







# Certificate of Appreciation

This is to certify that

### K S R M College of Engineering, Kadapa

is categorized as 'Band B' institution (rank between 26-50) in category of 'Private or Self-Financed College/Institutes' in Atal Ranking of Institutions on Innovation Achievement (ARIIA) 2020 announced on 18<sup>th</sup> Aug 2020.

**Dr. Anil D Sahasrabudhe** Chairman, AICTE

**Sh. Amit Khare** Secretary (HE), MHRD **Dr. Abhay Jere**Chief Innovation Officer
MHRD's Innovation Cell





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

Institute Name: K S R M College of Engineering [ARI-A-44477]

#### 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)
KSRM COLLEGE OF ENGINEERING	223128580.00	264757808.00	Document Uploaded in ARIIA DSP
Total (Rupees in Figure)	223128580.00	264757808.00	

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) := 2675

Total Faculty Base (Full Time) Engaged in Teaching and Research at Institute/University (Academic Year 2018-19) := 158

#### 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)
Three-day entrepreneur ship awareness camp	Entrepreneur ship/Startup	Awareness camp	Institute Lead Activity	CENTER FOR RESEARCH AND INNOVATIO N	04-10-2018 00:00:00	06-10-2018 00:00:00	3	Within Campus	80	10	20	4	114	No	
Three day entrepreneur ship awareness camp	Entrepreneur ship/Startup	Awareness camp	Institute Lead Activity	Center for Research and Innovation	21-02-2019 00:00:00	23-02-2019 00:00:00	3	Within Campus	120	10	10	2	142	No	
Intellectual property rights (IPR) for Students and Faculty Members	IPR	WORKSHO P	Institute Lead Activity	CENTER FOR RESAERCH Y AND INNOVATIO N	10-01-2019 00:00:00	10-01-2019 00:00:00	1	Within Campus	50	2	0	0	52	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

Name of	Program	Program	Organizing	Organizing	Program	Program	Program	Participants	Participants	Total	Awards/Rec	Award /	Title of	Had institute	Total
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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

Program (Full Name)	Theme	Туре	Agency / Institute Name	Agency Type	Start Date	End Date	Duration(in Days)	(Students)	(Faculty)	Number of Participants	ognitions/Ac hievements	Position / Recognition Secured	Innovation / Start-up Secured the Award / Recognition	spent expenses either from own resource/rec eived fund towards sending delegation to participate/re present the program/acti vity/event?	Expense Amount Incurred by Institute? (In Rupees)
India first Leadership Talk Episode 1	Innovation	Leadership Talk Episode 1	MHRD	Govt. Agency (Central)	01-01-2019 00:00:00	01-01-2019 00:00:00	1	150	30	180	No			No	
India first Leadership Talk Episode 2	IPR	India first Leadership Talk Episode 2	MHRD	Govt. Agency (Central)	10-01-2019 00:00:00	10-01-2019 00:00:00	1	180	25	205	No			No	
India first Leadership Talk 3	Innovation	India first Leadership Talk 3	MHRD	Govt. Agency (Central)	24-01-2019 00:00:00	24-01-2019 00:00:00	1	200	40	240	No			No	
India first Leadership Talk Episode 4	Innovation	India first Leadership Talk Episode 4	MHRD	Govt. Agency (Central)	24-01-2019 00:00:00	24-01-2019 00:00:00	1	100	20	120	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
Five Day FDP on Machine Learning	Innovation	FDP	Short Term Certificate Course	11-02-2019 00:00:00	15-02-2019 00:00:00	5	Offline	50	42	45
RobCAD and Solid Edge Technologies workshop	Innovation	Short term Certificate	Short Term Certificate Course	01-02-2019 00:00:00	20-02-2019 00:00:00	20	Offline	53	53	60
One day Hackathon on Machine Learning	Innovation	MDP	Short Term Certificate Course	20-02-2019 00:00:00	20-02-2019 00:00:00	1	Online	50	45	40
Solar PV Emulator	Innovation	FDP	Short Term Certificate Course	20-07-2019 00:00:00	27-07-2019 00:00:00	8	Offline	45	45	45
Internet of Things	Innovation	Short term Certificate	Short Term Certificate Course	15-07-2019 00:00:00	18-07-2019 00:00:00	4	Offline	45	45	45
Numerical programming using octave	Innovation	Short term Certificate	Bachelor	29-03-2019 00:00:00	31-03-2019 00:00:00	3	Offline	60	60	45
Scilab Programming	Innovation	Short term Certificate	Bachelor	05-03-2019 00:00:00	12-03-2019 00:00:00	8	Offline	60	60	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	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

