



## **Project Proposal On**

*"ATME Advanced Technology Capacity Building Initiative"*

### **Submitted to**

**Division :**R & D Infrastructure

**Programme or Scheme :** Sophisticated Analytical and Technical Help Institutes (SATHI)

### **Submitted by**

**Project Investigator:**

Dr. A K Murthy

ATME COLLEGE OF ENGINEERING-Mysore

# Part 1 : General Information

## General Information:

**Name of the Institute/University/Organisation submitting the Project Proposal :**

ATME COLLEGE OF ENGINEERING

**State** Karnataka

**Principal Investigator Name:** Dr. A K Murthy

**Category:** General

**Type of the Institue :** Academic Institutions (Private)

**Project Title :** ATME Advanced Technology Capacity Building Initiative

**Division :** R & D Infrastructure

**Programme Or Scheme :** Sophisticated Analytical and Technical Help Institutes (SATHI)

**Academic Area :** Chemical Science, Earth and Atmospherical Science, Mathematical Science, Nano Science, Physical Science, Aerospace Engineering, Electronics, Computers and Communication Engineering, Material Science & Engineering, Mechanical Engineering,

**Application Area :** Cognitive Sciences, Digital technologies,

**Government National Initiative :** Make in India, Startup India, Digital India,

**Type of Proposal :** Proposal Against Call

**Project Duration :** 4 Years

**Proposal Submit Date :** 31/08/2023

**Project Keywords :** Satellite, Space, Antenna, Biomedical, Nano materials, Space capacity building, Workforce development, New space.

**Project Summary :**

There is a necessity to create a Centre of Excellence in the Universities and colleges in the areas of Space, Biomedical and Nanomaterials. Students need to be ahead of a learning curve as companies are not investing in re-skilling/training the workforce due to high costs, attrition and steep learning curves, which is economically unsustainable for the new space companies.

Tech advancements are rapidly evolving while university curriculum is not able updated to meet the requirements of the industry.

Skilled manpower requirements in the next 5 years would be inadequate to meet the needs of NewSpace companies.

Undergraduate students still prefer international universities to Indian universities for higher education and research, to stay ahead of the tech curve, in light of rapid changes in the tech landscape Application of existing interdisciplinary skill sets hardware software has to be improved a lot for students to contribute to the space economy. In the absence of establishing the infrastructure and governance model, it's very likely that the nanotech, biomedical and space industries will have to play the catch-up game when compared to other countries, if the current trend continues, defeating the purpose of 'Make in India'. We have to reverse this trend.

The objective SATHI Science and Technology Hub for Innovations project concept aims to establish a comprehensive platform or facility that combines numerous resources, capabilities, and infrastructure under one roof. Offering internationally recognized analytical services for space technologies, analytical studies, drug development and testing of food, nutraceuticals, medicines, biologicals, and materials. The fundamental goal is to promote collaboration, creativity, and advancement in science and technology. The project aims to create a supportive atmosphere for academics, scientists, business people, and other stakeholders by fusing numerous elements into a single centre.

The key objectives are the following a. Networking of Academic Institutes and Industries, b Workforce Development c.Capacity Building, d Incubation and Startups, e Active Collaboration with Industry, f Training and Skill Development, g Knowledge Sharing and Dissemination, h Innovation and Entrepreneurship Support

## Part 2: Particulars of Investigators

### Principal Investigator:

<b>1. Name:</b>	Dr. A K Murthy
<b>Gender:</b>	Male
<b>Date of Birth:</b>	17/07/1963
<b>Designation :</b>	Principal
<b>Department:</b>	Mechanical Engineering
<b>Institute/University:</b>	ATME COLLEGE OF ENGINEERING
<b>State:</b>	Karnataka
<b>District:</b>	Mysuru
<b>City/Place:</b>	Mysore
<b>Address:</b>	ATME College of Engineering, Bannur Road, Mysore-570028
<b>Pin:</b>	570028
<b>Communication Email:</b>	principal@atme.edu.in

**Alternate Email:** akmu55@gmail.com  
**Mobile:** 9448285641  
**Phone:** 08212954081  
**Fax:**  
**Category:** General

## **Co-Investigator:**

**1. Name:** Dr. Bhagyashree S R  
**Gender:** Female  
**Date of Birth:** 20/05/1973  
**Designation :** Profesesor  
**Department:** Electronics and Communication Engineering  
**Institute/University:** ATME COLLEGE OF ENGINEERING  
**State:** Karnataka  
**District:** Mysuru  
**City/Place:** Mysuru  
**Address:** 13th KM Stone, Mysuru-Bannur Road, Mysuru  
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**Communication Email:** dr.bhagyashreesr\_dean@atme.edu.in  
**Alternate Email:** bhagyashreeraghavan@gmail.com  
**Mobile:** 9900110944  
**Phone:** 08212954081  
**Fax:**  
**Category:** General

**2. Name:** Dr. Avinash K  
**Gender:** Male

**Date of Birth:** 20/11/1980  
**Designation :** Assisat Professor  
**Department:** Chemistry  
**Institute/University:** ATME COLLEGE OF ENGINEERING  
**State:** Karnataka  
**District:** Mysuru  
**City/Place:** Mysuru  
**Address:** 13th KM stone, Mysuru- Bannur Road, Mysuru  
**Pin:** 570028  
**Communication Email:** dr.avinashk\_ch@atme.edu.in  
**Alternate Email:** avinashkchemistry@gmail.com  
**Mobile:** 9148623123  
**Phone:** 08212954081  
**Fax:**  
**Category:** OBC

**3. Name:** Dr. Kiran Kumar P  
**Gender:** Male  
**Date of Birth:** 20/06/1985  
**Designation :** Assistant Professor  
**Department:** Chemistry  
**Institute/University:** ATME COLLEGE OF ENGINEERING  
**State:** Karnataka  
**District:** Mysuru  
**City/Place:** Mysuru  
**Address:** 13th KM stone, Mysuru-Bannur Road, Mysuru  
**Pin:** 570028

**Communication Email:** dr.kirankumarp\_ch@atme.edu.in

**Alternate Email:** kiran.pbs@gmail.com

**Mobile:** 9739460662

**Phone:** 08212954081

**Fax:**

**Category:** OBC

**4. Name:** Mr. Chetana S

**Gender:** Male

**Date of Birth:** 11/09/1987

**Designation :** Assistant Professor

**Department:** Mechanical Engineering

**Institute/University:** ATME COLLEGE OF ENGINEERING

**State:** Karnataka

**District:** Mysuru

**City/Place:** Mysuru

**Address:** 13th KM Stone, Mysuru-Bannur Road, Mysuru

**Pin:** 570028

**Communication Email:** chetana.s.mech@gmail.com

**Alternate Email:** chetanas\_mech@atme.edu.in

**Mobile:** 9844550951

**Phone:** 08212954081

**Fax:**

**Category:** OBC

**5. Name:** Dr. Mahesh Lohith K S

**Gender:** Male

**Date of Birth:** 12/06/1976

**Designation :** Associate Professor  
**Department:** Physics  
**Institute/University:** ATME COLLEGE OF ENGINEERING  
**State:** Karnataka  
**District:** Mysuru  
**City/Place:** Mysuru  
**Address:** 13th KM Stone, Mysuru-Bannur road, Mysuru  
**Pin:** 570023  
**Communication Email:** dr.maheshlohithks\_phy@atme.edu.in  
**Alternate Email:** maheshlohithks@gmail.com  
**Mobile:** 9845206504  
**Phone:** 08212954081  
**Fax:**  
**Category:** General

**6. Name:** Dr. Pavithra A C  
**Gender:** Female  
**Date of Birth:** 03/03/1983  
**Designation :** Assistant Professor  
**Department:** Electronics and Communication Engineering  
**Institute/University:** ATME COLLEGE OF ENGINEERING  
**State:** Karnataka  
**District:** Mysuru  
**City/Place:** Mysuru  
**Address:** 13th KM Stone, Mysore-Bannur Road, Mysuru  
**Pin:** 570028  
**Communication Email:** pavithraac\_ec@atme.edu.in

**Alternate Email:** pavithraac26@gmail.com

**Mobile:** 8884699040

**Phone:** 08212954081

**Fax:**

**Category:** SC

**7. Name:** Dr. Shalini Hanok

**Gender:** Female

**Date of Birth:** 10/02/1983

**Designation :** Assistant Professor

**Department:** Electronics and Communication Engineering

**Institute/University:** ATME COLLEGE OF ENGINEERING

**State:** Karnataka

**District:** Mysuru

**City/Place:** Mysuru

**Address:** 13th KM stone, Mysuru-Bannur Road, Mysuru

**Pin:** 570028

**Communication Email:** dr.shalinihanok\_ec@atme.edu.in

**Alternate Email:** shalini.prabhakar@gmail.com

**Mobile:** 8095078557

**Phone:** 08212954081

**Fax:**

**Category:** OBC

**8. Name:** Dr. Swarna S

**Gender:** Female

**Date of Birth:** 04/01/1983

**Designation :** Assistant Professor



**Department:** Chemistry  
**Institute/University:** K S SCHOOL OF ENGINEERING AND MANAGEMENT  
**State:** Karnataka  
**District:** Bengaluru Urban  
**City/Place:** Bengaluru  
**Address:** No.15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109  
**Pin:** 560109  
**Communication Email:** swarna.s@kssem.edu.in  
**Alternate Email:** swarnas2483@gmail.com  
**Mobile:** 9886815488  
**Phone:** 08028425012  
**Fax:** 0802842516  
**Category:** General

**9. Name:** Dr. Shyam Vasudeva Rao  
**Gender:** Male  
**Date of Birth:** 17/11/1960  
**Designation :** Managing Director  
**Department:** Renalyx Health Systems Private Limited  
**Institute/University:** RENALYX HEALTH SYSTEMS PRIVATE LIMITED  
**State:** Karnataka  
**District:** Bengaluru Urban  
**City/Place:** Basavanagudi, Bengaluru  
**Address:** 19-19/1, Second Floor, South End Road, Basavanagudi, Bengaluru  
**Pin:** 560004  
**Communication Email:** shyam@renalyx.com

**Alternate Email:**

**Mobile:** 9845842363

**Phone:**

**Fax:**

**Category:** General

**10. Name:** Mr. Sreehari H P

**Gender:** Male

**Date of Birth:** 10/06/1990

**Designation :** Software Manager and Academic Coordinator

**Department:** EngineeringHealth Care

**Institute/University:** RENALYX HEALTH SYSTEMS PRIVATE LIMITED

**State:** Karnataka

**District:** Bengaluru Urban

**City/Place:** Basavanagudi, Bengaluru

**Address:** 19-19/1, Second Cross, South End road, Basavanagudi, Bengaluru

**Pin:** 560004

**Communication Email:** sreehari@renalyx.com

**Alternate Email:**

**Mobile:** 9902762728

**Phone:**

**Fax:**

**Category:** General

**11. Name:** Dr. K Rama Narasimha

**Gender:** Male

**Date of Birth:** 23/07/1971

**Designation :** Principal

**Department:** Mechanical Engineering  
**Institute/University:** K S SCHOOL OF ENGINEERING AND MANAGEMENT  
**State:** Karnataka  
**District:** Bengaluru Urban  
**City/Place:** Bengaluru  
**Address:** K.S.S.E.M  
No.15, Mallasandra, Off. Kanakapura Road, Bengaluru-560109  
**Pin:** 560109  
**Communication Email:** principal.ksgi.bangalore@gmail.com  
**Alternate Email:** principal@kssem.edu.in  
**Mobile:** 9900633688  
**Phone:** 08028425012  
**Fax:** 08028425164  
**Category:** General

**12. Name:** Mr. Avinash Maramraju  
**Gender:** Male  
**Date of Birth:** 03/01/1979  
**Designation :** Vice President  
**Department:** University Space Missions  
**Institute/University:** DHRUVA SPACE PRIVATE LIMITED  
**State:** Telangana  
**District:** Hyderabad  
**City/Place:** Hyderabad  
**Address:** HNo 35-67/1 GK Colony Sainikpuri post Secunderabad  
500094  
**Pin:** 500094  
**Communication Email:** avinashm@dhrivaspace.com

**Alternate Email:**

**Mobile:** 9989337170

**Phone:**

**Fax:**

**Category:** General

**13. Name:** Dr. Srinivas M G

**Gender:** Male

**Date of Birth:** 09/08/1974

**Designation :** Associate Professor

**Department:** Electronics and Communication Engineering

**Institute/University:** MAHARAJA INSTITUTE OF TECHNOLOGY  
THANDAVAPURA

**State:** Karnataka

**District:** Mysuru

**City/Place:** Mysuru

**Address:** Maharaja Institute of Technology  
Thandavapura - [MITT],  
Mysore- 571302 Karnataka.

**Pin:** 571302

**Communication Email:** srinivasamg\_ece@mitmysore.in

**Alternate Email:**

**Mobile:** 9620228056

**Phone:**

**Fax:**

**Category:** General

**14. Name:** Dr. Y T Krishnegowda

**Gender:** Male

**Date of Birth:** 13/02/1960

**Designation :** Principal  
**Department:** Mechaical Engineering  
**Institute/University:** MAHARAJA INSTITUTE OF TECHNOLOGY  
THANDAVAPURA  
**State:** Karnataka  
**District:** Mysuru  
**City/Place:** Mysuru  
**Address:** Maharaja Institute of Technology  
Thandavapura - [MITT],  
Mysore- 571302 Karnataka.  
**Pin:** 571302  
**Communication Email:** principal@mitt.edu.in  
**Alternate Email:**  
**Mobile:** 9449627769  
**Phone:** 08212958917  
**Fax:**  
**Category:** OBC

**15. Name:** Dr. Adnan Javed  
**Gender:** Male  
**Date of Birth:** 28/11/1988  
**Designation :** Director  
**Department:** Nano Technology  
**Institute/University:** AD NANO TECHNOLOGIES  
**State:** Karnataka  
**District:** Shivamogga  
**City/Place:** Shivamogga  
**Address:** , #31L, 2nd Cross, KIADB ,Machenahalli, Industrial Area,  
Shimoga-577222 Karnataka, India.  
**Pin:** 577222

**Communication Email:** m.javeed@ad-nanotech.com

**Alternate Email:**

**Mobile:** 8296734214

**Phone:**

**Fax:**

**Category:** OBC

**16. Name:** Mr. Mohammed Asif M H

**Gender:** Male

**Date of Birth:** 04/07/1991

**Designation :** Application Manager

**Department:** Nano Technology

**Institute/University:** AD NANO TECHNOLOGIES

**State:** Karnataka

**District:** Shivamogga

**City/Place:** Shivamogga

**Address:** 31L, 2nd Cross KIADB Machanahalli Industrial Area,  
Shimoga, Karnataka 577222, India

**Pin:** 577222

**Communication Email:** asif@ad-nanotech.com

**Alternate Email:**

**Mobile:** 8296734214

**Phone:**

**Fax:**

**Category:** OBC

**17. Name:** Dr. Manju B

**Gender:** Male

**Date of Birth:** 19/06/1968

**Designation :** Assistant Professor  
**Department:** Chemistry  
**Institute/University:** MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE  
**State:** Karnataka  
**District:** Mandya  
**City/Place:** Belawadi, Srirangapattana,  
**Address:** MIT Mysore, Belawadi, Srirangapattana Tq, Mandya District, Karnataka 571477  
**Pin:** 571477  
**Communication Email:** hodchemistry@mitmysore.in

**Alternate Email:**

**Mobile:** 9480849427

**Phone:**

**Fax:**

**Category:** General

**18. Name:** Dr. Naresh Kumar B G

**Gender:** Male

**Date of Birth:** 21/05/1958

**Designation :** Principal

**Department:** Civil Engineering

**Institute/University:** MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

**State:** Karnataka

**District:** Mandya

**City/Place:** Belawadi, Srirangapattana

**Address:** Maharaja Institute of Tehology Mysore, Belawadi, Naguvanahally Post, SR Patna Taluk, Mandya Dist

**Pin:** 571438

**Communication Email:** principal@mitmysore.in

**Alternate Email:**

**Mobile:** 9620228021

**Phone:**

**Fax:**

**Category:** OBC

**19. Name:** Mr. Narendra Narayanan

**Gender:** Male

**Date of Birth:** 02/03/1959

**Designation :** Managing Director

**Department:** Innovative Technologies

**Institute/University:** VINYAS INNOVATIVE TECHNOLOGIES PRIVATE LIMITED

**State:** Karnataka

**District:** Mysuru

**City/Place:** Mysuru

**Address:** KIADB Plot No. 19, Survey No. 26 amp  
273P 3rd Phase,  
Koorgalli Industrial area, Mysuru,  
Karnataka 570018.

