



# Jyothi Engineering College

NAAC Accredited College with NBA Accredited Programmes\*

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETTIKATTIRI P.O. CHERUTHURUTHY, THRISSUR, PIN-679531 PH : +91- 4884-259000, 274423 FAX : 04884-274777



NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programme in Civil Engineering valid for the academic years 2019-2022.

## **3.1.1 Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)**

3.1.1.1: Total Grants from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

Year	2020-2021
INR Lakhs	5.05

*Sunny Joseph*

**Dr. SUNNY JOSEPH KALAYATHANKAL**  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Ph.D (Computer Science), Ph.D (Maths)  
PRINCIPAL  
Jyothi Engineering College  
Cheruthuruthy P.O.- 679 531



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## INDEX

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/C o-investigator	Department of PI	Year	Name of the Funding Agency	Type	Page No.
One District One Idea (ODOI) Cluster Innovation Program	Dr. Biju C. V	Mechanical Engineering	2021	K-DISC	Government	3
Municipal Mapping at Shornur Municipality as part of Mapathon Keralam	Mr. Parthiban P	Civil Engineering	2021	Kerala State Information Technology Mission	Government	29

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*amulya*

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**Dr. P.V. UNNIKRISHNAN**  
MEMBER SECRETARY, KDISC &  
EX OFFICIO SECRETARY TO GOVERNMENT  
Planning and Economic Affairs  
(Innovation and Development) Dept.



366/2021/KDISC/1

16<sup>th</sup> November 2021

Sub: Selection as K-DISC's partner institution under One District One Idea - MSME innovation clusters programme

Dear Sir,

**Greetings from Kerala Development and Innovation Strategic Council!**

We are delighted to inform you that your institution has been selected as one of K-DISC's partners for developing innovation action plans of cluster development under One District One Idea - MSME innovation clusters programme against the Expression of Interest (Eoi) submitted.

Further to this development, K-DISC will issue proceedings on the programme and a meeting of the heads of institutions shall be organised in the last week of November 2021 for further discussions, and clarifications, if required.

The detailed steps to be followed by the institutions are provided below.

1. Signing the MoU within 10 days after issuing the order.
2. Entrusting principal coordinator/ faculty member for the training program.
3. Presentation before the District Innovation Council for allocation of cluster.
4. Taking up the activities and undertaking the clusters.
5. Submission of report.

We hope that this will bring clarity on next steps further to your selection as a partner institution.

Yours sincerely

True Copy Attested

*Unnikrishnan*

Dr. P. V. Unnikrishnan

Dr Sunny Joseph Kalayathankal  
Jyothi Engineering College, Vettikkattiri PO,  
Cheruthuruthy, Thrissur-679531

*Sunny*

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Planning and Economic Affairs  
(Innovation and Development) Dept.



 **K-DISC**  
Kerala Development and Innovation  
Strategic Council  
**KERALA DEVELOPMENT AND  
INNOVATION STRATEGIC COUNCIL**

388/2021/KDISC (3)

24 Feb 2022

Dear Madam / Sir,

Sub: Invoice from Mentor institutions (MI) - ODOI Innovation Cluster program -reg

Ref: 1) EOI to undertake preparation of innovation action plan for MSME cluster development - ODOI program dated 15-01-2021  
2) Proceedings (15/2021/KDISC dated 22/11/2021) para 7  
3) MOU with MI and KDISC dated 08 Dec 2021

As per EOI and MOU submitted by the Institution, KDISC is pleased to award the work on Action plan preparation on the identified MSME clusters.

In continuation with mentor development programs and review on potential clusters identified for detailed study and diagnostic report preparation by your institution, it is here by requested to submit an invoice towards the expenses.

The first instalment is 20% of the total sanctioned amount (Rs 91400) will be released on receiving the invoice from the Mentor institutions.

The details of potential clusters requiring Innovation intervention identified and reviewed by the institution for completing the study are provided below.

Name of Institution	Name of cluster	Total Amount Sanctioned (Rs)
Jyothi Engineering College	Kuthampalli Cluster	457000

The institution(s) should complete the stipulated work adhering to the estimates provided. No further payments shall be made for the work/time spent beyond the estimated amount of days/work. Institution(s) are directed to furnish a statement audited by a chartered accountant after completion of the project.

Looking forward to your continued support towards the ODOI program.


Yours Sincerely,



Dr. P. V. Unnikrishnan

**Biju CV**  
Professor  
Jyothi Engineering College  
Thrissur

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## Invoice for ODOI Cluster Innovation Programme

Date : 2<sup>nd</sup> March, 2022

From

Jyothi Engineering College  
Mentor Institution for Kuthampalli Cluster  
Cheruthuruthy, Thrissur

To

ODOI programme, KDISC  
P.O. Thycaud  
Thiruvananthapuram-14

The expenses incurred for the project (Phase-1) of ODOI allotted to the Jyothi Engineering College, mentor institution is given below.

Sl No.	Description	Rate	Quantity	Total
01	Faculty visit (4 faculty, 5 visit)			
1.1	# Travel (6 km @ 20 Rs)	1460	20	29,200
1.2	# faculty allowance	100	20	2,000
2	Expert Visit			
2.1	# Expert allowance	5000	4	20,000
2.2	# Expert travel	1500	4	6,000
3	Student Visit			
3.1	# Student travel	300	32	9,600
3.2	# Student stipend	800	32	25,600
4	Report preparation (stationery)			900
	(Total)			93,300
	(Ninety-three thousand and three hundred only)			

*[Signature]*  
Name and Signature of  
Head of the Institution

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*[Signature]*  
Name and Signature of  
Principal Investigator

Dr. Biju. C. V.  
Prof. M.E Dept  
Jyothi Engg. Collge.



