



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

Institute Name: Indian Institute of Technology Kharagpur [ARI-U-0573]

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)
Indian Institute of Technology, Kharagpur	6780303826.00	5344093053.00	Document Uploaded in ARIIA DSP
Total (Rupees in Figure)	6780303826.00	5344093053.00	

Institute Type : Institute of National Importance & Central Universities/CFTs

Total Student Base (Enrolled Full Time) for all the Academic Programs Offered by Institute/University (Academic Year 2018-19) := 12009

Total Faculty Base (Full Time) Engaged in Teaching and Research at Institute/University (Academic Year 2018-19) := 710

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)
Roadmap for patent creation	IPR	Workshop	Institute Lead Activity	IIT Kharagpur	25-08-2018 00:00:00	25-08-2018 00:00:00	1	Within Campus	120	10	0	0	130	No	
GIAN course on improved climate change adaptation strategies in water resources	Innovation	Workshop	Institute Lead Activity	School of Water resource	12-11-2018 00:00:00	16-11-2018 00:00:00	5	Within Campus	20	5	10	5	40	Yes	544000
Course on ECONOMIC ANALYSIS OF URBAN WATER SERVICES	Innovation	Exposure Visit	Institute Lead Activity	School of Water Resource	02-03-2019 00:00:00	09-03-2019 00:00:00	8	Within Campus	40	3	1	1	45	No	
PRISM Outreach	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	16-05-2018 00:00:00	16-05-2018 00:00:00	1	Within Campus	40	8	0	0	48	No	

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

Program C	Conducted	by Institute	e Related to	IPR, Entre	epreneursh	ip / Start-u	ps & Innov	ation							
PRISM	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	02-06-2018 00:00:00	02-06-2018 00:00:00	1	Outside Campus	0	0	100	20	120	Yes	5000
PRISM Outreach	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	03-08-2018 00:00:00	03-08-2018 00:00:00	1	Outside Campus	0	0	100	5	105	Yes	7000
Entrepreneur ship workshop on technical textiles	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	22-09-2018 00:00:00	22-09-2018 00:00:00	1	Within Campus	30	0	0	0	30	No	
Entrepreneur ship workshop on technical textiles	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	06-10-2018 00:00:00	06-10-2018 00:00:00	1	Within Campus	30	0	0	0	30	No	
Entrepreneur ship workshop on technical textiles	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	10-11-2018 00:00:00	10-11-2018 00:00:00	1	Within Campus	30	0	0	0	30	No	
Technical textiles- rural innovation	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	08-12-2018 00:00:00	08-12-2018 00:00:00	1	Within Campus	30	0	0	0	30	No	
Skill development , entrepreneur ship workshop on oyster mushroom cultivation and tissue culture based plant propagation technology	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	05-01-2019 00:00:00	05-01-2019 00:00:00	1	Within Campus	30	0	0	0	30	No	
Skill development , entrepreneur ship workshop on oyster mushroom cultivation and tissue culture based plant propagation technology	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	16-02-2019 00:00:00	16-02-2019 00:00:00	1	Within Campus	30	0	0	0	30	No	
PRISM and FIC Serial Weekly Workshops	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	06-03-2019 00:00:00	06-03-2019 00:00:00	1	Within Campus	8	2	0	0	10	No	
PRISM and FIC Serial Weekly Workshops	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	13-03-2019 00:00:00	13-03-2019 00:00:00	1	Within Campus	7	0	0	0	7	No	

