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Criteria 3- Research, Innovations and Extension

Key Indicator 3.1- Resource Mobilization for Research

3.1.3 - Percentage of departments having Research projects funded by government and non government agencies during the last five years

DVV Query:

Provide grant award letter of teachers along with the department affiliation, title of the funded project, the amount and the funding agency during the year 2016-17, 2017-18, 2018-19 and 2019-20, 2020-21.

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2	Monitoring and Assessing Coral Reefs in Oceans(Compute Grant) 2020-21 Rs.350000 Al for Earth Microsoft Azure Compute Grant	Ms. Mannat Doutlani Ms.Abha Tiwari	Computer Engineering	<u>30</u>
3	Artificial Intelligence Model for Epidemiology of Tuberculosis 2020-21 Rs.30000 The Tuberculosis Association of India - Short Term Research Projects : Financial Assistance Scheme	Dr.(Ms)Nupur Giri	Computer Engineering	<u>31</u>
4	Forest Fire Prediction Using LSTM Networks 2020-21 Rs.1170000 Al for Earth Microsoft Azure Compute Grant	Ms. Sukanya Roychowdhury	Information Technology	34
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6	Al based Farmer Empowerment (Compute Grant) 2020-21 Rs.780000 Al for Earth Microsoft Azure Compute Grant	Dr (Ms) M. Vijayalakshmi	Information Technology	<u>37</u>
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18	Coreveillance- Making our world a "SAFER" Place 2019-2020 Rs.15000 University of Mumbai Minor Research Grant Project Research Grant Project	Ms. Lifna C S	Computer Engineering
19	"Food to people: A Block Chain Solution 2019-2020 Rs.25000 University of Mumbai Minor Research Grant Project Research Grant Project	Ms. Abha Tewari	Computer Engineering
20	FireMan Helper 2019-2020 Rs.15000 University of Mumbai Minor Research Grant Project Research Grant Project	Ms. Kajal Jewani	Computer Engineering
21	Trail-Tracker: Antipoaching Intelligence using Al and IoT 2019-2020 Rs.10000 University of Mumbai Minor Research Grant Project	Ms.Vidya Zope	Computer Engineering
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61	Electronic talking gloves for speech disabled people 2017-2018 Rs.20000 University of Mumbai Minor Research Grant Project	Ms.Amudha Senthilkumar	Instrumentation Engineering	<u>132</u>
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65	Portable heart attack detection in early stage. 2016-2017 Rs.40000 University of Mumbai Minor Research Grant Project	Ms. Jyoti Bagate	Electronics & Telecommunicat ion Engineering	136
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BA 301126



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU") is made at Mumbai on this ____ day of December 2020;

BETWEEN

Star Union Dai-ichi Life Insurance Co. Ltd., a Company incorporated under the Companies Act, 1956 having Itsgegistered office at 11th Floor, Vishwaroop IT Park, Piot No. 34, 35 & 38, Sector – 30A, Opp. Vashi Railway Station, Vashi, Navi Mumbai – 400703 India, (hereinafter referred to as "SUD Life" which expression shall unless repugnant to the meaning or context thereof also mean and include its successors and assigns) of ONE PART;









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WHEREAS VESIT-IT is an Educational institution and has undertaken a project of Municipal Corporation of Greater Mumbai for the Development of IT enabled solution for operation, maintenance & monitoring of community toilet & public toilet in M-East ward of the City of Mumbai in consultation with CT/PT operators and MCGM ("Swechchha Project").

AND WHEREAS the Swechchha Project has been awarded to VESIT-IT vide a duly notarised MOU signed on 2nd November 2020 & 25th September 2020 between Municipal corporation of greater Mumbai and Vivekanand Education Society's Institute of Technology ("VESIT-IT-MCGM MOU"), which is attached as Annexure 1 of this MoU.

AND WHEREAS Based on representations made by VESIT-IT, the SUD Life intends to provide financial assistance for Swechchha Project as per the project plan submitted by VESIT-IT which is attached as Annexure 2 on the agreed terms and conditions mentioned in this MOU and this financial support shall be under CSR initiative of the SUD Life.

NOW THIS MOU WITNESSETH AND IT IS HEREBY AGREED BY & BETWEEN THE PARTIES HERETO AS FOLLOWS:

Sponsorship

SUD Life shall in pursuance of its Corporate Social Responsibility and objectives initially intend to provide financial assistance for the Swechchha Project at M-east Ward of Municipal Corporation of Greater Mumbai which shall be completed in next two (2) years i.e. January 2021 to December 2022 as mentioned in the Table in Annexure 2 and the scope as more specifically mentioned in the VESIT-IT-MCGM MOU. The completion period of the Swechchha Project for M-east Ward of Municipal Corporation of Greater Mumbai may be extended for a maximum period of 6 months (except in case of delay arising due to happening of any Force Majeure Event). Any further extension shall be agreed in writing by both the parties. For the next phase of the Swechchha Project to cover Mumbai Jurisdiction or pan India, the parties will separately agree on terms and conditions including total project cost. Any changes in the requirement resulting in financial implications shall be pre-approved in writing by SUD Life. SUD Life may at its sole discretion also choose to discontinue disbursement of further financial support, in case of unauthorised deviation from approved plan, SUD Life shall be required only to provide financial support subject to terms and conditions of this MOU and shall not have any liability of whatsoever nature for any deficiency or delay in the Swechchha Project caused by VESIT-IT or any 3rd party.

Utilisation of Funds

VESIT-IT agrees to utilise the funds of Financial Support only for the Swechchha Project for the activities as specifically mentioned in Annexure 2 of this MOU and shall not utilise it for any other activity. VESIT-IT shall utilise the fund within a period of two (2) years. VESIT-IT may take an additional period of six (6) months for utilising the funds for the Swechchha Project, subject to prior intimation to SUD Life. VESIT-IT agrees that it shall not transfer any part of the Financial Support and/or any assets created/purchased from the funds of Financial Support, to any other person, without the prior written consent of SUD Life.

3. Representation and Warranties of VESIT-IT

VESIT-IT covenants to SUD Life that:

(i) It has full power, capacity and authority to sign, execute, deliver and comply with the terms and conditions laid down herein and shall take all necessary action (corporate, statutory or otherwise) to execute and authorize the execution, delivery and performance of this MOU.

 (ii) It has all the prior permission or registration approvals under applicable laws in relation to securing contribution from the SUD Life.

s approval and permission from MCGM & other necessary authorities to consider



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- display the name & logo of SUD Life as Financial Partner for the Project at all places including the applications and other promotional material.
- (iv) The use of Financial Assistance provided by the SUD Life shall be utilised only for the Sponsorship Activity as mentioned in Annexure 2 of this MOU.
- (v) Any deviation from the approved plan shall be agreed in writing by SUD Life
- (vi) It shall comply with and agree to comply with all applicable laws, regulatory requirements whilst undertaking the said plan to execution and SUD Life is not responsible for any statutory compliance and its role is purely restricted to financial assistance.
- (vii) It shall maintain confidentiality of the terms of this MOU.
- (viii) It is not stopped by any law or any other agreement with any party to execute this MOU with SUD Life.
- (ix) it has obtained permission and consent from MCGM for entering into this MOU and agreeing for its obligation to perform.
- (x) Represented that during the term of this MOU or for such extended period as mentioned in this MOU shall not enter into a similar MOU with any other party inducting them as a partner in the Swechchha Project.
- (xi) nothing in this MOU shall create or be deemed to create any relationship of partnership or control over the management of VESIT-IT.

4. VESIT-IT Obligation

- a. It is hereby clarified that the role of SUD Life will be limited only in providing Financial Support in accordance with the terms and conditions of this MOU. The Parties hereby agree that VESIT-IT shall be responsible for the actual implementation of the Swechchha Project. It shall be the obligation of the VESIT-IT to utilize the funds of Financial Support received from SUD Life for the implementation of said Swechchha Project only.
 - VESIT-IT shall liaison with the Municipal Corporation of Greater Mumbai & other entities as required for the implementation of the Swechchha Project including arranging for requisite place/ infrastructure as may be required for the implementation of the Swechchha Project.
 - It is agreed between the Parties that VESIT-IT shall submit the reports to SUD Life on a monthly basis or such periodical intervals or as and when required by SUD Life. The format of the Swechchha Project report/ Funds Utilisation report shall be mutually agreed between the parties.
- VESIT-IT hereby undertake, to fully demonstrate by way of invoices, receipts or any other documents, to SUD Life of expenses already incurred/committed by it.
- e. Without prejudice to its rights under this MOU, the Parties agree that SUD Life shall be entitled to seek any clarifications whatsoever from VESIT-IT with respect to utilization of the Funds for the Swechchha Project. Any such clarification sought by SUD Life shall be answered by VESIT-IT within such time as informed by SUD Life.
- VESIT-IT shall designate a competent person to coordinate with SUD Life and shall provide the contact details of such designated person.
- g. VESIT-IT agrees to allow SUD Life's employees or authorised representatives to visit the place where Swechchha Project work is being carried out or implemented and meet people who are involved in the Swechchha Project on prior written intimation.
- VESIT-IT shall ensure obtaining all permissions/approvals as are required for the implementation of this Swechchha Project and shall share such approvals with SUD Life as and when demanded for.
- VESIT-IT undertakes to be responsible for any issue / dispute in respect of any matter whatsoever with regard to the Swechchha Project.
- VESIT-IT shall periodically submit a request letter for release of Financial Support as per the progress
 of the Swechchha Project along with relevant supporting documents.

5. Covenant of VESIT-IT

VESIT-IT has represented to SUD Life that the Swechchha Project being subject of this MOU is an initial Project for a period of two (2) years for M-east Ward of Municipal Corporation of Greater Mumbai. Based on the suc



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said Municipal Corporation for other wards; and/or other districts within the state of Maharashtra; and/or other states in India.

VESIT-IT hereby Covenants with SUD Life that:

- a. SUD Life shall be sole & exclusive financial partner for this Swechchha Project
- b. Notwithstanding anything contained in this MOU; VESIT-IT shall ensure to recognize SUD Life by displaying the name and logo (as shared by SUD Life) as its exclusive financial partner for the Swechchha Project in all the online and offline promotion including but not limited to print media, broadcasting, mass media platforms, etc., during the period as under:
 - If MCGM does not award VESIT-IT for future maintenance of the Swechchha project, name and logo of SUD Life shall be used for the terms of this MOU and wherever, the name and logo of VESIT-IT shall be used by MCGM as a developer, the name and logo of SUD Life shall be used as development financed by SUD Life
 - If MCGM awards VESIT-IT for maintenance of the Swechchha project and SUD Life does not finance the maintenance of the project, name and logo of SUD Life shall be used for 5 years from the date of signing of MOU as development financed by SUD Life
 - If MCGM awards VESIT-IT for maintenance of the Swechchha project and SUD Life also agrees to finance the maintenance of the project, the name and logo of SUD Life shall be used as per fresh agreement with VESIT-IT.
- c. In case, other similar Projects are awarded to VESIT-IT, for other Wards or locations for the whole of Maharashtra or PAN India, then SUD Life shall be given first right of refusal. Only, if SUD Life refuses to grant its acceptance to finance such other Projects, then only VESIT-IT may approach others for inducting them as a partner.

6. Financial Assistance and Payment Terms

- The Total Sponsorship Support under this MOU for the Swechchha Project is restricted to a maximum of INR 24,00,000/- (Rupees Twenty-Four Lakhs Only).
- Asy excess amount, if any incurred by VESIT-IT for the Swechchha Project shall be mutually
 discussed between the parties. SUD Life to incur the additional cost, only to the extent as explicitly
 agreed in writing by SUD Life.
- c. In a foresaid amount shall be remitted in a staggered manner over a period of 2 years, subject to completion of each milestone in the Swechchha Project.
- d. Street completion of each Swechchha Project milestone, VESIT-IT shall provide confirmation to SUD Life along with supporting documents and the same shall be certified by the Audit Team of SUD Life.
- e. Only on achieving the milestone for which the financial support was released, the funding for next activity would be released. In case of unutilised amount for any activity, the further funding, if SUD Life agrees to release, then the same shall be subject to deduction of the earlier unutilised amount.
- f. The schedule of remitting financial support shall be as per Annexure 3 of this MOU.

