



ARIIA

ATAL 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: Mar Ephraem College of Engineering and Technology [ARI-C-27039]

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/received fund to organise the program/activity/event?	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)
Entrepreneurship Awareness Camp	Entrepreneurship/Startup	Entrepreneurship Awareness Camp	Student Lead Activity	Mar Ephraem College of Engineering and Technology	06-09-2018 00:00:00	08-09-2018 00:00:00	3	Within Campus	87	0	0	0	87	Yes	20000
Entrepreneurship Awareness Camp	Entrepreneurship/Startup	Entrepreneurship Awareness Camp	Student Lead Activity	Mar Ephraem College of Engineering and Technology	05-12-2018 00:00:00	07-12-2018 00:00:00	3	Within Campus	76	0	0	0	76	Yes	20000
Entrepreneurship Awareness Camp	Entrepreneurship/Startup	Entrepreneurship Awareness Camp	Student Lead Activity	Mar Ephraem College of Engineering and Technology	09-11-2018 00:00:00	12-11-2018 00:00:00	4	Within Campus	81	0	0	0	81	Yes	20000
BHARAT STAGE 6 EMISSION CONCEPT and CHALLENGES	Innovation	Seminar	Student Lead Activity	SAEINDIA Collegiate Club of Mar Ephraem	30-08-2019 00:00:00	30-08-2019 00:00:00	1	Within Campus	76	0	3	0	79	Yes	10000
India Electric Vehicle Market	Innovation	seminar	Student Lead Activity	SAEINDIA Collegiate Club of Mar Ephraem	04-09-2019 00:00:00	04-09-2019 00:00:00	1	Within Campus	100	0	0	0	100	Yes	8000
Challenge identification competition	Innovation	competition	Student Lead Activity	Mar Ephraem Entrepreneurship development centre	21-02-2019 00:00:00	22-02-2019 00:00:00	2	Within Campus	200	3	0	0	203	Yes	540
How to select project from thrust areas	Innovation	seminar	Student Lead Activity	Mar Ephraem CSE	12-07-2018 00:00:00	12-07-2018 00:00:00	1	Within Campus	41	0	0	0	41	No	---

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

MySQL	Innovation	Workshop	Student Lead Activity	Mar Ephraem CSE	23-02-2019 00:00:00	23-02-2019 00:00:00	1	Within Campus	47	0	0	0	47	No	---
Workshop on robotics	Innovation	Workshop	Student Lead Activity	Mar Ephraem CSE	26-02-2019 00:00:00	26-02-2019 00:00:00	1	Within Campus	47	0	0	0	47	No	---
Hands on Training in Javascript	Innovation	Hands on Training	Student Lead Activity	Mar Ephraem CSE	20-07-2018 00:00:00	20-07-2018 00:00:00	1	Within Campus	44	0	0	0	44	No	---
Workshop on Python programming	Innovation	Workshop	Student Lead Activity	Mar Ephraem CSE	16-03-2018 00:00:00	16-03-2018 00:00:00	1	Within Campus	47	0	0	0	47	No	---
Seminar on IPR	IPR	Seminar	Student Lead Activity	Mar Ephraem EEE	05-07-2018 00:00:00	05-07-2018 00:00:00	1	Within Campus	38	0	0	0	38	No	---
PCB Design and Fabrication	Innovation	Seminar	Student Lead Activity	Mar Ephraem EEE	07-09-2018 00:00:00	07-09-2018 00:00:00	1	Within Campus	31	0	0	0	31	No	---
Python Programming	Innovation	Workshop	Student Lead Activity	Mar Ephraem EEE	15-02-2019 00:00:00	15-02-2019 00:00:00	1	Within Campus	73	0	0	0	73	No	---
Application of Matlab on Bio Signal Processing	Innovation	Seminar	Student Lead Activity	Mar Ephraem EEE	20-08-2019 00:00:00	20-08-2019 00:00:00	1	Within Campus	30	0	0	0	30	Yes	650
Regional level competition IET KKLN	Innovation	Competition	Institute Lead Activity	Mar Ephraem IET	28-09-2019 00:00:00	28-09-2019 00:00:00	1	Within Campus	70	0	80	0	150	Yes	10000
Tech Fest IET KKLN	Innovation	Competition	Institute Lead Activity	Mar Ephraem IET	28-09-2019 00:00:00	28-09-2019 00:00:00	1	Within Campus	70	0	80	0	150	Yes	19633
Orientation program on ISTE	Innovation	Seminar	Institute Lead Activity	Mar Ephraem ISTE	21-01-2019 00:00:00	21-01-2019 00:00:00	1	Within Campus	65	0	0	0	65	Yes	3500
Application of Mat lab for engineering	Innovation	Seminar	Student Lead Activity	Mar Ephraem ISTE	04-10-2019 00:00:00	04-10-2019 00:00:00	1	Within Campus	56	0	0	0	56	Yes	550
Workshop on PCB Designing	Innovation	Workshop	Student Lead Activity	Mar Ephraem EEE	14-08-2019 00:00:00	14-08-2019 00:00:00	1	Within Campus	26	0	0	0	26	Yes	1500
Workshop on Solar photovoltaics	Innovation	Workshop	Student Lead Activity	Mar Ephraem EEE	03-08-2019 00:00:00	03-08-2019 00:00:00	1	Within Campus	32	0	0	0	32	Yes	500
Robotics workshop	Innovation	Workshop	Student Lead Activity	Mar Ephraem ECE	23-11-2018 00:00:00	23-11-2018 00:00:00	1	Within Campus	0	0	70	0	70	No	---
Robotics workshop	Innovation	workshop	Student Lead Activity	Mar Ephraem College of Engineering and Technology	27-11-2018 00:00:00	27-11-2018 00:00:00	1	Within Campus	0	0	35	0	35	No	---