**Pin:** 570018

**Communication Email:** narendra@vinyasit.net

**Alternate Email:**

**Mobile:** 9845377670

**Phone:**

**Fax:**

**Category:** General

**20. Name:** Mr. Mohan D

**Gender:** Male



**Date of Birth:** 25/06/1974  
**Designation :** Senior Manager  
**Department:** Engineering  
**Institute/University:** VINYAS INNOVATIVE TECHNOLOGIES PRIVATE LIMITED  
**State:** Karnataka  
**District:** Mysuru  
**City/Place:** Mysuru  
**Address:** KIADB Plot No. 19, Survey No. 26  
amp 273P 3rd Phase,  
Koorgalli Industrial area, Mysuru,  
Karnataka 570018.  
**Pin:** 570018  
**Communication Email:** mohan@vinyasit.net  
**Alternate Email:**  
**Mobile:** 9663330821  
**Phone:**  
**Fax:**  
**Category:** General

**21. Name:** Mr. Surya Prakash M Puranik  
**Gender:** Male  
**Date of Birth:** 25/05/2000  
**Designation :** Founder CEO  
**Department:** Connect Now Media  
**Institute/University:** CONNECT NOW MEDIA  
**State:** Karnataka  
**District:** Mysuru  
**City/Place:** Mysore

**Address:** 235, 1st floor, L3S Arcade, Ring Rd, BEML Layout 2nd Stage, Rajarajeshwari Nagar, Mysuru, Karnataka 570026

**Pin:** 570026

**Communication Email:** connectnm22@gmail.com

**Alternate Email:**

**Mobile:** 9972230340

**Phone:**

**Fax:**

**Category:** General

**22. Name:** Mr. Skanda P N

**Gender:** Male

**Date of Birth:** 10/10/1996

**Designation :** Cofounder CTO

**Department:** Connect Now Media

**Institute/University:** A N COLLEGE

**State:** Karnataka

**District:** Mysuru

**City/Place:** Mysore

**Address:** 12, G9 Vaatika, Hootagalli, Ilavala Hobli, Mysuru, Karnataka

**Pin:** 570018

**Communication Email:** skandapn1010@gmail.com

**Alternate Email:**

**Mobile:** 8884013481

**Phone:**

**Fax:**

**Category:** General

**23. Name:** Mr. Chaitanya Dora

**Gender:** Male

**Date of Birth:** 12/07/1989

**Designation :** Chief Financial Officer

**Department:** CoFounder

**Institute/University:** DHRUVA SPACE PRIVATE LIMITED

**State:** Telangana

**District:** Hyderabad

**City/Place:** Hyderabad

**Address:** 702, Block I, White House, Kundanbagh Colony, Begumpet, Hyderabad, Telangana 500016

**Pin:** 500016

**Communication Email:** chaitanya@dhruvaspace.com

**Alternate Email:**

**Mobile:** 9177946444

**Phone:**

**Fax:**

**Category:** General

### Part 3: Suggested Refrees

**Suggested Refrees: NA**

### Part 4: Financial Details

**Financial Details:**

#### A. Non - Recurring

Equipment

S.	Equipments	Qty.	Justification	1 Year	Total
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1 .	"Automatic Surface Area & Porosimeter Analyzer Model"	1	Research and Development	3385000	3385000
2 .	1150°C Tubular Furnace	1	Research and Development	308000	308000
3 .	20/32 Channel Neurostimulator	1	Research and Development	2460000	2460000
4 .	Airbearing table for ADCS characterisation	1	Testing and Validation	5900000	5900000
5 .	ALPHA-P, FT-IR Spectrometer with Platinum-ATR	1	Research and Development	2706000	2706000
6 .	Ball Milling	1	Research and Development	2460000	2460000
7 .	Bench top Model Application	1	Research and Development	701000	701000
8 .	Brain Computer Interface (BCI) with Virtual Reality (VR)	1	Research and Development	3690000	3690000
9 .	Chemical Vapor Deposition Unit	1	Research and Development	2460000	2460000
10 .	Computer and Server	1	Research and Development	3027000	3027000
11 .	Cryogenic Processor	1	Research and Development	2102000	2102000
12 .	CubeSat	1	Tech Demonstration	11800000	11800000
13 .	Double Beam UV-VIS Spectrophotometer	1	Research and Development	640000	640000
14 .	ESD equipment	1	Testing and Validation	2950000	2950000
15 .	Fluorescence Spectrometer	1	Research and Development	2064000	2064000
16 .	FTIR Spectrophotometer	1	Research and Development	2064000	2064000
17 .	Gas Chromatograph Netel Advance Micro Controller Based Gas Chromatograph Series	1	Research and Development	1608000	1608000
18 .	Glove Box	1	Research and Development	2460000	2460000
19 .	Green Fume Hood	1	Research and Development	3405000	3405000
20 .	Ground Station - Antenna - Crossed Yagi-Uda	1	Ground Station Infrastructure	5900000	5900000
21 .	Helm Holtz Cage along with gyroscope	1	Testing and Validation	8850000	8850000
22 .	High-end workstations	1	Design and Development	2950000	2950000
23 .	Hitachi TEM	1	Research and Development	52793000	52793000
24 .	HPLC Binary System	1	Research and Development	1682000	1682000
25 .	iMedilogger – Multi Parameter Devices	1	Research and Development	2460000	2460000
26 .	Laminar flow benches	1	Design and Development	9440000	9440000
27 .	Microwave Digestion System Model	1	Research and Development	1546000	1546000
28 .	Mind Tracker BCI – Bands	1	Research and Development	1845000	1845000
29 .	MUFFLE FURNACE	1	Research and Development	148000	148000
30 .	Multichannel Electrochemical System– 1No	1	Research and Development	3519000	3519000
31 .	Nano material and EMI shielding working instrument	1	Research and Development	34043000	34043000
32 .	NT-MDT Spectrum Instruments SPM System model	1	Research and Development	8093000	8093000
33 .	Oscilloscopes - Probing instruments including oscilloscopes, logic analysers, spectrum analyser, network analyser etc	1	Design and Development	2950000	2950000
34 .	P30 NanoSat - Hosted 2kg	1	Tech Demonstration	35400000	35400000
35 .	PDOT:: Sub-System EMs (ADCS, EPS, OBC etc.)	1	Satellite Bus Modelling	3540000	3540000
36 .	Pin on Disc Tribometer and other setup	1	Research and Development	1675000	1675000
37 .	Portable EEG Device	1	Research and Development	3075000	3075000
38 .	Portable fNIRS device	1	Research and Development	2460000	2460000
39 .	Portable natural gas chromatograph	1	Research and Development	4289000	4289000
40 .	Quaternary HPLC System Manufacturer	1	Research and Development	2024000	2024000
41 .	ROO Observatory - 3	1	Learning Objectives	46740000	46740000
42 .	S&X Ground Station	1	Ground Station Infrastructure	17700000	17700000
43 .	Schottky Model	1	Research and Development	31694000	31694000
44 .	SmartLab SE / SmartLab SE	1	Research and Development	15990000	15990000
45 .	Soft wall clean room	1	Flight Model Assembly Area	17700000	17700000
46 .	Software Simulators	1	Design and Development	14160000	14160000
47 .	Space System Engineering - 1	1	Learning Objectives	2950000	2950000
48 .	Space System Engineering - 2	1	Learning Objectives	2360000	2360000
49 .	Space System Engineering - 3	1	Learning Objectives	2950000	2950000

50 .	Spray Particle Size Analyzer	1	Research and Development	2580000	2580000
51 .	STK (Satellite ToolKit) software suite for mission analysis and visualization	1	Design and Development	21240000	21240000
52 .	Sun Simulator	1	Testing and Validation	29500000	29500000
53 .	super critical fluid SETUP	1	Research and Development	6150000	6150000
54 .	Thermovac Chamber	1	Testing and Validation	29500000	29500000
55 .	UV-VIS Spectrophotometer	1	Research and Development	1375000	1375000
56 .	Vibration & Shock Facilities (Shaker tables)	1	Testing and Validation	17700000	17700000
<b>Total</b>				<b>505161000</b>	<b>505161000</b>

## B. Recurring

### Project Staff

S.	Project Staff	No.	Justification	1 Year	2 Year	3 Year	4 Year	Total
1 .	Others	2	Consultants/Contractors- Contribution- 50%	0	0	0	694575	694575
2 .	Others	2	Consultants/Contractors- Contribution-50%	0	630000	0	0	630000
3 .	Others	2	Consultants/Contractors-Contribution- 50%	0	0	661500	0	661500
4 .	Others	2	Consultants/Contractors-Contribution-50%	600000	0	0	0	600000
5 .	PI/Project Coordinator — I (For Non-Governmental/Voluntary Organizations)	1	Project Head-Contribution-100%	1800000	0	1984500	2083725	5868225
6 .	PI/Project Coordinator — I (For Non-Governmental/Voluntary Organizations)	1	Project Head-Controbution-100%	0	1890000	0	0	1890000
7 .	Research Assistant	3	Technicians/Assistants- Contribution-100%	540000	567000	595350	625117	2327467
8 .	Senior Program Officer (SPO)	6	Professors/Faculty-Contribution 50%	2160000	2268000	2381400	2500470	9309870
<b>Total</b>				<b>5100000</b>	<b>5355000</b>	<b>5622750</b>	<b>5903887</b>	<b>21981637</b>

### Consumables

S.	Items	Qty.	Justification	1 Year	2 Year	3 Year	4 Year	Total
1 .	Consumable	1	Maintenance	1500000	0	0	0	1500000
2 .	Consumables	1	Maintenance	0	1800000	1800000	1800000	5400000
<b>Total</b>				<b>1500000</b>	<b>1800000</b>	<b>1800000</b>	<b>1800000</b>	<b>6900000</b>

### Contingency

S.	Description	Justification	1 Year	2 Year	3 Year	4 Year	Total
1 .	Contingency	Includes overheads and miscellaneous expenses. 2% on non recurring	10100000	0	0	0	10100000
<b>Total</b>			<b>10100000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10100000</b>

### Travel

S.	Description	Justification	1 Year	2 Year	3 Year	4 Year	Total
1 .	Travel	Attending International Conferences, Inviting guest speaker and dignitaries from various places.	1000000	800000	700000	700000	3200000
<b>Total</b>			<b>1000000</b>	<b>800000</b>	<b>700000</b>	<b>700000</b>	<b>3200000</b>

## Budget Head Summary in (INR)

Budget Head	Year-1	Year-2	Year-3	Year-4	Total
<b>1- Non-Recurring</b>					
Equipment	505161000	0	0	0	<b>505161000</b>
Subtotal (Capital)	505161000	0	0	0	<b>505161000</b>
<b>2- Recurring</b>					
Project Staff	5100000	5355000	5622750	5903887	<b>21981637</b>

Consumables	1500000	1800000	1800000	1800000	<b>6900000</b>
Contingency	10100000	0	0	0	<b>10100000</b>
Travel	1000000	800000	700000	700000	<b>3200000</b>
Subtotal (General)	17700000	7955000	8122750	8403887	<b>42181637</b>
Total Project Cost (Capital + General)	<b>522861000</b>	<b>7955000</b>	<b>8122750</b>	<b>8403887</b>	<b>547342637</b>

## Part 5: PFMS Details

### PFMS Unique Code Available: Yes

PFMS Unique Code : KAMY00005907

## Part 6: Current Ongoing Project

### Current Ongoing Project:

- 1. Project Title:** Innovative ICT Enabled Co working Community Center design for rural development
- Funding Department:** Department of Science & Technology
- Project Duration :** 3 Years 0 Months
- Total Project Cost (In Rs.) :** 20409208.00
- Start Date in :** June 2021
- Project Expected end in :** July 2023
- Project Expected Outcomes :**

( Reduce the urban migration from rural areas instead provide a livelihood for the locals and improve their standard of living with the facilities available in urban areas.  
Efficient use of technology and reap maximum benefits like training on being guides or new techniques of tailoring  
Improve the Education and skill development training for dropout students )

## **List of Uploaded Documents:-**

1. Complete Project proposal
2. Certificate from PI
3. Conflict of interest
4. Endorsement from head of Institute
5. Quotation for Equipments

MINISTRY OF SCIENCE AND TECHNOLOGY  
DEPARTMENT OF SCIENCE AND TECHNOLOGY  
(R&D Infrastructure – Division)

**FOR SUBMISSION OF PROPOSAL**  
**TO SET UP SOPHISTICATED ANALYTICAL & TECHNICAL**  
**HELP INSTITUTE (SATHI) FACILITY**

**ON SHARING & CLUSTER MODE**  
**(sharing of fund at 75:25 ratio)**

1.	<p><b>Name and Background of the Host Institute / Lead Organization</b></p> <p>ATME College of Engineering Bannur Rd, Mysore, Karnataka 570028</p> <p>ATME college of Engineering is founded by a group of like-minded technocrats in 2010. Founders are managing various kind of enterprises like infra companies, manufacturing units, and IT service. Founders are aware of the need of the industry and trying to cater to such needs by developing industry-ready engineers through ATME College of Engineers.</p> <p>ATME has created a futuristic infrastructure with 3 lakh sq. ft. of built-up area, state of the art labs, a cluster of seminar halls an auditorium with all modern gadgets, a Library, a Central computing facility, etc. All this has been done within a span of 8 years and can proudly be said that the infra is at par with any institution with a standing of 20-25 year.</p>
2.	<p><b>DSIR recognized R&amp;D institute / Centre / Host Institute / Organization, if available, furnish the same.</b></p> <p>ATME College of Engineering is affiliated to Visvesvaraya Technological University</p> <p>Visvesvaraya Technological University has a NIRF ranking of 52 as of 2023.</p>
3.	<p><b>(a) Name &amp; address of the Host Institute / University / R&amp;D institute / Lead Organization with Contact Details (Head of the Lead organization with Mobile no &amp; email etc)</b></p> <p>Dr. A K Murthy, Principal, ATME College of Engineering</p>



	<p>13th Kilometer, Mysore – Kanakapura – Bangalore Road, Mysore – 570 028 Karnataka 0821-2954081 / 0821-2954011 info@atme.edu.in</p>
	<p>(b) Name &amp; address of the 1st Co-opted partner Dr. Shyam Vasudevarao Director, Renalyx Health Systems Private Limited, No.19-19/1, 2nd floor, Southend Road, Basavana Gudi, Bengaluru – 560004 Ph No: +91-80-42191482, Email: shyam@renalyx.com</p>
	<p>(c) Name &amp; address of the 2nd Co-opted partner Dr. Adan Javeed Director, AD-NANO Technologies #31L, 2nd Cross, KIADB, Machenahalli, Industrial Area, Shimoga-577222 Karnataka, India. Ph No: 0821002958917 Email: m.javeed@ad-nanotech.com</p>
	<p>(d) Name &amp; address of the 3rd Co-opted partner Dr. B.G. Naresh Kumar Principal, MIT Mysore, Belawadi, Srirangapatna Tq Mandya, Karnataka 571477 Ph No: 08236292603 Email: principal@mitmysore.in</p>
	<p>(e) Name &amp; address of the 4th Co-opted partner Mr. Narendra N Managing Director, Vinyas Innovative Technologies Pvt Ltd KIADB Plot No. 19, Survey No. 26 &amp; 273P 3rd Phase, Koorgalli Industrial, Mysore, Karnataka 570018. Email: narendra@vinyasit.net Ph No No:9845377670</p>
4.	<p><b>Objective of the SATHI Proposal request to establish under one roof:</b> (a) Academic area focused at; ECE, Material Science, Biomedical, Computer Science, Aerospace, Space, Physics and Nano Materials</p>

The SATHI (Science and Technology Hub for Innovations) project concept aims to establish a comprehensive platform or facility that combines numerous resources, capabilities, and infrastructure under one roof. Offering internationally recognized analytical services for Analytical studies, the energy sector, drug development and testing of food, nutraceuticals, medicines, biologicals, and materials. The fundamental goal is to promote collaboration, creativity, and advancement in science and technology. The project aims to create a supportive atmosphere for academics, scientists, businesspeople, and other stakeholders by fusing numerous elements into a single center.

(b) Application area focused at;

Satellite Operations and Applications, Space Operations and Ground Segment Material Sciences. Biomedical Technologies

The objective of the SATHI proposal is to establish a unified platform that focuses on specific application areas, namely Space Technology - Manufacturing and Communications.

More details of the objectives are mentioned in **Appendix A**

5. **Relevant strengths and proven tracks record of the Host Institute / lead / partner organization justifying the setting up SATHI center under one roof.**

ATMECE has a dedicated Research wing to nurture and promote various research activities such as publication of research articles, presentation of innovative ideas in National/International conferences, publication of book chapters, evolution of innovative projects, etc., and many events have been organized to achieve the objectives.

The Institution has Research Centers set up to motivate both internal faculties and external researchers to carry out their research work. Research supervisors of various Research Centers of the institution constantly provide guidance and encouragement for internal and external researchers to accomplish their doctoral degrees.

ATMECE has an **IPR cell** through which faculty and students are guided and encouraged to apply for patents. The faculty and students publish many articles in various peer-

reviewed journals and conferences indexed in Scopus, UGC care, Web of Science, ISI indexing, Google Scholar etc.

The institution organized an **international conference** annually with the title '**International Conference on Recent Trends in Science and Technology-ICRTST**' with an intent to bring about innovative ideas of Academicians, Industry professionals, Researchers, Scholars, and Students, of various streams, in Science and Technology. The papers presented by the participants are exposed more by publishing the same in several peer-reviewed journals indexed in Scopus, UGC care, and Google Scholar.

The Management has an Incentive Policy for Research & Publications intending to motivate and encourage research activities among faculties and to actively associate faculties in industry interaction seminars and National/ International Conferences. The incentives in the form of financial aid are provided to researchers for various accomplishments such as completion of Ph. D, publication of articles in reputed Journals, publication in National/International conferences, publication of textbooks and obtaining grants for research projects.

The Institution has received significant Grants from various Government funding bodies. **Department of Science & Technology (DST)** has sanctioned a remarkable amount of ₹ 2.04 crore & ₹ 17.90 Lakhs for the projects which is intended for Rural development. Grants have been sanctioned for innovative final-year projects of students by KSCST and VTU. ATAL (AICTE) has sanctioned funds for conducting FDP, and the institution has received MODROBS funds for the upgradation of Laboratories.

ATMECE collaborates with **Institution Innovation Council (IIC)** to encourage students to participate in innovation and entrepreneurship-related activities. To build interactions with successful entrepreneurs, periodic workshops/seminars are conducted under IIC to encourage students towards entrepreneurship. Events such as Hackathons, idea competitions, mini challenges etc. are conducted with the involvement of industries to induce entrepreneurship in young minds. The institution has secured 3-star ranking by the MoE-Institution cell for various activities carried out under Institution Innovation Council.

	<p>The institution has signed MoUs with various industries and collaborating agencies in order to develop Industry-Institute relationships. Significant activities such as internship, student exchange, awareness programs on emerging technologies, career guidance and placements are carried out to help students develop their skill set required for industry standards.</p>
6.	<p><b>Potential academic user organizations including Industrial User(s), MSMEs, manufacturing industries, start-up(s) &amp; R&amp;D centers indicating details on domains of research publication and patents.</b></p> <p>The Institution has received significant Grants from various Government funding bodies. Department of Science &amp; Technology (DST) has sanctioned a remarkable amount of ₹ 2.04 crore &amp; ₹ 17.90 Lakhs for the projects which is intended for Rural development. Grants have been sanctioned for innovative final-year projects of students by KSCST and VTU. ATAL (AICTE) has sanctioned funds for conducting FDP, and the institution has received MODROBS funds for the upgradation of Laboratories.</p> <p>ATMECE collaborates with the Institution Innovation Council (IIC) to encourage students to participate in innovation and entrepreneurship-related activities. To build interactions with successful entrepreneurs, periodic workshops/seminars are conducted under IIC to encourage students towards entrepreneurship. Events such as Hackathons, idea competitions, mini challenges etc. are conducted with the involvement of industries to induce entrepreneurship in young minds. The institution has secured 3-star ranking by the MoE-Institution cell for various activities carried out under Institution Innovation Council.</p> <p>Institution has signed MoUs with various industries and collaborating agencies in order to develop Industry-Institute relationship. Significant activities such as internship, student exchange, awareness program on emerging technologies, career guidance and placements are carried out to help students develop their skill-set required for industry standards.</p>

The following **grants** are received by ATME College of Engineering from various government funding agencies.

- Grants of Rs. 17,90,000/- (Seventeen Lakhs and Ninety Thousand Rupees Only) Received from the Department of Science and Technology (DST), Government of India under NCSTC Division to organize science Fiesta in four districts of Karnataka (Coorg, Mandya, Mysore & Chamarajanagar).
- Grant of Up to Rs. 2,00,00,000/- (Two Crores) received from Karnataka Innovation & Technological Society (KITS) for setting up of District Innovation Hub (DIH) Lab to carry out the Innovative Projects by Students. Duration: Five Years (2022-27).
- Grants of Rs. 10,77,000/- (Ten Lakhs and Seventy-Seven Thousand Rupees Only) received from All India Council for Technical Education (AICTE) under the MODROB Scheme for enhancing Microwave and Communication Laboratory.