						Pre-Incubation & Incubation Centre/Facilities?	
Center for Research and Innovation	Centre of Excellence with Advance Tools & Equipment	2018	Yerramasupalli, C.K. Dinne, Kadapa, Andhra Pradesh 516003	Facility Dr. M. Venkatan arayana	5000 Sq. Ft.	Yes Annual Capital 1000000	No
				Facility mvnaraya Incharge na@ksrm Email ce.ac.in		Expenditure (In Rupees)  Annual  200000	
				Facility 94404252 Incharge Phone 92404252		Operational Expenditure (In Rupees)	
Innovation Center	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	2018	Yerramasupalli, C.K. Dinne, Kadapa, Andhra Pradesh 516003	Facility Dr. D. Incharge Arun Name Kumar	5000 Sq. Ft.	Yes Annual Capital 1000000 Expenditure (In	No
				Facility dasariak @ksrmce .ac.in  Facility 74118909		Annual 200000 Operational	
				Facility 74118909 60 Phone		Expenditure (In Rupees)	

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)
Center for Research and Innovation	Institute's Own Fund / Resource			No	
Innovation Center	Institute's Own Fund / Resource			No	
Center for Research and Innovation	Institute's Own Fund / Resource			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/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?
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#### Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Solar Photovoltaic Array Simulator Emulator	Center for Research and Innovation	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty	2019	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/I nnovations Development by Centre (In Rupees)	No	No
	Principal Inn	ovator								
		Name		Туре		Gender		Email	C	ontact
	Dr. M. Sreedhar			Faculty	Mal	e	sreedhar@	ksrmce.ac.in	8660256263	
Hi Fidelity Active Noise Control for two seater using virtual sensing	Center for Research and Innovation	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.	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)	No	No
	Principal Inn	ovator								
		Name		Туре		Gender		Email	Co	ontact
	Dr. M. V. Narayana			Faculty	Mal	е	mvnarayan	a@ksrmce.ac.in	9440425221	
Performance Analysis of Solar-Wind Hybrid Power Generation for Domestic Application	Center for Research and Innovation	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2019	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/I nnovations Development by Centre (In Rupees)  40000	No	No

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

	Principal Inn	ovator											
		Name		Туре			Gender			Email		Co	ontact
	Dr. T. Mari Prasath			Faculty		Male			mariprasatl	n@ksrmce.ac.in		9786110993	
Classification of Remote Sensing Images using Granular Neural Networks	Center for Research and Innovation	enter for TRL 1 : Basic Faculty 20 seearch and research. Principles		2019	Non-IP / Non-Patented Technology		Still Under Development Process	TRL 2: formulati Concept applicati been for	and	Yes  Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees)  40000	No		No
	Principal inn	ovator											
		Name		Туре			Gender			Email		Co	ontact
	Dr. D. Arun Kumar			Faculty		Male			dasariak@ksrmce.ac.in			7411890960	