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

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PRISM and FIC Serial Weekly Workshops	Entrepreneur ship/Startup, Innovation	Workshop	Institute Lead Activity	STEP	27-03-2019 00:00:00	27-03-2019 00:00:00	1	Within Campus	6	0	0	0	6	No	
EAD Ahmedabad	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	24-10-2018 00:00:00	24-10-2018 00:00:00	1	Outside Campus	0	0	470	0	470	No	
EAD Ambala	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	22-10-2018 00:00:00	22-10-2018 00:00:00	1	Outside Campus	0	0	620	0	620	No	
EAD Bhopal	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	25-10-2018 00:00:00	25-10-2018 00:00:00	1	Outside Campus	0	0	380	0	380	No	
EAD Chandigarh	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	16-10-2018 00:00:00	16-10-2018 00:00:00	1	Outside Campus	0	0	450	0	450	No	
EAD Jaipur	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	16-10-2018 00:00:00	16-10-2018 00:00:00	1	Outside Campus	0	0	2560	0	2560	No	
EAD Kanpur	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	08-10-2018 00:00:00	08-10-2018 00:00:00	1	Outside Campus	0	0	1640	0	1640	No	
EAD Mumbai	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	13-10-2018 00:00:00	13-10-2018 00:00:00	1	Outside Campus	0	0	600	0	600	No	
EAD Nagpur	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	20-10-2018 00:00:00	20-10-2018 00:00:00	1	Outside Campus	0	0	440	0	440	No	
EAD Noida	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	10-10-2018 00:00:00	10-10-2018 00:00:00	1	Outside Campus	0	0	990	0	990	No	
EAD Patna	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	06-10-2018 00:00:00	06-10-2018 00:00:00	1	Outside Campus	0	0	640	0	640	No	
EAD Pune	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	13-10-2018 00:00:00	13-10-2018 00:00:00	1	Outside Campus	0	0	950	0	950	No	
EAD Raipur	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	12-10-2018 00:00:00	12-10-2018 00:00:00	1	Outside Campus	0	0	2600	0	2600	No	
EAD Ranchi	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	04-10-2018 00:00:00	04-10-2018 00:00:00	1	Outside Campus	0	0	1460	0	1460	No	
EAD Udaipur	Entrepreneur ship/Startup	Awareness, Motivational Program	Institute Lead Activity	STEP	13-10-2018 00:00:00	13-10-2018 00:00:00	1	Outside Campus	0	0	240	0	240	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 (Full Name)	Program Theme	Program Type	Organizing Agency / Institute	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	Title of Innovation / Start-up	Had institute spent expenses	Total Expense Amount
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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									Secured	Secured the Award / Recognition	either from own resource/rec eived fund towards sending delegation to participate/re present the program/acti vity/event?	Incurred by Institute? (In Rupees)
National Case Study Challenge	Innovation	Innovation Contest	IIT Guwahati	Educational Institute	01-09-2018 00:00:00	01-09-2018 00:00:00	1	1	0	1	Yes	Silver Medal	24 Mantra and the organic food market	No	
Sludge Management in Circular Economy 2018	Innovation	Conference	International Water Association	International Agencies	23-05-2018 00:00:00	25-05-2018 00:00:00	3	0	1	1	No		1	Yes	132482
MSE Visiting Fellow	Innovation	Exposure Visit	University of Melbourne, Australia	Educational Institute	12-08-2018 00:00:00	26-08-2018 00:00:00	15	0	1	1	No			Yes	1497
IUKWC Grassroots Field Exposure Session Initiative on Water Quality Management	Innovation	Exposure Visit	India UK Water Center	International Agencies	13-12-2018 00:00:00	15-12-2018 00:00:00	3	2	1	3	No	-		No	
Integrated Water Management Master Class	Innovation	Skill Devlopment	Chola MS	Corporate / Industry Association	06-02-2019 00:00:00	07-02-2019 00:00:00	2	0	1	1	No			No	
Unnat Bharat Abhiyan (UBA) Orientation Workshop a	Innovation	Workshop	MHRD, Gol	Govt. Agency (Central)	25-04-2018 00:00:00	25-04-2018 00:00:00	1	0	1	1	No			No	
Short Term Training Workshop on Water and Energy Auditing and Water Demand Management	Innovation	Training	MNIT Jaipur	Educational Institute	03-04-2018 00:00:00	07-04-2018 00:00:00	5	0	1	1	No			No	
Short Term Training Workshop on Water and Energy Auditing and Water Demand Management	Innovation	Training	MNIT Jaipur	Educational Institute	08-04-2018 00:00:00	12-04-2018 00:00:00	5	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