7. Branding

- a. VESIT-IT shall ensure that branding of SUD Life and/or Star Union Dai-ichi Life Insurance Co. Ltd. ("SUD Life") shall be visible on the website/ applications or any promotional and/or other materials developed for the Swechchha Project in all online and offline platforms including but not limited to print media, broadcasting, mass media platforms, etc.
- b. The logo of SUD Life shall be as annexed with Annexure 4 of this MOU unless changed and informed in writing by SUD Life to VESIT-IT. The logo may also be used in vernacular language and shall be provided by SUD Life.
- c. Notwithstanding the MOU is in force or expired or terminated for whatsoever reason, VESIT-IT agrees to ensure that the Branding as a Financial Partner shall be used for the Swechchha Project as specifically mentioned in clause 5(c) of this MOU.
- d. VESIT-IT shall use the branding of SUD Life and SUD Life only in the format & style as provided by SUD Life and shall not carry any changes of whatsoever nature without prior written consent of authorised signatory of SUD Life.





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- e. VESIT-IT shall not use the name & logo of any other company in the Swechchha Project without prior express written consent of SUD Life. Any breach of this term shall be considered as material breach of the terms and conditions of this MOU and such default shall be liable for cost and damages.
- f. VESIT-IT acknowledges that the trademark and trade name and all trademarks and trade names of SUD Life or SUD Life are the exclusive property of SUD Life or its affiliated companies; and VESIT-IT is not entitled, either by implication or otherwise, to any title in or use of the Trademarks, except in accordance with the express written permission of the authorised signatory of SUD Life, such permission to be given or withheld at the sole discretion of SUD Life.
- g. In case of any changes in the branding of SUD Life; SUD Life shall inform accordingly to VESIT-IT and VESIT-IT shall be under obligation to carry such changes of all the existing online and offline platforms or if under process of being developed, without any cost obligation on SUD Life.
- h. Notwithstanding anything contained in this MOU, during the subsistence of this MOU or on termination, SUD Life at its sole discretion may instruct in writing to VESIT-IT to temporarily or permanently discontinue usage of the branding of SUD Life and VESIT-IT shall be under obligation to immediately discontinue such usage, without any cost obligation on SUD Life.

8 INDEMNITY

- a. VESIT-IT further agrees to hold harmless and indemnify SUD Life and SUD Life and its employees from and against any and all losses, claims, damages, proceedings, judgments, liabilities, fees, expenses and disbursements relating to or arising out of (i) misuse of the Financial Support received from SUD Life or (ii) any breach of the covenants/ provisions contained in the MOU or (ii) infringement of any 3rd party IPR; or (iv) breach of applicable law; or (v) any act or omission of VESIT or its employees, agents etc., while implementation of the Swechchha Project.
 - Notwithstanding anything contrary contained in this MOU, neither party shall not be liable for any special, indirect, consequential, or incidental damages (including but not limited to damages for loss of business profits, business interruption, loss of business information, and the like) arising out of this MOU, any documents referenced in this MOU, or any addenda or amendment hereto. This clause shall survive the expiry or the earlier termination of this MOU.

9. Term & Termination

- This MOU shall come into effect from the date of its execution and shall remain valid for a period of two (2) years or the date of completion of the Swechchha Project, whichever is later.
- Notwithstanding anything contained hereinabove, SUD Life may forthwith terminate this MOU, without notice and with immediate effect for any of the following reasons
 - In the event of any regulatory directive or deviation from the terms of this MOU, SUD Life can forthwith terminate this MOU.
 - Gross negligence or fraud by VESIT-IT or any of its representative or employees, while implementation or operation of the Swechchha Project
 - Dissolution of Financial Support by VESIT-IT for any other purpose then the one specified in the MOU hereof.
 - iv. Breach of any terms and conditions of this MOU or VESIT-IT-MCGM MOU
- c. In case of termination, prior to full utilization of the Financial Support and/or completion of the Swechchha Project, any unutilized Financial Support shall be refunded by VESIT-IT to SUD Life without any demur or protest. VESIT-IT hereby undertake, to fully demonstrate by way of invoices, receipts or any other documents, to SUD Life of expenses already incurred/committed by it on the Swechchha Project till the time of termination.
- Notwithstanding anything contained in this MOU, it is agreed that the obligation of VESIT-IT as mentioned in clause 7 (Branding) shall continue even post expiry/ termination of the MOU.

10. CONFIDENTIALITY

VESIT-IT hereby acknowledges and agrees that any and all confidential information howsoever related to SUD Life or SUD Life and/or which may be made available to VESIT-IT by or on behalf of SUD Life and/or which may be made available to VESIT-IT any of its advisors, officers or employees or otherwise learned by VESIT-IT and



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course of the provision of Services under this MOU will be treated by VESIT-IT as being information of a confidential nature ("Confidential Information").

VESIT-IT shall:

IRY

- not use any of the Confidential Information under this MOU otherwise than for the purpose of performing its obligations under this MOU;
- At all times, during and after the Term, maintain the confidentiality of the Confidential Information and any copies, photographs, drawings or recordings of any type whatsoever of any of the Confidential Information using the same standards of protection as it applies to its own confidential information;
- c. Only make available the Confidential Information to such of its employees, contractors, agents and professional advisors as required to perform the obligations under this MOU and further have been informed by VESIT-IT of the confidential nature of the Confidential Information and of their obligations in respect thereof;
- d. Forthwith on request of SUD Life and in accordance with such request or upon termination of this MOU either:
 - Return to SUD Life all of the Confidential Information together with all copies, notes or records derived there from and without retaining any copies of the same; and
 - (ii) Destroy all of the Confidential Information which is together with all copies, notes or records derived there from including anything stored in electronic medium and provide a certificate to the same effect.

This Clause does not pertain to the information which is in public domain otherwise than by the reason of any breach of this MOU.

1. Audit & Inspection

SUD Life or its auditors and regulators, will have the right from time to time to conduct audits of VEST-IT for accounts pertaining to Project Swechchha.

OFSIT-IT will provide SUD Life and all other persons conducting an audit, with reasonable access to
its facilities, software, data, records, and personnel for the purpose of performing such audits
pertaining to Project Swechchha and shall provide such persons with any assistance that may be
reasonably required in connection with such audit. VESIT-IT ensures to cooperate with the auditors
performing audits pertaining to Project Swechchha by or on behalf of SUD Life.

- c. The Parties shall develop and follow procedures for the sharing of audit and regulatory findings related to the provision or receipt of the Services. VESIT-IT agrees to respond in writing to any observations made by any audit and shall at its own cost and expense diligently rectify, as appropriate and as agreed with SUD Life, all shortcomings identified in the course of an audit which fall within the defined scope of the Services within the time periods agreed to.
- The audit and regulatory personnel engaged by SUD Life shall be governed by the confidentiality clause under this MOU

12. Anti-Bribery

VESIT-IT confirms that it shall conduct its business in compliance with applicable anti-bribery and corruption laws. It further confirms that it shall not directly or indirectly offer, promise, pay, accept, receive, or solicit a bribe of any kind, to or from any person or entity in order to obtain favourable treatment in the Swechchha Project or any such advantage or for any other purpose. It further represents and confirms that it has not been the subject of any investigation, inquiry or enforcement proceedings by any governmental, administrative or regulatory body regarding any offence or alleged offence under applicable anti-bribery and corruption laws.

13. Dispute Resolution

This MOU at the governed by and construed/enforced in accordance with the laws of India. The courts of Mumph, shall have exclusive jurisdiction to try and settle any dispute or controversy arising out of the



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MOU. Any and all disputes or differences between the Parties arising out of or in connection with this MOU or its performance or the rights, duties or obligations of the Parties hereunder shall (the "Disputes"), so far as it is possible, be settled arnicably through consultation between the senior management of the Parties and if not successfully resolved, then the same shall be resolved through arbitration by a sole arbitrator to be mutually agreed by the parties. The arbitration shall be in accordance with the Arbitration & Conciliation Act, 1996 and place of arbitration shall be Mumbal.

14. Force Majeure

If at any time during the term of this MOU, the performance in whole or in part by VESIT-IT of any obligation under this MOU is prevented or delayed by reasons of any war, acts of the public enemy, major civil commotion, major fires, major floods, serious explosions, epidemics, pandemic, major strikes and lockouts or act of God (hereinafter referred to as "Force Majeure Event"), notice of happening of any Force Majeure Event shall be given by VESIT-IT to SUD Life within two (2) days from the date of occurrence thereof and shall resume Swechchha Project as soon as possible after such a Force Majeure Event comes to an end or ceases to exist. Both the parties agree that the current pandemic of COVID-19 shall not be considered as Force Majeure, unless specific stringent restrictions are imposed by the government, completely affecting the ability to perform by either party. In the event the Swechchha Project does not commence, by reason of such Force Majeure Event for a period exceeding fifteen (15) days, SUD Life, at so option can terminate the MOU without incurring any liability unless otherwise mutually agreed between the Parties in writing and shall be entitled to seek refund and VESIT-IT shall be under obligation to return the financial support already remitted by SUD Life, but remain unutilized:

15. Notice

Any notice, direction or other documentation required or remitted to be given hereunder shall be in writing and may only be given by personal delivery, courier, (with confirmation received) at the addresses hereinafter set forth:

For SUD Life SUD Life

Kind Attn: Rajesh Mourva

Address: 11th Floor, Vishwardop IT Park, Near Vashi Railway Station, Sector 30A, Vashi, Nevi

Mumbai - 400 703

For Vivekanand Education Society's Institute of Technology

Kind Attn: Dr. (Mrs.) M. Vijayalakshmi – Department of Information Technology

email: M Vijayalakshmi <<u>m vijavalakshmi@ves.ac.in></u>

Kind Attn: Dr. (Mrs.) Shanta Sondur - Department of Information Technology

email: Shanta Sondur <<u>shanta sondur@ves.ac.in</u>> Address: Hashu Advani Memorial Complex, Collector's colony,

Chembur, Mumbai – 400074

Tel: {022} 6153 2500

Miscellaneous

- If any section or paragraph, or part thereof, of this MOU or any document appended hereto or made a part hereof is rendered invalid, ruled illegal by any court of competent jurisdiction, or unenforceable under present or future laws effective during the term of this MOU, then it is the intention of the Parties that the remainder of the MOU, or any document appended hereto or made a part hereof, shall not be affected thereby.
- VESIT-IT shall not assign this MOU in whole or in part to any other party, without the prior written consent of SUD Life.
- The relationship between SUD Life and VESIT-IT is that of principal to principal basis.
- d. This MOU together with the Annexure and any supplements executed between the Parties hereto, constitutes the entire understanding between the Parties hereto with respect to the matters dealt with herein and supersedes any previous Agreement/ MOU, whether in oral or in writing, between







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the Parties hereto in relation to such matters.

 Addendums: No modifications, amendment or waiver of terms and conditions of this MOU shall be binding unless made specifically in writing and upon the mutual consent of the Parties.

IN WITNESS WHEREOF the parties hereto have set their hands and seals on the day and year first above written.

For Star Union Dai-ichi Life Insurance Co. Ltd.	For Vivekanand Education Society's Institute of Technology
Name: Rakesh Kumar	Name: Dr. (Mrs.) M. Vijayalakshmi
Title: Company Secretary	Title: Vice-Principal, VESIT
Date: 18 th December 2020	Date: 18th December 2020
Place: Chembur, Mumbai	Place: Chembur, Mumbai
ME, Rajesh Mourya	Dr. (Mrs.) Shanta Sondue



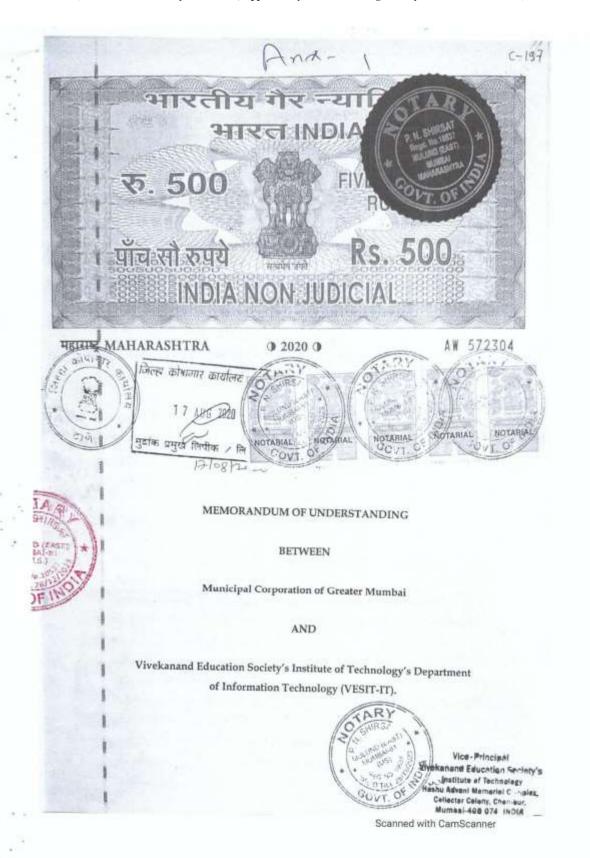








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MEMORANDUM OF UNDERSTANDING

This Memorandum Of Understanding (MoU) is made on ____

BY AND BETWEEN

Jt. Municipal Commissioner (Solid Waste Management), Municipal Corporation of Greater Mumbai, having its office at 3rd Floor, Annex Building, Mahapalika Marg, C.S.T. Mumbai - 400001, hereinafter referred to as "MCGM" (which expression shall be deemed to mean and include its successors and permitted assigns) through its Municipal Commissioner, Mr. Iqbal Singh Chahal, IAS.