7.

**List of Individual Users with expected requirement of Equipment / Facility (within and outside the lead / partner organization / Institute including Industrial User(s), MSMEs, manufacturing industries, start-up(s) & R&D centers).**

This is a partial List. Mysore has many institutes of higher learning and corporate entities in the Mysore/Mandya region, in the state of Karnataka

Industrial User(s)	Renalyx Health Systems Private Limited, Mysore AD-NANO Technologies, Mysore	
MSMEs	Vinyas Innovative Technologies Pvt Ltd, Mysore	
Manufacturing industries	Dhruva Space Private Limited, Hyderabad	

Start-up(s)	ConnectNow Media, Mysore
R&D centers	ATME College of Engineering, Mysore K. S. School of Engineering & Management, Mysore Maharaja Institute of Technology, Thandavapura MITT Maharaja Institute of Technology, Mysore MITS

8.	<b>Proposed Equipment / Facilities with justifications</b>						
	Sr. No.	Name of Equipment	Specification	Application	Justification	Different	Cost (INR)
	<b>Detailed equipment list, estimates and details are mentioned in the Annexure B</b>						
	<b>Summary of the Proposed Equipment</b>						
	Vertical		Estimates (in lacs)				
	Bio Medical Equipment		184.02				
	Material Science Equipment		1939.64				
	Space Infrastructure		2845.20				
	Training & Orientation		82.60				
	Total		5051.6				

9.	Budget As per below tabular format		
9. (A.) Non-Recurring Items (A) & its justification:			
Sr. No.	Proposed Equipment / Facility	Expected / Tentative Cost (Rs. In Lakhs, from DST @ 75%)	Expected / Tentative Cost (Rs. In Lakhs, on sharing mode from the cluster @ 25%)
i.	<b>Non-Recurring:</b>	3788.7	1262.9
ii.	<b>Other Non-Recurring</b>		

Sub Total of A (Rs. In Lakhs)	3788.7	1262.9
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9. (B.) Recurring Items (B) for 4 years (with year-wise distribution & justification for four year):  
All expenses stated in lakhs

Recurring Item	Year 1	Year 2	Year 3	Year 4
Human Resource Cost	51	54	56	59
Consumables	15	18	18	18
Contingency	101	0	0	0
Travel	10	8	7	7
Total in lakhs	76	80	81	84

Total Recurring: 421 lacs

Total A + B = 5473.4 lacs

1. Budget Details (Rs in Lakhs)

Budget Head		Year - 1	Year - 2	Year - 3	Year - 4	Total
Non-Recurring		5051.6				
Other Non-Recurring						
Subtotal (Capital)	A	5051.6				5045.6
Contingency		101	0	0	0	101
Project Staff/ HR		51	54	56	59	220
Consumables		15	18	18	18	69
Travel		10	8	7	7	32
Subtotal (General)	B	76	80	81	84	321
Total Project Cost	(A+B)	5473.4				

10.	<p><b>Details of human resource / scientific staff to be Employed and its commitment from Host Institute(s) / Lead Organization(s) to work in a team under one roof.</b></p> <p><b>Principal Investigator:</b> Dr. A K Murthy, Principal, ATME College of Engineering.</p> <p><b>Co PI's from the Lead Organization:</b></p> <p>Dr. S R Bhagyashree, Professor &amp; Dean Research</p> <p>Dr. Avinash K, Assistant Professor, Department of Chemistry,</p> <p>Mr. Chetana S, Assistant Professor, Department of Mechanical Engineering</p> <p>Dr. Mahesh Lohith K S, Department of Physics</p> <p>Dr. Pavithra A C, Assistant Professor, Department of Electronics Engineering</p> <p>Dr. Shalini Hanok, Assistant Professor, Department of Electronics Engineering</p> <p>Dr. Kiran Kumar P Assistant Professor, Department of Chemistry</p>
11.	<p><b>Equipment / infrastructure available at the Host Institute and willingness to be Networked (physically) with co-opted organization(s) those situated in close vicinity as partner organization and willing to establish SATHI facility of that region.</b></p> <p><b>Initiative One</b></p> <p>Innovative ICT Enabled Co-working Community Design Center” is a DST-SEED Funding of duration 3 years approved in the year 2021. The objectives of the project are.</p> <ul style="list-style-type: none"> <li>● Reduce the urban migration from rural areas instead of providing a livelihood for the locals and improving their living standards with the facilities available in urban areas.</li> <li>● Efficient use of technology and reap maximum benefits like training on being guides or new tailoring techniques.</li> </ul>



Improve the Education and skill development training for dropout students.

- Dr. Prakash Kuravatty, Associate Professor, Department of ECE is the Principal Investigator executing the project. The sanctioned amount is Rs. 2,04,09,208/-.
- K-Tech New Age Innovation Network (NAIN)” is funded by the Karnataka Innovation Technology Society (KITS). The project is of duration 3 years with funding up to 2 Crores. Under the New Age Innovation Network

Students are encouraged to identify local problems, address those using concepts of frugal innovation, and develop appropriate technology-based solutions and working prototypes. Its is also expected that the mentors assigned to the students help them to formulate a business model based on this new technology and encourage them to think like entrepreneurs.

The NAIN incubators would be networked and connected to a common portal to facilitate the exchange of thoughts, ideas and collaboration across institutions and disciplines. Selected institutions would be graded based on key performance indicators defined in this document and / or as decided by NAIN Steering Committee intermittently.

Financial assistance for running the incubators and for student projects will be initially provided for three years which may be extended for another two years based on the criteria as defined in this document and as amended from to time.

Dr. Basavaraj L, Professor and HOD ECE is the principal investigator, Dr. Yathisha L is the College Coordinator and Mr. Rajeev Gowda R is the District Innovation Associate for NAIN LAB.

### **Initiative Two**

“Cyber Security in Power Systems” is an AICTE-MODROBS funded project for the duration of 2 years and asanctioned amount of Rs 17,00,000/- with the following objectives.

- Functional Aspects: Deployment of 100 hours of virtual internship on ‘Cyber Security in Power Systems’ for 100 concurrent\* interns across PAN India.
- Infrastructural aspects – Software: Syllabus content for 100 hours on cyber security in power systems (as per scheme of delivery and assessment requirement\*\* shown in Appendix-A). It should be supplemented with Videos, Quizzes, Assignments, Hands-on Practical Labs, and Projects with Real-world Case Studies. Conduction of virtual delivery and evaluation tools of objective 1 under ‘Infrastructural aspects – Software’ through IT teaching material. Information and monitoring the Performances of Interns and their participation/usage.
- Infrastructural aspects – Hardware: Server to host and function for objectives 1, 2 and 3 under ‘Infrastructural aspects Software’. Cloud infrastructure to connect Server (Objective 1 under ‘Infrastructural aspects Hardware’) with 100 interns across PAN India. Upgrading of existing systems in power system lab to conduct offline internship.

Dr. Parthasarathy L, Professor and HOD, E & E Department and Dr. S R Bhagyashree, Professor and Dean Research, E&C Department.

### **Initiative Three**

Enhancing New Technology in Microwave and Wireless Communication,” another project funded by AICTE-MODROBS for the duration of 2 years with an amount of 10,77,000/-.

The project's objective is to contribute to the development of competitiveness through innovation and knowledge transfer in the field of Wireless communications, Satellites communication, and Optical fiber communication, thereby achieving excellence in technical education through research, development, and innovation.

The Advanced Communication Lab brings together scientific research skills and industrial needs on strategic sectors of common interest. This Lab also provides an enrichment of training for students who may find a practical and intellectual training ground with close collaboration with industry. Thus, there is an urgent need for trained graduates, postgraduates, or research scholars with hands-on experience to support the industry. In view of said prospects, it is proposed to establish an “Advanced communication Laboratory” in various wireless communication technologies.

Dr. Mahesh P K, Professor and HOD, E&C Department, was the Principal Investigator.

In addition to the above-mentioned funded projects, the following are some more funded projects taken up by the institute.

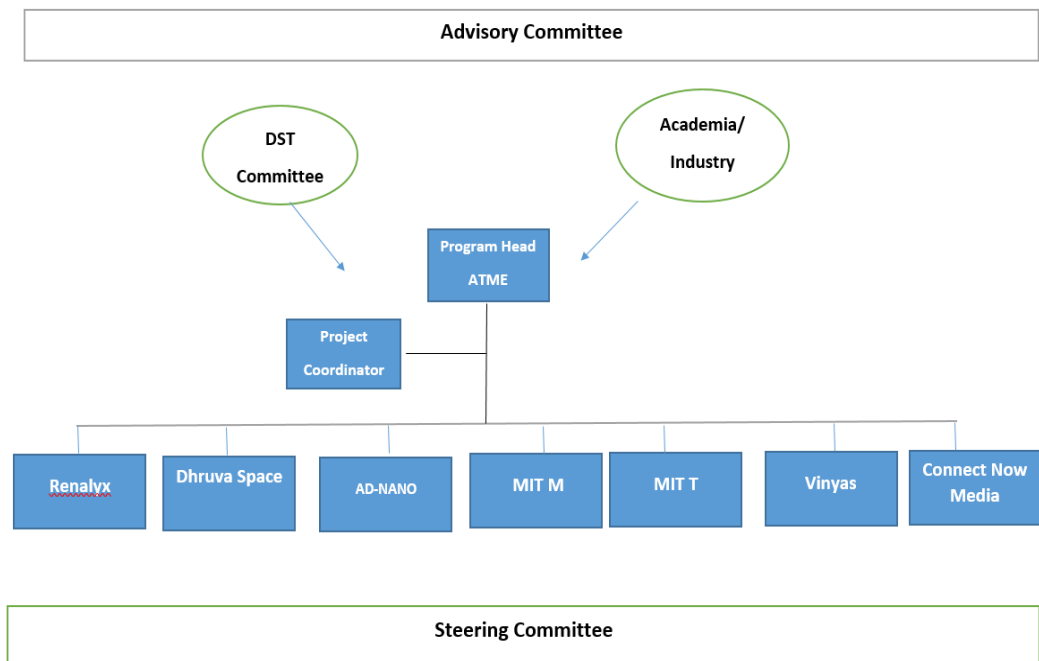
- Research Avenues in Artificial intelligence (AI) and other areas.
- Sci-Fest Science Fiesta for school children from 7th to 12th Standard, Funded by DST-NCSTC, 2021, 1 year, Rs. 17,90,000/-, Funded by SERB, 2022, 3-day seminar, Rs. 80,000/-
- Atal FDP on NEP 2020, Funded by AICTE, 1 Week, Rs.93,000/-
- ICRTST-2022, Funded by AICTE, 2 Days Conference, Rs. 4,00,000/-.

The Lead Organization, ATME College of Engineering, along with the Partner organizations is providing a Matching Grant of 25% to the proposed cluster mode Research Setup, the facilities of which are utilized by Tech Lead Organization, Partner organizations and the non-Partner organizations. The procurement of a part of the proposed equipment matching 25% of the proposed fund amount, limited to a max of 80 crores, is planned for the establishment of research facilities in cluster mode.

12. **Management Structure of the proposed SATHI facility (including organizational setup / arrangements of day to day functioning, as per the “Terms and Conditions” document pertaining to SATHI program of DST, to**

**incorporate a Section-8 company at the level of Central registration Centre of Ministry of Corporate Affairs, GoI)**

Provide the Organogram of the Proposed SATHI Centre / Governing Body structure.



The program has key stakeholders. The success factor depends on formulating a road map with inputs from government/industry/academic experts, planning and execution of the plan.

The structure has three groups:

- Advisory Committee
- Project Execution Team
- Program partners

Advisory Team - Members from Industry, Government and other academia experts

Project Execution Team – Members of the consortium who will be the responsible for the operations and project executions

Program Partners – Steering Committee members who are part of the program

13. **Provision of available space (~ 20000 Sq. ft.) along with provision for future expansion to a total of 30,000 sq. ft. appropriate Lab infrastructure at one place under one roof by the lead organization (although minimum of 5 organizations or more, forming a cluster from that region).**

ATME are prepared to offer the readily available space of approximately 20,000 square feet for the establishment of the lab infrastructure. Furthermore, we are prepared to accommodate future expansion plans that could extend the total space to 30,000 square feet, all conveniently situated under one roof.

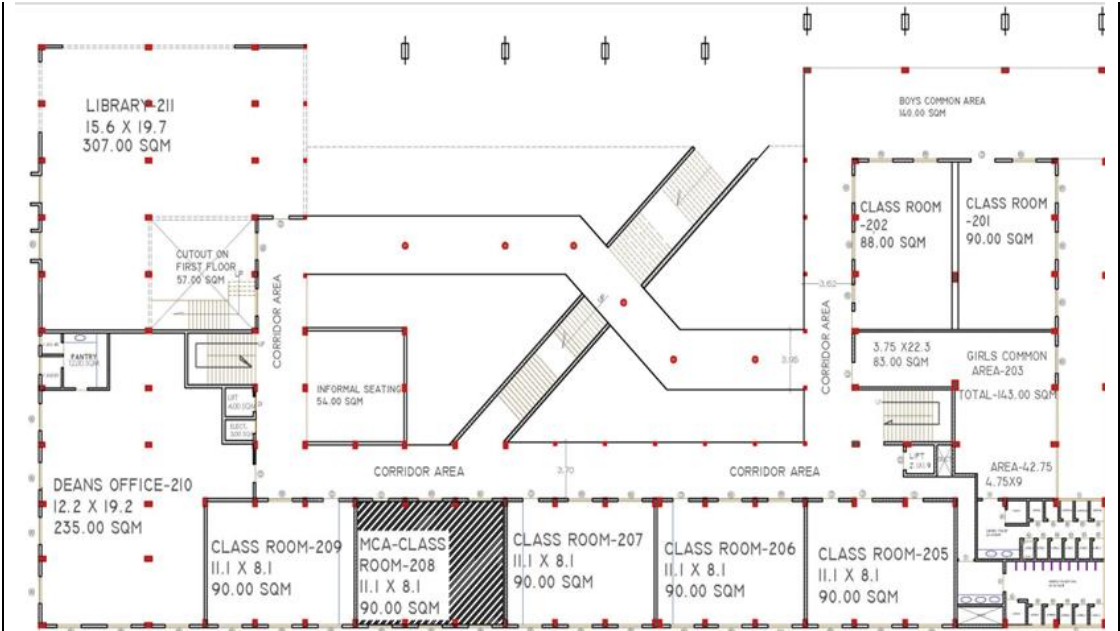
It's important to note that the provision of this space is subject to receiving the relevant government approvals and meeting regulatory requirements. We will diligently be working on securing these approvals to ensure a seamless setup of the lab infrastructure.

Total Area: 30,000 sft

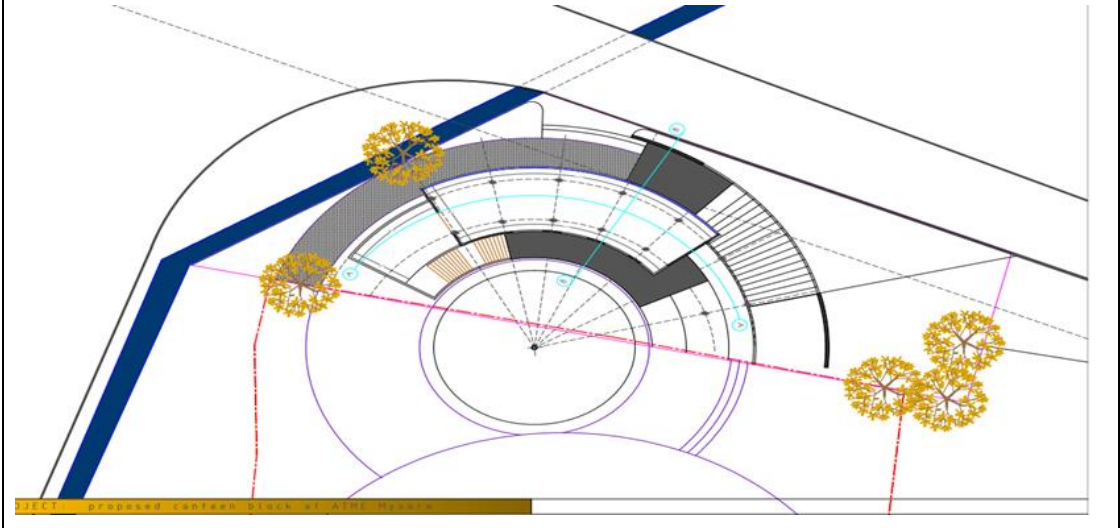
The following are covered in the proposed SATHI facility

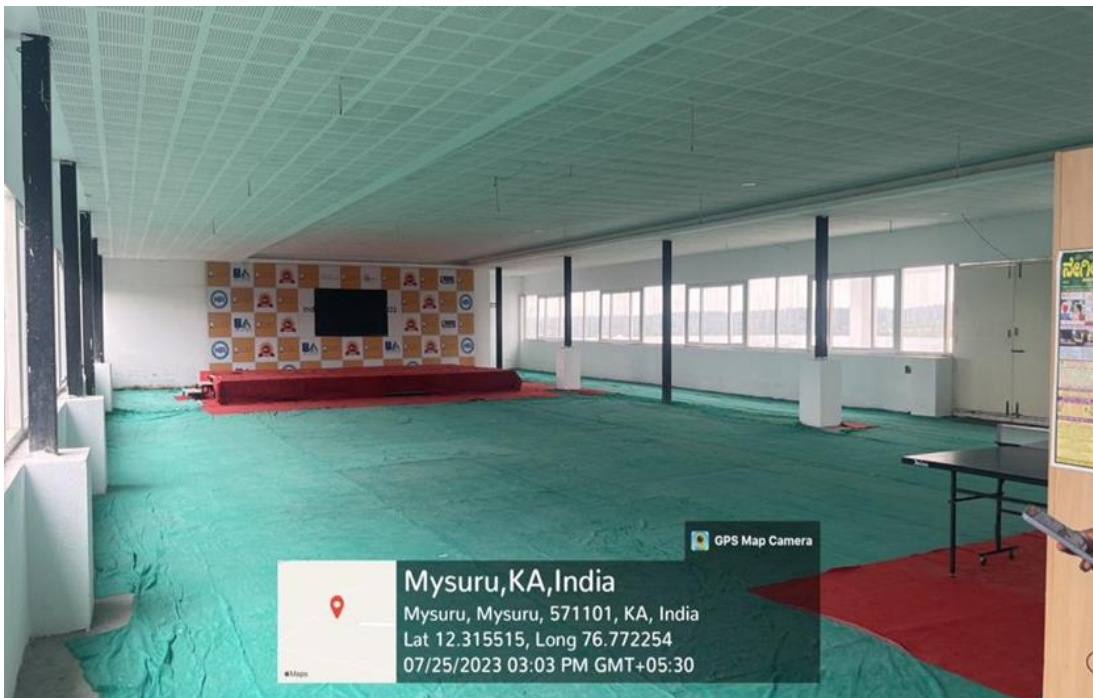
- Labs designated for individual segments (space tech, Nano and Biomedical)
- Conference Room/Discussion Rooms equipped with required infrastructure

The 2D diagram is designed for the physical infrastructure for this program is mentioned below. The allocation is in the ground floor for the heavy equipment and labs in third floor.