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Workshop on Robotics	Innovation	Workshop	Institute Lead Activity	Mar Ephraem	31-01-2019 00:00:00	31-01-2019 00:00:00	1	Within Campus	0	1	44	0	45	No	---
Robotics Workshop	Innovation	Workshop	Institute Lead Activity	Mar Ephraem	13-08-2019 00:00:00	13-08-2019 00:00:00	1	Outside Campus	0	4	40	0	44	No	---
Workshop on Robotics	Innovation	Workshop	Student Lead Activity	Mar Ephraem	08-08-2019 00:00:00	08-08-2019 00:00:00	1	Outside Campus	2	3	59	0	64	No	---
Workshop on Robotics	Innovation	Workshop	Institute Lead Activity	Mar Ephraem	30-08-2019 00:00:00	30-08-2019 00:00:00	1	Outside Campus	3	3	59	0	65	No	---
Workshop on Robotics	Innovation	Workshop	Institute Lead Activity	Mar Ephraem	03-09-2019 00:00:00	03-09-2019 00:00:00	1	Outside Campus	1	3	34	0	38	No	---
Workshop on Robotics	Innovation	Workshop	Institute Lead Activity	Mar Ephraem	05-09-2019 00:00:00	05-09-2019 00:00:00	1	Outside Campus	0	3	37	0	40	No	---
Workshop on Robotics	Innovation	Workshop	Institute Lead Activity	Mar Ephraem	05-10-2019 00:00:00	05-10-2019 00:00:00	1	Outside Campus	0	4	45	0	49	No	---
Workshop on Robotics	Innovation	Workshop	Institute Lead Activity	Mar Ephraem	22-10-2019 00:00:00	22-10-2019 00:00:00	1	Outside Campus	0	4	52	0	56	No	---
Workshop on robotics	Innovation	Workshop	Institute Lead Activity	Mar Ephraem	25-10-2019 00:00:00	25-10-2019 00:00:00	1	Outside Campus	0	3	48	0	51	Yes	10000
Elecspire 2K19	Innovation	Competition	Institute Lead Activity	Mar Ephraem ECE	14-02-2019 00:00:00	15-02-2019 00:00:00	2	Within Campus	100	0	50	0	150	Yes	64000
SCIFA	Innovation	Competition	Institute Lead Activity	Mar Ephraem College of Engineering and Technology	26-03-2019 00:00:00	26-03-2019 00:00:00	1	Within Campus	268	0	0	0	268	Yes	37000
Agnya	Innovation	Competitions	Institute Lead Activity	Mar Ephraem College of Engineering	14-03-2019 00:00:00	15-03-2019 00:00:00	2	Within Campus	155	0	95	0	250	Yes	284000