AND

Vivekanand Education Society's Institute of Technology, affiliated to University of Mumbai, approved by AICTE and recognized by Government of Maharashtra, located at Hashu Advani Memorial Complex, Collector's Colony, Chembur, Mumbai-400074, an institute established in 1984 by Vivekanand Education Society, hereinafter referred to as "VESIT-IT", (which expression shall be deemed to mean and include its successors and permitted assigns) through its Vice-Principal Dr. (Mrs.) M. Vijayalakshmi.

WHEREAS

- A. Municipal Corporation of Greater Mumbai (MCGM), is responsible for city planning, resource allocation and management, delivery of infrastructure & services and overall administration and citizen welfare of Greater Mumbai.
- VESIT-IT is the department of Information Technology at Vivekanand Education Society's Institute of Technology (VESIT).
- C. VESIT-IT and MCGM seek to collaborate for developing an IT enabled solution for operation, maintenance and monitoring of Community Toilet (CT) and Public Toilet (PT) blocks in M East ward of the city of Mumbai in consultation with CT/PT operators and MCGM.

The parties hereto in consideration of the mutual covenants set forth herein and subject to the terms and conditions set forth in this Memorandum of Understanding agree as follows:

NOW THIS MEMORANDUM OF UNDERSTANDING WITNESSETH AS UNDER:

I. Scope

Vice-Principal
Vivekenand Edunation Carino's
Institute of Technology
Hastru Asian - Lineva Cerrica,
Cellocter Copy, Chembur,
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VESIT-IT shall act as a knowledge partner to MCGM for developing an IT enabled solution for operation, maintenance and monitoring of Community Toilet (CT) and Public Toilet (PT) in the M East ward of the city of Mumbai, in collaboration with Community Based Organizations (CBOs), Non Governmental Organisations (NGOs) and MCGM. Scope of the engagement would include but is not limited to the following: 1. A Mobile App on Android and iOS: a. CBO/NGO members for easing operation and maintenance of CI/PI b. Respective users of a community/floating population in registering their complaints and giving feedbacks. c. Facilitating contact of respective authorities in case of emergencies. d. Assisting MCGM in collecting the data useful in knowing the utility of CT/PT blocks and the usage of the funds in the Slum Sanitation e. Facilitating toilet search for a traveller in the city. (Toilet Finder) f. notifying current 'cleanliness and usability' status of the toilet block to users and authorities g. To facilitate User Profile Management h. To provide Toilet usage History i. For Record keeping of payments done by user (for toilet use) j. To assess Feedback and Complaint mechanism k. To provide Emergency Contact 1. Notification/ alert System m. Bug fixing and maintenance for M East Ward. a. For creation and maintenance of Account for different stakeholders i. MCGM officials ii. CBOs III. NGOs iv. CBO Federation Representatives v. Other Users (As required) b. for ease of data handling/logging c. for generating custom reports with analytics for MCGM officials to act as a decision support system for MCGM. d. Handholding, Awareness and Training Programme for community people/ PT operators and MCGM staff. Vice-Principal e. By Creation of user (roles). f. By Registration of CBOs belonging to the areas and ch

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C-103 g. To facilitate Asset Management for registered CBOs. To facilitate Simple reports for MCGM officials and CBOs. To provide Complaint Redressal System. By Bug fixing and maintenance for M East ward. II. Roles and Responsibilities of VESIT-IT: a. Seeking funds through Corporate Social Responsibility (CSR) for funding the project and for the sustainment and maintenance of the App in M East ward of MCGM. Implementation and maintenance of the Mobile app and Website. c. Data collection using paper based form with help of CBO members with the support of MCGM staff at M East ward. d. CBO and User/Citizen Registration on the website/mobile App monitored by CBO members and MCGM staff at M East ward. e. Bug fixing and maintenance for M East ward. f. Creating awareness and popularizing the app for sustainability (through Advertisement). Marketing and awareness can be done by propagating websites and mobile apps for revenue generation, for awareness advertise on social media, you tube channel, newspaper and mouth publicity. Advertisement on existing MCGM portal and App based on permissions. For self sustainment of CBOs, product manufacturez, specifically in sanitization area may be contacted, to either sponsor or advertise their product on the app as well as on Handholding, Awareness and Training Programme for community people/ PT operators, CBO officers of all wards, CBO federation and MCGM SWM staff, mock demonstration, prepare stakeholders to handle future apps. Role specific training for CBO officers and CBO federation, MCGM staff pertaining to M East ward of MCGM. Develop an infrastructure for Data Management for the pilot project. i. Enabling two way API integration between the website and various MCGM apps / services as suggested by MCGM. Monitoring of website and mobile app usage. k. To provide Helpdesk and Post Implementation Support during contract period. Online and offline support will be provided to M East ward as and when required. L. Facilitator of all IT works within the scope of the project. m. A detailed project plan outlining clear timelines for all activities to be submitted to MCGM within 30 days from the date on which the MoU comes into effect. Institute of Technology Scanned with CamScanner



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n. VESIT-IT shall work on creating an Information, Education and Communication (IEC) plan for roll out of the project for MCGM to At regular intervals, VESIT-IT team members shall meet the MCGM representatives and share updates on the progress made on the plan and challenges faced if any. p. To provide hosting services with DC and DR at no extra cost to MCGM. q. To develop Reporting and MIS so that authorities will be able to generate reports about Users / Citizen (with filters like: 'ward', 'community', 'gender', Revenue Generated at a toilet block. · Footfall count (Daily/weekly/monthly) at particular toilet Ratings provided by the user to particular toilet block. r. To generate customized reports as suggested / required by the To exit from ward after the successful implementation and to enter into monitoring phase. To obtain 'Safe to Host' security certificate before Go-Live and thereafter every six months. u. To document and share/handover technical documents such as User Manual, Configuration manuals, Source code etc. v. To obtain SSL certificates and pay Google and Apple for user fee for uploading documents. w. Details of Key sources: Dedicated project staff and advisors would be working on the project. Cost incurred for the development and training to be supported by VESIT through CSR funding. Dedicated space and computational resources to be allotted at VESTI campus. Dedicated team with VESIT IT faculty project staff plus students will handle all the future enhancements within the contract period subject to the availability of funds through CSR. x. Timeline and deliverables: Pilot Project Developed for M Ward: · 1 year span for prototyping, development, implementation and 1 year span for improvement the fauthion society as per MCGM required and Training facilities of Technology Mediu Asyani No-norisi Comple

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peliverables would include the Mobile App and Website along with technical

III. Roles and Responsibilities of MCGM:

- MCGM shall provide necessary assistance in popularizing and creating awareness of the Mobile App / Website.
- MCGM shall provide Ward Level Map and Details of Public Toilet and Community Toilet Blocks in M East ward.
- 3) MCGM shall provide details of CBOs and CBO Federation.
- 4) MCGM shall provide a hierarchy of officials to be incorporated as a role in the Mobile App/Website, also the official email IDs of these authorities to enable Single Sign-On (SSO) if needed.
- MCGM shall provide mapping of Engineers to Wards and to Civic Issue Categories In M East Ward.
- 6) MCGM shall ensure the MCGM technical team works with VESIT-IT development team to enable the two way API integration if/when needed.
- 7) MCGM shall provide GIS information of CT / PT blocks if already available. If and where this information is not available MCGM may provide necessary assistance to VESIT-IT team in gathering such information.
- MCGM shall encourage the usage of Mobile App and Website by CBOS/PT operators, ward officials and senior officials as required.

IV. Term

This Memorandum of Understanding shall come into effect immediately on signing of the same by both the parties and shall remain in force until

V. Intellectual property and Data ownership

- VESIT-IT shall be credited as the developer for the entire duration of existence of the platform. For the purpose of the project VESIT may approach CSR funds whose entity will be credited on the platform.
- 2) All data generated by the deployment of the Platform for MCGM will be sole property of MCGM, however VESIT-IT shall seek the prior permission from MCGM to if they wish to use the data for academic research purpose. The status update/progress related reports relevant to the project can be shared with CSR sponsor. Any data available in public domain can be used by CSR
- The Intellectual Property Rights in all Standard Software and Standard Wise Principal Materials shall remain vested with MCGM. However, VESIT-Whitehant addition Sector's Institute of Technology

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NOC from MCGM if they wish to implement this application in other Government agencies/Municipal Corporations in or outside Maharashtra.

- 4) The Intellectual Property Rights in all Custom Software and Custom Materials shall, vest in MCGM. VESIT-IT shall do and execute or arrange for the doing and executing of each necessary act, document, and thing that MCGM may consider necessary or desirable to perfect the right, title, and interest of MCGM in and to those rights. In respect of such Custom Software and Custom Materials, VESIT-IT shall ensure that the holder of a moral right in such an item does not assert it, and VESIT-IT shall, if requested to do so by MCGM and where permitted by applicable law, ensure that the holder of such a moral right waives it.
- 5) No license to a party, under any trademark, patent, copyright, design right, mask work protection right, or any other intellectual property right is either granted or implied by the conveying of Confidential Information to such party.

VI. Dispute resolution and Jurisdiction:

The provisions of this Memorandum of Understanding shall be governed by, and construed in accordance with Indian law, and any dispute, controversy or claims arising out of or relating to this Memorandum of Understanding shall be settled by arbitration in accordance with the Indian Arbitration and Conciliation Act, 1996. The reference of the dispute shall be to a sole arbitrator if the parties agree upon one, failing that each party shall appoint one arbitrator, and the arbitrators so appointed shall appoint the third presiding arbitrator. Arbitration proceedings shall be held in Mumbai, and the language of the proceedings shall be English. Subject to the provisions for arbitration above, this MoU shall be subject to the jurisdiction of the Courts in Mumbai.

VII. Notices:

Any notice or other communication required or permitted to be given hereunder shall be in writing and dispatched by hand delivery or Registered Post Acknowledgement Due (RPAD) or by courier to the address specified below, and shall be deemed sufficiently made or given on the date of delivery if delivered by hand, or on the date of mailing if dispatched by registered post acknowledgement due or by courier. Either party may change its address, by written notice to the other.

The following documents are and shall be deemed to form part of this MoU and shall be read and construed to be part of this MOU as if they were viod-Principal incorporated in this MoU.

Whekanane Education Society's

a. The letter issued to recognize Department of Information and Property Committee (Committee of Section Committee) (Committee of Section Committee of Section Committee of Section Committee of Section Office of

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(IT) of Vivekanand Education Society's Institute of Technology (VESIT-IT), as a knowledge partner in development of the ITeS based solution for operation and maintenance and monitoring of Community Toilet (CT) and Public Toilet (PT) in M East ward in the city of Mumbal, in collaboration with CBOs, NGOs and MCGM vide no. Ch.E. S.W.M. 2810

b. Non Disclosure agreement between MCGM and VESIT-IT.

VIII. Indemnity:

Vivekanand Education Society's Institute of Technology (VESIT-IT) shall keep the MCGM, their officers and servants harmless and indemnified from and against all losses suit, damages, cost, charges, claims and demands whatsoever including claims under the Workmen's Compensation Act, 1923 which their officers or servants may sustain, incur or become liable to pay for the reason or in corresquence or any injury to any person or persons or to any property either belonging to the MCGM or any third party whether resulting directly through any accident or otherwise to life or property while carrying out any work pertaining to the said contract. Such damage, injury or loss to life or property shall be made good and/or as the case may be shall be paid immediately by the Vivekamand Education Society's Institute of Technology (VESIT-IT).

