innovation Cell  
New Delhi

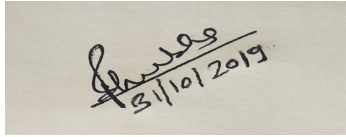
### Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself Dr. Shubha Pandit (Head of Institute) and Mr. Sandeep Parmar (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

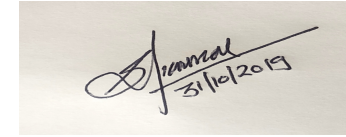
The Head of Institute



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Dr. Shubha Pandit  
Head of the Institution,  
K. J. Somaiya College of Engineering,  
Mumbai, Maharashtra

Nodal officer



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Mr. Sandeep Parmar  
Nodal Officer,  
K. J. Somaiya College of Engineering,  
Mumbai, Maharashtra

Responsibility for accuracy and authenticity of data lies with the concerned institution.