



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

Institute Name: Mahendra Engineering College [ARI-C-37054]

#### 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)
MAHENDRA ENGINEERING COLLEGE	247773601.00	262358945.00	Document Uploaded in ARIIA DSP
Total (Rupees in Figure)	247773601.00	262358945.00	

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) := 4126

Total Faculty Base (Full Time) Engaged in Teaching and Research at Institute/University (Academic Year 2018-19) := 291

#### 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)
Intellectual Property Rights	IPR	Seminar	Institute Lead Activity	MBA	24-08-2019 00:00:00	24-08-2019 00:00:00	1	Within Campus	50	15	0	0	65	No	
Elegant Way to Acquire Intellectual Property Rights	IPR	Seminar	Student Lead Activity	MBA	27-07-2019 00:00:00	27-07-2019 00:00:00	1	Within Campus	60	10	0	0	70	No	
One day awareness programme on Entrepreneur ship	Entrepreneur ship/Startup	Seminar	Student Lead Activity	МВА	10-04-2019 00:00:00	10-04-2019 00:00:00	1	Within Campus	45	25	0	0	70	No	
Employabilit y Skills	Entrepreneur ship/Startup	seminar	Institute Lead Activity	Mahendra Eductional Institution	23-04-2019 00:00:00	23-04-2019 00:00:00	1	Within Campus	60	20	0	0	80	No	
Setting Goals for Achieving Success	Entrepreneur ship/Startup	seminar	Student Lead Activity	MBA and Mahendra educational institution	27-03-2019 00:00:00	27-03-2019 00:00:00	1	Within Campus	70	20	0	0	90	No	

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

New Age employability competence in Modern business world		Student Lead Activity	МВА	27-02-2019 00:00:00	27-02-2019 00:00:00	1	Within Campus	50	20	0	0	70	No	
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Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by repute 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/Rec ognitions/Ac hievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/rec eived fund towards sending delegation to participate/re present the program/acti vity/event?	Total Expense Amount Incurred by Institute? (In Rupees)
Smart Materials and applications in engineering	Innovation	seminar	Mahendra Engineering College	Educational Institute	12-12-2018 00:00:00	13-12-2018 00:00:00	2	1	0	1	No			No	
Career and employment awarness for engineers	Entrepreneur ship/Startup	seminar	Mahendra Institute of Engineering and Technology	Educational Institute	13-02-2019 00:00:00	15-02-2019 00:00:00	3	1	0	1	No			No	
Applied machine learning	Innovation	seminar	PSG College of technology	Educational Institute	22-02-2019 00:00:00	22-02-2019 00:00:00	1	1	0	1	No			No	
e-Yantra Robotics Workshop - IIT	Innovation	workshop	Bannari Amman Institute of Technology	Educational Institute	27-07-2018 00:00:00	28-07-2019 00:00:00	36	2	0	2	No			No	
Advanced product Design and development of Real Time Automotive plastic components	Entrepreneur ship/Startup	seminar	Mahendra Engineering College	Educational Institute	08-03-2019 00:00:00	08-03-2019 00:00:00	1	30	2	32	No			No	
Future Automation Techniques	Innovation	training	mahendra engineering college	Educational Institute	16-08-2018 00:00:00	17-08-2018 00:00:00	2	40	2	42	No			No	
Advance Technologie s in Industrial Automation	Innovation	Training	Mahendra engineering college	Educational Institute	16-07-2018 00:00:00	16-07-2018 00:00:00	1	80	2	82	No			No	