Municipal Corporation of Greater Mumbai 3rd Floor, Annex Building, Mahapalika Marg, CST, Mumbai-400001 Tel: +91 22 22620251 /022 - 22616831 Email: dmc.swm@mcgm.gov.in

VESIT-IT:

Dr. (Mrs.) M. Vijayalakshmi Dr. (Mrs.) Shanta Sondur Department of Information Technology, Vivekanand Education Society's Institute Of Technology. Hashu Advani Memorial Complex, Collector Colony, Chembur East, Mumbai Tel: 022 61532 500 Email: m.vijayalakshmi@ven.ac.in Email: shanta.sondur@ves.ac.in

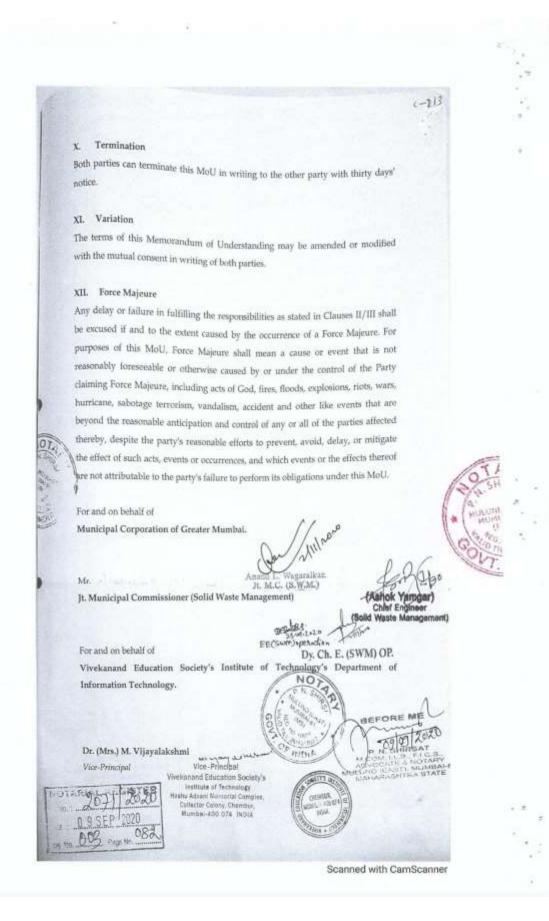
IX. Limitation on the liability

Given the non-financial nature of the agreement, and the dependency of the Street of the Agreement of the Ag success of this collaboration, no party is liable in any way. Institute of Technology feshu Aeveni Mamerial Campi Callecter Celeny, Chambur Mumaai-466 974 Jubia

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Annexure 2

Swechchha Project shall include the scope of services of VESIT-IT as specifically mention in the MOU executed between Municipal corporation of Greater Mumbai & Vivekanand Education Society's Institute of Technology and also captured in below table:

Sr. No.	Item	Category	Recurring	Unit Cost	Unit Count (INR)	Total Cost for 2 years	Remarks
1	Development Cost (for first version): 5 Faculties investing approx 200 Hours	Development	No	1,000	200	2,00,000	
2	Workshops: Training to M(E) ward approx 800 people in slots of 50 each. including Hospitality	Training	Yes	16	10000	1,60,000	Approx 1000 CTs & 1000 PTs Training for 2 person per CT/PT Training for 4000 persons in 3 years Slot of 100 persons, an 40 sessions (slota)
3	Computers for Data Back Up, Development and Testing the services.	Infrastructure	No	75,000	2	1,50,000	
4	Data Centre Dedicated Server Room in VESIT (Cost of Furnishing, Electrical Fittings, ACS)	Infrastructure	No	1,00,000	1	1,00,000	
5	Dedicated Server Room in VESIT (Networking: Equipment, Cabling and fitting)	Infrastructure	No	50,000	1	50,000	
6	Surveys	Development	Yes	50,000	1	50,000	
7	Dedicated Server hosted at a Leading Hosting Service Provider (Charge for 1 Year)	Deployment	Yes	1,00,000	2	2,00,000	
8	Support: 3 Faculties investing approx 200 Hours after Development	Support	Yes	800	200	1,60,000	
9	Internet charges for Server Room Per year cost, Sharing Basis	Infrastructure	Yes	30,000	1	30,000	
10	Project Staff Charges	Development and Training	Yes	50,000	24	12,00,000	
11	Miscellaneous	#	595	2	- 54	1,00,000	

Total

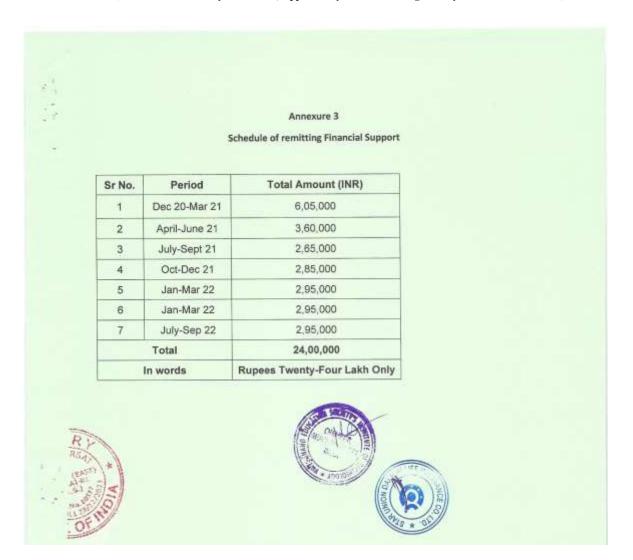
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Lifna C S < lifna cs/lives.ac.in>

Fwd: Microsoft Al for Earth Grant Decision ID:00010000186

Sharmila Sengupta <shamila.sengupta@ves.ac.in> To: Lifna.C S <lifna.cs@ves.ac.in>

Sat, Nov 28, 2020 at 12:04 AM

From: Pooja Nagdev cpopia.nagdev@ven.ac.in>
Date: Sat, 28 Nov 2020, 00:03

Subject: Fwd: Microsoft Al for Earth Grant Decision ID:00010000186
To: Sharmila Sengupta <sharmila.sengupta@ves.ac.as>

To: Pooja Nagdev spoola nagdev@ves.ac.in



Dear Pooja Nagdey,

Congratulations, and welcome to the AI for Earth community! We are excited to share that your application for the project trilled "Monitoring and Assessing Coral Reets in Oceans" has been selected for an AI for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$5000 USD, to be utilized within one year.

By accepting this award, you agree to the following terms:

- You will use Microsoft Azure credits awarded through this program only towards the project described in the application form.
 Microsoft will add you and your team members to resources including the Al for Earth grantee community website, Al for Earth grantee Microsoft Teams group, and digital events.

 You will submit a mid-term report and a final report according to Al for Earth guidelines.
- You will submit a mid-term report and a mail report eccurately or the incommunications.
 Microsoft may contact you and use materials that you submit for public communications.

Please accept this grant within one week of receiving this email by clicking "Accept Your Grant" on your grant portal home page. We will respond when you accept with next steps to access the onboarding webinar, sponsored Azure credits, and education resources.

Bonnie Lei

Al for Earth Grants Manager

Absorbed projects your privacy. Ravisio our unless Privacy Statement Macrosoft Corporation One Microsoft Way

Findmood, VAN, LYSA 98052

Pooja Nagdev cpooja.nagdev@ves.ac.in>
To: Lifna C S ifna.cs@ves.ac.in>

From: Al for Earth Grant Support <=dehelp@microsoft.com>

Date: Tue, 20 Oct 2020, 19:10
Subject: Microsoft Al for Earth Grant Decision ID:00010000186
To: Pooja Nagdev <pooja nagdev@ves.ac.io>

Wed, May 5, 2021 at 3:50 PM



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Lifna C S < lifna.cs@ves.ac.in>

Fwd: NC for SHORT TERM RESEARCH PROJECTS: FINANCIAL ASSISTANCE SCHEME - 2020-2021

2 messages

Nupur Giri <nupur.giri@ves.ac.in> To: Lifna C S <lifna.cs@ves.ac.in> Tue, Sep 7, 2021 at 9:21 AM

From: Nupur Giri <nupur.giri@ves.ac.in>
Date: Tue, 29 Sep 2020 at 3:55 PM
Subject: NC for SHORT TERM RESEARCH PROJECTS: FINANCIAL ASSISTANCE SCHEME – 2020-2021
To: J M Nair Financipal.vesit@ves.ac.in>, Vikas Pange <vikas.pange@ves.ac.in>

Dear Madam.

I am happy to notify that during lockdown I had send a **short term proposal research proposal** to THE TUBERCULOSIS ASSOCIATION OF INDIA, New Delhi titled "ARTIFICIAL INTELLIGENCE MODEL FOR EPIDEMIOLOGY OF TUBERCULOSIS" which has been approved for grant of financial assistance of Rs.30,000/-(Rupees Thirty Thousand

To complete the formalities I request you to kindly grant NOC for the same.

The project Proposal and the NOC format is attached herewith.

Thanks for all the motivation and support

Warm Regards

Forwarded message -----From: tbassnindia@yahoo.co.in <tbassnindia@yahoo.co.in>
Date: Mon, Sep 21, 2020 at 2:17 PM
Subject: SHORT TERM RESEARCH PROJECTS: FINANCIAL ASSISTANCE SCHEME – 2020-2021
To: nupur.giri@ves.ac.in <nupur.giri@ves.ac.in>

Dear Dr. Nupur,

We are pleased to inform you that your research project titled "ARTIFICIAL INTELLIGENCE MODEL FOR EPIDEMIOLOGY OF TUBERCULOSIS" has been approved for grant of financial assistance of Rs.30,000/-(Rupees Thirty Thousand Only).

You may send your consent to undertake the Research Project. If you have not forwarded the proposal through proper channel, may please submit the permission of the Head of the Department/Institution where you intend to conduct the research. Only on receipt of your consent and "No Objection Certificate" from the competent authority, the financial assistance will be released.

With good wishes,

(Subhash Chand Khatri) Secretary General

Dr. Nupur Giri, Professor & HOD,



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THE TUBERCULOSIS ASSOCIATION OF INDIA

"SHORT TERM RESEARCH PROJECTS": FINANCIAL ASSISTANCE SCHEME - 2020-2021

The following projects have been approved for funding during this year. The amount approved and other details are being communicated in letters to the individual Researchers.

 "A study on challenges in implementing artificial intelligence in diagnosing and managing respiratory diseases in tertiary health care setting in Tamilnadu".

Dr. S. Sangeetha, V.M.K.V. Medical College & Hospital, Salem

"A comparative study on nutritional status, hematological & biochemical parameters among elderly population with & without pulmonary tuberculosis in a tertiary health care hospital in Ghaziabad dist, India"

Dr. Juhi Aggarwal, Santosh Medical College & Hospital, Ghaziabad

"Identifying gaps in obtaining samples in Presumptive pediatrics pulmonary TB cases and obtaining solutions in selected districts of Telangana"

Dr. C. Sumalata, STDC, Hyderabad

4. "ARTIFICIAL INTELLIGENCE MODEL FOR EPIDEMIOLOGY OF TUBERCULOSIS"

Dr. (Mrs.) Nupur Giri, VES Institute of Technology, Chembur

"Applications of nanotechnology for smear-negative tuberculosis diagnosis in resourcelimited settings: A study from Warangal."

Dr.Malathi Jojula, Sri Shivani College of Pharmacy, Warangal

6. "Spirometry as a tool to motivate smoking cessation- An intervention Study"

Dr. K. Hemalatha, Trichy SRM Medical College Hospital and Research Centre, Tamil Nadu

 "Assessing physical and chemical properties of saliva among tuberculosis patients on anti-tuberculosis treatment- An observational study"

Dr. Vidya G Doddawad, JSS Dental College and Hospital, Mysuru

 "Vulnerability mapping for pulmonary tuberculosis among elderly receiving palliative care in Cochin corporation."

Dr. Sambhu Ramesh, Amrita Institute of Medical Sciences and Research Centre, Kerala



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5/10/2021

Welcome to Vivekanand Education Society Mail - Fwd: Welcome to the Microsoft Al for Earth Community - Azure Compute



Bincy Chellapandi <2018.bincy.chellapandi@ves.ac.in>

Fwd: Welcome to the Microsoft AI for Earth Community - Azure Compute

1 message

Sukanya Roychowdhury <aukanya.roychowdhury@ves.ac.in> To: 2018.bincy.chellapandi@ves.ac.in

Mon, May 10, 2021 at 2:13 PM

Forwarded message -From: Al for Earth Grant Support <ai4ehelp@microsoft.com>
Date: Sat, 25 Jan, 2020, 1:43 am
Subject: Welcome to the Microsoft Al for Earth Community - Azure Compute

To: sukanya.roychowdhury@ves.ac.in <sukanya.roychowdhury@ves.ac.in

cid:image001.png@01D590C0.6D355530

Dear Roychowdhury, Sukanya:

Congratulations, and welcome to the AI for Earth community! We are excited to share that your application for the project titled "Forest Fire Prediction using Machine Learning and AI for the Indian Subcontinent." has been selected for an AI for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$15000 USD, to be utilized within one year.