#### 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		o Founded by	Type of Innovation	Current Status Pre- Incubation/Incuba tion Support Received	Has the Sta Grown to a of Employr Generation Numbers c annual Turr to Rs. 50 L during the financial y 2018-19	stage nent to 10 or an nover akhs ne ear	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?	raised a fund/ Investn during th of recei- incubatio tion su your incubatio tion or durin financia	e Start-up any Seed /Angel ment/VC he period ving pre- on/incuba ipport at r Pre- on/incuba institute ng the al period 8-19?	Had the Incubation Centre/institute Received any income/revenue 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?
Solar Photovoltaic Array Simulator Emulator	Center for Research and Innovation	Research and Partner		U74999DL2018P TC330854	Faculty		Non-IP / Non- Patented Technology	Graduated from Incubation Unit/Centre	No		No	No		No
	Founder													
		Name		DIN Number			Туре	Gende	r		Email		Co	ontact
	Dr. M. Sreedhar			U74999DL2018PTC330	854	Faculty		Male		sreed	lhar@ksrmce.ac.in	86	660256263	

#### **Co-Incubation Partnership**

Type of Partnership Partnership	Institute Name Type of Support Offered	No. of Student Projects/ Ideas / Innovation /	Date of MOU / Agreement Signed on
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**Co-Incubation Partnership** 

			Startups Supported	
Incubation Services/Support Extended to Other Institute	Kandula Obula Reddy Memorial College of Engineering Kadapa	Mentoring	10	02-07-2018
Incubation Services/Support Extended to Other Institute	Kandula Lakshmimma Memorial College of Engineering	Mentoring	10	07-07-2018

**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)
COOPERATIVE CROP MANAGEMENT SYSTEM FOR RURAL INDIA AND METHOD THEREOF	IP/Patented Technology	One-time transfer/Licens ing	201841048151	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder  Email of Licence holder  Male  Gender	PATENT OFFICE CHENNAI	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy  KSRM COLLEGE OF ENGINEERI NG  KSRM College of Engineering Yerramasupa Ili C K Dinne mandal Kadapa A P 516003  Contact Number of Agency  Email of Agency  principal@ks rmce.ac.in	No	
I key Intelligent Key Pattern active through Biometric input	IP/Patented Technology	One-time transfer/Licens ing	201821049329	Patent/Licence Holder name (Institute Co- ownership is Must)  Contact number of license holder  Email of Licence holder  Female  Gender	INDIAN PATENT OFFICE	Licence Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy  Address of Agency  Contact Number of Agency  Email of Agency  Institute  KSRM COLLEGE OF ENGINEERI NG  College of Engineering Yerramasupa Ili C K Dinne mandal KADAPA AP  9885230680  principal@ks rmce.ac.in	No No	