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

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Internet of things	Innovation	workshop	National Institute of Technology, Tiruchirappal Ii	Educational Institute	05-10-2018 00:00:00	06-10-2018 00:00:00	2	0	1	1	No	 	No	
Technical Training on Need of Software in Civil Engineering Application	Innovation	Technical training	Mahendra Engineering College	Educational Institute	31-07-2018 00:00:00	01-08-2018 00:00:00	2	0	3	3	No	 	No	
Technical Training on Formwork Systems	Innovation	Technical Training	Mahendra Engineering College	Educational Institute	21-08-2018 00:00:00	21-08-2018 00:00:00	1	0	4	4	No	 	No	
National workshop on Innovative Materials and Technologie s for Road Construction	Innovation	workshop	Vellore Institute of Technology	Educational Institute	22-02-2019 00:00:00	22-02-2019 00:00:00	1	0	1	1	No	 	No	
National workshop on Advanced concrete Mix Design	Innovation	workshop	Kongu Engineering College	Educational Institute	24-08-2018 00:00:00	24-08-2018 00:00:00	1	0	4	4	No	 	No	
Workshop on Assessment of surface water and groundwater	Innovation	Workshop	Vellore institute of technology	Educational Institute	21-07-2018 00:00:00	21-07-2018 00:00:00	1	0	3	3	No	 	No	
Workshop on Safety, Health and Environment in Construction	Innovation	Workshop	Erode Builders Technology	Educational Institute	20-07-2018 00:00:00	20-07-2018 00:00:00	1	0	1	1	No	 	No	
National workshop on Challenges in Geotechnical Engineering	Innovation	workshop	Dr.Mahaling am Engineering College, Pollachi	Educational Institute	11-08-2019 00:00:00	11-08-2019 00:00:00	1	0	4	4	No	 	No	
national seminar on Principles of Vibration analysis and its application in Rehabilitatio n of structures	Innovation	seminar	M.Kumarasa my College of Engineering, Karur	Educational Institute	01-02-2019 00:00:00	01-03-2019 00:00:00	29	0	3	3	No	 	No	-

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

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National Level Seminar on Geopolymer Technology The current state of the art	Innovation	Seminar	VSA Group of Institution, Salem	Educational Institute	19-07-2018 00:00:00	19-07-2018 00:00:00	1	0	4	4	No			No	
National Seminar on Geotechnical aspects of Earthquake Engineering	Innovation	Seminar	Sona College of Technology, Salem	Educational Institute	09-08-2018 00:00:00	10-08-2018 00:00:00	2	0	3	3	No		1	No	
National seminar on Water brone disease Causes and its prevention	Innovation	seminar	Nandha Engineering College, Erode	Educational Institute	25-01-2019 00:00:00	25-01-2019 00:00:00	1	0	5	5	No		1	No	
All India Seminar on Reuse and Recycle of waste water	Innovation	Seminar	Vellalar College of Engineering and Technology, Erode	Educational Institute	30-08-2018 00:00:00	31-08-2018 00:00:00	2	0	4	4	No	1	1	No	
National Level Seminar on Recent Trends in Soil Mechanics	Innovation	Seminar	Karur College of Engineering, Karur.	Educational Institute	26-09-2018 00:00:00	26-09-2018 00:00:00	1	0	4	4	No			No	
Natioanl seminar on Geotechnical Engineering aspects in Deep Excavations and Foundations	Innovation	seminar	Bannari Amman Institute of Technology, Sathy.	Educational Institute	19-07-2018 00:00:00	20-07-2018 00:00:00	2	0	3	3	No		1	No	
Natioanl seminar on Alternatives for River Sand Sustainable Approach	Innovation	seminar	PSG College of technology,C oimbatore	Educational Institute	10-08-2018 00:00:00	10-08-2018 00:00:00	1	0	2	2	No		1	No	
Highs and lows of an entrepreneur	Entrepreneur ship/Startup	seminar	YI, salem	Educational Institute	09-06-2018 00:00:00	09-06-2018 00:00:00	1	0	1	1	No			No	
total quality management system in technical education	Innovation	seminar	Sri Ragavendra polytechnic college	Educational Institute	23-08-2018 00:00:00	28-08-2018 00:00:00	6	0	1	1	No			No	
Additive manufacturin g	Innovation	seminar	Vishnu educational society	Educational Institute	07-08-2018 00:00:00	07-08-2018 00:00:00	1	0	1	1	No			No	