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)
Top management meeting	Entrepreneurship/Startup	Entrepreneurship	EDII,TN	Educational Institute	20-09-2019 00:00:00	20-09-2019 00:00:00	1	0	2	2	No	---	---	Yes	1350
Think Thank	Entrepreneurship/Startup	workshop	EDII Tamilnadu	Govt. Agency (State)	07-09-2019 00:00:00	07-09-2019 00:00:00	1	5	0	5	No	---	---	Yes	450

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

NewGen IEDC	Pre-Incubation Centre	2018	malankara hills, Elavuvilai, Marthandam, Kanyakumari district	Facility Incharge Name	Dr. R. Melbakkani	7000 Sq. Ft.	Yes		No
				Facility Incharge Email	melbakkani75@gmail.com		Annual Capital Expenditure (In Rupees)	3500000	
				Facility Incharge Phone	09442988239		Annual Operational Expenditure (In Rupees)	2500000	

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)
NewGen IEDC	Funding Agency	NSTEDB	Govt. Agency (Central)	Yes	6000000

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?			
Two Wheeler Black Box Security For Woman	NewGen IEDC	TRL 6 : Prototype system tested in intended environment close to expected performance.	Student	2018	Non-IP / Non-Patented Technology	Completed and Ready for Commercialization/Incubation	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>251260</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	251260	No	No
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Principal Innovator													
Name		Type		Gender		Email		Contact					
Shobana		Faculty		Female		shobhana1690@gmail.com		0					

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Henlock - Portable automatic lock system for backyard Poultry Farming	NewGen IEDC	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/Incubation	TRL 6 : Prototype system tested in intended environment close to expected performance.	<table border="1"> <tr> <td data-bbox="1635 422 1827 470">Yes</td> </tr> <tr> <td data-bbox="1635 470 1827 694">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td data-bbox="1635 694 1827 742">249520</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	249520	No	No																											
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Cling- A mobile app for locating tree climbers nearby	NewGen IEDC	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/Incubation	TRL 6 : Prototype system tested in intended environment close to expected performance.	Yes	No	No																			
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Automated Hydroponic Cattle Feeder Machine	NewGen IEDC	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/Incubation	TRL 6 : Prototype system tested in intended environment close to expected performance.	Yes	No	No																			
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Home Care Smart bed for Post Childhood people	NewGen IEDC	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/Incubation	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>250260</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	250260	No	No																						
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Post harvesting traceability and visibility system for horticulture	NewGen IEDC	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/Incubation	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>248620</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	248620	No	No																																																				
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Semi Automatic Tea Blender	NewGen IEDC	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/Incubation	TRL 6 : Prototype system tested in intended environment close to expected performance.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td data-bbox="1635 794 1827 858">Yes</td> </tr> <tr> <td data-bbox="1635 858 1827 1082">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td data-bbox="1635 1082 1827 1129">250650</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	250650	No	No																	
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	Co-Innovator												
	Name		Type		Gender		Email		Contact				
	Abilash		Student		Male		mechdani@gmail.com		9791814107				
	Abinesh		Student		Male		mechdani@gmail.com		9791814107				
	Alphin		Student		Male		mechdani@gmail.com		9791814107				
Anish		Student		Male		mechdani@gmail.com		9791814107					
Smart Drip Irrigation System	NewGen IEDC	TRL 5 : Large scale prototype tested in intended environment.	Faculty and Student	2018	Non-IP / Non-Patented Technology	Completed and Ready for Commercialization/Incubation	TRL 5 : Large scale prototype tested in intended environment.	<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>249560</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	249560	No	No
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	Principal Innovator												
	Name		Type		Gender		Email		Contact				
	Babin T Praise		Faculty		Male		babin@marephraem.edu.in		7305115111				
	Co-Innovator												
Name		Type		Gender		Email		Contact					
Jestin Sam Jose		Student		Male		babin@marephraem.edu.in		7305115111					
Arun Kumar		Student		Male		babin@marephraem.edu.in		7305115111					