Proposed layout for the marked in grey for the infrastructure area





14. Details of Research activities at the Host Institute(s) / Lead Organization/ partner organization(s), at neighboring associated Institutes including Industrial User(s), MSMEs, manufacturing industries, start-up(s) & R&D centres, justifying proposed Equipment / Facilities going to be beneficial towards those thrust areas (proposed verticals) and SATHI self-sustainability.

3. Projected Revenue Model (SUSTAINABILITY MODEL (Rs in Lakhs))

Description		Year-1	Year-2	Year-3	Year-4	Total
Estimated Revenue	A	270	311	404	525	1509
Expenses						
Recurring Cost						
Manpower cost		51	54	56	59	220
Consumables & Maintenance		15	18	18	18	69
Contingency		101	0	0	0	101
Travel, out of compact Recurring expenditure		10	8	7	7	32
Estimated Recurring Cost (Sub Total)	B	177	80	81	84	422
Interest Cost <sup>1</sup>	C	16	16	16	16	64
Depreciation <sup>2</sup>	D	496	447	402	362	1707
Total Expenses (B+C+D)		689	542	499	462	2192
Net Surplus (A-E)		-419	-232	-96	63	
Assumptions						



#### Assumptions

- a. Total years taken for 4 years from the start of the project
- b. Land/Infrastructure expenses is not considered as infrastructure exists
- c. Electricity, water expenses is covered under consumables & maintenance header
- d. Revenue for Year 2 is a increase of 15% from year 1, thereafter 30% for year 3 and 4
- e. Travel for Year 1 is set on highest value and reduced in subsequent years
- f. Contingency is set at 2% of the total equipment cost. Its considered for Year 1 only. Year 2-3-4 amount will be adjusted within the year 1 allocation.
- g. Equipment maintenance and consumables will be less in year 1 as items will be under warranty and no additional amount is considered
- h. Manpower costing is appreciated by 5% year on year for Year 2-3-4.

15.	<p><b>Prior experience of Lead Organization/ partner organization(s), in running shared equipment central facilities, if any with its document proof :</b></p> <p>ATME does not have prior experience in running shared equipment central facilities.</p>								
16.	<p><b>Any other special points may be mentioned by the Lead Organization/ partner organization(s), specifying about the matching grant to be provided by the organization(s) in a cluster mode, towards both the non-recurring (excluding the building space, new equipment already available, utility expenses) and recurring part (viz: manpower, consumables, utilities etc.). As (75:25) funding mode is applicable in cluster mode, i.e., DST share would be 75% and the management of the Government / Non-Government Grantee organization(s) / Institute / R&amp;D center (HI) in a cluster approach share would be 25% of the total sanctioned cost of the project (As upper limit of funding support from DST would be upto Rs 60.0 crores).</b></p>								
17.	<p>Team of faculties of the host institute(s) / R&amp;D Centre / Lead / partner organization(s) responsible for the smooth execution of tabulated targets and its commitments to facilitate at the proposed SATHI center.</p> <table border="1" data-bbox="300 1368 1394 1769"> <thead> <tr> <th data-bbox="300 1368 1023 1435">Name</th> <th data-bbox="1023 1368 1394 1435">Faculties Committed</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 1435 1023 1503">ATME, Mysore</td> <td data-bbox="1023 1435 1394 1503">6</td> </tr> <tr> <td data-bbox="300 1503 1023 1603">K. S. School of Engineering &amp; Management, Mysore</td> <td data-bbox="1023 1503 1394 1603">2</td> </tr> <tr> <td data-bbox="300 1603 1023 1769">Maharaja Institute of Technology, Thandavapura MITT</td> <td data-bbox="1023 1603 1394 1769">2</td> </tr> </tbody> </table>	Name	Faculties Committed	ATME, Mysore	6	K. S. School of Engineering & Management, Mysore	2	Maharaja Institute of Technology, Thandavapura MITT	2
Name	Faculties Committed								
ATME, Mysore	6								
K. S. School of Engineering & Management, Mysore	2								
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	<table border="1"> <tr> <td data-bbox="296 185 1010 286">Maharaja Institute of Technology, Mysore MITS</td> <td data-bbox="1010 185 1388 286">2</td> </tr> <tr> <td data-bbox="296 286 1010 387">AD-NANO Technologies, Mysore</td> <td data-bbox="1010 286 1388 387">(need based)</td> </tr> <tr> <td data-bbox="296 387 1010 488">Renalyx Health Systems Private, Limited, Mysore</td> <td data-bbox="1010 387 1388 488">(need based)</td> </tr> </table> <p data-bbox="296 544 730 577">Total Manpower Requirement: 12</p> <ul data-bbox="347 600 901 745" style="list-style-type: none"> <li>● Professors/Faculty - 7</li> <li>● Research Scholars/Technicians/SME - 3</li> <li>● Lab Assistant/Contractors - 2</li> </ul>	Maharaja Institute of Technology, Mysore MITS	2	AD-NANO Technologies, Mysore	(need based)	Renalyx Health Systems Private, Limited, Mysore	(need based)
Maharaja Institute of Technology, Mysore MITS	2						
AD-NANO Technologies, Mysore	(need based)						
Renalyx Health Systems Private, Limited, Mysore	(need based)						
18.	<p data-bbox="296 768 1388 902"><b>Availability of suitable infrastructure, such as uninterrupted supply of utility like electricity, water, sanitation, internet connection etc and availability of guest house to host visiting national users to utilize the facilities, if any.</b></p> <p data-bbox="296 925 997 958">The following are available at ATME Mysore Campus:</p> <p data-bbox="296 981 1388 1126">Electricity, Water, Sanitation, Internet Connection, Guest house, proximity to Bangalore airport, availability of qualified people to handle and manage the R&amp;D facility in the campus.</p> <p data-bbox="296 1149 1388 1227">ATME is equipped with labs, discussion rooms, AC conference rooms, audio visual instruments etc. to handle the visitors and other dignitary's meeting needs.</p>						
19.	<p data-bbox="296 1249 1388 1496">Plan for a skill development and capacity building including involvement of research scholar, post-doctoral fellows, start-ups, MSMEs and if necessary to ensure that such Facilities would be available at least 80% of the operational hours (Working Time of 24 x 7 basis in three shifts daily) to the External Users and remaining 20% of the Time would be made available for Internal Users.</p> <p data-bbox="296 1574 922 1608">Capacity Building will have the following phases</p> <ul data-bbox="347 1630 1388 1816" style="list-style-type: none"> <li>● Build Phase - It's a precursor for space capacity building to establish the governance model for Center of Innovation</li> <li>● Grow – Extending the infrastructure and focussed development</li> <li>● Sustain – Enhance the capacity building to a sustainable maturity quotient</li> </ul>						

Objective - Establish Space Capacity Building to enable R&D, hands-on-training to apply the concepts learned in the classroom sessions with necessary infrastructure available to complete the learning objectives, thereby ensuring the availability of the talent pool to ensure the continuity of the program.

The workforce development has the following elements within the current framework

- Training Methodology
- Training - Space System Engineering
- Training Approach

The above process is further detailed in the **Annexure D**

20. **Earlier trend and present stages of planning to have dedicated sections for fabrication work, rapid prototyping, material testing, characterization, new device fabrication, smart manufacturing and characterization facilities etc., to attract and help R&D labs, industrial R&D, MSME, Incubators and Start-ups, etc.**

The following are the areas where the applications of Space Technologies, Biomedical devices coupled with the Nanomaterials will have a huge impact in the future.

- Small Satellites - Small Satellite Modules | Secure Communications - Quantum
- Advanced Communications - Ultra-Flat Interference-Free Antenna | Decentralize Processing Power for Ground Stations
- Space Traffic Management - Satellite Relics | Low-Cost Active Debris Removal Technology - computer vision, AI, and the Internet of Things (IoT)
- Space Activity Management - Space Station Network | In-Orbit Satellite Servicing
- Space Missions - Visualize the Lunar Environment using AI/AR/VR | In-Situ Resource Utilization Technology for Lunar & Martian Missions
- Space Mining - Satellites for Asteroid Mining | Space-based Cameras for Asteroid Mining

	<ul style="list-style-type: none"> <li>● Low-Earth Orbit Satellites - Decentralized LEO Satellite Inspection   Optical Telecommunication Service for LEO Satellites</li> <li>● Space Data - Bespoke Space Data   Satellite Tracking &amp; Space Intelligence</li> </ul>
21.	<p><b>Trend and practices of the Lead / partner organization(s) to interact with various industry associations such as PHD Chamber of Commerce, CII, FICCI, ISBA, MSME associations etc., to sensitize and foster the overall growth and usage of available facilities by different Industries, MSME, Start-ups, Incubators etc. Kindly furnish the below documents, if available.</b></p> <p>MOU and Collaboration Details are done towards the end of the document</p>
22.	<p><b>Willingness and strong assertion to formulate / incorporate a Section 8 company, aiming for self-sustainable model, involvement/ recruitment of technical experts, earning structure, operational flexibility will have one operational head/ Managing head. The Operational Head / Managing head (non-faculty appointee) of SATHI facility, a few scientists and other technical staffs for running the SATHI would be appointed through a separate identity created in form of Section-8 company.</b></p> <p>We firmly believe in the willingness and strong commitment to establish and incorporate a Section 8 company. Our primary objective revolves around creating a self-sustainable model that encompasses the active participation and recruitment of technical experts. Furthermore, we are dedicated to designing an earning structure that ensures financial stability while maintaining operational flexibility.</p> <p>As part of this vision, we also intend to appoint a dedicated operational head or Program Head to ensure streamlined management and effective execution of our initiatives. This approach aligns perfectly with our vision and determination to foster a successful and impactful venture.</p>

Information submitted as above are true and correct. *The above proposal to set-up SATHI center at the Lead organization / institute ATME Mysore is fully aware of and understood the "Terms and Conditions" of SATHI -DST and these "terms and conditions" are being endorsed by the Governing council or Senate of the Lead Institute / University/ R&D Organization.* Lead / Host institute / R&D Centre /partner organization is fully aware of the funding as well networking /cluster mode of application / SATHI proposal implementation i.e., the funding pattern & its mode

will be maintained at 75:25 ratios. DST share would be 75% and the management of the Government / Non-Government Grantee Institute / R&D center / lead & partner organization(s) share would be 25% of the total sanctioned cost of SATHI project for four years. The share of 25% (of total sanctioned amount) will be contributed by the Lead / partner organization(s) from its own income sources and not from diverting the funds available with HI under the Grant-in-aids received from other Department of Government of India or from the CFI, GoI. In case these are found otherwise, the proposal and the claim thereof would be withdrawn by the sponsoring agency.

#### Annexure A: Project Objectives

The key objectives of the ATME SATHI project include the following:

**Networking of Academic Institutes and Industries:** Academics/Researchers from various academic institutes will collaborate by providing shared space, resources, and infrastructures. This will include the organization of events and the creation of online communities. This networking platform allows Academicians/researchers to join hands by encouraging each other to work on interdisciplinary projects, enhancing and exchanging their knowledge and ideas. The online community platform can help researchers to have an update on funding and research grant information for their projects. This platform can also serve as a resource hub by connecting researchers with funding agencies for receiving guidance on project applications and any other assistance towards project management and reporting. Overall, this platform can help the academician/ researcher nurture their talent, enhance their professional growth, and provide a supportive environment towards academic advancement.

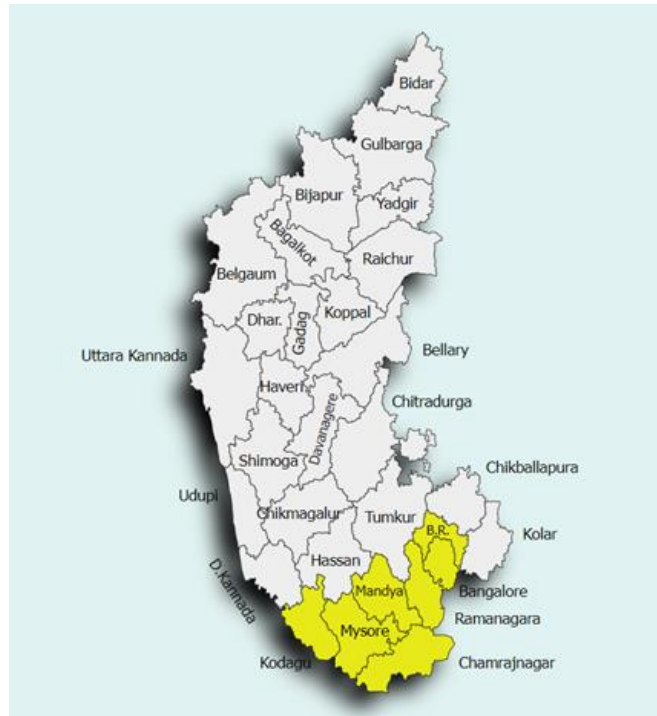


Figure 2: Potential Areas of Networking between Educational Institutes

**Student Project support:** offering a dedicated space with the project

- UG/PG/PhD students from different Academic institutes/ can incubate their projects and receive guidance from the available mentors and experts. It also provides access to specialized laboratories, equipment, tools, software, and other needs for successfully completing their projects. Programmes like workshops, hands-on training programmes, seminars, and technical skill development will be offered to students to enhance their skill development to meet industrial standards. Students will be motivated to locate and get funding sources for their projects by providing information about grants, scholarships, or contests open to them and aiding them in creating project proposals and application materials. Students will be fostered with a multidisciplinary approach by encouraging them to perform interdisciplinary projects viz., collaboration with students from diverse academic disciplines. Provision will be made for students to showcase their projects and present their findings by organizing events like project exhibitions, conferences and student development programmes. Conclusively students will be facilitated to work collaboratively with industry partners to gain exposure to real-world challenges, apply their theoretical knowledge to gain practical experience and develop the need for industry-relevant skills. Overall, the goal of student project support under

the SATHI Proposal request is to empower students, promote their creativity, and give them the resources and support they need to carry out meaningful and significant projects. The plan seeks to foster a culture of entrepreneurship, problem-solving, and critical thinking among the student community by fostering student-driven innovation.

**Incubation and Startups:** Incubation and startups go hand in hand, as incubators play a crucial role in nurturing new entrepreneurs. As an incubator centre, the startups will be offered office space, utilization of resources, equipment, and utilities, thereby reducing their financial burden. These startups may concentrate on developing their products and validating their data. Since the incubator is connected to numerous academic institutions and business sectors, it can supply mentors who can impart their expertise and offer their invaluable insights to new entrepreneurs. Most investors anticipate incubator-backed firms; this will be useful for emerging business leaders who want to quicken their growth trajectory. creating an environment that supports the growth and incubation of technology-driven businesses. Giving access to resources for business development, networking opportunities, finance, and mentoring may fall under this category. Entrepreneurs' knowledge will increase through the educational options provided by the incubation centre, such as workshops, practical training sessions, and seminars. The co-partnered industries of the incubation centre can extend their hands in supporting the startups by assisting with market research, product development, marketing strategies, legal and administrative processes.

**Collaboration with Industry:** Encouraging collaboration between academic institutions and businesses to close the knowledge gap between theory and applications. This may entail inviting business leaders to speak as guest lecturers, making internships and business projects available to students, and supporting collaborative research projects with business partners.

**Training and Skill Development:** conducting workshops and training programmes to improve researchers' and students' technical and research abilities. Workshops on research methodology, data analysis, scientific writing, and other crucial abilities required for academic achievement can be included in this.

**Knowledge Sharing and Dissemination:** Organizing seminars, conferences, workshops, and symposiums within the hub to facilitate the sharing of research findings, best practices,



and emerging trends. This can create a vibrant academic community where scholars can learn from each other and stay updated with the latest developments in their respective fields.

**Innovation and Entrepreneurship Support:** Support innovation and entrepreneurship in the application domain. This objective involves offering mentorship, incubation facilities, and business development resources to aspiring entrepreneurs and startups focused on application development. It aims to foster an entrepreneurial culture that transforms promising ideas into sustainable ventures.

- o **Knowledge Sharing and Dissemination:** Facilitate knowledge sharing, collaboration, and networking within the application community. This objective includes organizing conferences, workshops, and seminars to exchange best practices, share experiences, and disseminate research findings related to application development, implementation, and impact assessment.
- o **Social Impact and Sustainability:** Promote the development of applications that have a positive social impact and contribute to sustainability goals. This objective involves encouraging the creation of applications that address societal challenges, promote inclusivity, enable environmental sustainability, and enhance the quality of life.
- o **Funding and Grants:** Assist application developers and researchers in identifying funding opportunities and securing grants to support their projects. This includes providing guidance on grant applications, connecting with funding agencies, and facilitating access to financial resources for application development and implementation

**Policy and Regulatory Considerations:** Address policy and regulatory considerations related to application development and deployment. This objective involves understanding and navigating legal and ethical frameworks, privacy, and data protection regulations, and ensuring compliance with relevant standards and guidelines.

The focus areas are presented in the current proposal. We have listed priority areas in each and indicated the focus areas.