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

International conference and global innovative educationist	Innovation	seminar	University technology MARA convention hall, Malasiya	Educational Institute	17-10-2018 00:00:00	21-10-2018 00:00:00	5	0	1	1	No	 	No	
Manufacturin g units in JSW	Innovation	workshop	JSW steel plant	Educational Institute	25-10-2018 00:00:00	25-10-2018 00:00:00	1	0	2	2	No	 	No	
Industrial Robotic	Innovation	Seminar	Mahendra Engineering College	Educational Institute	13-02-2019 00:00:00	14-02-2019 00:00:00	2	0	1	1	No	 	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
Entreprneurship Development	Entrepreneurship/Startup	EDP	Credit Course (Elective)	06-06-2018 00:00:00	28-09-2018 00:00:00	115	Offline	60	52	45
Managerial Skills and Quality Management	IPR	Elective/Core Credit Course	Credit Course (Elective)	21-09-2018 00:00:00	25-01-2019 00:00:00	127	Offline	60	50	45
Implant Training and Internship	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	25-01-2019 00:00:00	22-03-2019 00:00:00	57	Offline	75	75	45
Engineering Economics and Cost analysis	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	25-01-2019 00:00:00	22-03-2019 00:00:00	57	Offline	74	70	45
Instrumentation and control in paper Industries	Innovation	Elective/Core Credit Course	Credit Course (Elective)	03-01-2019 00:00:00	22-03-2019 00:00:00	79	Offline	25	25	45
Plant Layout and Material Handling	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Compulsory)	06-06-2018 00:00:00	19-10-2018 00:00:00	136	Offline	200	157	45
Modern Product Design and Development	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	08-06-2018 00:00:00	19-10-2018 00:00:00	134	Offline	30	25	45
Additive Manufacturing	Innovation	Elective/Core Credit Course	Credit Course (Elective)	06-06-2018 00:00:00	19-10-2018 00:00:00	136	Offline	55	50	45
Intellectual Property Rights	IPR	Elective/Core Credit Course	Credit Course (Elective)	06-06-2018 00:00:00	19-10-2018 00:00:00	136	Offline	10	8	45
Internet of Things	Innovation	Elective/Core Credit Course	Credit Course (Compulsory)	07-06-2018 00:00:00	19-10-2018 00:00:00	135	Offline	12	10	45
Research Methodology	IPR	Elective/Core Credit Course	Credit Course (Compulsory)	06-06-2018 00:00:00	19-10-2018 00:00:00	136	Offline	18	16	45
Creativity and Innovations in Product Development	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	08-06-2018 00:00:00	21-09-2018 00:00:00	106	Offline	45	45	45

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

Mahendra-Technology Incubation Center	Pre-Incubation Centre	2016	Mahendra Engineering College, Salem- Tiruchengode Highways,	Facility Incharge Name	Dr. Vishwana than.N	5000 Sq. Ft.	Yes	300000	No
			Mallasamudaram, Tiruchengode, Namakkal	Facility Incharge Email	coe@ma hendra.inf o		Expenditure (In Rupees)	150000	
				Facility Incharge Phone	90805558 35		Annual Operational Expenditure (In Rupees)	100000	

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)
Mahendra-Technology Incubation Center	Funding Agency	Mahendra Engineering College	Educational Institute	Yes	2600000
Mahendra-Technology Incubation Center	Institute's Own Fund / Resource			Yes	700000
Mahendra-Technology Incubation Center	Institute's Own Fund / Resource			Yes	500000

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/Incubati 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/Inno vations raised any Seed fund/Angel Investment/VC during the period of receiving preincubation/incubation support at your Preincubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Inno vations for the pre- incubation/incubatio n support and the services offered by Pre- incubation/incubatio n or institute during the financial period 2018-19?
Design Analysis of Automatic Poultry Feeder	Mahendra- Technology Incubation Center	TRL 8 : First of a kind commercial system. Manufacturing issues solved.	Faculty and Student	2017	Non-IP / Non- Patented Technology	Still Under Development Process	TRL 8 : First of a kind commercial system. Manufacturing issues solved.	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	Yes  Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)	Yes  Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)

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/Incubati 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/Inno vations raised any Seed fund/Angel Investment/VC during the period of receiving preincubation/incubation support at your Preincubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Inno vations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?
									Seedfu nd/Ang el/VC Agenc y Name  Govt. Agenc y Type (Cent ral)	
	Principal Inn	ovator								
		Name		Туре		Gender		Email	Co	ontact
	C.Dhavamani			Faculty	Fema	ale	hodaero	@mahendra.info	9443099759	
	Co-Innovator	•								
		Name		Туре		Gender		Email	Co	ontact
	P.Sivakumar			Faculty	Male		sivakuma	arp@mahendra.info	9445485480	

Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities Had the Incubation Had Centre/institute Had the Centre/institute provided any Idea/Prototype/Inno received any Financial support vations raised any income/revenue Seed fund/Angel Investment/VC (either own from resource or fund Idea/Prototype/Inno vations for the pre-Name of Idea / POC / Current Status Pre-**Current Status of** received from during the period of Innovation / Prototype Received Funding / Grant Stage of Innovation (TRL Stage) Year of Innovation / Project Started Innovation, Stage of TRL it has Innovation Incubation/Incubati agencies) in terms receiving pre-Name of Centre Type of Innovation incubation/incubatio Developed by on Support Received of Seed Grant/Fund incubation/incubatio n support and the services offered by from Centre reached Support to Idea / n support at your Prototype / Pre-incubation/incubatio Pre-Innovations incubation/incubatio Development n or institute during n or institute during the financial period 2018-19 during the financial period 2018-19 the financial period 2018-19? TRL 2: Technology 2018 TRL 2: Technology A soft Wearable Gadget Faculty and Mahendra-Receiving IP / Patented Yes Yes Yes Incubation Support Called Physio-Fast Heal formulation. formulation. Technology Student Technology Incubation Center Concept and at Incubation Concept and Total Seed Fund/Angel Investment/VC Total Seed Fund/Angel Investment/VC application have application have Centre Total Seed Grant/Fund been formulated. been formulated. No Applie d for Amount Disbursed to Fund raised by Fund raised by Patent above Idea/Prototype/I Idea/Prototype/I Idea/Prototype/I nnovations nnovations Patent Applica tion No during the period of prennovations during the Development by Centre (In period of preincubation/incub incubation/incub Rupees) ation support at ation support at your Preyour Preincubation/incub incubation/incub 450000 ation or institute ation or institute financial period financial period 2018-19 (in 2018-19 (in Rupees) Rupees) 450000 450000 Year of Seedfu nd/Ang el/VC 4500 Patent 00 Applica tion Agenc Name Govt. Agen Agenc

				y Type (Čent ral)							
Principal Innovator											
Name	Турє	Gender Gender	Email	Contact							
Andrews	Faculty	Male	andrewsmalacca@gmail.com	8903920542							

Idea / Prototype / In	novation have r	eceived Grant /	funding from F	Pre-Incubation	/ Incubation Cer	tre / 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/Incubati on Support Received	Current Status o 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/Inno vations raised any Seed fund/Angel Investment/VC during the period of receiving pre- incubation/incubatio n support at your Pre- incubation/incubatio n or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Inno vations for the pre- incubation/incubatio n support and the services offered by Pre- incubation/incubatio n or institute during the financial period 2018-19?
	Well Equipped Portable and Odorless Biogas plant in aerobic process	Mahendra- Technology Incubation Center	TRL 6 : Prototype system tested in intended environment close to expected performance.	Faculty and Student	2018	Non-IP / Non- Patented Technology	Completed and Ready for Commercialization ncubati	TRL 6 : Prototype system tested in intended environment close to expected performance.	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)  200000  Seedfu nd/Ang el/VC Agenc y Name  Govt. Agenc y Type (Cent ral)
Yes		Principal Inn	ovator							
Total Seed Fund/Angel Investment/VC Fund raised by		Muthuninguage	Name	5	Туре		nder	Email		Contact
Idea/Prototype/Innovations during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2018-19 (in Rupees)		Muthuvinayagam.P		Faci	літу	Male		hodeie@mahendra.info	9894014083	

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Inr Project \$	novation / Started	Type of Innovation	Incub	ent Status Pre- pation/Incubati 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/Inno vations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation or support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubatio Centre/institute received any income/revenue from Idea/Prototype/Inr vations for the preincubation/incubat n support and the services offered be Preincubation/incubat n or institute durin the financial perio 2018-19?
Co-Innovator												Miniature scale industrial ash
	Name		Туре			Gender			Email	Cor	ntact	
Rahul		Stud	dent		Male			rahulsuruvana	n@gmail.com	9894014083		
Mahendra-Technology ncubation Center	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovator/Entrepren eur External to Institute	2018	IP / Pat Technical Applies of for Patent Application No		Completed and Ready for Commercialization/I ncubati	protot	onment ("ugly"	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees) 300000	Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)  300000  Seedfu nd/Ang el/VC Agenc y Name  Govt. Agenc y Type (Cent ral)	Total Seed Fund/Angel Investment//C Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees) 300000	
Principal Innovato	or											
	Name		Туре			Gender			Email	Col	ntact	
Dr. K.Vidhya		Fac	ultv		Female			vidhya22047@	amail com	9842022047		

