



Somaiya Vidyavihar

K J Somaiya Institute of Engineering and Information Technology

(Permanently Affiliated to University of Mumbai, Approved by D.T.E. & A.I.C.T.E. (F.No. 740-89-038(NDEG)/ET/2001)
NBA Accredited 3 Programs - (Computer Engineering, Electronics & Telecommunication Engineering & Electronics Engineering)
NAAC Accredited Institute with "A" Grade and 3.21 CGPA from 2017 to 2022

KJSIEIT/BSAH/539/19-20

Date: 24/12/2019

To
The Director,
Space Infrastructure Programme Office,
ISRO HQ, Antariksh Bhavan,
New BEL Road, Bangalore-560 231

Subject: Proposal for payloads on orbital platform in the fourth stage (PS4) of Polar Satellite Launch Vehicle (PSLV)

Dear Sir,

K. J. Somaiya Institute of Engineering and Information Technology (KJSIEIT), Sion, Mumbai is one of the reputed engineering institutes approved by AICTE, DTE and is permanently affiliated to the University of Mumbai. It was established by the Somaiya Trust in the year 2001, at Sion campus in the heart of Mumbai city. KJSIEIT received **accreditation by National Board of Accreditation (NBA)** for three Programs of the institute viz. Computer Engineering, Electronics & Telecommunication Engineering and Electronics Engineering in 2018 for 3 years. It is also accredited with 'A' Grade by the **National Assessment & Accreditation Council (NAAC)** of India for 5 years with the CGPA of 3.21.

We are submitting the proposal for Development of Pocketcube Standard Pico-satellite Bus and Deployer under the principal investigator Dr. Umesh Shinde assisted by student satellite program team of our institute, as per the Announcement of Opportunities (AO) for payloads on orbital platform in the fourth stage (PS4) of Polar Satellite Launch Vehicle (PSLV) dated 15 June, 2019.

Following are the supporting documents attached for the proposal.

1. Report and Executive Summary
2. Amateur Radio License copy of Principal Investigator
3. Budget approval letter from the Lead Funding agency
4. Supporting document for proving past experience in space and radio technology development.
5. Drawing Sheets and Spec-Sheets of the proposed design
6. Endorsement letter from **DISASTER AMATEUR RADIO EMERGENCY SERVICES (DARES)**
7. Assurance letter from National Centre for Nanoscience and Nanotechnology for testing and fabrication facilities
8. Letter of assurance for support in off the shelf radio module procurement and implementation.

Regards,

Dr. Suresh K. Ukarande,
Principal

PRINCIPAL

K.J. SOMAIYA INSTITUTE OF ENGINEERING
AND INFORMATION TECHNOLOGY
Sion, (E), Mumbai - 400 022



Somaiya Ayurvihar Complex, Eastern Express Highway, Sion (East), Mumbai- 400 022, India.

Telephone: (91-22) 24061404, 24061405 Fax: (91-22) 24028804 email: principal.tech@somaiya.edu Web: www.somaiya.edu/kjsieit



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The Director,
Space Infrastructure Programme Office,
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Team of students is working on small satellite was established under the name "**NEW LEAP INITIATIVE**" at our Institute in the Year 2016. The students have since been working on the development of a small Satellite.

The team aims at reducing the cost of development of small satellites. Thus, after thorough evaluation of the proposal and discussion with the team, Institute has granted the fund of Rs. 3,50,000/- for the same to the students team. Any requirement for additional funds, if arisen, shall be fulfilled by the institute. The team is currently in the Fabrication and Testing phase and aims for a launch in Q4 of 2020.

Thank you and Regards.

Dr. Suresh K. Ukarande,
Principal

PRINCIPAL

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AND INFORMATION TECHNOLOGY
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भारत सरकार
अंतरिक्ष विभाग
द्रव नोदन प्रणाली केंद्र
वलिमला पोस्ट
तिरुवनंतपुरम - 695 547, भारत
दूरभाष :
फैक्स :



Government of India
Department of Space
Liquid Propulsion Systems Centre
Valiamala P. O.
Thiruvananthapuram - 695 547, India
Telephone :
Fax :

26th April 2018

Dear Sir/Madam,

Hearty congratulations and greetings from Team Jovian Moon Contest, LPSC/ISRO.

The following team from your institution has been a part of "Touch the Jovian Moon Contest" being organized by Liquid Propulsion System Centre (LPSC) one of the lead centers of Indian Space Research Organization (ISRO). The team has successfully completed three reviews of their project by the panel of experts, constituted at LPSC, making them eligible to be invited for the final competition of the program being organized at LPSC, Valiamala, Trivandrum, Kerala from 3rd May 2018 to 5th May 2018. The best five teams out of the participating teams, as selected by our judging panel will be presenting their project before the judging panel and ISRO community on 4th of May 2018.