- Satellite Operations and Applications
- Space Operations and Ground Segment
- Material Science
- Biomedical Technologies

Satellite Operations	Ground Station and Operations	Material Science	Biomedical Technologies
Satellites Subsystems	High Receiving Ground Stations	Spacecraft Design and Construction	Space Medicine and Human Health
Interplanetary Missions	Space Situational Awareness (Space Debris)	Thermal Protection Systems	Countermeasures for Space-related Health Issues
Space based Antenna Trans receivers		Radiation Shielding	Radiation Protection
Manufacturing & AIT		Energy Storage	Psychological Well-being
		Super capacitors	Space Motion Sickness
		Space Biosensors	Medical Equipment and Telemedicine
		Space Suits	Microbial Studies
		Solar Panels	Life Support Systems
		In-Space Manufacturing	
		Structural Integrity and Longevity	

## Appendix B: Equipment Budget

Equipment Type	Name of the Equipment /Product/Service	Specifications	Justification	Budgetary Cost (in lacs)	GST (18%)	Customs (5%)	Total (in INR lacs)
Space Infrastructure	CubeSat	0.5 U	Tech Demonstration	100.00	18.00	0.00	118.00
Space Infrastructure	P30 NanoSat - Hosted 2kg	27U NanoSat & subsystems	Tech Demonstration	300.00	54.00	0.00	354.00
Space Infrastructure	Ground Station - Antenna - Crossed Yagi-Uda	VHF 135MHz, UHF 470 MHz	Ground Station Infrastructure	50.00	9.00	0.00	59.00
Space Infrastructure	S&X Ground Station	3.8 meter, S& X Band, X/Y Solid	Ground Station Infrastructure	150.00	27.00	0.00	177.00
Space Infrastructure	PDOT:: Sub-System EMs (ADCS, EPS, OBC etc.)	0.5U/1U CubeSat Engineering Models	Satellite Bus Modelling	30.00	5.40	0.00	35.40
Space Infrastructure	Helm Holtz Cage along with gyroscope		Testing and Validation	75.00	13.50	0.00	88.50
Space Infrastructure	Airbearing table for ADCS characterisation		Testing and Validation	50.00	9.00	0.00	59.00
Space Infrastructure	ESD equipment		Testing and Validation	25.00	4.50	0.00	29.50

Space Infrastructure	Oscilloscopes - Probing instruments including oscilloscopes, logic analysers, spectrum analyser, network analyser etc		Design and Development	25.00	4.50	0.00	29.50
Space Infrastructure	Vibration & Shock Facilities (Shaker tables)	Saraswati Dynamics   4 ton table   SRS table	Testing and Validation	150.00	27.00	0.00	177.00
Space Infrastructure	Soft wall clean room	(Class 10000) for 750 sft	Flight Model Assembly Area	150.00	27.00	0.00	177.00
Space Infrastructure	High-end workstations	3D CAD structural and thermal analysis Electronic design - 3 systems	Design and Development	25.00	4.50	0.00	29.50
Space Infrastructure	Software Simulators	3D CAD structural and thermal analysis, electronic design	Design and Development	120.00	21.60	0.00	141.60
Space Infrastructure	Laminar flow benches	(connected with Clean Room)	Design and Development	80.00	14.40	0.00	94.40
Space Infrastructure	STK (Satellite ToolKit) software suite for mission	STK tool for simulations for orbital simulations	Design and Development	180.00	32.40	0.00	212.40

	analysis and visualization						
Space Infrastructure	Thermovac Chamber	2.0 mtr dia. x 2.0 shell length cylindrical chamber	Testing and Validation	250.00	45.00	0.00	295.00
Space Infrastructure	Sun Simulator		Testing and Validation	250.00	45.00	0.00	295.00
Training & Orientation	Space System Engineering - 1	Foundation topics	Learning Objectives	25.00	4.50	0.00	29.50
Training & Orientation	Space System Engineering - 2	Intermediate topics	Learning Objectives	20.00	3.60	0.00	23.60
Training & Orientation	Space System Engineering - 3	Advanced topics	Learning Objectives	25.00	4.50	0.00	29.50
Space Infrastructure	ROO Observatory - 3	The 16-inch telescope with a 16-megapixel monochrome CCD	Learning Objectives	380.00	68.40	19.00	467.40
Material Science Equipment	Hitachi TEM	Model HT7800	Research and Development	429.21	77.26	21.46	527.93
Material Science Equipment	NT-MDT Spectrum Instruments SPM System model	SOLVER NANO(AFM)	Design and Development	65.80	11.84	3.29	80.93

Material Science Equipment	Schottky Model	SU5000 FE-SEM	Design and Development	257.67	46.38	12.88	316.94
Material Science Equipment	SmartLab SE / SmartLab SE	3KW (Single Phase) HRXRD System	Design and Development	130.00	23.40	6.50	159.90
Material Science Equipment	Multichannel Electrochemical System-1No	Model : MP1 3Ch	Design and Development	28.61	5.15	1.43	35.19
Material Science Equipment	Pin on Disc Tribometer and other setup	Normal Load, 1000N, 2000RPM, Environment Chamber Lubrication Module, Pin Heating Module	Design and Development	13.62	2.45	0.68	16.75
Material Science Equipment	Cryogenic Processor	LN2 Treatment Chamber, Controllers, Piping , Valves,CN2 Tank 240L	Design and Development	8.91	1.60	0.00	10.51
Material Science Equipment	Microwave Digestion System Model	KJMD-6T Manufacturer: Kejie Instruments	Design and Development	12.57	2.26	0.63	15.46
Material Science Equipment	Fluorescence Spectrometer	Model FL970 - Techcomp Hong Kong	Design and Development	16.78	3.02	0.84	20.64
Material Science Equipment	Gas Chromatograph Netel	Chrom Plus 3220 with	Design and Development	13.08	2.35	0.65	16.08

	Advance Micro Controller Based Gas Chromatograph Series	Dual FID and others					
Material Science Equipment	Double Beam UV-VIS Spectrophotometer	Model Ultra 3660 Dionamix Canada	Design and Development	5.20	0.94	0.26	6.40
Material Science Equipment	Quaternary HPLC System Manufacturer	Dionamix Scientific Inc., Canada	Design and Development	16.45	2.96	0.82	20.24
Material Science Equipment	HPLC Binary System	Model LC10 T-Survit technologies Inc	Design and Development	13.67	2.46	0.68	16.82
Material Science Equipment	FTIR Spectrophotometer	Model: WQF-530 - Features:	Design and Development	16.78	3.02	0.84	20.64
Material Science Equipment	Automatic Surface Area & Porosimeter Analyzer Model	EASY-V 1220	Research and Development	27.52	4.95	1.38	33.85
Material Science Equipment	Portable natural gas chromatograph	Part no 72107 model LX-3100N	Research and Development	34.87	6.28	1.74	42.89
Material Science Equipment	Spray Particle Size Analyzer	Winner319	Research and Development	20.98	3.78	1.05	25.80
Material Science Equipment	Bench top Model Application	ULTRA PURE WATER PURIFICA	Research and Development	5.70	1.03	0.29	7.01

		TION SYSTEM MODEL EX-1101-P HPLC GRADE					
Material Science Equipment	Green Fume Hood	GFH 4200 - ERLAB	Research and Developme nt	27.68	4.98	1.38	34.05
Material Science Equipment	UV-VIS Spectrophot ometer	TRUE DOUBLE BEAM INSTRUM ENT WITH VARIABL E SPECTRA L BAND WIDTH 0.5 nm TO 5nm Automatic 8 Cell Changer Model : UV 3092	Research and Developme nt	11.18	2.01	0.56	13.75
Material Science Equipment	ALPHA-P, FT-IR Spectromet er with Platinum- ATR	QuickSnap Sampling Module	Research and Developme nt	22.00	3.96	1.10	27.06
Material Science Equipment	MUFFLE FURNACE		Research and Developme nt	1.21	0.22	0.06	1.48
Material Science Equipment	1150°C Tubular Furnace		Research and Developme nt	2.51	0.45	0.13	3.08



Material Science Equipment	Chemical Vapor Deposition Unit		Research and Development	20.00	3.60	1.00	24.60
Material Science Equipment	super critical fluid SETUP		Research and Development	50.00	9.00	2.50	61.50
Material Science Equipment	Glove Box		Research and Development	20.00	3.60	1.00	24.60
Material Science Equipment	Ball Milling		Research and Development	20.00	3.60	1.00	24.60
Material Science Equipment	Cryogenic Processor		Research and Development	8.91	1.60	0.00	10.51
Material Science Equipment	Nano material and EMI shielding working instrument		Research and Development	288.50	51.93	0.00	340.43
Bio Medical Equipment	Portable EEG Device		Research and Development	25.00	4.50	1.25	30.75
Bio Medical Equipment	Brain Computer Interface (BCI) with Virtual Reality (VR)		Research and Development	30.00	5.40	1.50	36.90
Bio Medical Equipment	Mind Tracker BCI – Bands		Research and Development	15.00	2.70	0.75	18.45

Bio Medical Equipment	20/32 Channel Neurostimulator		Research and Development	20.00	3.60	1.00	24.60
Bio Medical Equipment	Portable fNIRS device		Research and Development	15.00	2.70	0.75	18.45
Bio Medical Equipment	iMedilogger – Multi Parameter Devices		Research and Development	20.00	3.60	1.00	24.60
Bio Medical Equipment	Computer and Server	i5/i7 processor, 1TB RAM, 1 TB Disk Drive	Research and Development	24.61	4.43	1.23	30.27

Vertical	Estimates (in lacs)
Bio Medical Equipment	184.02
Material Science Equipment	1939.64
Space Infrastructure	2845.20
Training & Orientation	82.60
Total	5051.6

### Appendix C: MOUs and other Industrial Partnerships

## **Institutional MoUs and Activities**

Memoranda of Understanding (MOUs) play a crucial role in educational institutions by establishing formal agreements between different parties. These agreements help to define the terms and expectations of collaboration, partnership, or joint efforts between institutions, organizations, or individuals. Here are some reasons why MOUs are important in educational institutions:

1. **Enhanced Collaboration:** MOUs facilitate collaboration between different academic institutions, research centers, or organizations. These collaborations can lead to the exchange of ideas, expertise, and resources, ultimately enriching the academic and research environment.
2. **Interdisciplinary Research:** MOUs can promote interdisciplinary research by fostering collaborations between departments or institutions with different areas of expertise. This cross-disciplinary approach often results in innovative solutions to complex problems.
3. **Access to Resources:** Educational institutions can use MOUs to gain access to specialized facilities, equipment, and resources that might not be available on their own campus. This enables researchers to conduct more advanced and comprehensive studies.
4. **Joint Research Projects:** MOUs can outline the terms of joint research projects between institutions. Researchers from different institutions can pool their skills and knowledge to work on projects with larger scopes and potentially greater impact.
5. **Funding Opportunities:** Collaborative research efforts established through MOUs may attract more funding opportunities from government agencies, private foundations, or industry partners. A stronger research partnership can make institutions more competitive in grant applications.
6. **Publication and Dissemination:** MOUs can establish guidelines for publishing and disseminating research outcomes. This can help resolve potential conflicts over authorship, intellectual property rights, and data sharing.
7. **Faculty Exchange and Visits:** MOUs can facilitate the exchange of faculty members for teaching or research purposes. This exposure to different teaching and research methodologies can enhance the quality of education and research in both institutions.
8. **Student Involvement:** MOUs can provide students with unique research and learning opportunities through collaborative projects. This can expose students to different perspectives and methodologies, contributing to their academic growth.
9. **Access to Networks:** Collaborative efforts established through MOUs can broaden the network of researchers, scholars, and experts that an institution can connect with. This network can lead to more opportunities for collaborative research and academic exchange.
10. **Global Reach:** MOUs between international institutions can help educational institutions expand their global reach. Collaborations with institutions from different countries can lead to a broader understanding of global issues and solutions.
11. **Research Mobility:** Researchers may benefit from the opportunity to work in different environments through MOU-enabled collaborations. This mobility can lead to fresh insights and increased research productivity.
12. **Long-Term Strategy:** MOUs can be part of an institution's long-term strategy for research and academic development. They can outline a roadmap for achieving specific research goals and objectives.

13. Recognition and Reputation: Successful collaborations facilitated by MOUs can enhance the reputation of an institution within the academic and research community. This recognition can attract talented researchers and students.
14. Overall, MOUs serve as a mechanism to formalize and structure partnerships that advance research and academic pursuits. They provide a framework for cooperation, resource-sharing, and innovation that can lead to significant contributions to the academic world and society at large.

The List of Educational Giants , Industries and Other Institutions with which the ATME College of Engineering has signed an MoU are in the Table 1

Table 1: List of MoU signed institutions and the activities conducted

SL. NO.	INSTITUTE LEVEL MoU	Year of signing MoU	No. of Activities Conducted			
			AY 2022-23	AY 2021-22	AY 2020-21	AY 2019-20
1	Renalyx	2017-18 2022-23	2	1		
2	IIT, Bombay	2018-19			5	8
3	IIT, Guwahati	2020-21		2	1	1
4	Aspire For her(NGO),Bombay	2021-22 2022-23	2	4		
5	Mysuru Consulting Group[MCG]	2021-22	1	1		
6	Clear Medi Radiant Hospital	2022-23				
7	Dhruva Space	2022-23	2			
8	Vinyas Innovative Technologies Private Limited	2022-23	1			

9	Dr.Andal's Lakshmi Fertility Research & Laproscopic Surgical Centre,Nellore,AP	2023-24				
10	ADNANO Technologies Private Limited, Shimogha	2023-24	1			
11	Intellect Bastion, New Delhi	2020-21 2023-24	3	3	3	

- Renalyx Health Systems is a healthcare company specializing in comprehensive renal care, and dialysis treatment. Renalyx Health Systems is actively using 19 technologies for its website, according to BuiltWith. These include Viewport Meta, iPhone / Mobile Compatible, and SPF. The intellectual property of Renalyx Health Systems includes 4 registered patents primarily in the 'Medical Or Veterinary Science; Hygiene' category.
- Teachers need to constantly upgrade themselves to learn about advances in their domain, and to understand the best practices for facilitating the best possible learning. IIT Bombay, through a decade-long effort in using Technology to offer high-quality training/ orientation programs for teachers. The FOSSEE project (supported by the National Mission on Education through ICT) along with the Spoken Tutorial Project, based at IIT Bombay conducts online workshops using a blended approach. These workshops are conducted using a mix of pre-recorded spoken tutorial videos with side-by-side learning and live lectures. This allows participants to complete a significant part of training online, thus reducing the time that must be spent on face-to-face engagement. T10kT 'Train 1000 Teachers' programme was initiated by IIT Bombay in 2009, under the project 'Empowerment of Students/Teachers,' sponsored by the National Mission on Education through ICT (MHRD, Government of India). The main focus of this program is to work with Engineering Colleges in the country to enhance the teaching skills of faculty in core Engineering and Science subjects. This project attempts to address a critical subset of important issues and adopts an approach to address these utilizing modern technologies. It uses an ICT-enabled process involving both synchronous and asynchronous modes to actually reach out and engage a large

number of teachers, and through them, a much larger number of students. Indeed, actual involvement of these important stakeholders in the entire process, scaled to very large numbers using ICT, can be said to be a major contribution of the project.

- The Indian Institute of Technology Guwahati, the sixth member of the IIT fraternity, was established in 1994. The academic programme of IIT Guwahati commenced in 1995. At present, the Institute has eleven departments and three inter-disciplinary academic centers covering all the major engineering, science and humanities disciplines, offering BTech, BDes, MA, MDes, MTech, MSc, and Ph.D. programmes. Within a short period of time, IIT Guwahati has been able to build up world-class infrastructure for carrying out advanced research and has been equipped with state-of-the-art scientific and engineering instruments. MeitY has sponsored a scheme entitled "Scheme of Financial Assistance for Setting up of Electronics and ICT Academies". Electronics and ICT Academy would aim to provide specialized training to the faculties of Engineering, Arts, Commerce & Science colleges, Polytechnics etc., by developing state-of-the-art facilities. Academy has planned short-term training programs on fundamental and advanced topics in IT, Electronics and communication, Product Design, and Manufacturing with hands-on training and project work using the latest software tools and systems. In addition, the Academy will conduct specialized/customized training programs and research promotion workshops for the corporate sector and educational institutions. It is envisaged that the Electronics and ICT Academy will become a central hub of activities on training, consultancy work and entrepreneurship programs.
- Aspire for Her is a gender-diversity movement, and the company uses the power of communities to enable women to enter, persevere and thrive in the workforce. In doing so, the company aim to uplift the economy. To help women become financially independent.
- Mysuru Consulting Group delivers business-enabling innovative, high-quality solutions to their clients across a wide spectrum of industries and functions and specializes in using Big Data Analytics and Artificial Intelligence towards this end. They are based in Mysuru, the city of heritage structures and palaces renowned for being one of the cleanest cities in India. Mysuru is also home to the centuries-old Devaraja Market, filled with spices, silk, and sandalwood. What's less known is the fact that Mysuru is fast becoming the next IT and Innovation hub in Karnataka with software exports exceeding that of many other states in India. With its proximity to India's Silicon Valley Bengaluru and the state government's focus on making it a premier start-up hub, they couldn't have had a better Launchpad than Mysuru.

- ClearMedi Healthcare is a rapidly expanding healthcare services organization, providing excellent healthcare treatments across India. With over 4 independent Super Specialty Hospitals in Delhi NCR and Mysore region of India and 15 partner hospitals focused on Oncology and tertiary care, ClearMedi Healthcare aims to become a leading healthcare organization and cater to the underserved sections of society as well.
- Dhruva Space Private Limited is a National Award-winning space technology company focused on building full-stack space engineering solutions. The company is based out of Hyderabad, India, and is actively building application-agnostic satellite platforms. Dhruva Space offers Satellites coupled with Earth stations and Launch services as an integrated solution or individually as a technology solution to power Space-based applications, on Earth and beyond. The founding team are business and technology leaders, who formerly worked with Exceed Space, AMS AG, Cisco, and KPMG. The whole team sees close to 60 members, from a variety of backgrounds: engineering, business development, research, marketing, legal, and more.
- Dr. Andals Lakshmi Fertility Clinic is the Best Infertility Center located in Nellore. It offers treatments for Antenatal, Gynaec and Infertile couples. The treatment is based on the notion that emotions play a vital role in the process. Renowned as a top fertility clinic, it proudly hosts exceptional infertility specialists offering world-class treatments—distinguishing them from their peers across India. The center's expertise also extends to addressing various gynecological concerns, as their ultimate goal is to provide enhanced service and care to all.
- Incorporated in 2001, Vinyas Innovative Technologies is a leading provider of design, engineering and electronics manufacturing services catering to global Original Equipment Manufacturers and Original Design Manufacturers in the Electronic Industry. As an integrated electronic manufacturing services provider, Vinyas has offered a broad range of products and services across multiple industry segments for about 20 years. With wide industry knowledge, cutting-edge technologies & state-of-the-art infrastructure, Vinyas supports its Global partners from conceptualizing the design, engineering, and manufacturing to turnkey requirements for mission-critical applications. Continuously investing in strengthening its design and manufacturing expertise, Vinyas is identified as a game changer in EMS industry for its innovative and in-house path-breaking solutions to complex manufacturing processes. Focusing on quality, integrity and hard work, Vinyas has not only established a Global network of suppliers and customers but also created a long-lasting partnership to accelerate a One-stop-shop solution to all its customer worldwide. Vinyas is the preferred partner for the Global OEMs and ODMs by offering end-to-end solutions ranging from Design for Manufacturability, Supply Chain Management, PCB assembly, advanced test solutions, Product Integration and after-market support.

- Founded in the year 2013 and located in Shivamogga, Karnataka, India, the company is engaged in the manufacture of nanomaterials. AD-NANO Technologies operates as a manufacturer and sales representation entity, committed to introducing innovative systems in the realm of technology. The company also plays a pivotal role in Research and development programs through the integration of nano-technology. By seamlessly incorporating nano-technology into various aspects of their customers' lives, the company bridges the gap between inspiration and innovation, offering solutions to engineering and technical challenges and advancing technology to the next level. Additionally, AD-NANO Technologies produces conductive inks such as Carbon nanotubes conductive ink, Graphene conductive ink, and Graphite conductive ink, which find extensive applications in industrial sectors as well as in research and development endeavors.
- Intellect Bastion IP operates as a quality-driven Intellectual Property Research, Analytics, and Consultation firm. For those seeking a complete and expedited monopoly over their innovations while driving significant economic value, the firm offers a comprehensive range of solutions and services. Innovators, Innovative Start-Ups, Small Entities, Educational Institutions, and Corporations can benefit from their expertise. At Intellect Bastion IP, clients receive support throughout the entire patent lifecycle. The firm assists with analytical monitoring, patenting, and the commercialization of inventions. Their services also encompass Patent Research and Analytics, IP Management Services, Trademarks, Copyrights, Design Registrations, and IPR Trainings. Intellect Bastion IP's dedication lies in helping clients unlock the full potential of their intellectual property. Collaborative opportunities are available for those interested in embarking on innovative journeys. Interested parties are encouraged to contact Intellect Bastion IP to explore potential collaborations and the ways in which their intellectual property can be optimized.