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Kicker operated Coconut Dehusking Machine	NewGen IEDC	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Faculty and Student	2018	Non-IP / Non-Patented Technology	Completed and Ready for Commercialization/Incubation	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Yes	No	No									
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								251230											
								Principal Innovator											
								Name			Type		Gender		Email		Contact		
								A Jude Felix			Faculty		Male		judedefelix@marephraem.edu.in		8903787202		
								Co-Innovator											
								Name			Type		Gender		Email		Contact		
								Shijo Paul CM			Student		Male		judedefelix@marephraem.edu.in		8903787202		
								Prabin G			Student		Male		judedefelix@marephraem.edu.in		8903787202		
Vibin Jose		Student		Male		judedefelix@marephraem.edu.in		8903787202											
Prakash P		Student		Male		judedefelix@marephraem.edu.in		8903787202											
60 Watts Smart hybrid Table Fan	NewGen IEDC	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Faculty	2018	Non-IP / Non-Patented Technology	Completed and Ready for Commercialization/Incubation	TRL 5 : Large scale prototype tested in intended environment.	Yes	No	No									
								Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)											
								12825											

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Principal Innovator										
Name				Type		Gender		Email		Contact
Anish John Paul				Faculty		Male		anishjohnpaul@gmail.com		9952458577
Co-Innovator										
Name				Type		Gender		Email		Contact
Shijo Paul CM				Student		Male		judedefelix@marephraem.edu.in		8903787202

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

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/Incubation Support Received	Has the Start-up Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2018-19	Had Centre/institute 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?	Had the Start-up 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 Start-up for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19 ?	
Menestys Entreprises	NewGen IEDC	2017-18	One Person Company	0	Alumni Entrepreneur	Service Based Business Solution	Dropped	No	No	No	No	
Founder												
Name				DIN Number		Type		Gender		Email		Contact
Mercin Viju				0		Alumni Entrepreneur		Male		mercinviju@gmail.com		8015782029

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
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Co-Incubation Partnership

Incubation Services/Support Extended to Other Institute	Marthandam Integrated Development Society	Mentoring,Networking	2	16-08-2018
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Technology Commercialization / Transfer

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)																		
Development of Portable Instrument for Medical Image Analyzing Compression and Transmission compatible for CT MRI low Slice thickness images	Non-IP/Non-Patented Technology	One-time transfer/Licensing	0	<table border="1"> <tr> <td>Patent/Licence Holder name (Institute Co-ownership is Must)</td> <td>Dr A Lenin Fred Principal Mar Ephraem College of Engineering and Technology</td> </tr> <tr> <td>Contact number of license holder</td> <td>9443483072</td> </tr> <tr> <td>Email of Licence holder</td> <td>leninfred.a@gmail.com</td> </tr> <tr> <td>Gender</td> <td>Male</td> </tr> </table>	Patent/Licence Holder name (Institute Co-ownership is Must)	Dr A Lenin Fred Principal Mar Ephraem College of Engineering and Technology	Contact number of license holder	9443483072	Email of Licence holder	leninfred.a@gmail.com	Gender	Male	Mar Ephraem Centre for Image Processing	<table border="1"> <tr> <td>Licence Transferred to</td> <td>Institute</td> </tr> <tr> <td>Name of Industry/Start-up/Agency Received License/Technology</td> <td>Kalam Institute of Health Technology</td> </tr> <tr> <td>Address of Agency</td> <td>AMTZ Campus Pragati Maidan Visakapatan am 530031 Andhra Pradesh</td> </tr> <tr> <td>Contact Number of Agency</td> <td>8885092122</td> </tr> <tr> <td>Email of Agency</td> <td>g.ekram@khit.in</td> </tr> </table>	Licence Transferred to	Institute	Name of Industry/Start-up/Agency Received License/Technology	Kalam Institute of Health Technology	Address of Agency	AMTZ Campus Pragati Maidan Visakapatan am 530031 Andhra Pradesh	Contact Number of Agency	8885092122	Email of Agency	g.ekram@khit.in	No	---
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Responsibility for accuracy and authenticity of data lies with the concerned institution.