By accepting this award, you agree to the following terms:

- · You will submit a mid-term report and a final report according to AI for Earth guidelines
- · Microsoft may use materials (or summaries of those materials) that you submit as part of the application, mid-term report, and final report for public communications, including Microsoft websites (including use of your organization's trademarks and logos)
- Microsoft may contact you and your team members for additional information on your project
- You will attend a mandatory onboarding webinar on February 4, either 8am or 8pm PST.

Please accept this award by January 31, 5pm PST through this link. We will respond when you accept with next steps to access the onboarding webinars, sponsored Azure credits, and education resources.

Bonnie Lei

Al for Earth

Environmental Sustainability

aft Corporation

Com Microsoft Way

Redmond, WA, USA 98052

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2 attachments

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5/12/2021

Welcome to Vivekanand Education Society Mail - Fwd: Welcome to the Al for Earth Community



Bincy Chellapandi <2018.bincy.chellapandi@ves.ac.in>

Fwd: Welcome to the Al for Earth Community

1 message

Jayashree hajgude <jayashree.hajgude@ves.ac.in> To: 2018 bincy chellapandi@ves.ac.in

Tue, May 11, 2021 at 8:48 PM

From: SUMEDH GHAVAT <2017, sumedh. ghavat@ves.ac.in>

Date: Wed, May 6, 2020 at 2:47 AM

Subject: Fwd: Welcome to the Al for Earth Community

To: HARSHITA SINGH <2017. harshita.singh@ves.ac.in>, Jayashree hajgude <jayashree.hajgude@ves.ac.in>, PARTH KODNANI

Forwarded message -

From: Al for Earth Grant Support <aidehelp@microsoft.com>

Date: Wed, 6 May 2020 at 02:40

Subject: Welcome to the Al for Earth Community

To: 2017 sumedh.ghavat@ves.ac.in <2017.sumedh.ghavat@ves.ac.in>

Cc: Al for Earth Grant Support <ai4eheip@microsoft.com>



Dear Sumedh D Ghavat.

Congratulations, and welcome to the Al for Earth community! We are excited to share that your project titled "Land Use Classification Using Satellite Images" has been awarded an Al for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to 15,000 USD, to be utilized within one year

Please follow these next steps:

- · Accept this award by May 9th, 5pm PST through this link. The sooner you accept, the sooner we can get your account
- Active account created

 Activate your Azure account by following the instructions in the email from azure-noreply@microsoft.com with the subject "Welcome to Azure Sponsorship...", If you do not receive the email within 48 hours of doing step #1, contact
- Attend one of the onboarding webinars by following the instructions you will receive shortly via email through calendar
- invites.

 Browse the Al for Earth Community SharePoint site where you can find information on how to get started on Azure and interact with other Al for Earth grantees on Teams. If more team members want access to this site, email Al4EHelp@microsoft.com.

 Share any plans you may have around amplifying your Al4E award (including media outreach, press release, social media, etc.) with MSEnvironmentalSustainability@we-worldwide.com.

If you are nonprofit, academic, or start-up institution interested in accessing Esri software licenses, please follow the below instructions:

Esri software licenses for ArcGIS Pro and ArcGIS Enterprise can be provided for the one year term of the grant. Please note:

- Award details will be determined by working with each grantee directly
 Your licenses will expire in one year
 Your use of the software is subject to the standard software licenses for the products.

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5/12/2021 Welcome to Vivekanand Education Society Mail - Fwd: Welcome to the AI for Earth Community

Next steps:

- Please contact the appropriate representative to obtain access to the Esri Licensing award:
 Educational Institutions please contact Michael Gould MGould@esri.com
 Nonprofit Organizations please contact Steve Beckwitt SBeckwitt@esri.com
 Start-up Institutions please contact startups@esri.com
- If you already have access to Esri technology through an existing agreement, Esri will facilitate license distribution from the Educational Site License or Nonprofit Enterprise Agreement administrator.
 If you need access to Esri licenses, complimentary term licenses for ArcGIS Professional and ArcGIS Enterprise will be provided by the Esri support contacts listed above.

Bonnie Lei

Head of Global Strategic Partnerships



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One Microsoft Way

Redmond, WA, USA 98052





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Fwd: Microsoft AI for Earth Grant Decision ID:00010003308





Narayuni Patif warayangun 119@gmail.com

From All for Earth Grant Support - a defeatable record our Date: Wed, 3 Feb. 2021, 12:23 pm Subject: Microsoft All for Earth Grant Decision ID 90010903398 To Narayars Pats *carayappats09@smal.com*



Congratuations, and vescores to the All for Earth community. We are excited to share that your application for the project blted "All based Farmer Empowerment" has been selected for an All for Earth Microsoft Agure Compute Orant. Through this award, you will receive a opposition of Microsoft Agure account. We are granting you credits for Agure consumption up to \$10000 USD, to be utilized within one year.

By accepting this award, you agree to the following terms:

- You will use Microsoft Azure credits awarded through this program only towards the project described in the application form.
- Microsoft will sell you and your feen members to resource including the Alt for Earth grammer community wesoite. All for Earth grantee Microsoft Teams group, and
- . You will submit a mid-term report and a final report according to All for Earth guidelines.
- · Microsoft may contact you and use materials that you submit for public communications:

Please accept this grant within one week of receiving this email. By clicking "Accept Your Grant" on your grant nortal from e page. We will respond when you accept with next steps to access the onboarding webinar, aponsored Azure credits, and education resources.

Bonne Le

All for Earth Grants Manager

to your privacy. Herese our onice Privacy Statement





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स्वदेशी === CHALLENGE MICROPROCESSOR CHALLENGE LIST OF 100 SEMI-FINALISTS

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Lekshmi Nair <leksa.alternate@gmail.com>

Submission Received for स्वदेशी Microprocessor Challenge - Innovate Solutions for #आत्मनिर्भर भारत

1 message

MyGov Team <no-reply@mygov.in> To: leksa.alternate@gmail.com Mon, Sep 7, 2020 at 10:41 PM

Dear Lekshmi Ajesh Kaimal,

Congratulations !!

You have successfully registered for स्वदेशी Microprocessor Challenge - Innovate Solutions for #आत्मनिर्भर भारत with Registration ID: 8820933

The registered Team has the following members:

Team Lead : Lekshmi Ajesh Kaimal Member 1 : Gopalakrishnan Narayanan

Faculty 1: Prakash P Vaidya

Please STAY TUNED for further instructions on next steps on or before 31st August 2020 on https://innovate.mygov.in/

Regards,

Hardware Challenge and MyGov Team



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https://mail.google.com/mail/u/0/finbox/FMfcgzGkbOSZQPGhtmRLJqntHwpNwxnG?projector=1&messagePartid=0.1



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8/26/2021

Welcome to Vivekanand Education Society Mail - Fwd: Team ID 1025233, Cash Prize Details, IICDC Conclave 2019



Sangeeta PrasannaRam <sangeeta.prasannaram@ves.ac.in>

Fwd: Team ID 1025233, Cash Prize Details, IICDC Conclave 2019

ASHWIN PILLAY <2016.ashwin.pillay@ves.ac.in>

To: Sangeeta PrasannaRam <sangeeta.prasannaram@ves.ac.in>

Thu, Aug 19, 2021 at 5:23 PM

Forwarded message -

From: Shalini\Wings H.O <fin-eve1@wingsevents.com>

Date: Fri, 11 Jun, 2021, 7:53 pm

Subject: Team ID 1025233, Cash Prize Details, IICDC Conclave 2019

To: <2016.ashwin.pillay@ves.ac.in>

Cc: <x0290831@ti.com>, Alexy Kuriakose\Events\Wings H.O <alexy@wingsevents.com>

Greetings from Texas Instruments!

Congratulations for being among the Top 60 Winning team of IICDC Conclave, DST & Texas Instruments (TI) Inc. India Innovation Challenge Design Contest 2019', anchored by the Indian Institute of Management (IIM), Bangalore.

It gives us great pleasure to notify that the Prize money won by you and your team has been credited into the Team Leader's account as per the details mentioned below.

Cash Prize Amount : Rs -19477/-

Prize amount transacted: Rs- 13400/-

UTR number : 106109679675

TDS @ 31.2% : Rs -6077/-:10.6.2021 Date transferred

PS: Action Required: Kindly acknowledge the receive in the Google form Link < https://forms.gle/ wCcLGybMBPz3iega9 > by 10th June 2021.

Regards,

Wings Event Management Team

(On Behalf of Texas Instruments University Program)



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Government of India Department of Atomic Energy (DAE) Board of Research in Nuclear Sciences (BRNS)

BRNS Secretariat, 316/C, 3rd Floor, BARC, Trombay, Mumbai-400085

No: 51/14/07/2019-BRNS/ 3 608.3

Date: 10/07/2019 OFFICE MEMORANDUM

Sub: R/P entitled "Development of Methodology for Indian Evaluated Nuclear Data Library for applications in S & T" under Dr.(Mrs.) Jayalekshmi M Nair, Principal, V.E.S. Institute of Technology, MUMBAI, Maharashtra, 400074. bearing sanction 51/14/07/2019-BRNS with NPP, BRNS.

On the recommendations of the Board of Research in Nuclear Sciences (BRNS), I am pleased to convey the administrative approval and sanction of the President of India for the captioned project for 3 years beginning from financial year 2019-2020 with a total grant of Rs. 17,81,276/- (Rupees seventeen lakh eighty one thousand two hundred seventy six only) for the project as under :

Item of expenditure	Year 1 (2019-2020)	Year 2 (2020-2021)	Year 3 (2021-2022)
Equipments	44500	6	0
Staff Salary - JRF (1)	372000	372000	420000
Technical Assistance	30000	30000	30000
Consumables	20000	20000	20000
Travel - PI	20000	20000	20000
Contingencies	50000	50000	50000
Overheads	36488	33150	36750
Total(INR)	572988	525150	576750

Note: * Opti 5050 MT intel 15

JRF salary calculated @31,000/- p.m. for first two years and on re-designation by committee on in third year as SRF @ 35000/- p.m. vide OM no. 10/1(21)/2014/Fellowship/R&D-II/5739 dated 03/05/2019.

Please note that as per the government orders under Direct Benefit Transfer (DBT)scheme, the staff salary has to be transferred to his/her bank account. Accordingly, Aadhar Number(UID) of the appointed staff, Bank Account details and the Mobile number linked to the bank account should be obtained and it should be

Overheads is calculated @ 7.5% of all other heads except contingency. The remaining 7.5% overheads i.e. (Rs. 1,06,388/-) shall be released only on meeting the requirements specified (See Annex-B).

- I am also pleased to convey the sanction of the President of India to incur an expenditure of Rs. 5,72,988/-(Rupees five lakh seventy two thousand nine hundred eighty eight only) towards grant for the year
- The expenditure involved is debitable to: 04 3401 00 004 27 0231.
- This is issued with the concurrence of the competent authority in the Department.

Ashque gram Officer, BRNS

Pay & Accounts Officer DAE, Mumbal - 400 001.