*[Signature]*  
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**PROCEEDINGS OF THE MEMBER SECRETARY  
KERALA-DEVELOPMENT AND INNOVATION STRATEGIC COUNCIL**

**(Present : Dr. P.V. Unnikrishnan)**

Sub:- Selection of Academic Institutions to Support the ODOI Programme - Sanction  
Accorded - Orders Issued

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**KERALA-DEVELOPMENT AND INNOVATION STRATEGIC COUNCIL**

No : 15/2021/KDISC

Thiruvananthapuram, Dated: 11.11.2021

- Read:-
1. GO (MS) No. 01/2020/PLG & EA (Innovation) dated 27/02/2020
  2. GO (MS) No. 02/2020/PLG & EA (Innovation) dated 30/06/2020
  3. GO (MS) No. 03/2020/PLG & EA (Innovation) dated 05/10/2020
  4. GO (MS) No. 04/2020/PLG & EA (Innovation) dated 04/11/2020
  5. GO (Rt) No: 5/2021/PLG & EA (Innovation) dated 16.09.2021

**ORDER**

Submission Government of Kerala have formed the Kerala Development and Strategic Council (K-DISC) to give a thrust to innovation in the State. The mandate of K-DISC is to identify and nurture a critical mass of innovations in the State and provide appropriate institutional linkages to the selected innovations. K-DISC aims at bringing out path-breaking strategic plans that reflect new directions in technology, product and process innovations, social shaping of technology and creating a healthy and conducive ecosystem for fostering innovations in the State.

As per the Government Orders read as 1 to 3 above, K-DISC constituted its district arms, the District Innovation Councils (DInCs) with District Panchayat Presidents as Chairpersons and District Collectors as Conveners and reconstituted them with a view to enable implementation of district level activities. As per the Government Order read as 4 above, sanction was accorded for the One District One Idea (ODOI) – MSME Innovation Clusters' programme of K-DISC. The guiding principle towards the innovation cluster approach is that Micro, Small and Medium Scale Enterprises (MSME) can play a key role in local economic growth and equitable development. A detailed description of the ODOI programme and the role of District Innovation Councils is appended as Annexure 1.

The ODOI programme will make use of the Triple Helix Model, aiming to strengthen the Academic-Industry-Government interface for implementation. This will be constituted with identified institutions and business schools, clusters finalised by the DInCs, and KDISC/Digital University (DU). A note on the proposed model is provided as Annexure 2.

The initial step of the ODOI- MSME Innovation cluster's programme is to shortlist the clusters in each district. One hundred and fifteen (115) innovation clusters have been identified so far comprising of MSME clusters, Handicraft clusters, Handloom/ Power-loom clusters, Craft clusters

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be projected as the identity of the district, and companies that use modern technology. The list of clusters identified district-wise is furnished as Annexure 3.

As part of mobilising the academic partners, K-DISC had invited EOIs from leading academic institutions for their association with the ODOI program. A total of one hundred and one EOIs were received. An expert committee was constituted for overseeing the process. Based on the evaluation of the criteria published in EOI, sixty-three (63) institutions were shortlisted out of the one hundred one (101) EOIs received. After careful examination of the EOI submissions, institutions were indexed based on the criteria as per EOI. Among the selected institutions, 11 belong to the Class A within the district category and 10, outside district. Similarly, 52 belong to class B within district category. The list of selected institutions is given as Annexure 4.

The expert committee had scrutinised the applications and recommended rates of contracts and reimbursements after considering the scope of work and deliverables for the said work. Students, faculty, and external experts shall be engaged to carry out the necessary work. The scope of work and deliverables have been attached as Annexure 5.

The maximum rates admissible for students' stipend and TA, and expenses for faculty and experts have been decided as follows.

Sl. No.	Head	For work within districts (in Rupees)	For work outside districts (in Rupees)
1	Students Stipend and TA	285000.00	330000.00
2	Faculty expenses	57000.00	87000.00
3	Expenses for External Experts	115000.00	130000.00
<b>Total</b>		<b>457000.00</b>	<b>547000.00</b>

The estimated duration of work and the breakup of the expenses allotted have been provided as Annexure 6.

The payment terms for the institutions shall be as follows.

1. 20% release on completion of training and allocation of clusters by DInC.
2. 50% release on submission of the draft report.
3. 30% release on submission of final report and audited statement.

The institutions should complete the stipulated work adhering to the estimates provided. No further payments shall be made for the work/ time spent beyond the estimated amount of days/ work. Institutions are directed to furnish a statement audited by a chartered accountant after completion of the project.

The shortlisted institutions, in agreement with the terms of engagement and deliverables, are directed to sign the MoU (as given in the EOI) with K-DISC in 10 days after issuing the order. Subsequently, cluster allocation by DInCs will be based on evaluation of baseline data, value addition proposition, capability assessment, and presentation by the probable local clusters. It is mandatory for the selected institutions to attend the training provided by K-DISC/ DU for qualifying for cluster allotment. To- and-fro TA eligible for Class 1 officers shall be reimbursed for attending the training.