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 Innovatio	Current Status Pre- Incubation/Incubati 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/Inno vations raised any Seed fund/Angel Investment/VC during the period of receiving preincubation/incubation support at your Preincubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Inno vations for the pre- incubation/incubatio n support and the services offered by Pre- incubation/incubatio n or institute during the financial period 2018-19?
Design and fabrication of sew-seed dibbler	Mahendra- Technology Incubation Center	TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype).	Innovator/Entrepren eur External to Institute	2018	Non-IP / Non- Patented Technology	Still Under Development Process	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees) 300000	Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)  300000  Seedfu nd/Ang el/VC Agenc y Name  Govt. Agenc y Type (Cent ral)	Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)
	Principal Inn	ovator								
		Name		Туре		Gender		Email	Co	ontact
	Dr.K.Vidhya			Faculty	F	emale	vidhya220	47@gmail.com	9842022047	

Idea / Prototype / Ini	novation have r	eceived Grant /	funding from F	re-Incubation	/ Incubation Cer	tre / 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/Incubati 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/Inno vations 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/Inno vations for the pre- incubation/incubatio n support and the services offered by Pre- incubation/incubatio n or institute during the financial period 2018-19?
	Development of Laccase Enzyme based Water Purifier and Detergent Enhancer	Mahendra- Technology Incubation Center	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty and Student	2018	Non-IP / Non- Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees) 550000	Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)  550000  Seedfu nd/Ang el/VC Agenc y Name  Govt. Agenc y Type (Cent ral)
Yes		Principal Inn								
Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/Innovations during the period of pre-incubation/incubation support at your Presincubation/incubation or institute financial period 2018-19 (in Rupees)		Dr. P.Thiyagarajan	Name	Stuc	Type	Male Ge	nder	Email thiyagubio79@gmail.com	9952827700	Contact
550000										

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

idea / Prototype / in	novation have	received Grant	<i>i</i> runaing irom t	re-incubation /	incubation Cer	itre / 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/Incubati 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/Inno vations raised any Seed fund/Angel Investment/VC during the period of receiving preincubation/incubatio n support at your Preincubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Inno vations for the pre- incubation/incubatio n support and the services offered by Pre- incubation/incubatio n or institute during the financial period 2018-19?
Hybrid ash Aggregates		Mahendra- Technology Incubation Center	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Faculty	2015	IP / Patented Technology  Applie d for Patent Patent Applica tion No	Completed and Ready for Commercialization/I ncubati	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)  300000	Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)  300000  Seedfu nd/Ang el/VC Agenc y Name  Agenc y Type  Educ ation al Institute

Idea / Prototype / Ind Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	novation have i	Stage of Innovation (TRL Stage)	funding from I	Pre-Incubation  Year of Innovation  Project Started	n/ Type of Innovation	Curre Incub o	ent Status Pre- bation/Incubati on Support Received	Current Status Innovation, Stag of TRL it has reached	ge agencies) in terms	Idea/P vation Seed Inve during rec incuba n sup incuba n or in	Had the Prototype/Inno as raised any of fund/Angel estment/VC the period of eiving pretion/incubatio oport at your Pretion/incubatio istitute during lancial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Inno vations for the pre- incubation/incubatio n support and the services offered by Pre- incubation/incubatio n or institute during the financial period 2018-19?
	Yes	Principal Inno	ovator									
	Total Seed Fund/Angel		Name		Туре		Ge	nder	Email			Contact
	Investment/VC Fund raised by Idea/Prototype/I nnovations during the period of pre- incubation/incub ation support at your Pre- incubation/incub ation or institute financial period 2018-19 (in Rupees)	Dr.K.Vidhya		F	aculty		Female		vidhya22047@gmail.com		9842022047	

Start-ups have red	ceived Grant /	funding from l	Pre-Incubation	/ Incubation (	Centre / Faciliti	es		Has the Start-up Grown to a stage	Had Centre/institute provided any Financial support	Had the Start-up raised any Seed fund/Angel Investment/VC	Had the Incubation Centre/institute Received any income/revenue
Name of Start-up Received Funding / Grant from Centre	Name of Centre	Year of Registration	Registered as	Start-up with Corporate Identification Number (CIN) Registration	Start-up Founded by	Type of Innovation	Current Status Pre- Incubation/Incuba tion Support Received	of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2018-19	(either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Startup during the financial period 2018-19?	during the period of receiving pre- incubation/incuba tion support at your Pre- incubation/incuba tion or institute during the financial period 2018-19?	from Start-up for the pre- incubation/incuba tion support and the services offered by Pre- incubation/incuba tion or institute during the financial period 2018-19?