Invited to attend an event on Rural Homestay Operators Certificate Program to promote Rural Homestay Tourism	Entrepreneur ship/Startup	Exposure visit	Centre for Entrepreneur ship Developmen t National Institute of Rural Developmen t and Panchayati Raj (NIRDPR), Guwahati Campus	Educational Institute	22-03-2019 00:00:00	22-03-2019 00:00:00	1	1	1	2	No			No	
DST-NWO Sandpit workshop on Urban Water systems	Innovation	Worskshop	DST, Gol and NWO, Netherlands	Govt. Agency (Central)	27-11-2018 00:00:00	30-11-2018 00:00:00	4	0	1	1	No	-	1	No	
Short Term Training Workshop on Water and Energy Auditing and Water Demand Management	Innovation	Training	MNIT Jaipur	Educational Institute	28-08-2018 00:00:00	01-09-2018 00:00:00	5	0	1	1	No			No	
Invited as an Expert in National Consultation on Driving Growth of Women-Owned Enterprises Experiences and Way Forward organized by UNDP in partnership with DAY-NRLM, World Bank and GIZ	Entrepreneur ship/Startup	Seminar	United Nations Developmen t Programme (UNDP), New Delhi	International Agencies	18-12-2018 00:00:00	19-12-2018 00:00:00	2	1	1	2	No	-	1	Yes	4876
DAAD student visit	Innovation	Exposure Visit	DAAD- Indian- Germany	Educational Institute	01-09-2018 00:00:00	28-02-2019 00:00:00	18	1	0	1	No			No	
National Workshop on Recent Advances in Civil Engineering Research	Innovation	Workshop	NIT Jamshedpur	Educational Institute	24-01-2019 00:00:00	24-01-2019 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

Invited as a Reviewer to	Entrepreneur	workshop	United Nations	International Agencies	17-12-2018 00:00:00	17-12-2018 00:00:00	1	0	1	1	No	 	Yes	4875
attend the one-day consultative workshop for finalizing curriculum outline for mentorship program under the UNDP Disha Project	Entrepreneur ship/Startup		Developmen t Programme (UNDP), New Delhi											
Entrepreneur ial Skill Developmen t and Training of underprivileg ed women through UNDP Disha Project	Entrepreneur ship/Startup	Workshop	United Nations Developmen t Programme (UNDP), New Delhi	International Agencies	17-12-2018 00:00:00	17-12-2018 00:00:00	1	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
Economics of Entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	83	83	36
MARKETING AND MARKET RESEARCH	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	137	137	36
MANUFACTURING MANAGEMENT	Innovation	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	35	35	36
FINANCIAL AND LEGAL ASPECTS OF BUSINESS	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	302	302	36
MANAGEMENT OF GROWTH VENTURES	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	90	90	36
FINANCING NEW VENTURE	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	54	54	36
Innovation management	Innovation	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	59	59	36
Engineering Design Process	Innovation	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	165	165	36
Healthcare analysis	Innovation	Elective/Core Credit Course	Credit Course (Elective)	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	11	11	30
Introduction to Intellectual Property Law	Entrepreneurship/Startup	Elective/Core Credit Course	Master	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	27	27	36
Patent Drafting and Specification Writing	Entrepreneurship/Startup	Full time Program	Master	01-01-2019 00:00:00	01-05-2019 00:00:00	121	Offline	33	33	42
Small Business Development	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	20-11-2018 00:00:00	143	Offline	59	59	44