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Dr. SHIRURU S. P. KALAYATHANKAL  
M.Tech, MCA, M.Sc, M.Phil, B.Ed  
Principal, K.D. J. College of Engineering, K.D. J. Group of Institutions, K.D. J. Nagar, K.D. J. Taluk, K.D. J. District, Karnataka

As per the Government Order read as 5 above, K-DISC has obtained sanction for its activities for the current year. Accordingly, the sanctioned outlay of the ODOI programme is Rs. 3.97 Cr. The expenditure for the ODOI programme will be met from this amount under the Head of Account 3451-00-092-92-34-03 Other Items (P).

The detailed steps to be followed by the institutions are provided below.

1. Signing the MoU within 10 days after issuing the order.
2. Entrusting principal coordinator/ faculty member for the training program.
3. Presentation before the District Innovation Council for allocation of cluster.
4. Undertaking the cluster study as per the guidelines
5. Submission of study report, submission of challenge applications etc
6. Undertaking further follow up as required.

Member Secretary

Copy to:

The Executive Vice Chairperson, K-DISC  
The Member Secretary, K-DISC  
The Executive Director (MS), K-DISC  
Heads of the selected Institutions  
Persons concerned  
SF/OC

Forwarded By Order

Section Officer

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### One District One Idea (ODOI) Program

MSMEs represent substantive contributions to employment generation, poverty reduction and wider distribution of wealth in most developing economies. However, the potential role of MSMEs is often not realised because of problems related to their size. Individual MSMEs experience difficulties in achieving economy of scale in the purchase of inputs and small size is also a constraint on internalisation of functions. They are unable to introduce innovative improvements to products and processes to preserve their narrow profit margins. This is also due to the result of MSME isolation rather than size. Therefore, closer co-operation among MSMEs and the collaboration with academic institutions, industries promotion organisations and start-ups in their immediate environment holds the key to overcoming them. Evidence also shows that co-operative relations and joint action are more likely when enterprises operate in proximity and share business interests such as markets for products, infrastructure needs or challenging external competition. Within such groups or clusters, enterprises joint initiatives are stronger because of the critical mass of interested parties, more cost effective due to shared fixed costs and easier to co-ordinate with proximity fostering mutual knowledge and trust.

ODOI is an innovation challenge programme for manufacturing clusters, medium and micro-enterprise clusters. Innovation and technology have been identified as the primary differentiator that can take the enterprises as well as the clusters to non-linear non-incremental growth.

The ODOI programme aims at

- Organisation and development of clusters.
- Development of networks of MSMEs
- Development of strategic linkages between MSMEs and academic institutions interested in working with MSMEs on cluster development, promoting innovation and strategy
- Coming up with out of the box approaches to enhance production, productivity, reduce cost of production or achieve business expansion through proactive consultations with suppliers, competitors, employees, customers, research and training institutions etc
- The steps involved would be building trust, constructive dialogue among cluster actors exchange of information, identification of common and strategic objectives, agreement on a joint development strategy and systematic and coherent implementation

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The programme aligns with the philosophy of digital transformation and promotes the Strengthening of Academic-Industry-Government Interface to develop problem statements and implement solutions. It is an innovation challenge for manufacturing clusters and micro-enterprise clusters. As a part of the programme, it is envisaged that K-DISC will be providing seed money for the innovation component and technology support for fostering innovation. Since the innovation framework cannot be isolated functionally from the overall programme of MSME development, K-DISC will facilitate synergies with the existing Government of Kerala and Government of India and support schemes of banks and other financial institutions. The innovation cluster development is totally demand driven programme and would not be limited by caps as applicable in conventional government schemes. It would indeed seek to mobilise resources based on bold need based disruptive plan.

The ODOI Challenge will be open to zero down on the clusters to be assisted in each district. Clusters comprising MSME clusters, Handicraft Clusters, Handloom/ Powerloom Clusters, other Traditional Industries and Service Clusters which are aggregations of household enterprises, Farmer Producers Organisations (FPOs) in the district, clusters that can be projected as the identity of the district, and companies that use modern technology, etc. will be identified by the District Core Group of ODOI to take part in the challenge. Promising clusters in each Legislative Assembly Constituency (LAC) will be asked to participate in the challenge if an academic /research centre/business school of excellence and MSME cluster /SPV show interest and aptitude and propose an action plan for an innovative programme to be undertaken within 2 years

The next phase is to help promising clusters develop innovation action plans. The transformational challenges such as resources, risk, and readiness need to be understood for creating the innovation plan. The Business Model Canvas helps identify areas for innovation in the current situation. The overall process is captured in the 3 steps:

- a. Identification of Cluster for Innovation (by Core Group)
- b. Formulating the Innovation Plan (by Core Group + Academic Institutions)
- c. Implementing the Innovation Plan (by Core Group + Academic Institutions + Clusters)

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### **Role of District Innovation Council (DInC) in ODOI**

The challenge is new and requires a co-ordinated effort at the district level prior to the challenge submission. The effort will be initiated by the District Innovation Council, under the leadership of the President of the District Panchayat and the District Collector.

A core group under DInC has been specifically constituted to consider the expert matters of ODOI. The Core group will undertake the following consultations and activities prior to the challenge submissions.

- I. Cluster mapping and Rapid Appraisal of field Situation.
- II. District Level Consultations involving Direct target group, Agencies possibly involved in Cluster Development Programmes in the District for Synergy, Agencies involved in Research and Academic Support and Linkage Groups

The outcome of the above consultations will be consolidated by the core committee. Based on the cluster mapping and stakeholder consultations undertaken by the core group, DInC will recommend the MSME industry groups which will be included in the various categories based on the perceived overall impact of the clusters and relevance for integrated development of the district as indicated in the impact matrix.