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

**Co-Incubation Partnership** 

Type of Partnership	Partnership Institute Name	Type of Support Offered	No. of Student Projects/ Ideas / Innovation / Startups Supported	Date of MOU / Agreement Signed on
Incubation Services/Support Received from Other Institute/Incubator	Royal Glaze Headlights Restoration	Incubation, Mentoring	10	12-04-2019
Incubation Services/Support Received from Other Institute/Incubator	Qbitto Training Centre	Incubation, Mentoring	10	14-02-2019

Name of Technology Licenced / Transferred / Commercialized	Technology Type	Type of Transfer	Patent / Licence Number	Patent / Licence Holder	Centre / Department of Origin of Licence	Licence Transferred to	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Total Annual Income Received from Technology Transfer/Licensing (In Rupees)
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Automatic Braking System in Automobiles	IP/Patented Technology	One-time transfer/Licens ing	201941020280	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder  Email of Licence holder  Gender	Dr C Dhavamani  9443099759  hodaero@m ahendra.info  Female	Mechanical	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy  Address of Agency  Contact Number of Agency  Email of Agency	Institute  Mahendra Engineering College  Mahendrapur i Mallasamudr am Namakkal  9443099759  hodaero@m ahendra.info	No	
Secure and Reliable Smart E voting System using Aadhar Card	IP/Patented Technology	One-time transfer/Licens ing	201941018956A	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder  Email of Licence holder  Gender	Dr Neela Madheswari  9626540141  neelamadhes waria@mahe ndra.info  Female	CSE	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy  Address of Agency  Contact Number of Agency  Email of Agency	Institute  Mahendra Engineering College  Mahendrapur i Mallasamudr am Namakkal 637503  9626540141  neelamadhes waria@mahe ndra.info	No	

rechnology Comme	TOTATIE	ii / I i anoioi								
A Simple and Effective Device for Detecting and Diagnosing the earlier Diabetes and Thyroid	IP/Patented Technology	One-time transfer/Licens ing	201941013976A	Patent/Licence Holder name (Institute Co-	Dr Vijayarajesw ari	CSE	Licence Transferred to	Institute	No	
Abnormal				ownership is Must)			Name of Industry/Start- up/Agency	Mahendra Engineering College		
				Contact number of license holder	9042666262		Industry/Start- up/Agency Received License/Techno logy			
				Email of Licence holder	vijayarajeswa rir@mahendr a.info		Address of	Mahendrapur i Mallasamudr		
					Female		Agency	am Namakkal 637503		
				Gender			Contact Number of Agency	9042666262		
							Email of Agency	vijayarajeswa rir@mahendr a.info		
Industrial induction heater power converting system and a method Thereof	IP/Patented Technology	One-time transfer/Licens ing	201941003361A	Patent/Licence Holder name	Dr P Umasankar	EEE	Licence Transferred to	Institute	No	
		9		(Institute Co- ownership is Must)			Name of Industry/Start-	Mahendra Engineering College		
				Contact number of license holder	9842256262		Industry/Start- up/Agency Received License/Techno logy	College		
				Email of Licence holder	umasankarp @mahendra.i nfo		Address of	Mahendrapur i Mallasamudr		
					Male		Agency	am Namakkal 637503		
				Gender			Contact Number of Agency	9842256262		
							Email of Agency	umasankarp @mahendra.i nfo		

Industrial induction heater power converting system and a method Thereof	IP/Patented Technology	One-time transfer/Licens ing	201941003361A	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder  Email of	Dr S Sumathi 9443745077 sumathis@m	EEE	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy	Institute  Mahendra Engineering College Autonomous  Mahendrapur	No	
				Licence holder Gender	ahendra.info Female		Address of Agency  Contact Number of Agency  Email of Agency	i Mallasamudr am Namakkal 637503 9443745077		
Horizontal Axis Cam Guided Telescopic Blade Yaw Controlled Wind Mill	IP/Patented Technology	One-time transfer/Licens ing	201841033956A	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder	Dr P Suresh kumar 8610137015	EEE	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy	Institute  Mahendra Engineering College Autonomous	No	
				Email of Licence holder Gender	sureshkumar p@mahendr a.info		Address of Agency Contact Number of Agency	Mahendrapur i Mallasamudr am Namakkal 637503 8610137015		
							Email of Agency	sureshkumar p@mahendr a.info		