Programme Officer Board of Research in Nuclear Sciences. Department of Atomic Energy. BRNS Secretariat, 3rd Floor, CFB B.A.R.C., Trombay, Mumbai - 400085



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Copy forwarded to:

- Director of Audit, Scientific Department, AEAP, OYC, CSM Marg, Mumbai-400 001.
- Joint Secretary (R&D), DAE, Anushakti Bhavan, CSM Marg, Mumbai-400 001.
- 3. Principal, V.E.S. Institute of Technology, MUMBAI, Maharashtra, 400074...
- Principal Investigator(PI): Dr.(Mrs.) Jayalekshmi M Nair, Principal, V.E.S. Institute of Technology, MUMBAI, Maharashtra, 400074...
- A. First year grant is being released in full along with this Sanction Letter through Pay & Accounts Officer, Department of Atomic Energy, Anushakti Bhavan, CSM Marg, Mumbai-400 001 directly. You may await a Money transfer (MT) through ECS and The amount would be credited electronically to A/C No: 0229101132845, A/C Name: V.E.S. Institute of Technology, IFSC: CNRB0000229, Sindhi Society Branch, Chembur, Mumbai-400071.
- i) Acceptance of this sanction and the MT for the amount sanctioned for the first financial year may please be acknowledged (Form-I).
- A sticker of the BRNS LOGO (Copy Enclosed) should be pasted on all the items procured under the project.
 THIS SANCTION IS FURTHER SUBJECT TO THE CONDITIONS STIPULATED IN ANNEX (ENCLOSED), WHICH MAY BE GONE THROUGH CAREFULLY.
- B. Second year Sanction Letter will be issued automatically in the month of April/May of the 2nd financial year, however, the grant will be released (unspent balance of previous year and Interest earned will be adjusted) after the PI submits the following documents to the Programme Officer NPP:
- a) Claim in Form-II quoting the reference of the sanction issued for the first year.
- b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.
- c) Statement of Accounts (SA) as on 31st March of the preceding financial year should be updated on the website. Interest earned in previous year should be reflected in the Statement of Accounts. A printout of the same should be sent to BRNS after it is duly audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.
- d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee, alongwith HRA CLAIM (if applicable), should be uploaded in a single pdf file under the file head "Staff Appointment Details". In addition, the details of the appointed staff should also be updated in the available menu.
- The inventory of equipment also should be updated in the menu, besides uploading the purchase order of the items costing more than 1 Lakh.
- f) A One Page report on the progress of work during first year.
- C. Third and subsequent years (if any) the Sanction Letter and the grant will be released on fulfillment of the following requirements:
- i) Renewal/ Extension Application: Principal Investigator (PI) is required to upload by January 15 a pdf copy of duly signed renewal/ extension application in the prescribed form-(PRA) after logging into his/her account at https://brns.res.in. All applications received shall be examined by experts from the field and PIs may be invited to a Technical Programme Discussion Meeting (TPDM). Renewal of the project will be based on the recommendations of the TPDM, Advisory Committee and the Board.
- Sanction Letter: If the progress is found to be satisfactory the renewal sanction for the year will be issued in the beginning of that financial year in April/May.
- Claim: On receipt of the renewal sanction, the PI shall claim the funds sanctioned by submitting the following documents to Programme Officer NPP, BRNS Secretariat, First FLoor, Central Complex, BARC, Trombay, Mumbai-400 085:
 - a) Claim in Form-II quoting reference of the renewal sanction.
- b) Utilisation Certificate (UC) as on 31st March of the preceding financial year in Form-III duly audited by the Internal Auditor of the University/ Institution or a Charlered Accountant, should be reflected in the Statement of Accounts.
- c) Statement of Accounts (SA) as on 31st March of the preceding financial year including the amount of Interest earned in previous year and duty audited by the Internal Auditor of the University/ Institution or a Chartered Accountant.
- d) Copy of appointment order and joining report of the staff appointed for the project along with minutes of the Selection Committee,



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- e) An inventory of equipment and the copy of Purchase order of equipments costing more than 1 Lakh.
- D. At the end of Terminal Year the Settlement Grant and the Balance 7.5% Overheads will be released on fulfillment of the following requirements:
 - a) Claim Form-II if any,
- b) The final Consolidated Statement of Accounts (SA) and Consolidated Utilization Certificate duly audited by an external Chartered Accountant or the Statutory (Govt.) Auditor. It is mandatory to include the amount of bank interest earned on the grant released into the SA.
 - c) Final Consolidated Progress Report and a brief report as per format given in Form-VII.
- AAO (Cheque), DAE, Anushakti Bhavan, CSM Marg, Mumbai 400 001 With a request that the amount granted for the first year of the project may be released.
- Member Secretary, CDP-1:NPP, BRNS: Shri Vinod, V. SO/G, ETHD, FRTG, IGCAR, Kalpakkam 603102
- Co-Investigator (CI): Mrs. Sangeetha Prasanna Ram, VESIT, Chembur, Mumbal, Email: sangeeta.prasannaram@ves.ac.in, Mobile:9819782500
- Project Collaborator (PC): Dr. Gayatri Mohanto, NPD, BARC, Email: gayatrimohanto@gmail.com, Mobile: 2225596173Dr. Bidyut Roy, BARC, Email: bjroy@barc.gov.in, Mobile:2225593457

You or your nominee may please be the DAE representative for selection of Research Fellow/ Research Associate for the project.

Program Officer, BRNS

Note:

Ashok K. Pandey Programme Officer

Please quote the Sanction Number 51/14/07/2019-BRNS in all young open the Provided Sciences.

Department of Atomic Energy.

BRNS Secretariat, 3rd Floor, CFB B.A.R.C., Trombay, Mumbai - 400085



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BLANKER



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8/27/2021

Welcome to Vivekerand Education Society Mail - Fwit Team ID 1159573 , Cash Prize Details, IICDC Conclave 2019



N Gopalkrishnan <n.gopalkrishnan@ves.ac.in>

Fwd: Team ID 1159573, Cash Prize Details, IICDC Conclave 2019

Mrugendra Vasmatkar <mrugendra vasmatkar@ves.ac.in> To: N Gopakrishnan <n.gopakrishnan@ves.ac.in>

Thu, Aug 26, 2021 at 2:23 PM

Forwarded message From: Mrugendra Vassadkar <-nnugendra vassadkar green oc.in>
Date: Frq. Jat. 16, 2021, 16:07
Subject: Feer ID 1156573. Cash Price Details, ISCDC Condeve 2019
To: Vikas Pange <-kon punge@viss.dc.in>

Deer six.
The Following is the mail received by #CDC for the prize. Certificates of the students are also attached. Mentor Certificate is still not received. Generally they send Momento for it.

Project Name: Multi-Functional Detachable Applications For Drones Terna Name: Dronevolution Mérico Name: Mrugendra M Vasmatkar Terna Members: Siddhant Satam (seam Leod) Sal rane, Abhishek Desale, Deepak Mishra, Sarikel Bhegde, Pranjali Thorat

Description 1. This project is not a drone but these are various applications which can be implemented on any land based or senial drone which will make that drone capable of performing these applications. All the applications which will be developed will be focused lowered sweaths various problems in our accept which can be easily solved by implementing various types of drones for the applications. The planned applications to be implemented on drones are: All Termin Attachment, Political and vessible mortiforing and Mapping, LIDAR Based Mapping and Military Surveillance. Fire Fighting combined with Solar Panel Cleaning, Agricultural Watering with Perticibles Spraying, Secured Delivery Attachment

Regards, Mrugendra Vasmatkar

Forwarded message
From: SIDDHANT SATAM <2017 sidsherd.anlam@ver.act.trb
Date: Tue, Jun 15, 2021 at 4:14 PM
Subject: For: Team ID 1195673, Cash Prize Details, ICDC Conclave 2019
To: Mrugendra Vasmafeer < margandra vasmafean@ver.act.trb

Forwarded message
From: ShallesWings N.O. Shower (@wingsevents.com>
Date: Wed., Jun 9, 2021 at 82.2 PM
Subject: Team ID 1159573 , Cash Prize Datals, IKCDC Conclave 2019

47



Pranjall Thorat.pdf 83K Sai Rane.pdf 83K

Vivekanand Education Society's

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8/27/2021 Welcome to Vivekarrand Education Society Mail - Fwit Team ID 1159573 , Cash Prize Details, IICDC Conclive 2019 Sidhant Salam.pdf Mrugendra Vasmatkar <erugendra vasmatkar@ves.ac.in> Tis: N Gopalkrishnan <n.gopalkrishnan@ves.ac.in> Thu, Aug 26, 2021 at 3:28 PM Forms ShaliniWings N.O. < fin-ever1@wingsevents.com>
Date: Wed, Jun 9, 2021 at 6:23 PM
Subject: Team ID 1199973, Cash Prize Details, RCDO Concleve 2019 To: <2017 siddhant.satirm@ves.ac.in> Gc: <x0290831@t.com>, Alaxy KuriakoselEvents/Wings H.O. <alaxy@wingsavants.com> Greetings from Texas Instruments! Congratulations for being among the Top 69 Winning team of IICDC Conclave , DST & Texas instruments (TI) Inc. India Innovation Challenge Design Contest 2019', anchored by the Indian Institute of Management (IIM), Bengalore. It gives us great pleasure to notify that the Prize money won by you and your team has been credited into the Team Leader's, account as per the details mentioned below Cash Prize Amount : Rs -19477/-Prize amount transacted : Rs- 13400/-: 106075063194 PS : Action Required : Kindly acknowledge the receive in the Google form Link < https://forms.gle/wCcLGybMBPz3iega9 > by 10th June 2021. Regards, Wings Event Management Team 8/27/2021 Welcome to Vivekanand Education Society Mail - Fwit. Team ID 1159573 , Cash Prize Details, IICDC Concleve 2019 To: <2017 siddhard satam@ves.ac.in> Co: <s0090831@s.com>, Alexy Kuriskose(Events/Wings H.D <slexy@wingsevents.com> Greetings from Texas Instruments! Congratulations for being among the Top 80 Winning team of HCDC Concleve , DST & Texas Instruments (TI) Inc. India Innovation Challenge Design Contest 2019', anchored by the Indian Institute of Management (HM), Bangalore. It gives us great pleasure to notify that the Price money won by you and your team has been credited into the Team Leader's account as per the details mentioned below. Cash Prize Amount Prize amount transacted: Rs-13400/-UTR number : 106075063194 TDS @ 31.2% : Rs -6077/-PS: Action Required: Kindly acknowledge the receive in the Google form Link < https://forms.gle/wCcLGybMBPz3lega9 > by 10th June 2021. Wings Event Management Team (On Behalf of Texas Instruments University Program) Abhishek Desale.pdf DeepakMishra.pdf SanketBhegde.pdf



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5/10/2021

Welcome to Vivekanand Education Society Mail - Fwd: You've received Azure academic credit as part of the Azure Sponsorship offer



Bincy Chellapandi <2018.bincy.chellapandi@ves.ac.in>

Fwd: You've received Azure academic credit as part of the Azure Sponsorship offer

3 messages

M Vijayalakshmi <m.vijayalakshmi@ves.ac.in> To: 2018.bincy.chellapandi@ves.ac.in

Mon, Nov 25, 2019 at 2:54 PM

Regards,

Dr. (Mrs.) M. Vijayalakshmi Vice-Principal,

Vivekanand Education Society's Institute Of Technology. Hashu Advani Memorial Complex, Collector Colony, Chembur East, Mumbai - 400074.

Contact: +91-9820882766 | 022-61532592

- Forwarded message --

From: Microsoft Azure <azure-noreply@microsoft.com>

Date: Sat, Nov 9, 2019 at 1:30 AM

Subject: You've received Azure academic credit as part of the Azure Sponsorship offer

To: <m.vijayalakshmi@ves.ac.in>



You have USD 10000 in Azure academic credit for your classroom

As part of the Azure Sponsorship offer, you've received Azure academic credit that's good toward Azure services for your classroom via the Azure Education Hub.

Account ID: m.vijayalakshmi@ves.ac.in

Usage cap: USD 10000

Grant end date: November 1, 2020

To start using your credit, sign into the Azure Education Hub, set up and manage your classroom, invite students, and manage your credit.

Access your credit >

If you need assistance, please create a support request.



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University of Mumbai

M.

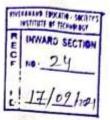
NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR Research Project No : 1111

Telecommentin

Ref No. AAMS/ICD/106 of 2021 23rd July, 2021

To.

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, Collector's Colony, R.C. Marg, Chembur, Mumbai-400 074.



Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



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BLANCE



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1124

University of Mumbai



Research Project No: 1124

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR : Mrs Oyote DawKhar : Electronics & Jole communication : Rs. 250001-

> Ref No. AAMS/ICD/106 of 2021 23rd July, 2021

To.

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, Collector's Colony, R.C. Marg, Chembur, Mumbai-400 074.

Sub - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original hills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



Institute of Technology

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University of Mumbai

Research Project No: 502

NAME OF THE RESEARCHER: Dr. Say | E e M. Gharge LECTURE IN E | Ectro Dic & Tele Communication

Ref No. APD/237/ 429 of 2017

To.
The Principal.
Vivekan and Edu socis Inst of Technology.
Collector Colony.
Chembur.
Mymbai - 400 074.

Sir/Madam.

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum

Dr Sayles for Grange

, I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS Form (copy enclosed) from the researcher.

The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original on or before 31st March, 2017 failing of which the advance amount granted will be recovered from researcher which please note.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2017 and submit original bills/vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbal – 400 032.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July, 2017.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly.

Yours faithfully,

FORREGISTRAR



Institute of Technology

University of Mumbai
NAME OF THE RESEARCHER : Prof. Shannila Sangupta LECTURE IN : Computer Enga AMOUNT SANCTIONED : 30,000 =
Ref No. AAMS/ICD/106 of 2021 23rd July, 2021
To. 2007, 2021
Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, VES Campus II, Chembur - 400 074
0 101-1-1-1
Sub: - Minor Research Grant Project.
Sic/Madam,
The sunctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed in two installments. The remaining 30% amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021. The researcher is expected to spend 30% amount initially from his/her own resources to carry out
Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st. December, 2021 and submit original bills/vouchers of the expenditure alongwith Unilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.
The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.
The Principal/Hend of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.
Yours faithfully,
Assistant Registrar (Academic Planning & Development Section)



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University of Mumbai

960



Research Project No: 460

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR

Computer Engl.