## Appendix D:

### Centre of Innovation - Governance Model: Critical Success Factors

As a key to success, every Center of Innovation should have a set of clearly and concisely defined guiding principles that will provide its direction and focus. We suggest these five areas as a starting point for establishing and successfully evolving a CoI:

S. No	Success Attributes	Tangible Outcome	Examples
1	Standardization	Credible features during design, development, QA, technical architecture maintenance, program coding standards, project and resource planning	Roadmap for space programs, Re-usable components list for subsequent missions, lessons learned and best practices checklist, product design review documents, testing criterion, project management templates, checklist documents etc.
2	Leveraging assets	Assets include physical, intellectual, human, professional relationships, artifacts etc.	Physical lab and equipment, Payloads, teams, partners etc.
3	Measuring performance	Ability to track, measure and report performance of the program initiatives all the time.	KPIs, periodic audits based on process improvement standards

4	Guidance and governance	Project acceleration and risk mitigation using reusable components and proven practices. Project governance framework to help stakeholders understand their roles and their utility in the process	Governance model, continuity plan in case of a contingency, steering committee meetings, change control board mandates etc.
5	Balanced team and subject matter experts	Have a balanced SMEs mix in the team to prevent under / over utilization of team members	Competency matrix at all levels and training/hiring/remediation plan

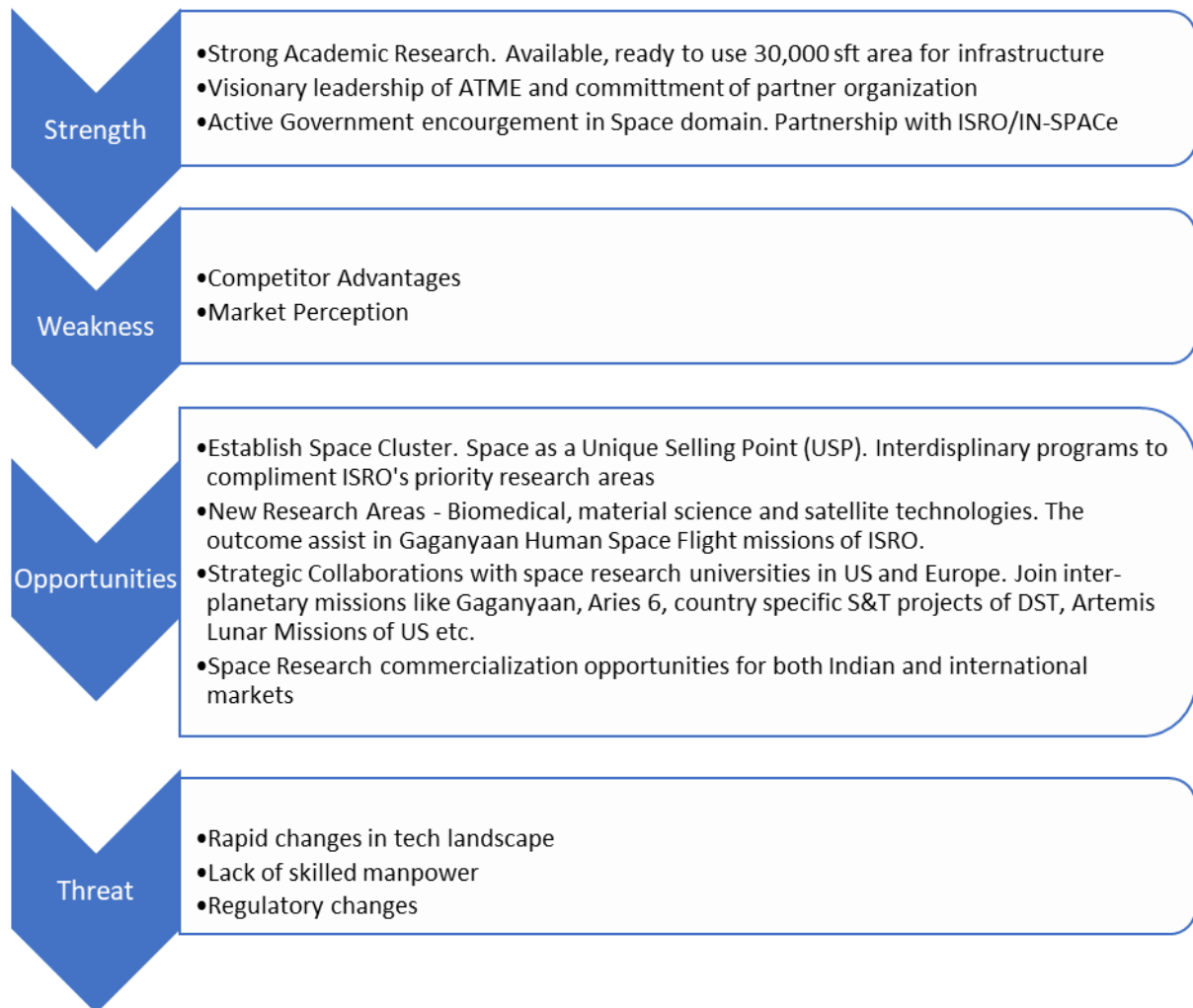
### Key Deliverables

The delivery structure is based on the inputs as part of the 6P-5R framework

S. No	6P Attribute	Deliverables	Measurement Criterion/ Remarks
1	People	-Governance Model   PMO -Skill Matrix -SME Pool -Onsite Resource (Full time   Part time   Adjunct faculty)	-Skill Matrix - target vs actual -Personnel utilization - budgeted vs utilized -Measurement - Faster and cheaper

2	Process	<ul style="list-style-type: none"> <li>-Program Calendar</li> <li>-Project Methodologies</li> <li>-Development standards. E.g for CubeSat, Structures (MIL-8625 Type-III Class-I standards), CCSDS standards, Vehicle launch standards</li> </ul>	<ul style="list-style-type: none"> <li>-Training programs and learning needs</li> <li>- PMMS methodology Level 1-2-3</li> <li>-Measurement - Better</li> </ul>
3	Product	<ul style="list-style-type: none"> <li>-Biomedical Virtual Assembly (engineering model)</li> <li>-Sub Systems - EPS, ADCS, OBC, TT&amp;C</li> <li>-Ground Station - VHF/UHF</li> <li>-Development Tools   Simulators</li> </ul>	<ul style="list-style-type: none"> <li>-Remarks - Create Space Assets</li> <li>-Tools - Using content management tools to measure the efficiency and productivity</li> <li>-Measurement - Faster, Better</li> </ul>
4	Proliferation	<ul style="list-style-type: none"> <li>-CubeSat, Material Science standards, Ground Station Best Practices, Biomedical devices</li> </ul>	<ul style="list-style-type: none"> <li>-Remarks - Create a checklist of best practices and its application</li> <li>-Measurement - Better execution of projects, Steadier outcome</li> </ul>
5	Patent	<ul style="list-style-type: none"> <li>-Facilitate in patent filing/proposal building with ATME acting as Principal Investigator (PI)</li> </ul>	<ul style="list-style-type: none"> <li>-Measurement - -No of patents/proposals filed vs approved. Better</li> </ul>
6	Promotion	<ul style="list-style-type: none"> <li>-Collaboration opportunities with Univs within India and abroad</li> <li>- Encouraging to participate in international workshops and competitions</li> </ul>	<ul style="list-style-type: none"> <li>-Measurement - Larger impact on the branding initiatives</li> </ul>

## SWOT Analysis



## Workforce Development

The workforce development has the following elements within the framework

- Training Methodology
- Training Topics – Space System Engineering
- Training Approach

## **Training Methodology**

Learning design: Student (Faculty) outcome-led design (SOLD). A learning design model to structure our modules and provide consistency and a clear student journey.

1. Pedagogical approach: Participatory. This approach builds knowledge, skills, and competencies valued in the industry through active engagement with learning content, engagement among learners, engagement with industry networks, within the VLE, and openly on the Web.
2. Educator roles: Online presence. Tutoring and facilitating presence online from the beginning of the module, including teaching presence, social presence, and cognitive presence, to create a holistic supported learning environment.

Defining the competence level of the program users (encompassing both facilitator and end-users) is key in identifying which stages of the program are deemed relevant for the user. It might also be the objective to take users through several stages or all - depending on objectives and budget. Below is a table outlining user competence levels to later match them with the ideal program stage(s):

## **Training Program Stages**

### Part 1 Objectives

- Demonstrate understanding of systems engineering approach
- Demonstrate understanding of the overall mission lifecycle
- Understand the functions of various subsystems and instruments
- Understand the development, integration, and testing

### Part 2 Objectives

- Engage students/faculty in the high-level design of a satellite bus for a novel payload and carve mini-projects in the various streams of engineering/science/mathematics
- Complete a preliminary/intermediate design of the payloads designed by space science students
- Identify methods and means of design validation/analysis

Competence Level	Profile
Level 0	Little to no experience in running or being a part of a space/satellite program. Will need much guidance and support in all activities.
Level 1	Experience in running or being part of a space/satellite program but with no satellite launched
Level 2	Experienced in running or being part of a space/satellite program with satellite(s) launched and operations competencies. Maybe also development of own payload?

### Training Topics

Foundation	Intermediate	Advanced
Introduction to Space Engineering	Spacecraft Systems	Space Project Management
Introduction Nano Materials & Applications	Autonomous Ground Systems	Space Biology
Space System Engineering	Space Bio Instrumentation	Space Law
Satellite Communications & Operations	Remote Sensing	Space Entrepreneurship
Small Satellite Engineering	Aviation Meteorology	Orbital Mechanics
AstroSociology	Space Electronics	Space Instrumentation

Introduction to Astronomy	Propulsion Systems	
Introduction to Space	Machine Learning	
Ground Systems Engineering	Space Science	
	Space Cyber Security	
	Space System Engineering	

The training topics are subjected to the following:

- Foundation Courses - They are multi-disciplinary in nature, keeping in mind the learner background. No major pre-requisites are necessary at this stage
- Intermediate Courses – They have to be taken post completion of any pre-requisite which is specific to individual course
- Advanced Courses – The learners are exposed to the larger picture and orientation will be very rigorous
- Technical Assessments are mandatory
- Certification procedure will be designed following the guidelines of the University, within the framework of UGC, AICTE, etc



**A T M E**<sup>®</sup>  
College of Engineering



Affiliated to VTU, Belagavi; Approved by AICTE, New Delhi and recognized by Government of Karnataka  
Programs accredited by NBA, New Delhi – CV, EC, EE and ME  
(Validity: 2022-23 to 2024-25)

## “Terms and Conditions”

PERTAINING TO  
SOPHISTICATED ANALYTICAL & TECHNICAL HELP INSTITUTES (SATHI)

Phone: 0821-2954081/11  
Email: [info@atme.in](mailto:info@atme.in) | web: [www.atme.in](http://www.atme.in)

📍 13th Kilometer, Mysore - Kanakapura  
- Bangalore Road, Mysore - 570028





## 1. PREAMBLE

1.1 In order to promote the usage of advanced techniques in R&D and to cope with the requirement of scientific community in the country, Department of Science and Technology (DST), Government of India is initiating the setting up of Sophisticated Analytical & Technical Help Institute (SATHI). These Centers will be equipped with high-end sophisticated instruments and smart manufacturing facilities, which normally cannot be afforded by Universities, R&D institutions, MSMEs, Start-ups, manufacturing units and industries, providing professionally managed services with open access policy, easy access and high level of transparencies under one roof and also to avoid duplication and large-scale import of equipment.


1.2 This effort is expected to reach out to much needed less endowed organizations like MSMEs, Start-ups, State Universities and Colleges fostering a strong culture of research collaboration between institutions and across disciplines to take advantage of developments, innovations, and expertise in diverse areas.


1.3 In order to ensure the efficient and effective system of operating the SATHI Centre of DST at (Institute) ATME College of Engineering the DST have reached upon the following terms and conditions. The arrangements with SATHI Centre of DST at (Institute) ATME College of Engineering will now be governed by the terms and conditions of DST and these are being executed from the date of signing of the papers of terms and conditions and as submitted by the host institute ATME College of Engineering, dated 08/29/2023. These terms and conditions will concomitantly also include GFR 2017 and other conditions of Government of India, as amended from time to time.

## 2. OBJECTIVES OF SATHI & RESPONSIBILITIES OF HOST INSTITUTES

The objectives of SATHI at ATME College of Engineering are as follows:

2.1. To provide a shared, professionally managed services and strong Science and Technology infrastructure / facilities, with efficiency, accessibility and transparency of highest order under one roof to service the demands of faculty, researchers, scientist and students of Host and User institutes / organizations (including other academic institutes, universities, national laboratories, start-ups, manufacturing and engineering industries, SME's, R&D Labs) to enable them to carry out R&D activities, on a round-the-clock basis with minimum down-time.

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2.2. To carry out analysis of samples received from the Host and User institutes, Industries. These facilities will be used for 80% of their available time by External Users i.e. out-side of the Host Institutes ATME College of Engineering and rest 20% of available time for Internal Users of the Host Institute ATME College of Engineering. The usage of the facility will be guided by the basic principle of maximum and effective utilization and accessibility to all.

2.3. To acquire and develop capability for preventive maintenance, testing and repair of sophisticated instruments.

2.4. To organize short term courses / workshops / seminars, hands-on training programme etc. on the use and application of various instruments and techniques for both External and Internal Users / Researcher and to provide the technical help and scientific knowledge to the end Users while accessing these sophisticated scientific instruments.

2.5. To train technicians for maintenance and operation of sophisticated scientific instruments and keep a record book of these people trained with various specialized equipment available with respective centres and may provide these lists while required for any other SATHI Centres for better societal outreach and utilization of these trained manpower.

2.6. To have dedicated sections for fabrication work, rapid prototyping, material testing, characterization, new device fabrication, smart manufacturing and characterization facilities etc., to attract and help R&D labs, industrial R&D, MSME, Incubators and Start-ups, etc.


2.7. To interact with various industry associations such as PHD Chamber of Commerce, CII, FICCI, ISBA, MSME associations etc., to sensitize and foster the overall growth and usage of available facilities by different Industries, MSME, Start-ups, Incubators etc.

### 3. ORGANISATIONAL STRUCTURE

3.1. The management / organisational structure shall ensure a professionally managed facility with complete autonomy of operation. The organisation structure of SATHI Centre would be having professional operation and management staff for leveraging high level of accountability, competitiveness and efficient utilisation of expensive resources.

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3.2. The SATHI centre will be run by Host Institute involvement by formulating a Governing Body (GB) and the entire day-to-day operation, maintenance, manpower recruitment of the centre will be handled by a Section 8 company structure. The GB will decide the operational aspects (a Section 8 company) for self-sustainable model, involvement/ recruitment of technical experts, earning structure and about the operation of the SATHI that can be outsourced. This model is placed as SATHI organizational structure at page 12.

3.3. There will be two tier structure i.e. a National Steering Committee (NSC) at apex level and a Governing Body (GB) at the Institute / University level for managing the SATHI Centre at respective (Institute) ATME College of Engineering.

3.4. The Governing Body (GB) for the SATHI Centre at (Institute) ATME College of Engineering will be for ensuring proper implementation and execution of different activities of the SATHI Centre as per the guiding principle and sanctioned terms and conditions of SATHI. It will consist of Head of the institute / Vice Chancellor / Director (Ex-Officio) – Chairperson, Head of SATHI Department/ Centre at the Host Institute, One eminent scientist from outside the host institute having sufficient years of sophisticated analytical instruments handling expertise, One expert from Indian Science & Technology Entrepreneur Parks' and Business Incubators' Association (ISBA), One expert from Small / Medium Enterprises Association of that Zone, as specified Ministry of MSME, Govt. of India, ([http://www.dcmsme.gov.in/list\\_associations.htm](http://www.dcmsme.gov.in/list_associations.htm)), two representatives of DST (including representative of IFD, DST) and Operational Head / Managing Head (non-faculty) of SATHI centre - Member- Secretary. The composition of the GB will be approved by the DST in consultation with the head of the Host Institute ATME College of Engineering.

3.5. The National Steering Committee (NSC) shall be chaired by Secretary, DST, with membership of the Head of the Host Institutes/ University (respective Chairperson of the GB, as constituted at host institute/ University for SATHI Centre) and with Head of R&D Infrastructure Division at DST as Member-Secretary, for overall guidance, direction and also for considering to approve the recommendations of GB with respect to each SATHI Centre.

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3.6. While the NSC will convene at least one meeting every year, the Governing Body (GB) shall meet at least two times in a year and will forward its recommendations to DST for consideration of NSC. Any complaints and grievances related to SATHI Centre will be addressed by the GB. If, necessary the Chairperson of the GB will either use his/her discretion or form a sub-committee of 2 or 3 members to investigate and resolve the issue. Still if GB found it necessary to communicate/ forward it to the NSC to resolve, they may forward within reasonable time frame and the decision will be final and binding on all ground, as provided by the NSC.

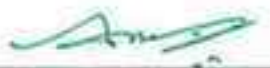
3.7. The GB will handle / facilitate all issues relating to the intellectual property, resolve any issues of conflict in this regard.


3.8. Concerned officers of DST or its authorized representatives may visit the organization / SATHI Centre for ascertaining the progress of work.

#### 4. PERSONNEL / STAFF

4.1. SATHI Centre at (Institute) ATME College of Engineering shall formulate and propose a suitable management and operational structure for the SATHI Centre. Mode of hiring of staff, out sourcing of specific activities/ operation, operational and financial norms towards staff hiring, equipment maintenance and facility usage for the SATHI Centre will be proposed by Governing Body (GB) and approved by the NSC. The GB for the Institute / University will be formulated in consultation with DST.

4.2. The sovereign identity created in the form of a Section 8 company formation, aiming for self-sustainable model, involvement/ recruitment of technical experts, earning structure, operational flexibility will have one operational head/ Managing head. The Operational Head / Managing head (non-faculty appointee) of SATHI Centre, a few scientists and other technical staffs for running the SATHI centre will be appointed by the separate identity created in form of company. The emoluments involved for these non-faculty appointee, scientists, technical staffs will be confirmed by the NSC based on the recommendation of GB of SATHI Centre.

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4.3. The Staff of the SATHI shall belong to (Institute) ATME College of Engineering and DST will not have any liability towards the staff appointed by the Host institution for its implementation and operation.