**Technology Commercialization / Transfer** 

with real date and time  Technology Itransfer/Licens Ing  Technology Ing											
Continuous flow vermit   Continuous flow ver	I Sign Intelligent Sign device with real date and time	IP/Patented Technology	transfer/Licens	201821049324	Patent/Licence I Holder name F	DR M V RATNAMMA	INDIAN PATENT OFFICE	Licence Transferred to	Institute	No	
Continuous flow vermi reactor for fast track urban solid wrater management    Post of the process of the proces					ownership is			Industry/Start-	KSRM COLLEGE		
Continuous flow vermi reactor for fast track urban solid waste management					of license	8555871782		License/Techno	ENGINEERI		
Continuous flow vermi reactor for fast track urban solid waste management    PiPatented Transfer Licens Indigency   Patent License Fechnology   Patent License For flowers in fig.					License helder	@ksrmce.ac.		Address of	College of		
Continuous flow vermi reactor for fast track urban solid waste management  Patent/Licens ing  Continuous flow vermi reactor for fast track urban solid waste management  Patent/Licens ing  Patent/Licens (Institute Co-ownership is Must)  Contact urban solid waste management  Patent/Licens ing  Patent/Licens Patent/Licens Pamanjaney (Institute Co-ownership is Must)  Contact urban solid waste management  Contact incense holder  Email of License for Industry/Start-urban solid waste management  KSRM COLLEGE OF Country Start-urban solid waste management  KSRM COLLEGE OF Country Start-urban solid waste management  Male  Contact mee.ac.in  Male  Contact Number of Agency  Ramanjaney (Institute Co-ownership is Must)  KSRM COLLEGE OF Country Start-urban solid waste management  KSRM College of Engineers in College of Engine					N	Male		Agency	lli C K Dinne mandal Kadapa		
Continuous flow vermi reactor for fast track urban solid waste management    P/Patented Technology and Technolo					Gender			Number of	9885230680		
Technology transfer/Licens ing  Technology transfer/Licens solid waste management  Technology transfer/Licens ing  Technology											
Ownership is Must)  Contact number of license holder  Email of Licence holder  Gender  Male  Name of Industry/Start-up/Agency Received License/Techno logy  KSRM COLLEGE OF ENGINEERI NG  Address of Address of Address of Agency  Male  Contact Number of Agency  Email of Contact Number of Agency  Email of Principal@ks											
Contact number of license holder  Email of Licence holder  Male  Contact number of license holder  Email of Licence holder  Male  Contact Number of Agency  Email of Agency  Male  Contact Number of Agency  Email of Licence holder  Email of Licence holder  Male  Contact Number of Agency  Email of principal@ks	reactor for fast track urban	IP/Patented Technology	transfer/Licens	201811034642	Patent/Licence L	Dr N Ramanjaney	INDIAN PATENT OFFICE	Licence Transferred to	Institute	No	
Gender  Gender  Contact Number of Agency  Email of principal@ks	reactor for fast track urban	IP/Patented Technology	transfer/Licens	201811034642	Holder name (Institute Co- ownership is	Dr N Ramanjaney a Reddy	INDIAN PATENT OFFICE	Transferred to  Name of Industry/Start-	KSRM COLLEGE	No	
Gender  Gender  Contact Number of Agency  Email of principal@ks	reactor for fast track urban	IP/Patented Technology	transfer/Licens	201811034642	Holder name (Institute Co- ownership is Must)  Contact number of license	Ramanjaney a Reddy	INDIAN PATENT OFFICE	Name of Industry/Start-up/Agency Received License/Techno	KSRM COLLEGE OF ENGINEERI	No	
Number of Agency  Email of principal@ks	reactor for fast track urban	IP/Patented Technology	transfer/Licens	201811034642	Holder name (Institute Co- ownership is Must)  Contact number of license holder  Email of	Ramanjaney a Reddy 8555079300 ramanji@ksr	INDIAN PATENT OFFICE	Transferred to  Name of Industry/Start- up/Agency Received License/Techno logy	KSRM COLLEGE OF ENGINEERI NG	No	
	reactor for fast track urban	IP/Patented Technology	transfer/Licens	201811034642	Holder name (Institute Coownership is Must)  Contact number of license holder  Email of Licence holder	Ramanjaney a Reddy 8555079300 ramanji@ksr mce.ac.in	INDIAN PATENT OFFICE	Transferred to  Name of Industry/Start-up/Agency Received License/Techno logy  Address of	KSRM COLLEGE OF ENGINEERI NG  KSRM College of Engineering Yerramasupa Ili C K Dinne mandal	No	
	reactor for fast track urban	IP/Patented Technology	transfer/Licens	201811034642	Holder name (Institute Coownership is Must)  Contact number of license holder  Email of Licence holder	Ramanjaney a Reddy 8555079300 ramanji@ksr mce.ac.in	INDIAN PATENT OFFICE	Transferred to  Name of Industry/Start-up/Agency Received License/Techno logy  Address of Agency  Contact Number of	KSRM COLLEGE OF ENGINEERI NG KSRM College of Engineering Yerramasupa Ili C K Dinne mandal KADAPA AP	No	

#### **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. V S S Murthy (Head of Institute) and Mr. Arun Kumar (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

Dr. V S S Murthy

Head of the Institution,

K S R M College of Engineering, KADAPA, Andhra Pradesh Nodal officer

D-Avun Kumar

Mr. Arun Kumar Nodal Officer, K S R M College of Engineering, KADAPA, Andhra Pradesh

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