Ref No. AAMS/ICD/106 of 2021 23rd July, 2021

To.

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, VES Campus II, Chembur - 400 074

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



Institute of Technology

Univ	ersity of Mumbai
LECTURE IN :_	Research Project No: 925 Mrs. Abha Tewari Computer Enga 25,0001-
	Ref No. AAMS/ICD/166 of 2021 23 rd July, 2021
To.	
Vivekanand Education Societys Institute Technology, Hshu Advani Memorial Co VES Campus II, Chembur - 400 074.	e of Punchas with the property of the property
research grant as quoted above is sanctioned The sanctioned amount will be disbu	said proposal has been considered by the University and the to the researcher. ursed in two installments. The first installment of 70% of the a the month of August. The remaining 30% amount will be
- V-10 10 10 10 10	30% amount initially from his/her own resources to carry out
on or before 31st December, 2021 and Utilization Certificate duly certified by the	e researcher will have to utilize the 100% sanctioned amount submit original bills/vouchers of the expenditure alongwith Principal/ Director/ Head/Institute/University Department of ounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina 400 098.
The report of the research work carr to the University on or before 31st. December	ried out by the concerned researcher will have to be submitted er, 2021.
	are requested to is form the researcher accordingly and arrange to enable this office to release first installment of the research
	MAN AND THE PARTY OF THE PARTY
	Yours faithfully,
	Yours faithfully,



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(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of M ımbai

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR	Research Project No: S : MS. Kajal Jewsoni Computer Engg. 15,0001	127
To,	Ref No. AAMS/ICD/106 of 23rd July,	
Vivekanand Education Societys Ins Technology,	titute of	

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researche.

The sanctioned amount will as disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of / ngust. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st. December, 2021 and submit original hills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Direc or/ Head/Institute/University Department of the College to The Deputy Registrar Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021

The Principal/Head of the Institute are requested to it form the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully.



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

	no aut
	University of Mumbai
	Research Project No : 947
NAME OF THE RESEARCHER	: Mrs Vidya Sachin Zope
LECTURE IN	: Computer Engl
AMOUNT SANCTIONED	10,000/-
CO-INVESTIGATOR	1

To.

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, Collector's Colony, R.C. Marg, Chembur, Mumbai-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original hills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai

Research Project No: 633

NAME OF THE RESEARCHER
LECTURE IN
AMOUNT SANCTIONED
CO-INVESTIGATOR

Ref No. AAMS/ICD/186 of 2021
23* July, 2021

To.

Vivekanand Education Societys Institute of
Technology, Hashu Advani Memorial Complex,
Collector's Colony, R.C. Marg, Chembur,
Mumbai-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is san:tioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registra:, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai

903



Research Project No : 903

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR Nammata V. Bonde Electrical Engl. 25,0001-

> Ref No. AAMS/ICD/106 of 2021 23rd July, 2021

To,

Vivekanand Education Societys Institute c

Collectors Colony , Chembur, Mumbai - 400 074

VINEW AND EGICATION SOCIETYS
INSTITUTE OF TECHNOLOGY
INVARABLE SECTION
C
NO. 21
V
E
D
15/9/2021

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researche.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

Assistant Registrar (Academic Planning & Development Section)

Scanned with CamScanner



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

	University of Mumbai
	Research Project No : 902
NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR	: Mrs. Drepti Khimani : Electrical Engineering : 25,000}

Ref No. AAMS/ICD/106 of 2021 23rd July, 2021

Tο,

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, Collector's Colony, R.C. Marg, Chembur, Mumbai-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the research:

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Murshai - 400 098

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No : 1054

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR

ı	Anushree	probles
\$	Electronics	ENG.
ŧ,	13-20000	F-0
ŧ,		

Ref No. AAMS/ICD/106 of 2021 23rd July, 2021

To,

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, Collector's Colony, R.C. Marg, Chembur,

Mumbai-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you hat the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you hat the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

105

University of Mumbai



Research Project No: 1051

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR Ms. Jayshree Hagade Improvation Technologe RS-15000/

> Ref No. AAMS/ICD/106 of 2021 23st July, 2021

To.

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, Collector's Colony, R.C. Marg, Chembur, Mumbai-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researche.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021

The researcher is expected to spend 30% amount initially from his/her own resources to carry out

Further, I am to inform you hat the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Vahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully.



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

1162

23rd July, 2021

University of Mumbai

Research Project No: 1162

Br. Rameth Solanki

Computer application

RS 150001

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR

To,

Vivekanand Education Societys Institute of

Technology, Collector Colony, HAMC, R. C.

Marg, Chembur, Mumbai - 400 074.

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original pills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400.098

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully.



Institute of Technology

·	University of Mumbai
NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR	Research Project No: 1049: Ms. Asha Bharambe. Enformation Technology Research Project No: 1049
	Ref No. AAMS/ICD/106 of 2021 23rd July, 2021
To,	VINTERD - * A CONTROL THEORY
Vivekanand Education Societys I. Technology, Hashu Advani Mem /ES Campus II, Chembur - 400 0	orial Complex.
Sub: - 1	Minor Research Grant Project.
Sir/Madam,	
The sanctioned amount will sanctioned amount will be disbursed	he disbursed in two installments. The first installment of 70% of the
wassasses up to 3 fat December, 2021	o spend 30% amount initially from his/her own resources to carry out
Utilization Certificate duly certified	hat the researcher will have to utilize the 100% sanctioned amount 21 and submit original bills/vouchers of the expenditure alongwith by the Principal/ Director/ Head/Institute/University Department of ar. Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina mbai - 400 098
The report of the research we to the University on or before 31st. D	ork carried out by the concerned researcher will have to be submitted occumber, 2021.
The Principal/Head of the In- to forward his/her undertaking imme- grant.	stitute are requested to inform the researcher accordingly and arrange diately to enable this office to release first installment of the research
	Years faithfully,
	La constant de la con
	Assistant Registrar if (Academic Planning & Development Section)



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai Research Project No: 1033 NAME OF THE RESEARCHER Charusheela Nehete LECTURE IN Information Technology AMOUNT SANCTIONED RS-150001 CO-INVESTIGATOR Ref No. AAMS/ICD/106 of 2021 23rd July, 2021 To. Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex, Collector's Colony, R.C. Marg, Chembur, Mumbai-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the research.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Academic Planning and Development Section No. APD/ED/2019-20/762 17th March, 2020

Sub: Minor Research Grant Project 2019-20

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31* December, 2020.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31" March, 2020 and submit original bills/vouchers of the expenditure along with Utilization Certificate duly certified by the Principal/Director/Head/Institute/University Department/College to the Accounts Section of the University.

Please note that 60% balance amount, out of sanctioned grant will be released after Poster Presentation & final approval of the committee. Therefore you need to submit of utilization certificate after presentation of your research including bills/vouchers/receipts in original through University Account Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31° December, 2020.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

Despak V. More Assistant Registrar (APD Section)



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai

W.

Research Project No : 891

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR : Mrs. Mugdha Ruturoj Jogalekar : Electrical Engineering : Rs. 35/0001

> Ref No. AAMS/ICIV106 of 2021 23st July, 2021

To.

Vivekanand Institute of Technology, Collectors Colony, Chembur, Mumbai - 400 074

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 70% of the sanctioned amount will be disbursed within the month of August. The remaining 30% amount will be disbursed up to 31st December, 2021.

The researcher is expected to spend 30% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 100% sanctioned amount on or before 31st December, 2021 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to The Deputy Registrar, Accounts Section, Mahatma Phule Bhavan, Vidyanagari, Kalina Campus, University of Mumbai, Mumbai - 400 098.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st. December, 2021.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

O SHOT ON REDMI NOTES PRO

X

Assistant Registrar
(Academic Planning & Development Section)

Yours faithfully,



Institute of Technology

893	Shamal Salunkhe	\"Ramnao Adik Institute of Technology Sector-7 Dr. D. Y. Patil Vidyanagar Phase-I Nerul Navi Mumbai - 400 705\r\n\"	40000
894	Dr. Gargi Sameer Phadke	\"Rammao Adik Institute of Technology Sector-7 Or, D. Y. Patil Vidyanagar Phase-I Nerul Navi Mumbai - 400 705\r\n\"	40000
895	Seema M Jadhav	Agnel Charitable Trustiglis Fr. Conceicao Rodrigues Institute of Technology	20000
896	Dr. Shirish S. Kulkarni	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patil Vidyanagar Phase-i Nerul Navi Mumbai - 400 705\r\n\"	20000
897	Sarthak Krishna Joshi	Vishwaniketans Institute of Management Entrepreneurship and Engineering Technology	50000
898	Ruchi Harchandani	Agnet Charitable Trustic/is Fr. Conceicao Rodrigues Institute of Technology	30000
899	SWAPNA MANURKAR	Vishwaniketans institute of Management Entrepreneurship and Engineering Technology	30000
900	Rohit Gautam Ramteke	Vishwaniketans Institute of Management Entrepreneurship and Engineering Technology	25000
901	Dr. Sharvari H. Sane	Vishwaniketans Institute of Management Entrepreneurship and Engineering Technology	40000
902	Mrs. Deepti Khimani	Vivekanand Education Societys Institute of Technology	25000
903	Namrata V. Borsde	Vivekanand Education Societys Institute of Technology	25000
904	Sanobar 5.	\"Mahatma Education Society\"s Pillai HOC College of Engg. & Technology Educational Campus MOC Colony Rasayani Tal.Khalapur \r\nDist. Raigad 410 207\r\n\"	35000
905 Ms. Mugdha Salvi		Vidyavardhinii¿Ks College of Engineering and Technology Vidyavardhinii¿Ks College Campus	33000
906	Madhwi Kumari	Lokmanya Tilak Jankalayn Shikshan SansthaāC™s Lokmanya Tilak College of Engineering Sector No.4 Vikas Nagar Kopar Khairane Navi Mumbai- 400709	40000
907	Dr. Niranjan T, Kulkarni	New Horizon Institute of Technology and Management Anand Nagar Kavesar Off. Ghodbunder Road Thane (west) - 400615	25000
908	Mrs. Trupti Mane Furia	Vidyavardhinii/is College of Engineering and Technology Vidyavardhinii/is College Campus	60000
909	Sushant Kumar	VIVA Institute of Electrical Engineering	35000
		Computer Engineering (Apex Committee)	
Project	Name of Principal		
No.	Investigator	College name	Grant Sanction
910	Smita Dasharath Dange	Agnel Charitable Trustic 3s Fr. Conceicao Rodrigues Institute of Technology	35000
911	Prof. Pramod Bide	Bhartiya Vidya Bhavani¿%s Sardar Patel Institute of Technology	25000
912	Mrs.Smita D. Bharne	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patil Vidyanogar Phase-! Nerul Navi Mumbai - 400 705\r\n\"	25000
913	Kavita R Jain	Xavier Institute of Engineering	15000
914	Surekha Dholay	Bhartiya Vidya Bhavani¿Xs Sardar Patel Institute of Technology	30000
915	Pragati Chandankhede	Excelsior Education Society\'s K. C. College of Engineering Mith Bunder- Road Kopri Thane (£) 3€" 400 603.	15000
			650-5346