Sl No	Name	Designation
1	Umesh L. Shinde	Faculty Member
2	Rohit N. Bokade	Student Member
3	Supriya R. Bhide	Student Member
4	Rohan S. Gamare	Student Member
5	Kinjal Jain	Student Member
6	Amey A. Noolkar	Student Member
7	Hemang P. Bhanushali	Student Member

The following points may be noted in this regard.

1. Travel expenses (3AC) from nearest railway station to Trivandrum and back will be provided to the participants on submission of duly filled TA settlement form and original tickets.
2. Accommodation will be provided to the participants from morning of 02/05/2018 to evening of 06/05/2018 by the LPSC/ISRO. Local transportation and food will be arranged by LPSC.
3. Members of the team as listed above only will be entertained for the event, and in the accommodation area.

Regards and Best wishes,

Dr. S Sunil Kumar

Chairman, Pearl Jubilee Public Outreach Committee,
LPSC, ISRO

To,

The Principal,
K J Somaiya Institute of Engineering & IT, Mumbai



Databyte Services and Systems

The Director,
Space Infrastructure Programme Office,
ISRO HQ, Antariksh Bhavan,
New BEL Road, Bangalore-560 231

Subject: Letter of Endorsement towards Student Satellite team New Leap Initiative KJSIEIT

Sir,

I have been associated with KJ Somaiya Institute of Engineering and Information Technology (KJSIEIT) as a member of their Local Management Committee as well as their Research Advisory Committee since last several years. Databyte Services and Systems (DSS) have also signed a MOU with KJSIEIT for cooperation relating to development of new products and technologies.

In view of this, KJSIEIT had invited me to be a Mentor and Guide of a team to represent the institute in 2017 for '**Touch The Jovian Moon**' contest organised by LPSC-ISRO. The team included students as well as faculty members of the KJSIEIT. The team emerged as the winner of the **First Prize** in this competition.

DSS has implemented several projects for the Indian Defence and Law Enforcement agencies in the field of Tactical Communication, as well as Meteorology. In view of this, DSS was selected by the MoD as one of the agencies for development of '**Upper Air Sounding System**' (UASS) under the '**Make in India**' initiative.

As there already exists a MoU between DSS and KJSIEIT and also in view of success of the team as above, DSS offered KJSIEIT to partner in the development of 'Radiosondes', which is a part of the UASS.

The RadioSonde design requires domain knowledge in various aspects like RF, Embedded devices, Sensor technology, Mechanical Engineering, as well as operating in extreme environmental conditions.

I am happy that the team did extremely well and developed a working prototype of the RadioSonde within the stipulated period. The team has acquired significant experience in the RF domain during the development of the RadioSonde. I endorse the team's capability in Research and Development and their work in the RF domain. I understand that this team has also been working on development of a Nano Satellite.

The team is extremely dedicated and has various domain expert member students and faculty guides. I write this letter under request of the Project Leader of their team. I wish them all success in the future.

Mr. Vishram Bapat,
Director
December 25, 2019



IN SERVICE OF THE NATION

DISASTER AMATEUR RADIO EMERGENCY SERVICES

Regn No : MAH STATE - MUMBAI - 1098 /2015 G.B.B.S.D.

INTERNATIONALLY RECOGNISED AS THE ONLY MODE OF COMMUNICATIONS IN DISASTER



HAM RADIO

DATE: December 25, 2019

To
The Director,
Space Infrastructure Programme Office,
ISRO HQ,
Antariksh Bhavan,
New BEL Road,
Bangalore-560 231

Subject: Letter of Endorsement towards New Leap Initiative

Dear Sir,

At K. J. Somaiya Institute of Engineering and Information Technology, Mumbai a student satellite team was established in 2016 under the name New Leap Initiative. The students have since been working on the development of a small Satellite.

They have been involved in HAM related activities for the past two years. The college has many Amateur Radio Licensed Individuals in the form of Students and Teachers. They have organized Two Amateur Station Operators Certificate (ASOC) Exams and plan to arrange more in the near future. The students and faculty recently attended the LARC radio-fest and won the first prize in VHF/UHF antenna brewing. We **DISASTER AMATEUR RADIO EMERGENCY SERVICES (D.A.R.E.S)** endorse the Student Satellite Program and Amateur payloads onboard the satellite project of the team.