TECHNO- ENTREPRENEURIAL LEADERSHIP	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	70	70	36
DESIGN-DRIVEN INNOVATION	Innovation	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	19	19	36
FOUNDATIONS OF ENTREPRENEURS	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	192	192	36
TECHNOLOGY ENTREPRENEURSHIP	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	73	73	36
ENGINEERING B-PLAN DEVELOPMENT - 1	Innovation	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	45	45	36
Product Development	Innovation	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	76	76	36
Entrepreneurship in Social Sector	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	57	57	36
Frugal Engineering	Innovation	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	67	67	36
FINANCIAL AND LEGAL ASPECTS OF BUSINESS	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	60	60	36
Law of Patent- 1	Entrepreneurship/Startup	Full time Program	Credit Course (Compulsory)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	40	40	42
Trademark and Design	Entrepreneurship/Startup	Full time Program	Credit Course (Compulsory)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	40	40	42
Comparative Patent Law	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	13	13	36
International Trade Law	Entrepreneurship/Startup	Elective/Core Credit Course	Credit Course (Elective)	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	14	14	36
Vacuum Technology and Process Applications	Entrepreneurship/Startup, Innovation	Short term Certificate	Short Term Certificate Course	01-12-2018 00:00:00	14-12-2018 00:00:00	14	Offline	14	14	80
Vacuum Technology	Entrepreneurship/Startup	Short term Certificate	Short Term Certificate Course	12-11-2018 00:00:00	16-11-2018 00:00:00	5	Offline	40	40	30
Vacuum Technology and Process Application	Entrepreneurship/Startup, Innovation	Short term Certificate	Short Term Certificate Course	18-09-2018 00:00:00	20-09-2018 00:00:00	3	Offline	27	27	30
Vacuum Technology and Process Applications	Entrepreneurship/Startup, Innovation	Short term Certificate	Short Term Certificate Course	28-05-2018 00:00:00	01-06-2018 00:00:00	5	Offline	15	15	30
Vacuum Technology and Process Applications	Entrepreneurship/Startup, Innovation	Short term Certificate	Short Term Certificate Course	02-04-2018 00:00:00	06-04-2018 00:00:00	5	Offline	25	25	30
Product Development Laboratory	Innovation	Full time Program	Bachelor	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	11	11	42
Product Development Project	Innovation	Full time Program	Bachelor	01-07-2018 00:00:00	01-12-2018 00:00:00	154	Offline	52	52	42
Product Development	Innovation	Full time Program	Bachelor	01-06-2018 00:00:00	01-12-2018 00:00:00	184	Offline	60	60	42

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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						Pre-Incubation & Incubation Centre/Facilities?	
CRYOGENIC ENGINEERING CENTRE	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	2019	Cryogenic Engineering Centre, IIT Kharagpur, West Bengal-721302	Facility Incharge Name Facility Incharge Name Facility Incharge Email Facility Incharge Email Facility Incharge Phone Prof. Tapas Kumar Nandi tkn@cryo itkgp.ac.i n 032222283 598	552 Sq. Ft.	Yes Annual Capital Expenditure (In Rupees) Annual Operational Expenditure (In Rupees)	No
Science and Technology Entrepreneurs' Park	Incubation Unit	1986	IIT Campus, Kharagpur	Facility Incharge Name Facility Incharge Email Facility Incharge Email Facility Incharge Phone Prof. Satyahari Dey Satyahari 01@yaho o.com 94340187 91	20000 Sq. Ft.	No	No
G.S Sanyal School of Telecommunication	Centre of Excellence with Advance Tools & Equipment	1996	IIT Campus, Kharagpur	Facility Incharge Name Facility Incharge Email Facility Incharge Email Facility Incharge Phone Prof. Raja Datta rajadatta @ece.iitk gp.ac.in 03222282 265	10000 Sq. Ft.	No	No
M N Faruqui innovation centre	Incubation Unit	2015	IIT Campus, Kharagpur	Facility Incharge Name Facility Incharge Email Facility Incharge Email Facility Incharge Enail Facility Incharge Phone Prof. Cheruvu Siva Wumar kumar@ mech.iitk gp.ac.in 03222281 560	2000 Sq. Ft.	No	No