4.4. DST will have no responsibility in case of any loss is caused to any life or property due to accident, fire or any other reasons. The Host Institute or SATHI Centre shall be required to take appropriate safety and insurance measures to safeguard against any loss to human life and property related to SATHI Centre.

4.5. The Grantee will indemnify, defend and hold harmless the Department of Science and Technology (grantor) from and against, and in respect to, any and all losses, expenses, costs, obligations, liabilities and damages, including interest, penalties and attorney's fees and expenses, that the Grantor may incur as a result of any negligent, wilful or otherwise acts, incidences or omissions of the Grantee / Host Institute (ATME College of Engineering )to cover other contingencies, such as natural disasters etc.

## 5. FINANCIAL ARRANGEMENTS

5.1. As per sanction order, DST will provide Non-Recurring funds for purchase of instruments/ equipment including accessories as well as Recurring funds under the recurring heads. However, Recurring funds would be provided only for an initial period of three years. Thereafter, no Recurring funds would be provided by DST to the SATHI Centre which is expected to become self-reliant after 3 years of operation out of revenue generated through services.

5.2. For host institute / R&D Centre / Organization irrespective of their status, as Government / Non-Government, the funding pattern & its mode will be maintained at 75:25 ratio, i.e., DST share would be 75% and the management of the Government / Non-Government Grantee Institute / R&D center would bear 25% of the total sanctioned cost of the project.

5.3. For sharing mode at 75:25 ratio {matching-funding basis} of total sanctioned amount {where DST Share-75% and selected HI -25%} the HI will contribute from its own income sources and not from diverting the funds available with HIs under the Grant-in-aids received from other GoI Department or from the CFI, GoI.

Signature \_\_\_\_\_

29/08/22

Administrative Head of Institute \_\_\_\_\_

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5.4. For the Release of subsequent grant like 2nd and 3rd instalment, the host institute will have to forward the list of instruments in consultation with different stake-holders (i.e., Industries, start-ups, and academia etc.,) and progress report of the first year. A high level Expert committee constituted by DST for selection of new centres and on-going review of SATHI centre will prioritize / recommend the instruments to be funded / supported based on the list as submitted by the host institute for consideration. The equipment / instruments will be of broadly in three categories i.e., (i) General Analytical Instruments, (ii) Theme based Instruments & (iii) Fabrication / Prototype development equipment.

5.5. The host institute will follow the GFR 2017 and other conditions of Government of India rules, as amended from time to time, while purchasing the equipment/ instruments, as recommended by the Expert committee. All the assets will remain with the Host Institute.

5.6. DST shall not provide any financial support after 3 years towards salary for the staff under Recurring head of the SATHI Centre at (Institute) ATME College of Engineering The entire expenditure after 3 years towards expenditure for consumables, spares, annual maintenance contracts (AMC) for various instruments, the salaries of staff associated and other benefits to the employees of SATHI Centre will be borne by Host Institute ATME College of Engineering from generated revenue or from its own sources.

5.7. The approved funds referred in clause 5.1 shall be released by DST as grant-in-aid to the host institute.

5.8. The Chairman of the Governing Body of SATHI facility is allowed to transfer the stipulated amount of recurring grant-in-aid required for manpower handling cost to the Section-8 company as per actuals of manpower cost employed in section-8 company created for the SATHI facility and to start the revenue generation process towards self-sustainability.

5.9. The Section 8 company created for SATHI facility is allowed to utilize the recurring grant-in-aid for manpower engagement.

5.10. ATME College of Engineering will maintain separate audited bank accounts earning interest for the grant released for the SATHI Centre. The interest thus earned out of the grant-in-aid released to SATHI will be refunded back in Bharat Kosh account with an intimation to DST.

Signature \_\_\_\_\_ Administrative Head of Institute

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5.11. In case the ATME College of Engineering, is not in a position to execute or fulfil the objectives of the program, it is required to refund unspent amount forthwith to the DST, along with the equipment already purchased or in the process of purchase out of it.

5.12. The ATME College of Engineering, shall manage SATHI Centre to provide land, infrastructure and utility facilities like power, water, accommodation, consumables etc. for running the centre, as per its norm and practices for which no claim will be made on DST.

5.13. The ATME College of Engineering shall monitor that the workshop, glass blowing and other technical facilities of the Institute / organization are made available / accessible to SATHI Centre of ATME College of Engineering, as per the rules of the Host Institute.

5.14. The host Institute (ATME College of Engineering) shall send utilization certificate and an audited statement of accounts to DST after utilizing the DST funds in the proforma as prescribed under General Financial Rules 2017, after expiry of each financial year. The statement should be verified / audited by the competent authority of the institution.

5.15. All the assets acquired or created from the grant shall be installed in the premises of the SATHI Centre and not in any other department / Division / Centre of the Host Institute (ATME College of Engineering), unless specifically approved by the Department of Science and Technology on the recommendation of National Steering Committee (NSC) for SATHI Programme.

## 6. CHARGES AND REVENUE FOR USE OF SATHI FACILITIES

6.1. Each SATHI Centre must ensure that Facilities are available at least 80% of the operational hours (Working Time of 24 x 7 basis in three shifts daily) to the External Users and remaining 20% of the Time would be made available for Internal Users. However, Internal Users can avail the SATHI facilities for any amount of time beyond, when no sample of External User is available for usage at any equipment/ instruments.

6.2. Charges for analysis to be provided by users will be fixed by Governing Body (GB) and as per the recommendation of NSC for SATHI programme. The rate of charges for analysis shall also be made available to the respective SATHI web portal as per provision in rule 47 of GFR 2017.

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6.3. The charges for (A) academic institutes and start-ups, (B) R&D labs and SME's and (C) large industrial establishments will be fixed by GB of the host institute ATME College of Engineering and as per the recommendation of NSC for SATHI programme.

6.4. The total earnings thus generated on providing analytical services by the SATHI Centre to both External and Internal Users shall be shown with respect to each equipment/ instruments available at the SATHI Centre every year in the annual performance report of the SATHI and informed to DST every year so that the same would be made available for expenditures under Recurring Heads as per the recommendations of the National Steering Committee for that year.

6.5. The SATHIs shall make the booking of samples through online mode only by using dedicated web portal for having more transparency and efficiency in service. Charges may be taken during booking of the slot. In case of failure, on the part of USER for non-utilization of the slot, penalty may be charged at the rate fixed by Governing Body (GB) on the booking amount and future use of the SATHI facility.

6.6. All SATHI Centre / facilities will be made remote accessible, whenever required and found possible.

## 7. GENERAL

7.1. The terms & conditions would be valid for a period of five years from the date of signing of terms & conditions papers. Amendments, if any, can be made at any stage during the validity of the terms & conditions with mutual consent of DST and the host institute ATME College of Engineering.

7.2. The release of grants after the first year and each subsequent year is subject to satisfactory performance of SATHI Centre. For this purpose, the progress of work and achievement of milestones is to be sent by SATHI Centre to DST in the prescribed format (format as recommended by the DST).

7.3. The host Institute should open a separate saving account in a scheduled Bank to have a better accounting control of the SATHI center.

Signature \_\_\_\_\_

Administrative Head of Institute

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7.4. All trainings must be executed within India and with involvement of maximum stakeholders for such in-house training. The maximum number of pre-paid trainings & comprehensive warranty period should be included in the purchase order while doing the negotiation with the supplier/ seller of the instruments. At least minimum three years technical support should be ensured from the supplier/ seller of the instruments. The Host Institute may explore the option for three-year inclusive comprehensive warranty at the time of purchase of equipment from the supplier.

7.5. The host institute ATME College of Engineering should ensure that the installation site is compliant with the Seller's specifications by returning the "Laboratory Site Condition Report" form, duly filled and signed based on the "Installation and delivery conditions" booklet and communicating the photocopy of the same booklet to DST to ensure the effective functionality of each of the instruments and its shipment. The Laboratory site condition report must be communicated to the seller and DST to avoid any delay and untimely installation of the instruments. Before delivery the laboratory/ center site checking by the Seller may be certified to comply with the site specifications defined by the seller with utmost care and minimal cost.

7.6. Any hardware and software design, data, architecture, material, product specifications, smart designs, financial information, technical documents etc, shall not be made public or shared with any other party without the prior written consent. In all these cases the Organization/Institute/University / researcher/ Scientist should ensure that the technical support / financial assistance provided to them by Department of Science & Technology (DST), Government of India should invariably be highlighted / acknowledged in their media releases as well as in the opening paragraphs of their Annual Report.

7.7. In addition, the investigator/host Institute / Organization/Institute/University / researcher/ Scientist must also acknowledge the support provided to them in all their publications, patents and any other output emanating out of the SATHI Centre help/ facility utilization funded by Department of Science & Technology (DST), Government of India.

7.8. It is mandatory for the host Institute to publish at the booking web portal about the usage statistics (maintaining the anonymity of users) of every equipment/ instruments; i.e., how many internal, how many external samples stating separately how many from Industry, start-up etc., are being handled.

Signature  Administrative Head of Institute **PRINCIPAL**  
ATME College of Engineering  
4th KM, Mysuru-Kanakapura-Bangalore Road  
Mallahalli, Mysuru - 570028 with Seal  
29/10/23

Signature  Financial Head of Institute **ADMINISTRATIVE OFFICER**  
ATME College of Engineering  
13th KM, Mysuru-Kanakapura-Bangalore Road  
Mysuru - 570028 with Seal



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(Validity: 2022-23 to 2024-25)


7.9. In case of any kind of problem in the implementation of the programme, the same needs to be documented properly and brought to the knowledge of the Governing Body of the Centre and then to DST as early as possible.

7.10. Non-performance and non-compliance to the conditions required for sustainable incubation may result in discontinuation of further support and refund of DST grant.

7.11. DST reserves the right to terminate or may withdraw its support to the Centre by giving one (1) year notice the Host Institute ATME College of Engineering if it is convinced that the grant is not being utilized properly or that appropriate progress is not being made as per specified purpose / objectives of SATHI Centre.

7.12. Any dispute arising out of this terms & conditions between DST and SATHI Centre will be resolved by Secretary, DST or by the NSC.

Signature \_\_\_\_\_

  
29/02/23

Administrative Head of Institute

**PRINCIPAL**  
**ATME College of Engineering**  
13th KM, Mysuru-Kanakapura-Bangalore Road  
Mysuru - 570028 With Seal

Signature \_\_\_\_\_



Financial Head of Institute

**ATME College of Engineering**  
13th KM, Mysuru-Kanakapura-Bangalore Road  
Mysuru - 570028 With Seal





ATMECE/DR/SATHI/2022-23/ 71

Date:27-07-2023

**Department of Science and Technology**

**Policy on Conflict of Interest**

**For Reviewer & Committee Member or Applicant or DST Officer associated/ dealing with the Scheme/ Program of DST**

Issues of Conflicts of Interest and ethics in scientific research and research management have assumed greater prominence, given the larger share of Government funding in the country's R & D scenario. The following policy pertaining to general aspects of Conflicts of Interest and code of ethics, are objective measures that is intended to protect the integrity of the decision-making processes and minimize biasness. The policy aims to sustain transparency, increase accountability in funding mechanisms and provide assurance to the general public that processes followed in award of grants are fair and non-discriminatory. The Policy aims to avoid all forms of bias by following a system that is fair, transparent and free from all influence/ unprejudiced dealings, prior to, during and subsequent to the currency of the programme to be entered into with a view to enable public to abstain from bribing or any corrupt practice in order to secure the award by providing assurance to them that their competitors will also refrain from bribing and other corrupt practice and the decision makers will commit to prevent corruption, in any form, by their officials by following transparent procedures. This will also ensure a global acceptance of the decision-making process adopted by DST.

**Definition of Conflict of Interest:**

Conflict of Interest means "any interest which could significantly prejudice an individual's objectivity in the decision-making process, thereby creating an unfair competitive advantage for the individual or to the organization which he/she represents". The Conflict of Interest also encompasses situations where an individual, in contravention to the accepted norms and ethics, could exploit his/her obligatory duties for personal benefits.

**1. Coverage of the Policy:**

- a) The provisions of the policy shall be followed by persons applying for and receiving funding from DST, Reviewers of the proposal and Members of Expert Committees and Programme Advisory Committees. The provisions of the policy will also be applicable on all individuals including Officers of DST connected directly or indirectly or through intermediaries and Committees involved in evaluation of proposals and subsequent decision-making process.
- b) This policy aims to minimize aspects that may constitute actual Conflict of Interests, apparent Conflict of Interests and potential Conflict of Interests in the funding mechanisms that are presently being operated by DST. The policy also aims to cover, although not limited to, Conflict of interests that are Financial (gains from the outcomes of the proposal or award), Personal (association of relative / Family members) and Institutional (Colleagues, Collaborators, Employer, persons associated in a professional career of an individual such as Ph.D. supervisor etc.)

**2. Specifications as to what constitutes Conflict of Interest.**

Any of the following specifications (non-exhaustive list) imply Conflict of Interest if,



- (i) Due to any reason by which the Reviewer/Committee Member cannot deliver fair and objective assessment of the proposal.
- (ii) The applicant is a directly relative# or family member (including but not limited to spouse, child, sibling, parent) or personal friend of the individual involved in the decision-making process or alternatively, if any relative of an Officer directly involved in any decision-making process / has influenced interest/ stake in the applicant's form etc.
- (iii) The applicant for the grant/award is an employee or employer of an individual involved in the process as a Reviewer or Committee Member; or if the applicant to the grant/award has had an employer-employee relationship in the past three years with that individual.
- (iv) The applicant to the grant/award belongs to the same Department as that of the Reviewer/Committee Member.
- (v) The Reviewer/Committee Member is a Head of an Organization from where the applicant is employed.
- (vi) The Reviewer /Committee Member is or was, associated in the professional career of the applicant (such as Ph.D. supervisor, Mentor, present Collaborator etc.)
- (vii) The Reviewer/Committee Member is involved in the preparation of the research proposal submitted by the applicant.
- (viii) The applicant has joint research publications with the Reviewer/Committee Member in the last three years.
- (ix) The applicant/Reviewer/Committee Member, in contravention to the accepted norms and ethics followed in scientific research has a direct/indirect financial interest in the outcomes of the proposal.
- (x) The Reviewer/Committee Member stands to gain personally should the submitted proposal be accepted or rejected.

# The Term "Relative" for this purpose would be referred in section 6 of Companies Act, 1956.

### **3. Regulation:**

The DST shall strive to avoid conflict of interest in its funding mechanisms to the maximum extent possible. Self-regulatory mode is however recommended for stake holders involved in scientific research and research management, on issues pertaining to Conflict of Interest and scientific ethics. Any disclosure pertaining to the same must be made voluntarily by the applicant/Reviewer/Committee Member.

### **4. Confidentiality:**

The Reviewers and the Members of the Committee shall safeguard the confidentiality of all discussions and decisions taken during the process and shall refrain from discussing the same with any applicant or a third party, unless the Committee recommends otherwise and records for doing so.

### **5. Code of Conduct**

#### **5.1 To be followed by Reviewers/Committee Members:**

- (a) All reviewers shall submit a conflict-of-interest statement, declaring the presence or absence of any form of conflict of interest.





- (b) The reviewers shall refrain from evaluating the proposals if the conflict of interest is established or if it is apparent.
- (c) All discussions and decisions pertaining to conflict of interest shall be recorded in the minutes of the meeting.
- (d) The Chairman of the Committee shall decide on all aspects pertaining to conflict of interests.
- (e) The Chairman of the Committee shall request that all members disclose if they have any conflict of interest in the items of the agenda scheduled for discussion.
- (f) The Committee Members shall refrain from participating in the decision-making process and leave the room with respect to the specific item where the conflict of interest is established or is apparent.
- (g) If the Chairman himself/herself has conflict of interest, the Committee may choose a Chairman from among the remaining members, and the decision shall be made in consultation with Member Secretary of the Committee.
- (h) It is expected that a Committee member including the Chair-person will not seek funding from a Committee in which he/she is a member. If any member applies for grant, such proposals will be evaluated separately outside the Committee in which he/she is a member.

**5.2 To be followed by the Applicant to the Grant/Award:**

- (a) The applicant must refrain from suggesting referees with potential Conflict of Interest that may arise due to the factors mentioned in the specifications described above in Point No. 2.
- (b) The applicant may mention the names of individuals to whom the submitted proposal should not be sent for refereeing, clearly indicating the reasons for the same.

**5.3 To be followed by the Officers dealing with Programs in DST:**

While it is mandatory for the program officers to maintain confidentiality as detailed in point no. 6 above, they should declare, in advance, if they are dealing with grant applications of a relative or family member (including but not limited to spouse, child, sibling, parent) or thesis/ post-doctoral mentor or stands to benefit financially if the applicant proposal is funded. In such cases, DST will allot the grant applications to the other program officer.

**6. Sanction for violation**

**3.1 For a) Reviewers / Committee Members and b) Applicant**

Any breach of the code of conduct will invite action as decided by the Committee.

**3.2 For Officers dealing with Program in DST**

Any breach of the code of conduct will invite action under present provision of CCS (conduct Rules), 1964.

**7. Final Appellate authority:**

Secretary, DST shall be the appellate authority in issues pertaining to conflict of interest and issues concerning the decision-making process. The decision of Secretary, DST in these issues shall be final and binding.



## 8. Declaration

I have read the above “Policy on Conflict of Interest” of the DST applicable to the Reviewer/ Committee Member/ Applicant/ DST Scheme or Program Officer # and agree to abide by provisions thereof.

I hereby declare that I have no conflict of interest of any form pertaining to the proposed grant \*

I hereby declare that I have conflict of interest of any form pertaining to the proposed grant \*

\* & # (Tick whichever is applicable)

Name of the Reviewer/ Committee Member or Applicant or DST Officer

*(Strike out whichever is not applicable)*

(Signature with date)

27/07/23

**PRINCIPAL**

**ATME College of Engineering**  
at KM, Mysuru-Kanakapura-Bangalore Road  
Mallahalli, Mysuru - 70028





**ATMECE/DR/SATHI/2022-23/ 70**

**Date:27-07-2023**

**Endorsement Letter from the Registrar of the University/Head of the Institute/ Vice-Chancellor of  
University / Director of Lead Organization**

**TO SET UP SOPHISTICATED ANALYTICAL & TECHNICAL HELP INSTITUTE (SATHI)  
FACILITY**

This is to certify that:

- I. **Prof. / Dr A K Murthy** the Head of the Institute Department of mechanical engineering, ATME college of engineering, who will assume full responsibility for implementing this project proposed under SATHI Program of the Department of Science and Technology, New Delhi during 2022-23.
- II. The date of starts of the Project from the date on which the Institute receives the bank draft/cheque/RTGS from the Department of Science & Technology. It will happen only after signing and submitting the "Terms and Conditions" document pertaining to SATHI program of DST.
- III. The Head or Coordinator will be governed by the rules and regulations of the Institute and will be under administrative control of the Institute for the duration of the SATHI project and also as per the "Terms and Conditions" document pertaining to SATHI program.
- IV. The grant-in-aid by the Department of Science & Technology will be used to meet the expenditure on the SATHI project and for the period for which the project has been sanctioned as indicated in the sanction letter/ order.
- V. No administrative or other liability will be attached to the Department of Science & Technology at the end of the SATHI project.
- VI. The Institute will provide basic infrastructure and other required facilities to the investigator for implementing the SATHI project.
- VII. The Institute will take into its books all assets received under this sanction and its disposal would be at the discretion of Department of Science & Technology.
- VIII. Institute assumes to undertake the financial and other management responsibilities of the SATHI project. The host institute is fully aware of the funding mode.
- IX. (75:25), i.e., DST share would be 75% and the management of the Government / Non-Government Grantee Institute / R&D Centre / organization share would be 25% of the total sanctioned cost of the project (through networking and cluster approach).
- X. Aiming at 25% fund share, the lead organization / institute will not derive / include / divert / utilize any grant-in-aid from consolidated fund of India (CFI), Government of India, available to them from any means. The 25% fund share will be contributed by the HI from its own income sources at the time of each release (in a cluster approach & with proper understanding with Co-opted organizations) and not from diverting the



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(Validity: 2022-23 to 2024-25)

funds available with HI, under the Grant-in-aids received from other Department of Government of India or from the CFI, GoI.

