

Indian Science Technology and Engineering facilities Map (I-STEM)

Invites application for

1. **Partial financial support for using R&D facilities in other institutions through the I-STEM web portal to Users from Academic Institutions and Start-ups (Format-1)**

Format for requesting support for accessing and using facilities through the I-STEM web portal.

(i) Details of the Personal Information

- a. Name of the Researcher - **Nithin Kumara M R**
- b. Name of Supervisor - **Dr.Biswajit Paul**
- c. Name of the Institution - **Bangalore University**
- d. Name of the Department - **Department of Chemistry**
- e. Degree registered for - **Ph.D**
- f. Mob. No- **8971184072**
- g. Email ID: **nithinkumara@bub.ernet.in**

(ii) Project/Research topic Details:

- a. Project Title/Research Title: **“Synthesis and structural studies of amides with functional implications”**
- b. Sub area: **Peptoids**
- c. Area Description: **Synthesis of Peptoids and Characterization**
- d. Aim: **To Show the Non-covalent interaction and chirality studies arising from the C-N axis of the Peptoids.**

Objective

- **Synthesis of Peptoid compounds (Dimer,trimer & Hexamer).**
- **Characterization of Compounds using ^1H NMR, ^{13}C NMR, HPLC, Chiral HPLC, SXRD, and Ion Mobility Technique.**
- **Crystal solving mercury software.**

- e. Duration (MM/YYYY): **October-2022 to March-2022**
- f. Project Summary (1000 words): **Attached**
(Separate page attached)

g. Technical Details

- a. **TRL**
- b. **Methodology - Synthesis of New Molecules.**
- c. **Design & development - Synthesis of the longer oligomer.**
- d. **Facilities and Instrumentation required –**

No	Characterization	Facility
1	^1H NMR & ^{13}C NMR	IISC Bangalore
2	HPLC & Chiral HPLC	IISC Bangalore
3	LCMS	IISC Bangalore
4	SXRD	IISC Bangalore & STIC india
5	Ion mobility	---

e. Consumables (Scientific materials) –

No	Consumables
1	Stopcock (PP/PTFE) 2 way
2	Nitrile gloves
3	Pipette rack horizontal
4	Wash bottle 500ml
5	Paraffins (VSA) Roll
6	Aluminium foil
7	TLC Plates
8	Centrifuge tube (Conical bottom) 5ml
9	100ml RB

h. **Expected output and outcome** - 95,000/-

i. **Funding required from I-STEM (with justification:**

Details of Requirements & Mode of the Engagement: (Attach the quotation for the consumables)

(i) Short term Engagement:

a. Usage of testing/characterization facilities across the country (Characterization Mode)- IISC, STIC India

i. Testing Charges - **74,000/- INR**

ii. Consumable charges - **21,000/- INR**

Details of User's Bank Account: **SBI Account**

(Please send a copy of the cancelled cheque/copy of the passbook carrying all the information needed)

State Bank of India 	
Account Name	NITHIN KUMARA M R
Address	MOTHAHALLI, , KOTHATHI HOBLI, 571402
Date	20 Oct 2022
Account Number	64088931838
Account Description	Savings
Branch	KOTHATHI
Drawing Power	0.00
Interest Rate(%p.a.)	2.7000
CIF No.	74041086275
IFS Code	SBIN0040172
MICR Code	571002572
Nomination Registered	Yes
Balance as on	12 OCT 2022 INR 3553.47
Search for	30 JUN 2018 to 12 OCT 2022

Beneficiary Name (User's name)- **Nithin kumara M R**

PAN- **BWSPR5251H**

Bank Account No- **64088931838**

Name of the Branch- **Kothathi**

IFSC Code- **SBIN0040172**

Note: Proposed proposal must be executed within stipulated duration (max. 6 month) to avoid fund availability issues. Travel form will be provided by the I-STEM office. The users will submit the technical report, original invoice (duly signed by the Head of the Institution) raised by the Host Institution through I-STEM portal only along with a copy of the travel forms and original tickets through post to the Nodal Officer, I-STEM, Indian Institute of Science, Bangalore. A scan copy of all the documents may be sent in advance.