Geofence based border limiting system	IP/Patented Technology	One-time transfer/Licens ing	201941033492A	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder  Email of Licence holder  Gender	Dr P Umasankar 9842256262 umasankarp @mahendra.i nfo	EEE	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy  Address of Agency  Contact Number of Agency  Email of	Institute  Mahendra Engineering College Autonomous  Mahendrapur i Mallasamudr am Namakkal 637503  9842256262	No	
Hybrid Ash Bricks	IP/Patented Technology	One-time transfer/Licens ing	5075CHE2014	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder  Email of Licence holder  Gender	Dr K Vidhya  9842022047  vidhya22047 @gmail.com  Female	Civil	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy  Address of Agency  Contact Number of Agency  Email of Agency	Industry  Tech new Building Products  Coimbatore  9843018152  rgsekar@gmail.com	No	

reciniology comme	o cianzatio	ii / II alisici								
Hybrid Ash Aggregate Concrete	IP/Patented Technology	One-time transfer/Licens ing	5727CHE2014	Holder name (Institute Co- ownership is Must)  Contact number of license holder	r K Vidhya 342022047	Civil	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy	Start-up miniature scale Hybrid Ash Aggregate plant	No	
					dhya22047 gmail.com emale		Address of Agency	Mahendrapur i Mallasamudr am Namakkal 637503		
				Gender			Contact Number of Agency Email of	9842022047 vidhya22047		
							Agency	vidhya22047 @gmail.com		
Building Health Monitoring Device	IP/Patented Technology	One-time transfer/Licens ing	5728CHE2014	Holder name (Institute Co- ownership is Must)	r K Vidhya	civil	Licence Transferred to Name of Industry/Start- up/Agency Received	Institute  Mahendra Engineering College Autonomous	No	
				of license holder	dhya22047		License/Techno logy	Mahendrapur i		
					emale		Address of Agency  Contact	Mallasamudr am Namakkal 637503 9842022047		
				Gender			Number of Agency Email of			
							Agency	vidhya22047 @gmail.com		

rechnology comme		1	i	<u> </u>		1			i	
Fabrication and Testing methods of strain measuring Instruments for brick masonry SMIBM	IP/Patented Technology	One-time transfer/Licens ing	6113CHE2015	Patent/Licence Holder name (Institute Co-	Dr K Vidhya	civil	Licence Transferred to	Institute	No	
Shok masonly divide				ownership is Must)			Name of Industry/Start- up/Agency	Mahendra Engineering College		
				Contact number of license holder	9842022047		Received License/Techno logy	Autonomous		
				Email of Licence holder	vidhya22047 @gmail.com		Address of	Mahendrapur i Mallasamudr		
					Female		Agency	am Namakkal 637503		
				Gender			Contact Number of Agency	9842022047		
							Email of Agency	vidhya22047 @gmail.com		
Innovation technology in manufacturing process of lash Brick	IP/Patented Technology	One-time transfer/Licens ing	201641038578	Patent/Licence Holder name	Dr K Vidhya	Civil	Licence Transferred to	Institute	No	
				(Institute Co- ownership is Must)			Name of Industry/Start-	Mahendra Engineering		
				Contact number of license holder	9842022047		Industry/Start- up/Agency Received License/Techno logy	College Autonomous		
				Email of Licence holder	vidhya22047 @gmail.com		Address of	Mahendrapur i Mallasamudr		
					Female		Agency	am Namakkal 637503		
				Gender			Contact Number of Agency	9842022047		
							Email of Agency	vidhya22047 @gmail.com		

Flexible Sliding Stretcher	IP/Patented Technology	One-time transfer/Licens ing	201741044051	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder	M V Muthukumar Dr K Rajkumar	Mechanical	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy	Mahendra Engineering College Autonomous	No
				Email of Licence holder	rajkumark@ mahendra.inf o Male		Address of Agency	Mahendrapur i Mallasamudr am Namakkal 637503	
				Gender			Contact Number of Agency	9994520097	
							Email of Agency	rajkumark@ mahendra.inf o	

# **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. R.V.Mahendra Gowda (Head of Institute) and Dr. C.Dhavamani (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

Alm

Dr. R.V.Mahendra Gowda Head of the Institution, Mahendra Engineering College, Namakkal, Tamil Nadu Nodal officer

Allonomoni.

Dr. C.Dhavamani Nodal Officer, Mahendra Engineering College, Namakkal, Tamil Nadu

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