Signal and Image Processing Lab	Pre-Incubation Centre	2015	IIT Campus, Kharagpur	Facility Incharge Name Facility Incharge Email Facility Incharge Email Facility Incharge Phone Pacility Incharge Phone Dr. Debdoot Weebdoot Weee.iitkg Pac.in 03222281 524	500 Sq. Ft.	No	No
Embedded electronics design	Pre–Incubation Centre	2015	IIT Campus, Kharagpur	Facility Incharge Name Facility Incharge Email Facility Qee.iitkg p.ac.in Facility Incharge Phone Pacility S222281 Dr. Debdoot Qee.iitkg Qee.iitkg p.ac.in	500 Sq. Ft.	No	No
DHI Centre of Excellence on Advanced Manufacturing	Centre of Excellence with Advance Tools & Equipment	2014	IIT Campus, Kharagpur	Facility Incharge Name Racility Incharge Email Skpal@m ech.iitkgp.ac.in Facility Incharge Phone Prof. Surjya Kanta Pal Skpal@m ech.iitkgp.ac.in 032222281 984	5000 Sq. Ft.	No	No
Centre for Artificial Intelligence	Centre of Excellence with Advance Tools & Equipment	2015	IIT Campus, Kharagpur	Facility Incharge Name Sudeshn a Sarkar Facility Incharge Email Pacility Incharge Phone Facility Incharge Phone Prof. Sudeshn a Sudeshna @cse.iitk gp.ac.in 03222282 256	5000 Sq. Ft.	No	No
PAM lab	Centre of Excellence with Advance Tools & Equipment	2016	IIT Campus, Kharagpur	Facility Incharge Name Facility Incharge Email Facility Incharge Email Facility Incharge Phone Prof. P.K. Dan Pkdan@s ee.iitkgp. ernet.in 03222282 428	2000 Sq. Ft.	No	No

Innovation Lab	Pre-Incubation Centre	2014	IIT Campus, Kharagpur	Facility Incharge Name Facility Incharge Incharge Email Facility Incharge Phone Prof. P P Das Prof. P P Das	5000 Sq. Ft.	No	No
E-Cell	Pre–Incubation Centre	2012	IIT Campus, Kharagpur	Facility Incharge Name Facility Incharge Email Facility Incharge Email Facility Incharge Phone Prof. P.K. Dan Pkdan @s ee.iitkgp. ernet.in 03222282 428	500 Sq. Ft.	No	No
Kolkata Extension Center	Pre-Incubation Centre	2012	kolkata	Facility Incharge Name Facility Incharge Email Facility Incharge Email Facility Incharge Phone Prof. P P Das Ppd@see .iitkgp.ern et.in 03222281 093	2000 Sq. Ft.	No	No
Gopali Campus	Incubation Unit	2010	Kharagpur	Facility Incharge Name Prof. Satyahari Dey Satyahari Dey Satyahari O1@yaho o.com Facility Incharge Phone Prof. Satyahari O1@yaho o.com	4356000 Sq. Ft.	No	No
SRIC	IPR Cell / Patent Facilitation Unit / Technology Transfer Centre	2000	IIT Campus, Kharagpur	Facility Incharge Name SUMIT BISWAS Facility Incharge dm.iitkgp. ac.in Facility Incharge Phone SUMIT BISWAS	2000 Sq. Ft.	No	No

TECHNOLOGY BUSINESS INCUBATOR	Incubation Unit	1986	IIT Campus, Kharagpur	Facility Incharge Name Prof. Satyahari Dey Facility Incharge On Coom Facility Incharge Phone Prof. Satyahari Dey satyahari O1@yaho o.com 94340187	1000 Sq. Ft.	No	No
Centre for Intelligent Transportation	Pre-Incubation Centre	2018	IIT KHARAGPUR	Facility Incharge Name Facility Incharge Bhattach arya Facility Incharge Email Facility Incharge Phone Anandaro op Bhattach arya adeanir@ adeanir@ adm.iitkg p.ac.in	1000 Sq. Ft.	No	No