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### Triple Helix Model in ODOI


The programme aligns with the philosophy of digital transformation and promotes the Strengthening of Academic-Industry-Government Interface to develop problem statements and implement solutions. The model plans to link the academic institutions with clusters and come up with mechanisms for scaling, new market outreach, diversification and technology, product development etc. The program will establish linkages with international bodies and national institutions like IIT-Delhi, IIT-Madras for accelerating the MSME problem solving in innovation clusters.

The programme is an innovation challenge for manufacturing clusters and micro-enterprise clusters, and as a part of the programme, it is envisaged that K-DISC will be providing seed money for the innovation component and technology support for fostering innovation. Since the innovation framework cannot be isolated functionally from the overall programme of MSME development, K-DISC will facilitate synergies with the existing Government of Kerala and Government of India and support schemes of banks and other financial institutions. The innovation cluster development is totally demand driven programme and would not be limited by caps as applicable in conventional government schemes. It would indeed seek to mobilise resources based on bold need based disruptive plan.

Digital University of Kerala will be the institutional hub to guide functioning of the Community of Practices Framework for each cluster. The Digital University has extended guidance for the initial activities of cluster identification to the District Core Groups. They are also providing inputs for training of the district level functionaries and training of the academic institutions for cluster development. The process of knowledge co-creation would be driven by a model of digital innovation promotion and is centred around the innovation cycle. The community of practices approach developed to drive the innovation cycle is around the principle of academia - industry interaction. The innovation life cycle covers four areas, in loop, and are the centre of innovation, centre of competence, centre of problem solving and the centre of de-risking and scaling. Capacity building thus forms the corner stone of the knowledge society.

The Innovation Plan will be guided by the Blue Ocean Strategy of tapping into unexplored markets and customers. Activities aim at creating new value propositions and not merely incremental improvements. It will create uncontested market space, create, and capture new demand, and align the whole system of a firm's activities in

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pursuit of differentiation. Such a process will raise value for the cluster and reduce costs. Through ODOI, K-DISC will put in mechanisms to share the risks involved in implementing the Innovation Plan. The challenge response submission and follow up activities are sought to be implemented through a centralised ICT platform to be built by K-DISC.

The program will also have a road show where the institutions and experts will present their solutions to the MSME and partner institutions. Feasibility of solutions and actions required to solve the problems will be carefully studied, and then the selected institutions and experts will work with the MSMEs towards implementing the solution.

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## Annexure 3

## List of Innovation Clusters

SI No	District	Manufacturing	Handicraft	Handloom	Others	FPO	Total
1	Alappuzha	2	....	....	2	1	5
2	Idukki	5	....	....	....	3	8
3	Kollam	....	1	1	2	2	6
4	Pathanamthitta	3	1	....	2	1	7
5	Thiruvananthapuram	2	4	5	....	2	13
6	Palakkad	....	4	1	2	2	9
7	Thrissur	....	4	1	2	1	8
8	Ernakulam	3	2	1	1	1	8
9	Kottayam	6	1	....	2	2	11
10	Kozhikode	4	1	....	1	3	9
11	Malappuram	4	....	....	1	2	7
12	Kannur	2	1	1	....	2	6
13	Kasaragod	....	....	....	2	2	4
14	Wayanad	....	2	....	1	11	14
	TOTAL	31	21	10	18	35	115

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## Annexure 4

## List of Institutions Shortlisted

Sl. No.	Unique ID	Institution	District	Highest degree	Type of Institution
1	1	Asian School of Business	Trivandrum	PG	Business Studies
2	2	Rajadhani Institute of Engineering and Technology	Trivandrum	PG	Engineering College
3	4	Kumbalath Sankupillai Memorial Dewasom Board College, Shasthamcotta	Kollam	PG	Arts and science
4	5	Sree Narayana Polytechnic College, Kottiyam	Kollam	Diploma	Diploma
5	6	College of Engineering, Perumon	Kollam	PG	Engineering College
6	7	College of Engineering, Pathanapuram	Kollam	Degree	Engineering College
7	8	Govt Polytechnic College Punalur	Kollam	Diploma	Diploma
8	9	Sree Narayana College Kollam Commerce	Kollam	PG	Arts and science
9	10	Sree Narayana College Kollam Economics	Kollam	PG	Arts and science
10	11	TKM College of Engineering	Kollam	PG	Engineering College
11	14	Carmel College of Engineering and Technology	Alappuzha	Degree	Engineering College
12	17	MACFAST Tiruvalla	Pathanamthitta	PG	Business Studies
13	18	Amal Jyothi Engineering College	Kottayam	PG	Engineering College
14	20	Berchmans Institute of Management Studies	Kottayam	PG	Business Studies
15	21	School of Management and Business Studies	Kottayam	PG	Business Studies
16	23	Kuriakose Elias College Mannanam	Kottayam	PG	Engineering College
17	27	DC School of Management & Technology, Pullikkanam	Idukki	PG	Business Studies
18	30	Marian College Kuttikkanam	Idukki	PG	Business Studies