- XI. The audited statement of accounts, utilization certificates, other reports, and documents as required under the scheme will be submitted to the department.
- XII. Organizing institute will participate in the monitoring/ reviewing of the SATHI Project whenever they were asked to do so.

**PRINCIPAL**  
**ATME College of Engineering**  
13th KM, Mysuru-Kanakapura-Bangalore Road  
Malahalli, Mysuru - 570028  
Seal of University/Institute/Organization

*[Handwritten Signature]*  
27/07/23  
Head of Institute / Lead Organization

*[Handwritten Signature]*  
Registered Head of Finance  
**ADMINISTRATIVE OFFICER**  
**ATME College of Engineering**  
13th KM, Mysuru-Kanakapura-Bangalore Road,  
Mysuru - 570028

*[Handwritten Signature]*  
\*Chairman of Trust / Board Management  
**Chairman**  
**For ACADEMY FOR TECHNICAL & MANAGEMENT EXCELLENCE**





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(Validity: 2022-23 to 2024-25)

(b)

Signature of the Head of partner organization

(Director / Vice-Chancellor / Registrar)

Date & Seal:



*[Handwritten Signature]*  
-----

Registrar or Head of Finance of partner organization

*[Handwritten Signature]*  
-----

(c)

Signature of the Head of partner organization

(Director / Vice-Chancellor / Registrar)

Date & Seal:



*[Handwritten Signature]*  
-----

Registrar or Head of Finance of partner organization

*[Handwritten Signature]*  
-----



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Programs accredited by NBA, New Delhi - CV, EC, EE and ME  
(Validity: 2022-23 to 2024-25)

**(d)**

**Principal**  
Maharaja Institute of Technology Mysore  
Belawadi, Naguvanahalli Post  
S R Patna Taluk  
Mandya - 571477

Date & Seal:

Signature of the Head of partner organization  
(Director / Vice-Chancellor / Registrar)

Registrar or Head of Finance of partner organization

**SECRETARY**  
Maharaja Education Trust®  
Mysore - 570 023

**(e)**

**Principal**  
MAHARAJA INSTITUTE OF  
TECHNOLOGY THANDAVAPURA  
Mysuru District - 571302

Date & Seal:

Signature of the Head of partner organization  
(Director / Vice-Chancellor / Registrar)

28/7/2023

Registrar or Head of Finance of partner organization

28/7/2023

**JOINT SECRETARY**  
Maharaja Education Trust®  
Mysore - 570 023

**(f)**

Date & Seal:



Signature of the Head of partner organization  
**For Vinyas Innovative Technologies Pvt. Ltd.,**  
(Director / Vice-Chancellor / Registrar)

**N Narendra**  
Managing Director

Registrar or Head of Finance of partner organization  
**For Vinyas Innovative Technologies Pvt. Ltd.,**

**N Narendra**  
Managing Director



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(Validity 2022-23 to 2024-25)

**(g)**

Signature of the Head of partner organization

(Director / Vice-Chancellor / Registrar)

Date & Seal:

*K. Rana* *28/7/23*  
-----  
Dr. K. RAMA NARASIMHA  
Principal/Director  
Registrar or Head of Finance of partner organization  
K S School of Engineering and Management  
Bangaluru - 590 109

*K. Rana* *28/7/23*  
-----  
Dr. K. RAMA NARASIMHA  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**(h)**

Signature of the Head of partner organization

(Director / Vice-Chancellor / Registrar)

Date & Seal:

For DHRUVA SPACE PVT. LTD.

*[Signature]*  
-----  
Director  
Registrar or Head of Finance of partner organization

For DHRUVA SPACE PVT. LTD.

*[Signature]*  
-----  
Director



(i)

*Surya Prakash mp*

Signature of the Head of partner organization

Connect Now Media  
(Director)

Date & Seal: 29/07/2023

*Surya Prakash mp*

Head of Finance of partner organization



No. 495/B, 1<sup>st</sup> Floor, 1<sup>st</sup> Block,  
3<sup>rd</sup> Stage, 15<sup>th</sup> Main,  
Above Manjunatha Prints,  
Basaveshwaranagar,  
Bangalore 560 079.  
PH: +91 80 45656200  
FAX: +91 80 45656250  
E-mail : laipl.blr@labindia.com

To,  
ATME College of Engineering  
Mysore.


Attn: Dr. Avinash

### QUOTATION

Ref: BRU/ALPHA/BLR/22-23/1363

Date: 29.03.2023

#### Sub: Offer for FOURIER TRANSFORM INFRA RED (FTIR) SPECTROPHOTOMETER

S/N	Item Description	QTY	Unit Price IN Rs.	Total Price IN Rs.
01	<p>P/N: ALPHA-P, FT-IR Spectrometer with Platinum-ATR QuickSnap Sampling Module</p> 	01	Included	Included
	<p>ALPHA P is a very compact FT-IR spectrometer for quick, easy and reliable IR-analysis. The design of its hard- and software is highly Integrated for an intuitive and comfortable operation. All spectrometer components are built for continuous availability and a long life time. Bruker's permanently aligned RockSolid interferometer and the reliable diode laser guarantee an accurate and precise data acquisition. Due to the CenterGlow IR-source technology and a temperature controlled DTGS detector the ALPHA P provides a constantly high performance, independent from ambient temperature and for many years. The need for maintenance is minimized and running costs are kept very low due to the long life time of the relevant components like interferometer, IR-source and laser.</p> <p>A wide range of QuickSnap sampling modules is available for the ALPHA II, with the push of a button, the exchange of the sampling modules is performed quickly and easily. The PermaSure function automatically recognizes each change of the setup and performs a quick self-test ensuring a proper instrument performance. Suitable measurement settings for the used configuration are automatically loaded. The Performance Guard continuously monitors the spectrometer electronics as well as optical and mechanical components to permanently assure the correct functioning of the</p>			

#### REGIONAL OFFICES AT :

THANE (H.O.): 022-25986000, CHENNAI - 044-24347008, DELHI - 011-43306 001, LUCKNOW - 0522-2346535, KOLKATA - 033-24661396, CHANDIGARH - 0172-4090001, GURGAON - 0124-2843300, BANGALORE - 080-23230921/23, PUNE - 020-25380090, BARODA - 0265-2986000

REGD. OFF. : 34/38, BHARATKUNJ SOCIETY NO. 2, NEAR NEW ABHINAV ENGLISH SCHOOL, ERANDWANE, PUNE - 411038.

CIN NO. : U33125PN2010PTC135542

	<p>complete instrument.</p> <p>The Alpha- II fulfills all requirements to be used according to the demands of Good Laboratory Practice (GLP), US, European and Japanese Pharmacopeia and 21 CFR Part11.</p> <p>System specifications:</p> <ul style="list-style-type: none"> <li>- Compact ALPHA P FT-IR spectrometer with <b>Diamond ATR</b></li> <li>- Robust metal housing</li> </ul>			
	<ul style="list-style-type: none"> <li>- Small footprint: 22x30cm (including sampling module)</li> <li>- Weight: approx. 7kg</li> <li>- Spectral range: 350-8,000cm<sup>-1</sup> with KBr Optics ( If opted for ZnSe Optics, Spectral Range will be 500-6,000cm<sup>-1</sup> )</li> <li>- Spectral resolution: better than 2cm<sup>-1</sup> &amp; Optional better than better than 0.75cm<sup>-1</sup></li> <li>- <b>RockSolid interferometer: gold mirrors, high throughput, permanent alignment, long life time &gt;10 years</b></li> <li>- Diode laser, high wavenumber accuracy and precision, long life time &gt;10 years</li> <li>- IR-Source: CenterGlow technology for continuously optimized light Flux, long life-time &gt; 5 years.</li> <li>-Detector: DTGS, temperature-controlled, high stability against external temperature changes</li> <li>- Sealed and desiccated optics</li> <li>- Internal validation unit (IVU) with reference standards for automated instrument tests of every ALPHA II setup and every measurement mode</li> <li>- Automated instrument tests for operational and performance Qualification (OQ; PQ) 2</li> <li>- Easy exchange of ALPHA QuickSnap sampling modules</li> <li>- PermaSure: Automatic recognition and individual calibration of QuickSnap modules and ATR-crystal plates, automatic performance test and load of appropriate measurement parameters when changing the configuration</li> <li>- Performance Guard: continuous monitoring of all spectrometer Components, performance and humidity.</li> <li>- Validated OPUS/IR software, prepared to work fully compliant to GLP and GMP regulations</li> <li>- Software-wizard for IR-spectroscopic quality control. Guides the operator through the complete analysis procedure from measurement, via spectrum evaluation to the final generation of the report</li> <li>- Universal QuickSnap sampling module with sample compartment</li> <li>- 2x3" standard sample mount</li> <li>- 2x3" holder for 13mm pellets</li> <li>- Sample compartment cover</li> </ul>			
-	<p>P/N: O/IR8.0+</p> <p>OPUS/IR, FT-IR Spectroscopy Software Package</p> <p>OPUS is integrated software for the acquisition, processing, evaluation and reporting of IR-spectroscopic data in laboratory and process environments and is compliant with CgMP / GLP / GAMP regulations such as 21 CFR Part 11 and the FDA data.</p> <ul style="list-style-type: none"> <li>- Analytical report generation with predefined print layouts, customizable</li> <li>- Easy export of spectral data and evaluation results to other programs</li> <li>- Option to store spectral data and evaluation results either in An</li> </ul>	<b>1</b>	Included	Included



<p>internal or a user-defined database</p> <p><b>OPUS is validated software and supports the validation of the spectrometer:</b></p> <ul style="list-style-type: none"> <li>- Fully automated test routines for operational and Performance qualification (OQ, PQ)</li> <li>- Permanent instrument status indicator, online monitoring of system performance integrity guideline.</li> </ul> <p><b>OPUS is easy to use:</b></p> <ul style="list-style-type: none"> <li>- Configurable user interface and access to executable Functions</li> <li>- Automatic consistency-test of measurement parameters</li> </ul>			
<ul style="list-style-type: none"> <li>- Multi Tasking: Measurement and data manipulation / evaluation at the same time</li> <li>- Step-by-step analysis assistant for quality control applications</li> </ul> <p><b>OPUS delivers reliable measurement results in a short time:</b></p> <ul style="list-style-type: none"> <li>- Single and repeated measurements</li> <li>- Auto sampler support</li> </ul> <p><b>OPUS provides versatile functionality for efficient data analysis:</b></p> <p><b>1) Interactive functions for comfortable data processing :-</b></p> <ul style="list-style-type: none"> <li>- Automated atmospheric correction for water vapor and CO2 In MIR without the need for reference spectra</li> <li>- Normalization, baseline correction, derivative calculation and spectra subtraction</li> <li>- Averaging of spectra</li> <li>- Spectrum calculator</li> </ul> <p><b>2) Wide range of data evaluation methods for generation of clear results, e.g.:</b></p> <ul style="list-style-type: none"> <li>- Single and multiple peak picking, interactive and automated modes</li> <li>- Spectra comparison method for material verification</li> <li>- Library search for material identification, User specific library set-up</li> <li>- Free starter libraries</li> <li>- Spectra interpretation tool</li> <li>- Analyze peak areas and heights, quantitative analysis (Lambert-Beer's Law)</li> <li>- Automated multi-step and multi-method evaluation of spectra (MultiEvaluation)</li> <li>- Curve fit</li> </ul> <p><b>3) Easy-to-use tools for reporting and data exchange</b></p> <p><b>OPUS supports user during daily routine work:</b></p> <ul style="list-style-type: none"> <li>- Run, create and edit macros and VB scripts</li> <li>- Automated execution of repeated actions via calendar</li> <li>- Lab journal functionality</li> <li>- Online help</li> <li>- Multimedia FT-IR tutorial</li> </ul>			
<p>- <b>P/N: W303/D-U</b>          Extension of the ALPHA base spectrometer for operation in regions with high humidity.          Use of ZnSe for all IR light-transmissive optical components including the beam splitter.          Usable spectral range to 6,000-500cm-1</p>	<b>1</b>	Included	Included
<p>- <b>P/N: S-881</b>  <b>Warranty Extension to 10 Years for Interferometer:</b>          Covers parts in case of interferometer defects. The warranty starts with delivery of the spectrometer. Valid for ALPHA spectrometers. Warranty will be covered only against manufacturing defects. Warranty will not be covered for Fragile items, Consumables, Parts</p>	<b>1</b>	Included	Included

	which may damage due to bad environmental conditions and non-maintenance of FT-IR as per the given instructions.			
-	<b>P/N: S-881-S</b> <b>Warranty Extension to 5 Years for MIR source:</b> Covers material costs in case of source defects. The warranty starts with delivery of the spectrometer. Valid for ALPHA spectrometers. Warranty will be covered only against manufacturing defects. Warranty will not be covered for Fragile items, Consumables, Parts which may damage due to bad environmental conditions and non-maintenance of FT-IR as per the given instructions.	1	Included	Included
-	<b>P/N: S-881-L</b> <b>Warranty Extension to 10 Years for laser:</b> Covers parts in case of laser defects. The warranty starts with delivery of the spectrometer. Valid for ALPHA spectrometers. Warranty will be covered only against manufacturing defects. Warranty will not be covered for Fragile items, Consumables, Parts which may damage due to bad environmental conditions and non-maintenance of FT-IR as per the given instructions.	1	Included	Included
-	<b>P/N: S882-P</b> <b>Warranty Extension to 10 Years for Platinum</b> Covers material and labor costs in case of potentially necessary repairs in the Bruker factory. Defects resulting from improper operation are excluded from this. The warranty starts with the delivery of the accessory. Warranty will be covered only against manufacturing defects. Warranty will not be covered for Fragile items, Consumables, Parts which may damage due to bad environmental conditions and non-maintenance of FT-IR as per the given instructions.	1	Included	Included
<b>TOTAL EX-WORKS IN INR</b>				<b>20,00,000.00</b>
<b>IGST @18%</b>				<b>3,60,000.00</b>
<b>GRAND TOTAL</b>				<b>23,60,000.00</b>
<b><u>(OPTION)</u></b>				
-	<b>O/SR-N</b> <b>Opus search software</b>	1	Price on Request Included	
-	<b>P/N: 1025049</b> <b>ATR-FTIR Polymer Library (ATR-LIB-POLYMERS+)</b> Includes ATR spectra from polymers, monomers, polymer starters, additives, plasticizer, fillers, excipients, cosmetics, coatings, lubricants, proteins, lipids, dyes, paints, fibers, and surfactants. > 10,000 ATR-FTIR-Spectra; requires OPUS 7.2 or higher; only available with order of spectrometer	1	2,00,000.00	2,00,000.00

- SYSTEM REQUIRES PC, PRINTER AND UPS of 1 KVA CAN BE PROCURED LOCALLY FROM YOUR END.
- **TERMS & CONDITIONS ENCLOSED**

**NOTE:** Special terms and conditions is given below. In all other respects "General Terms and Conditions of Sale, Delivery and Service " apply

**(Please refer Next Page for more details)**



<b>TERMS &amp; CONDITIONS</b>	
HSN code of goods	: 9027.30.10
Make	: M/S. BRUKER OPTICS GmbH & Co. KG RUDOLF-PLANK-STR.27, D-76275 ETTLINGEN GERMANY,
Order to be placed on	: <b>Labindia Analytical Instruments Pvt. Ltd.</b> <b>201, Nand Chambers, LBS Marg,</b> <b>Panchpakhadi, Near Vandana Cinema, Thane (W) - 400602 (MS)</b>
Delivery period	: Within 12 weeks after receipt of confirmed PO along with advance payment.
Packing & Forwarding Charges	: Charged extra @ 2% on the total price of PO.
Delivery Charges	: Charged extra @ 2% on the total price of PO.
Taxes	: Full actual IGST @ 18% will be charged at the time of Invoice.
Installation	: Installation, Demonstration and Training will be provided free of cost at your site. Standard Factory test protocols will be carried out during the time of installation
<b>Payment Terms</b>	: <b>100% advance along with Purchase order</b>
Period of Warranty	: 12 Months from the date of installation or 15 months from the date of shipment whichever is earlier. Any part found defective during the warranty period will be replaced free of cost. It does not cover consumables and parts of Instruments which, due to normal wear and tear even in case of proper use have a durability which falls short of the warranty period. Warranty does not includes electronic damage by the instability of electric current and/or insufficient ground. Further it also does not include damage. by PEST such as ants, rats etc.
LA IPL PAN No.	: AABCL7716N
GST No	: 27AABCL7716N1Z2 (Provisional)
Bank Details	: Title of Account in the bank      Labindia Analytical Instruments Pvt. Ltd.
	: Bank Name                              AXIS BANK LTD.
	: Bank Branch                             HARI NIWAS
	: Bank Address                            Dhiraj Baug, Near Hari Niwas Circle LBS Marg, Thane
	: Bank Account No.                      911030017556004
	: Bank Account Type                    CC
	: IFSC No.                                 UTIB0000061
Property Right 's	: All goods remain the sole property of LABINDIA, Until we receive the full payment.
Deemed Acceptance Clause	: <b>Default of acceptance by Buyer shall take place at the latest sixty (60) days after delivery if Buyer does not demand or permit the installation of the delivery items by this point despite a request from Seller (See § 8.2 of General Terms &amp; Conditions of Sale).</b>
Non-Binding Clause	: <b>Seller's quotations shall be non-binding and subject to change unless expressly indicated otherwise.</b>

Yours sincerely

For **LABINDIA ANALYTICAL INSTRUMENTS PVT. LTD.**



**Sandip Jagtap**

Business Manager- Sales (Karnataka)

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