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)
CRYOGENIC ENGINEERING CENTRE	Funding Agency	Diamond Jubliee Fund	Govt. Agency (Central)	No	
SRIC	Funding Agency	DSIR	Govt. Agency (Central)	Yes	50000
SRIC	Funding Agency	DSIR	Govt. Agency (Central)	Yes	300000
SRIC	Funding Agency	DSIR	Govt. Agency (Central)	Yes	230000
SRIC	Funding Agency	HDFC	Corporate / Industry Association	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/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 preincubation/incubation support and the services offered by Preincubation/incubation or institute during the financial period 2018-19?
Design and Development of a 5m Long Single Phase HTS Cable (LPH)	CRYOGENIC ENGINEERING CENTRE	TRL 1 : Basic research. Principles postulated and observed but no	Faculty and Student	2018	Non-IP / Non- Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have	No	No	No

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	novation have i	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/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?	
		experimental proof available.					been formulated.				
	Principal Inn	Principal Innovator									
		Name		Type Gender				Email	Co	ontact	
	DR. ABHAY SINGH GOUR			Faculty	Ma	Male abhay@crya.iitkgp.ac.in			9008200553		
	Co-Innovator Co-Innovator										
		Name		Туре		Gender		Email	Co	ontact	
	Prof V Vasudeva R	ao		Faculty	Ma	ale	vvrao@cry	vo.iitkgp.ac.in	9933078577		
Design, Development and Testing of Laboratory Scale SMES	CRYOGENIC ENGINEERING CENTRE	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.	Yes Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/I nnovations Development by Centre (In Rupees) 2671000	No	No	
	Principal Inn	ovator									
	Principal Inn	ovator Name		Туре		Gender		Email	Co	ontact	

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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, Stag of TRL it has reached		Had the Idea/Prototype/Innovations 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	income/revenue from Idea/Prototype/Inno vations for the pre- incubation/incubatio
	Cryogenic level sensor based on flux expulsion of superconductors	CRYOGENIC ENGINEERING CENTRE	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	Faculty and Student	2018	IP / Patented Technology Applie d for Patent Patent 2019 3103 3103 3540 Year of Patent Applica tion	Completed but No Further Action Taken	TRL 3 : Applied research. First laboratory tests completed; proof of concept.	No	No
No		Principal Inr	ovator							
			Name		Туре	Ge	ender	Email		Contact
		Dr Venimadhav Ac	yam	Fa	culty	Male		venimadhav@cryo.iitkgp.a	ac.in 977502182	2
Co-Innovator										Design analysis and development of nozzle protection
	Name		Туре		Gender		Email	Co	ntact	system for sea
Keerthana		Stu	dent	Fema	le	keerthanaven	u@gmail.com	-		
Avinash		Stu	dent	Male		avinash031@	gmail.com	-		

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?
CRYOGENIC ENGINEERING CENTRE	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.	No	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) 0 Seedfu nd/Ang el/VC Agenc y Name Govt. Agenc y Type (Cent ral)	No	

Name	Туре	Gender	Email	Contact
Prof. T. K. Nandi	Faculty	Male	nandi_tk@rediffmail.com	03222283598

Co-Innovato	
- Go-IIIIIOvalo	

Name	Туре	Gender	Email	Contact
Prof. Arnab Roy	Faculty	Male	arnab@aero.iitkgp.ac.in	03222283020
Prof. Parthasarathi Ghosh	Faculty	Male	psghosh@cryo.iitkgp.ac.in	03222283594

Analysis of rocket propulsion test data using data fusion techniques

idea / i retetype / iiii		CCCITCA CIAIII,	rananig nomi	10 moundation,	miousamon con	ti o / i dominio				
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/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/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?
CRYOGENIC ENGINEERING CENTRE	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 2 : Technology formulation. Concept and application have been formulated.	No	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) 0 Seedfu nd/Ang el/VC Agenc y Name Govt. Agenc y Type Govt. Agenc cy (Cent ral)	No	
Principal Innovator										

Principal Innovator							
Name	Туре	Gender	Email	Contact			
Prof. T. K. Nandi	Faculty	Male	nandi_tk@rediffmail.com	03222283588			

Co-Innovator				
Name	Туре	Gender	Email	Contact
Prof. Indranil Ghosh	Faculty	Male	indranil@cryo.iitkgp.ac.in	03222283588

Thermo structural analysis of 16 inch diameter,130 m long Liquid Oxygen pipeline during chill down process