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Sl. No.	Unique ID	Institution	District	Highest degree	Type of Institution
19	31	SCMS College of Polytechnic	Ernakulam	Diploma	Diploma
20	32	Morning Star Home Science College, Angamaly	Ernakulam	PG	Arts and science
21	34	Government Engineering College Thrissur	Thrissur	PG	Engineering College
22	37	Ahalia School of Engineering and Technology, Palakkad	Palakkad	Degree	Engineering College
23	39	Government College Chittur, Palakkad	Palakkad	PG	Arts and science
24	40	Government Engineering College, Sreekrishnapuram	Palakkad	PG	Engineering College
25	41	Government Polytechnic College Palakkad	Palakkad	Diploma	Diploma
26	42	Govt Victoria College Palakkad	Palakkad	PG	Arts and science
27	43	Jawahar College of Engineering and Technology	Palakkad	PG	Engineering College
28	44	LEAD College of Management	Palakkad	PG	Business Studies
29	45	Mercy College Palakkad	Palakkad	PG	Arts and science
30	49	Malabar Polytechnic College Kottakkal	Malappuram	Diploma	Diploma
31	50	Seethi Sahib Memmorial Polytechnic College	Malappuram	PG	Diploma
32	51	Farook College Kozhikode	Kozhikode	PG	Arts and science
33	59	National Institute of Technology	Kozhikode	PG	Engineering College
34	62	Govt Polytechnic College Meppadi	Wayanad	Diploma	Diploma
35	63	Govt Polytechnic College Meenangadi	Wayanad	Diploma	Diploma
36	64	College of Engineering Thalassery	Kannur	PG	Engineering College
37	65	Vimal Jyothi Institute of Management and Research	Kannur	PG	Business Studies
38	69	Lal Bahadur Shastri College of Engineering	Kasargod	PG	Engineering College

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*amr*  
 Dr. SUNNY JOSEPH KALAYATHANKAL  
 M.Tech, MCA, M.Sc, M.Phil, B.Ed



Sl. No.	Unique ID	Institution	District	Highest degree	Type of Institution
39	70	Adi Shankara Institute of Engineering & Technology	Ernakulam	PG	Engineering College
40	71	KMEA Engineering College	Ernakulam	Degree	Engineering College
41	72	Muthoot Institute of Technology & Science	Ernakulam	PG	Engineering College
42	73	Toc H Institute of Science and Technology	Ernakulam	PG	Engineering College
43	74	UKF College of Engineering and Technology	Kollam	PG	Engineering College
44	76	Rajiv Gandhi Institute of Technology Kottayam	Kottayam	PG	Engineering College
45	77	SNIT Adoor	Pathanamthitta	Degree	Engineering College
46	78	St Thomas College Ranni	Pathanamthitta	PG	Arts and science
47	79	Saintgits College of Engineering	Kottayam	PG	Engineering College
48	80	College of Engineering Kidangoor	Kottayam	Degree	Engineering College
49	82	Vidya Academy of Science & Technology	Thrissur	PG	Engineering College
50	83	Sahrdaya College of Engineering & Technology	Thrissur	PG	Engineering College
51	86	Mahaguru Institute of Technology	Alappuzha	PG	Engineering College
52	87	LBS Institute of Technology for Women	Trivandrum	PG	Engineering College
53	88	Institute of Management in Kerala	Trivandrum	PG	Business Studies
54	89	College of Engineering Trivandrum	Trivandrum	PG	Engineering College
55	90	Government Engineering College Barton Hill	Trivandrum	PG	Engineering College
56	91	Marian Engineering College	Trivandrum	PG	Engineering College
57	93	St Thomas College Palai	Kottayam	PG	Arts and science
58	95	Government Polytechnic College	Thrissur	PG	Diploma
59	97	M Dasan Institute of	Kozhikode	PG	Engineering College

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 PRINCIPAL

Sl. No.	Unique ID	Institution Technology	District	Highest degree	Type of Institution
60	98	Ernad Knowledge City	Malappuram	Degree	Engineering College
61	99	Jyothi Engineering College	Thrissur	PG	Engineering College
62	100	Rajagiri College of Social Sciences	Thrissur	PG	Arts and science
63	101	Sreepathy Institute of Management and Technology	Palakkad	Degree	Business Studies

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Cheruthuruthy P.O.- 679 531

**Class A Institutions - Within their District**

S I. No.	Unique ID	Institution	District
1	6	College of Engineering, Perumon	Kollam
2	11	TKM College of Engineering	Kollam
3	23	Kuriakose Elias College Mannanam	Kottayam
4	40	Government Engineering College, Sreekrishnapuram	Palakkad
5	43	Jawahar College of Engineering and Technology	Palakkad
6	69	Lal Bahadur Shastri College of Engineering	Kasargod
7	78	St Thomas College Ranni	Pathanamthitta
8	79	Saintgits College of Engineering	Kottayam
9	87	LBS Institute of Technology for Women	Trivandrum
10	89	College of Engineering Trivandrum	Trivandrum
11	95	Government Polytechnic College	Thrissur

**Class A Institutions - Inter District**

Sl. No.	Unique ID	Institution	District
1	6	College of Engineering, Perumon	Kollam
2	11	TKM College of Engineering	Kollam
3	23	Kuriakose Elias College Mannanam	Kottayam
4	40	Government Engineering College, Sreekrishnapuram	Palakkad
5	69	Lal Bahadur Shastri College of Engineering	Kasargod
6	78	St Thomas College Ranni	Pathanamthitta
7	79	Saintgits College of Engineering	Kottayam
8	87	LBS Institute of Technology for Women	Trivandrum
9	89	College of Engineering Trivandrum	Trivandrum

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Institution

10	95	Government Polytechnic College	Thrissur
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**Class B Institutions - Within their District**