Thanks and regards,

For **DISASTER AMATEUR RADIO EMERGENCY SERVICES**
For **DISASTER AMATEUR RADIO EMERGENCY SERVICES**

[Signature]
PRESIDENT / HON. SECRETARY / HON. TREASURER / HON. IT. SECRETARY

SECRETARY





No. NCNNUM/627/2019

Date: 26th December 2019

To whom so ever it concern

The National centre for Nanosciences and Nanotechnology has been established by the University of Mumbai to nurture the world class research in nanosciences. We have established the state of art facilities including high class clean rooms in-house highly sophisticated equipments such as electron microscopy, spectroscopy, analytical techniques and several deposition systems like PLD, MBE, PECVD, other vacuum systems. To promote the research at university and college levels, these entire infrastructures capability has been made available for researchers to fulfill the project requirements.

We would be pleased to offer our support to the K.'J. Somaiya Institute of Engineering Technology (KJSIEIT) Sion, Mumbai regarding their proposed projects to relevant authorities.

We wish them success and encourage them for better research outcome.

Your faithfully

Dr. Samir Kulkarni
Director, NCNNUM

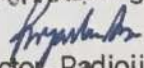
Date: 26th Dec 2019

To,
The Director,
Space Infrastructure Programme Office,
ISRO HQ, Antariksh Bhavan,
New BEL Road, Bangalore-560231

Subject: Letter of assurance for support off the shelf radio module procurement and implementation.

Dear Sir,

We at Radiojitter Concepts Lab LLP. have been associated with the Student Satellite team at K.J.Somaiya Institute of Engineering and Information Technology, Sion, since the year 2019 as their official partners and mentors for off-the-shelf radio-components(UHF and VHF Modules) selections and procurement. We endorse their work and express our support as their official radio-component partners in their endeavor of getting a payload launch as a part of the PS4 Orbital Platform.

Thanks,

Director, Radiojitter Concepts Lab LLP
Designated Partner



RADIOJITTER CONCEPTS LAB LLP
No. 303, 2nd Floor, Butterfly Apartment,
Mariyappa Layout, Kadubeesanahalli,
Bangalore - 560 103



L-14011/9866/2019-AMT
GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS
WPC WING, SANCHAR BHAWAN
NEW DELHI-110001



AMATEUR WIRELESS STATION LICENCE

Name of Licensee : UMESH LALASAO SHINDE
Date of Birth : 06.11.1975
Father's/Husband's Name : LALASAO DATTOBA SHINDE
Category of License : RESTRICTED
Call Sign : VU3CDI
License No : 41496

Location of Station: -

Valid up to: -10.01.2039
B-301, OM KUNJ, PLOT NO. F-23, SECTOR-19/20,
BELAPUR, NAVI MUMBAI, MAHARASHTRA - 400614

Date of Issue: - 11-01-2019

Place: - New Delhi

Signature of Licensee: -

Signature of witness: -

Address of witness: -

(R C MALIK)
ASSISTANT WIRELESS ADVISER

(रमेश चन्द्र मलिक)
(RAMESH CHANDRA MALIK)
सहायक वरिष्ठ संचालक
Assistant Wireless Adviser
संचार विभाग, संचार भवन
Dept. of Telecom, Govt. of India
नई दिल्ली/New Delhi

License to Establish, Maintain and work an Amateur Wireless Station in India

Having satisfied by examination or otherwise that **UMESH LALASAO SHINDE** possesses the requisite technical qualifications as prescribed under the Indian Wireless Telegraphs (Amateur Service) Rules, 1978; the Central Government, in exercise of the powers conferred under the authority of section 4 of the Indian Telegraph Act, 1885 (23 of 1885), hereby grant to him an Amateur Wireless Station License, Grade- RESTRICTED to establish maintain and work a wireless telegraph transmitting and receiving station, detailed above during the terms of period commencing on the day of the date hereof and terminating on the 10.01.2039. This License becomes invalid unless renewed further by way of a document showing the renewal of license.

The license is governed by the Indian Wireless Telegraphs (Amateur Service) Rules, 1978 and amendments thereafter.

Centre's Specifications: - Place: - NAVI MUMBAI

Call Sign: VU3CDI

Place: - New Delhi

Date: - 11-01-2019

Copy to: - Inspector General of Police, MAHARASHTRA for information

To,

UMESH LALASAO SHINDE

B-301, OM KUNJ, PLOT NO. F-23, SECTOR-19/20, BELAPUR,
NAVI MUMBAI, MAHARASHTRA - 400614

(R C MALIK)
ASSISTANT WIRELESS ADVISER

(रमेश चन्द्र मलिक)
(RAMESH CHANDRA MALIK)
सहायक वरिष्ठ संचालक
Assistant Wireless Adviser
संचार विभाग, संचार भवन
Dept. of Telecom, Govt. of India
नई दिल्ली/New Delhi