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?
ENGINEERING CENTRE	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty and Student	2018	Non-IP / Non- Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	No	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) O Seedfu nd/Ang el/VC Agenc y Name Govt. Agen cy (Cent ral)	No	

Principal Innova	ator
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Name Type		Gender	Email	Contact
Prof. Parthasarathi Ghosh	Faculty	Male	psghosh@cryo.iitkgp.ac.in	03222283594

-	Innovator
- CO-	IIIIOvator

Name	Туре	Gender	Email	Contact	
Prof. T. K. Nandi	Faculty	Male	nandi_tk@rediffmail.com	03222283598	
Prof. Indranil Ghosh	Faculty	Male	indranil@cryo.iitkgp.ac.in	03222283588	

Theoritical and experimental studies on flow charateristics during change over of flow from start up tank to run tank during liquid rocket engine testing

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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?
CRYOGENIC ENGINEERING CENTRE	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty and Student	2018	Non-IP / Non- Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	No	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) 0 Seedfu nd/Ang el/VC Agenc y Name Govt. Agen cy (Cent ral)	No	

Principal	Innovator
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Name Type		Gender	Email	Contact
Prof. Parthasarathi Ghosh	Faculty	Male	psghosh@cryo.iitkgp.ac.in	03222283594

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I	Innovator
(.n-	Innovator

Name	Туре	Gender	Email	Contact
Prof. T. K. Nandi	Faculty	Male	nandi_tk@rediffmail.com	03222283598
Prof. Indranil Ghosh	Faculty	Male	indranil@cryo.iitkgp.ac.in	03222283588

Study of establishment of collapse factor for presssurizing Cryogenic Liquid at different operable conditions for ground tests of Cryogenic Rocket engines

Faculty

Prof. Parthasarathi Ghosh

Name of Islay POC / Immovation / Prototype shootward purions of Grant Name of Centre Name of Name of Name of Centre Name of Name of Name of Name of Name of Name of Centre Name of
formulation. Concept and application have been formulated. Student Technology Patented Technology Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund/Angel Investment/VC Fund raised by Ideal Process Total Seed Fund Raise

Co-Innovator				
Name	Туре	Gender	Email	Contact
Prof. P. Sandilya	Faculty	Male	pavit@cryo.iitkgp.ac.in	03222283596

psghosh@cryo.iitkgp.ac.in

03222283594

Male

The process design of helium liquefier for 50 litre per hr heluim plant development at VECC Kolkata

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Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovat (TRL Stage)	ion Innovation Developed by	Year of Inr Project S		Type of Innovation	Incuba on	nt Status Pre- ation/Incubati Support eceived	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/incubatic n or institute during the financial period 2018-19?
CRYOGENIC ENGINEERING CENTRE	TRL 2 : Technology formulation. Concept and application have been formulated.	Faculty and Student	2016	Non-IP / No Patented Technology		Still Under Development Process	formula Concer applica		No	No	No	
Principal Innovato	or											
	Name		Туре			Gender			Email	Со	ntact	
Prof. Parthasarathi Ghosh Faculty		Male		psghosh@cryo.iitkgp.ac.in 03222283594								
Co-Innovator												ENGINEERING NANOIONICS INTERFACE FOR
Name Type				Gender			Email	Со	ntact	HIGH IONIC CONDUCTIVITY		
Prof. Kanchan Chowdhury			Faculty		Male			kanchan@cry	/o.iitkgp.ac.in	03222283582		
Dr. Sandip Pal												

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	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?
	CRYOGENIC ENGINEERING CENTRE	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2018	Non-IP / Non- Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	No	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) 0 Seedfu nd/Ang el/VC Agenc y Name Govt. Agenc y Type (Cent ral)	No	
	Principal Innovato	r									

Principal Innovator				
Name	Туре	Gender	Email	Contact
Dr Venimadhav Adyam	Faculty	Male	venimadhav@cryo.iitkgp.ac.in	9775021822