Sl. No.	Unique ID	Institution	District	Type of institution
1	1	Sahrdaya College of Engineering & Technology	Thrissur	Engineering College
2	4	KMEA Engineering College	Ernakulam	Engineering College
3	6	Sree Narayana College Kollam Economics	Kollam	Arts and science
4	7	Muthoot Institute of Technology & Science	Ernakulam	Engineering College
5	8	SCMS College of Polytechnic	Ernakulam	Diploma
6	9	Mahaguru Institute of Technology	Alappuzha	Engineering College
7	10	Adi Shankara Institute of Engineering & Technology	Ernakulam	Engineering College
8	11	UKF College of Engineering and Technology	Kollam	Engineering College
9	17	LEAD College of Management	Palakkad	Business Studies
10	18	Kumbalath Sankupillai Memorial Dewasom Board College, Shasthamcotta	Kollam	Arts and science
11	19	Marian College Kuttikkanam	Idukki	Business Studies
12	20	College of Engineering Thalassery	Kannur	Engineering College
13	21	Sree Narayana College Kollam Commerce	Kollam	Arts and science
14	23	Ernad Knowledge City	Malappuram	Engineering College
15	27	Government College Chittur, Palakkad	Palakkad	Arts and science
16	30	Govt Victoria College Palakkad	Palakkad	Arts and science
17	32	Sree Narayana Polytechnic College, Kottiyam	Kollam	Diploma
18	34	SNIT Adoor	Pathanamthitta	Engineering College
19	37	Seethi Sahib Memmorial Polytechnic College	Malappuram	Diploma

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Jyothi Engineering College

Sl. No.	Unique ID	Institution	District	Type of institution
20	40	Sreepathy Institute of Management and Technology	Palakkad	Business Studies
21	41	Malabar Polytechnic College Kottakkal	Malappuram	Diploma
22	43	MACFAST Tiruvalla	Pathanamthitta	Arts and science
23	44	M Dasan Institute of Technology	Kozhikode	Engineering College
24	45	Farook College Kozhikode	Kozhikode	Arts and science
25	49	College of Engineering Kidangoor	Kottayam	Engineering College
26	50	Amal Jyothi Engineering College	Kottayam	Engineering College
27	51	St Thomas College Palai	Kottayam	Arts and science
28	59	Berchmans Institute of Management Studies	Kottayam	Business Studies
29	62	Govt Polytechnic College Meppadi	Wayanad	Diploma
30	63	Govt Polytechnic College Meenangadi	Wayanad	Diploma
31	64	Institute of Management in Kerala	Trivandrum	Business Studies
32	65	Rajadhani Institute of Engineering and Technology	Trivandrum	Engineering College
33	69	Morning Star Home Science College, Angamaly	Ernakulam	Arts and science
34	74	DC School of Management & Technology, Pullikkanam	Idukki	Business Studies
35	76	College of Engineering, Pathanapuram	Kollam	Engineering College
36	77	Government Polytechnic College Palakkad	Palakkad	Diploma
37	78	Carmel College of Engineering and Technology	Alappuzha	Engineering College
38	79	Mercy College Palakkad	Palakkad	Arts and science
39	80	Govt Polytechnic College Punalur	Kollam	Diploma
40	82	Rajagiri College of Social Sciences	Thrissur	Arts and science
41	83	Government Engineering College Thrissur	Thrissur	Engineering College
42	87	Jyothi Engineering College	Thrissur	Engineering College
43	89	Asian School of Business	Trivandrum	Business Studies

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Jyothi Engineering College

Sl. No.	Unique ID	Institution	District	Type of institution
44	90	Government Engineering College Barton Hill	Trivandrum	Engineering College
45	91	Marian Engineering College	Trivandrum	Engineering College
46	93	Vimal Jyothi Institute of Management and Research	Kannur	Business Studies
47	95	Toc H Institute of Science and Technology	Ernakulam	Engineering College
48	97	School of Management and Business Studies	Kottayam	Business Studies
49	98	Rajiv Gandhi Institute of Technology Kottayam	Kottayam	Engineering College
50	99	Vidya Academy of Science & Technology	Thrissur	Engineering College
51	100	Ahalia School of Engineering and Technology, Palakkad	Palakkad	Engineering College
52	101	National Institute of Technology	Kozhikode	Engineering College

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### Scope of work and deliverables

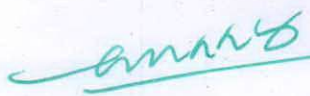
The scope of work for the services from the institutions will be as follows:

1. To continue the process of initial identification of the cluster and the initial consultations done by the core groups.
2. To re-assess the records of initial consultations done by the core groups to record the ODOI data sheet covering HR, structural and relational capital and addressing any gaps in understanding.
3. To crystallise and improve upon the consultations undertaken by the District Core Group, with the purpose of inspiring the clusters for innovation and pursuing the consultations on sustaining innovations.
4. To undertake a diagnostic study of the cluster and identify areas of innovation of the cluster based on the inputs obtained from the Digital University.
5. To identify through consultation and propose a sustainable structure for action plan implementation.
6. To develop the innovation action plan on the broad contours outlined in the ODOI concept note appropriately keeping in, mind the indicators for innovation.
7. To help the cluster team submit the necessary documentation for the innovation challenge through ICT platform being developed by ICT Academy covering the documentation indicated in 6 above along with relevant cluster particulars.
8. To help, guide and lead the cluster teams' presentations at the ODOI Innovation challenge and proactively interact with the evaluation team.
9. Prepare a costing for the institutional support necessary for executing the implementation of Innovation Action Plan and submit the same to K-DISC.
10. To proactively interact with the District Core Group and District Innovation Council and Digital University for successful completion of the action plan preparation and its timely submission.

The deliverables of the engagement are listed below.