Co-Innovator				
Name	Туре	Gender	Email	Contact
Prof. Driscoll. J	Faculty	Female	jld35@cam.ac.uk	-
Dr. Daton	Faculty	Female	sd33@cam.ac.in	-

Development of CMOS Compatible Resistive Switching Layer and Highly Non-linear Selector for 3D-Stackable 1S1R Crossbar Array-structured Memory Cell

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?
CRYOGENIC ENGINEERING CENTRE	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2018	Non-IP / Non- Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	No	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) 0 Seedfu nd/Ang el/VC Agenc y Name Govt. Agenc y Type (Cent ral)	No	

Principal	Innovator
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Name	Туре	Gender	Email	Contact
Dr. Ayan Roy Chaudhuri	Faculty	Male	ayan@matsc.iitkgp.ac.in	03222283594

Co-Innovator

Name	Name Type		Email	Contact
Dr Venimadhav Adyam	Faculty	Male	venimadhav@cryo.iitkgp.ac.in	9775021822
DR. Dirk Wouters	Faculty	Male	-	-
DR. Vikas Rana	Faculty	Male	-	-

Solar Persistent Autonomous Vessel

idea / i Tototype / iii	novation nave i	received Grant /	Turiumg irom i	Te-incubation /	incubation cen	tie / i aciiities				
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/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?
CRYOGENIC ENGINEERING CENTRE	TRL 0 : Idea. Unproven concept, no testing has been performed.	Student	2017	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	No	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) 0 Pava n Kond uri, Prabh at Vyas, Biddu Bhus han Singh Name Nikhill Anga d d Baks hi Angel Invest or/Ve nture Capit alist/ High Net worth Indivi dual (HNIs)	No	

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)		Year of Inn Project S	ovation /	Type of Innovation	Current Stat Incubation/li on Supp Receive	itus Pre- Incubati port	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?
Principal Innovator												
	Name		Туре			Gender			Email	Co	ntact	
Maitrai Maka (M) Student		tudent	Male		maka	makamaitrai@gmail.com		9564437761				

Start-ups have rec	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/Incuba tion 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 preincubation/incuba tion support at your Preincubation/incuba tion or institute during the financial period 2018-19?	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?

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

Zelence Industries Pvt. Ltd.	SRIC	2018-19	Private Limited	U74999WB2017P TC220707	Faculty and Student	IP / Patented Technology Applie d for Paten t Paten t Applic ation No Year of Paten t Applic ation displayed a to the paten t Applic ation the patents are patents at the patents are patents at the patents are patents at the patents are patents at the patents at t	Receiving Incubation Support from Incubation Unit	No	Total Seed Grant/Fund Amount Disbursed to Start-up by Institute/Centr e (In Rupees) 2500000	Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype /Innovations during the period of pre- incubation/inc ubation support at your Pre- incubation/inc ubation or institute financial period 2018- 19 (in Rupees) 2500000 Seedf und/A ngel/V C C Agenc y Name Govt Agenc y Type (Cen tral)	Total Income received from Start-up for pre- incubation/inc ubation support and the services offered by Pre- incubation/inc ubation or institute during the financial period 2018- 19 (in Rupees)
	Founder										

1 Guildoi					
Name	DIN Number	Туре	Gender	Email	Contact
Dr. Bidus Kanti Das	000000	Alumni Entrepreneur	Male	zelenceindustries@gmail.com	7001564058

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	HDFC Bank	Seed fund	5	22-07-2018	
Incubation Services/Support Extended to Other Institute	TU Munich	Pre-incubation	42	19-06-2018	
Incubation Services/Support Received from Other Institute/Incubator	Capillary Technologies	Seed fund	6	17-08-2018	

Technology Commercialization / Transfer

No Data Filed!

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 Prof. Sriman Kumar Bhattacharyya (Head of Institute) and Mr. Manoj Kumar Tiwari (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

Prof. Sriman Kumar Bhattacharyya
Head of the Institution,
Indian Institute of Technology Kharagpur,
Kharagpur, West Bengal

Nodal officer

Mr. Manoj Kumar Tiwari Nodal Officer, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal

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