1. Cluster diagnostic study and proposal for innovation areas of cluster.
2. Innovation action plan for cluster.
3. Submission of the action plan and other requisite information for the challenge.
4. Presentations of the action plan as a part of the challenge.
5. Costing for institutional support for executing the implementation of the innovation action plan.
6. Feedback and recommendation for improving the ODOI challenge and the process.

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**Annexure 6**

**Duration of work and breakup of expenses**

The estimated duration of work shall be as follows.

Item	Number of days	Broad applicable norms
Faculty Days	120	Two months of work covering field work supervision, supervision of desk work and finalisation of report required. Two faculty members to be allocated.
Expert Days	20	2 experts. Total days 20
Student Days	300	Two months; 5 students
Faculty Travel Days	30	Total travel days for two faculty members
Expert Travel days	10	Total travel days for experts
Student Travel Days	150	50% student time for field work

The breakup of the expenses and payment terms that shall be utilised as per the maximum admissible amount is provided below.

Item	Amount (in Rupees)	
	Within district	Outside district
Faculty Allowance Rate	100.00	100.00
Faculty Travel Rate	1500.00	3000.00
Expert allowance rate	5000.00	5000.00
Expert Travel Rate	1500.00	3000.00
Student Stipend	800.00	800.00

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Item	Amount (in Rupees)	
	Within district	Outside district
Student Travel Rate	300.00	500.00

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## Report of the visit carried out to Kuthampully Handloom Cluster

Principal Investigator of the project **Dr. Biju CV** and the Academic Director Fr. Dr. Jose Kannampuzha of Jyothi Engineering College, Cheruthuruthy, mentor institution of the Kuthampully Handloom Cluster allotted under ODOI scheme of KDISC, visited all the four registered societies on 20<sup>th</sup> Jan 2022.

All the four societies, namely

1. Kondazhy Handloom Weavers Industrial Workshop Co-Operative Society Ltd. (Estd: 1980)
2. Eravathy Handloom Weavers Co-Operative Society Ltd. (Estd: 1941)
3. Thiruvilwamala Handloom Weavers co-operative society Ltd (Estd : 1956) &
4. Kuthampully Kaithari Naithu Vyavasaya Sahakarana Sangam (Estd: 1972)

mainly produce Kerala Saree (65%), Normal Saree (15%) and Dhothi (10%). In addition to these conventional products, as per the policy of the State Government, all the units also produce school uniforms at the request of the Government Departments. Among the four societies, only the first one is registered as factory type whereas the remaining three societies are registered in the cottage category.

All the handloom units were profitable till 2010 and large number people were attracted to this industry. Later the challenges mainly from power looms adversely affected the sector. Presently average daily income of an employee in this sector is around Rs 300. Therefore only 5% of the installed capacities of the units are utilised in the cluster.

The possible areas of improvement for the rejuvenation of the handloom sector can be listed as follows

1. Presently the reach of the products are very limited. Hence online marketing strategy can be introduced.
2. The customers feel difficulty to identify handloom and powerloom products. This often limits the comparison to the price; therefore the market of handloom products is adversely affected. Hence, government can introduce standard trade mark to identify the handloom products in the market.
3. Either exclusive or in association with the apex body in the handloom sector – HanTex, official outlets for the handloom products may be started in cities. Presently, Hantex is selling the products collecting from the Handloom products from the Societies. But the societies are not getting their money immediately after the sales of the products from Hantex. This is detrimental to the cash flow and the societies are taking OD for higher interest rate for the working capital. Instead of the intermediate role of Hantex, direct marketing can be entertained to a large extent.

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4. In order to reduce the physical effort in the production of handloom products, without affecting the process and quality of the products, semi automation can be introduced.
5. The number of threads per square inch (ranges from 20-120) is the measure of thickness of the cloth. Presently the customers cannot understand such features of the product. Hence a well designed specification slip can be attached to the products.
6. Presently the purchase of the raw materials is made separately by the societies. Often this leads to higher rate and also large fluctuation of price in different assignments. In order to address this issue, a Common Facility Center (CFC) may be introduced to both raw materials and finished products.
7. As the income from the handloom sector is not attractive, educated youngsters are not interested in this domain. Hence a training centre with, computer based design, Jaquard modeling, Card punching etc. can be introduced. The application of modern technology will definitely improve the productivity and range of customized products.
8. More number of exhibitions can be planned in schools, colleges etc. This will provide better understanding of the handloom products in the public.
9. Now the government rebate is limited for the festival season sales in the exhibition centers. This can be extended to throughout the year. Action should be initiated to expedite the sanction of the rebate amount to the societies at the earliest.
10. To provide the awareness of the handloom weaving process, with the support of the mentor institution, a portable hand loom weaving unit can be developed and the process can be demonstrated in the exhibition centers.

The action plan to accomplish the above mentioned objectives shall be communicated immediately.

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**Kerala State Information Technology Mission**  
Department of Electronics & Information Technology  
Government of Kerala

ICT Campus, Vellayambalam Jn.,  
Thiruvananthapuram 695 033, Kerala, India  
Tel: +91 -471-2726881, 2314307, Telefax: +91-471-2314284  
Email: admin.ksitm@kerala.gov.in

File No: KSDI/5/2019-KSITM/ 465

Dated: 31/03/2021

To,

**Mr Arun Alex,**  
Coordinator  
Industry Attachment Cell,  
APJ Abdul Kalam Technological University,  
CET Campus, Thiruvananthapuram  
Kerala - 695016


**Subject:** Collaborating with Mapathon Keralam project of KSITM  
**Ref:** Email sent to Project Manager, KSDI on 23/03/2021

Dear Sir,


We are very happy to collaborate with Industry Attachment Cell, APJ Abdul Kalam Technological University, Thiruvananthapuram. Currently, Kerala State IT Mission planning to map some of the urban local bodies in Kerala (Municipalities and Corporations). We feel that Civil Engineering departments of various engineering colleges may take it up as an initiative. If you think you can coordinate arrange it that is highly appreciated. The institution/department may take up the challenge of mapping important public institutions, roads and ward boundary of an urban local body selected. KSITM will be provided technical support required and some financial support. With capability for the same gained, institutions can provide mapping as service to local bodies. We need to plan this in urgent basis and your speedy response is requested.

Yours Sincerely,

dyr

  
Head Technology, KSITM

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**Kerala State Information Technology Mission**  
Department of Electronics & Information Technology  
Government of Kerala  
"Saankethika", Vrindavan Gardens  
Pattom, Thiruvananthapuram - 695 004  
Tel: +91 471 2525444, 2525430  
Email: admin.ksitm@kerala.gov.in

**File No.KSDI/5/2019-KSITM**

File No: KSDI/5/2019-KSITM/930

Dated 06-10-2021

**WHOMSOEVER IT MAY CONCERN**

**Subject: Mapathon Keralam - Municipality Mapping reg:-**  
**Ref: Circular Issued by Government of Kerala regarding Mapathon Keralam (IT-B1/69/2019-ITD)**

Madam/Sir

I would like to invite your attention to the reference Circular Issued by Government of Kerala regarding Mapathon Keralam to the Kerala State IT Mission tasked with coordinating the activities related to Mapathon Keralam.

This is to inform you that the following institution has been entrusted with the task of doing Municipal Mapping at **Shornur Municipality** as part of Mapathon Keralam. It is requested that necessary steps be taken to support and expedite the activities related to Mapathon Keralam and issue a completion certificate after verifying the mapping of their local bodies in OpenStreetMap. Details of the Institution and contact person are mentioned below.

Institution Name: **Jyothi Engineering College, Thrissur**  
Contact Person: **Parthiban P (mobile: 9500205767)**

Yours Faithfully

**Director, KSITM**

**SNEHIL KUMAR SINGH IAS**  
DIRECTOR

Kerala State IT Mission

Department of Electronics & Information Technology

Annexure: Circular Issued by Government of Kerala regarding Mapathon Keralam (IT-B1/69/2019-ITD)

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## Fwd: Urban Localbody (Municipality Mapping)

1 message

**Vincy Verghese** <vincyverghese@jecc.ac.in>  
To: "Dr. Prajoon P" <prajoonp@jecc.ac.in>

Fri, Mar 25, 2022 at 10:05 AM

----- Forwarded message -----

From: **Parthiban P** <parthibanp@jecc.ac.in>  
Date: Fri, Jul 23, 2021 at 11:19 PM  
Subject: Fwd: Urban Localbody (Municipality Mapping)  
To: HOD CE <hodce@jecc.ac.in>, Vincy Verghese <vincyverghese@jecc.ac.in>

----- Forwarded message -----

From: **Coordinator Industry Attachment Cell** <iacordinator@ktu.edu.in>  
Date: Fri, Jul 23, 2021 at 2:26 PM  
Subject: Fwd: Urban Localbody (Municipality Mapping)  
To:

Dear Madam/ Sir,

This is with reference to KSITM Mapathon project, please find the remuneration for colleges listed ( as communicated by KSITM).

Please provide your approval here in <https://forms.gle/mq2sTSr7a3uoaqud6> if your college would like to proceed with the project. Please ensure this is completed max by 3pm on July 26th.

**Please note all fund disbursements are to be taken care of KSITM . Any concerns at any stage regarding fund disbursements/ tasks etc. will need to be taken up by individual colleges directly with KSITM**

We will be sharing the approvals received from colleges with KSITM so that project can be initiated.

( Details as communicated by KSITM)

Thank you

Kind Regards  
Arun Alex




Arun Alex,  
Coordinator Industry Attachment Cell,  
APJ Abdul Kalam Technological University,  
Thiruvananthapuram.  
<https://ktu.edu.in/>


Mob : + 91 9567 487981

 <http://in.linkedin.com/in/arunalex/>

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----- Forwarded message -----

From: **Anu Murali** <anumurali.ksitm@kerala.gov.in>  
Date: Mon, Jul 12, 2021 at 4:33 PM  
Subject: Urban Localbody (Municipality Mapping)  
To: iacordinator <iacordinator@ktu.edu.in>  
Cc: Arun KSDI <arun@icfoss.in>

Dear Sir,

Please find the attached file for the rate fixed each college regarding urban mapping through Mapathon Keralam. Kindly confirm the same to proceed with the agreements.

Your reply in this regard is highly anticipated.

**Anu Murali**

Spatial Data Officer  
Kerala State Spatial Data Infrastructure (KSDI)  
Kerala State IT Mission (KSITM)  
Tel: 0091 471 2332114

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*anjay*

Regards,

Parthiban P  
Assistant Professor in Civil Engineering,  
Jyothi Engineering College,  
Vettikattiri P.O., Panjal Road  
Cheruthuruthy, Thrissur 679531.  
Ph.No: +91-9500205767

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Regards,

Vincy Verghese  
Assistant Professor in Civil Engineering,  
Jyothi Engineering College,  
Vettikattiri P.O., Panjal Road  
Cheruthuruthy, Thrissur 679531.

Ph.No: 8848838718