Institute of Technology

917	Neha Jain	Shree L. R. Tiwari College of Engineering	1500
918	Ms. Arti K. Gore	Saraswati Education Society's Saraswati College of Engineering	2500
919	Dr A K Sampath	Rizvi College of Engineering Rizvi Educational Complex Off Carter Road Shorfy Rajan Village Bandra (West) Munbal: 400 050.	1500
920	Prachi K Shahane	South Indian Education Society's Graduate School of Technology	2500
921	Sujata Shaimallykar	Saraswati Education Society's Saraswati College of Engineering	1500
922	Dr. Prof. Rajesh Kadu	South Indian Education Society's Graduate School of Technology	2500
923	Ms. Kajal jewani	Vivekanand Education Societys institute of Technology	1500
924	Dr. Amit Barve	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patii Vidyanagar Phase-i Nerul Navi Mumbai - 400 706\r\n\"	1500
925	Mrs. Abha Tewari	Vivekanand Education Societys Institute of Technology	2500
926	Dr. Sangita Santosh Chaudhari	*Ramnao Adik institute of Technology Sector-7 Dr. D. Y. Patil Vidyanagar Phase-I Nerul Navi Mumbai - 400 706\r/\n*	3000
927	Dr. Vaibhay Eknath Narawade	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patil Vidyanagar Phase-I Nerul Navi Mumbai - 400.705\r\n\"	3000
928	Ms. Swati Ringe	Fr. Conceicao Rodrigues College of Engineering	3000
929	Ms. Rakhi Dattatraya Akhare	Lokmanya Tilak Jankalayn Shikshan Sanstha's Lokmanya Tilak College of Engineering Sector No.4 Vikas Nagar Kopar Khairane Navi Mumbai- 400709	2500
930	Mr. Balwant Jaywant Gorad	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patil Vidyanagar Phase-I Nerul Navi Mumbai - 400 706\r\n\"	2500
931	Dr. Rekha Ramesh	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	2000
932	Uday Bhave	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	3500
933	Neelam Phadnis	Shree L. R. Tiwari College of Engineering	1000
934	Ms. Neha Nilesh Rane	\"Mahatma Education Society\"s Pillai HOC College of Engg, & Technology Educational Campus NOC Colony Rasayani Tal.Khalapur \r\nDist. Raigad 410 207\r\n\"	2500
935	Amol A.Dhumal	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	1500
936	Mr. Mahendra Patil	Atherva Educational Trustic %s College of Engineering	2500
937	Silviya Omonte	Vidya Vikas Education Trust Universal College of Engineering	1000
938	Ms. Kavita R. Shelke	Agnel Charitable Trusti¿%s Fr. Conceicao Rodrigues Institute of Technology	4000
939	Dr. Satish Y. Ket	Manjara Charitable TrustáC™s\r\n Rajiv Gandhi Institute of Technology \r\nluhu- Versova Link Road Versova andheri W Mumbai- 400 053\r\n	2000
940	Deepti Pawar	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	1500
941	Asmita S. Deshmukh	Excelsior Education Society\'s K. C. College of Engineering Mith Bunder- Road Kopri Thane (E) 3€° 400 603.	2500



Institute of Technology

942	Dnyaneshwar Jagan Dhangar	Manjara Charitable Trust&C**s\r\n Rajiv Gandhi Institute of Technology \r\nluhu- Versova Link Road Versova andheri W Mumbai- 400 053\r\n	1500
943	Prof. Roshni Padate	Fr. Conceicao Radrigues Callege of Engineering	250
944	Ms. DIPALI YOGESH KOSHTI	Fr. Conceicao Rodrigues College of Engineering	2500
945	Dr. Dayanand R. ingle	Bharatí Vidyapeethi¿¼s College of Engineering	2500
946	Dr.Rahul Khokale	Aidel Education Trusts St John College of Engineering	250
947	Mrs. Vidya Sachin Zope	Vivekanand Education Societys institute of Technology	1000
948	Prof. Kalpita Ajinkya Wagaskar	The Bombay Salesian Society's Don Bosco Institute of Technology	1500
949	Mayura Harshal Gavhane	The Bombay Salesian Society's Don Bosco Institute of Technology	200
950	Neha Rathi	\"Mahatma Education Society\'s Pillai HOC College of Engg. & Technology Educational Campus HOC Colony Rasayani Tal Khalapur \r\nDist, Raigad 410 207\r\n\"	150
951	Nikhil Raje	\"Mahatma Education Society\'s Pillai HOC College of Engg. & Technology Educational Campus HOC Colony Rasayani Tal.Khalapur \rangle\nOst. Raigad 410 207/r\n\"	3000
952	Ms. RohiniBhosale	\"Mahatma Education Society\"s Pillai HOC College of Engg. & Technology Educational Campus HOC Colony Rasayani Tal.Khalapur \r/\nDist. Raigad 410 207\r\n\"	300
953	Mandar Ganjapurkar	Excelsior Education Society\'s K. C. College of Engineering Mith Bunder Road Kopri Thane (E) \$6" 400 603.	250
954	CHITRA TUKARAMJI WASNIK	Lokmanya Tilak Jankalayn Shikshan Sanstha's Lokmanya Tilak College of Engineering Sector No.4 Vikas Nagar Kopar Khairane Navi Mumbai- 400709	300
955	Prof. Kirti Bhikaji Ahirrao	Vishwaniketans Institute of Management Entrepreneurship and Engineering Technology	150
956	Shainila Mulla	The Bombay Salesian Society's Don Bosco Institute of Technology	100
957	Mrs. Sarita P. Ambadekar	\"K. J. Somalya Institute of Engineering and Information Technology Somalya Ayurvihar Complex \r\nEastern Express Highway \r\nSion Mumbai - 400 022.\"	100
958	Kalpana Deorukhkar	Fr. Conceicao Rodrigues College of Engineering	300
959	Sushama Nitin Khanvilkar	Xavier Institute of Engineering	250
960	LIENA C. S.	Vivekanand Education Societys Institute of Technology	150
951	RAMCHANDRA SHARAD MANGRULKAR	Shri Vile Parle Kelavani Mandals Dwarkadas J, Sanghvi College of Engineering	150
962	Kiran Bhowmick	Shri Vile Parle Kelayani Mandals Dwarkadas J. Sanghvi College of Engineering	200
963	Mr. Vinod N. Alone	\"Padmabhushan Vasantdada Patii Pratishthans College of Engineering Eastern Express Highway \r\n Near Everard Nagar \r\nSion-Trombay Road \r\nMumbai-400 022.\r\n\"	150
964	Mrs Nazneen Amjad Pendhari	Anjuman-I-Islami¿Xs M.H. Saboo Siddik College of Engineering	150



Institute of Technology

972	Or. Monika Mangla	Lokmanya Tilak College of Engg.	15000
973	Ms. Dakshara Punchal	St. Francis Institute of Technology	15000
974	Prof. Sunit Ghane	Bhartiya Vidya Bhavani; Xs Santar Patel Institute of Technology	15000
975	Prof. Sharmila Sengupta	Vivelanant Education Societys Institute of Technology	30000
976	Mr. Manoj Dhande	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	15000
1010	Industrial Section	9444444	Juna
1017	Mudra Doshi	Vidya Vikas Education Trust Universal College of Engineering	18000
1018	Swati Nedkarni	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	30000
1019	Dr. GT Thampi	Thadomal Shahani Engineering College	30000
1020	Dr. Minal Lopes	St. Francis Institute of Technology (Engineering College)	30006
1021	Pravin R Patil	\"Padmabhushan Vasantdada Patë Pratishthans College of Engineering Eastern Express Highway \r\n Near Everard Nagar \r\nSion-Trombay Road \r\nMumbel-400 022.\r\n\"	1000
1022	Sachin Gavhane	Atharva Educational Trusti¿//s College of Engineering	35000
1023	Dr. Kamal Shah	Zagdu Singh Charitale Trust's Thakur College of Engineering and Yechnology	2500
1024	Ms. Sunantha Krishnan	Don Basca Callege	2000
1025	Farheen Tallb	\"Mahatma Education Society\'s Pillai HDC College of Engg. & Technology Educational Compus HOC Colony Research Tel.Khalapur \r\nDist. Reigad 410 207\r\n\"	3000
1026	Diksha Gautam Kumar	Saraswati Education Society's Saraswati College of Engineering	3700
1027	Abirami Sivaprasad	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	2500
1028	Sampada S. Pinge	Thadomal Shahani Engineering College:	4000
1029	Mrs. Vidya Pujari	Vivekanand Education Societys Institute of Technology	2000
1030	Komal Golimbade	\"Mahatma Education Society\'s Palai HOC College of Engg. & Technology Educational Campus HOC Colony Rasayani Tal.Khalapur \r\nDist. Rafgad,- 410 207\r\n\"	2000
1031	Uday Nayak	Don Bosco College	3400
1032	Vijal Jain	Thadomal Shahani Engineering College	3000



Institute of Technology

	diversity of Mumbai
NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED CO-INVESTIGATOR	Research Project No : 1029 Mes. Vidya Papad Information Technology RS 200001
To,	Ref No. AAMS/ICD/106 of 2021 23# July, 2021
Vivekanand Education Societys Ins Technology, Hashu Advani Memor Collector's Colony, R.C. Marg, Che Mumbai-400 074.	titute of 28
Sub: - Min	or Research Grant Project.
The sanctioned amount will be a sanctioned amount will be disbursed wi disbursed up to 31st December, 2021.	isbursed in two instellments. The first installment of 70% of the thin the month of August. The remaining 30% amount will be
The researcher is expected to spe the work	and 30% amount initially from his/her own resources to carry out
Utilization Certificate duly conflict in	the researcher will have to utilize the 100% satisficated amount of submit original bills/souchers of the expenditure alongwith the Principal Orector Head-Institute/University Department of occounts Section, Mahatma Phule Bhavan, Vadyanagari, Kalina i 400.098
The report of the research work of the University on or before 31st. December 2.1st.	arried out by the concerned researcher will have to be submitted ober, 2021.
The Principal/Head of the Institut to forward his/her undertaking immediate grant.	e are requested to inform the researcher accordingly and arrange ly to enable this office to release first installment of the research
	Yours faithfully,
	100
	(Academic Planning & Development Section)



Institute of Technology

		4	-
1037	Satishkumar L Varma	Mahatma Education Society\'s Piliai\'s College of Architecture Dr. K.M. Vasudevan Piliai\'s Campus Sector 10 16 New Panuel - 410206	40000
1038	Shrinidhi Gindi	Anjuman-I-Islamii iss M.H. Saboo Siddik College of Engineering	30000
1039	Medha Nitin Kulkarni	\"Padmabhushan Vasantdada Patil Pratishthans College of Engineering Eastern Express Highway \r\n Near Everard Nagar \r\nSion-Trombay Road \r\nMumbai-400 022.\r\n\"	20000
1040	Mrs. Vijaya Pinjarkar(Khirodkar)	\"K. J. Somaiya Institute of Engineering and Information Technology Somaiya Ayurvihar Complex \r\vnEastern Express Highway \r\vnSion Mumbai - 400-022.\"	25000
1041	Prof. Vijaya Sagvekar	Vasantdada Patil Pratisthan's Manohar Phalke College of Architecture	25000
1042	Dr. Irlan Siddavatam	K.J. Somaiya College of Engineering	40000
1043	Mrs. Vricha Chavan	K. J. Somalya Institute of Engineering and Information Technology	15000
1044	Dr. Gautam Borkar	Ramrao Adik Edu. Soc., Ramrao Adik Inst, Of Technology	30000
1045	Mrs. Anita Patil	Ramrao Adik Edu. Soc., Ramrao Adik Inst. Of Technology	15000
1045	Rupali Pashte	Shri, L. R. Tiwari College of Engg.	15000
1047	Mr. Sainath T. Patil	Vidyavardhinii¿½s College of Engineering and Technology Vidyavardhinii¿½s College Campus	30000
1048	Ms. Madhavi H. Waghmare	Vidyavardhinii¿%s College of Engineering and Technology Vidyavardhinii¿%s College Campus	10000
1049	Ms. Asha Bharambe	Vivokanand Education Societys Institute of Technology	30000
1050	Ms. Archana Satish Chaugule	Shah & Anchor kutchhi Engg. College	15000
1051	Ms. Jayshree Hagude	Vivekanand Edu. Inst. Of Tech.	15000
1052	Dr. Bhushan Jadhav	Thadomal Shahani Engg, College	25000
		Bectronics Engineering (Apex Committee)	
Project	Name of Principal	\$1000000000000000000000000000000000000	
No. 1053	Investigator Mrs. Sheetal Girish Jagtap	College name \"K. J. Somalya Institute of Engineering and Information Technology Somalya Ayurvihar Complex \r\nEastern Express Highway \r\nSion Mumbai - 400 022.\"	Grant Sanction
1054	Kranti Kiran Wagle	Fr. Conceicao Rodrigues College of Engineering	30000
	Ms Medha Sanjay Asurlekar	\"K. J. Somaiya Institute of Engineering and Information Technology Somaiya Ayurvihar Complex \r\nEastern Express Highway \r\nSion Mumbai - 400 022.\"	35000
1055			
1055	Mrs. Priya Deshpande	Bhartiya Vidya Bhavani¿Xs Sardar Patel Institute of Technology	20000
200E	Mrs. Priya Deshpande Dr. Milind Uttam Nemade	Bhartiya Vidya Bhavani¿Xs Sardar Patel Institute of Technology \"K. J. Somaiya Institute of Engineering and Information Technology Somaiya Ayurvihar Complex \r/\nEastern Express Highway \r/\nSion Mumbai + 400 022.\"	
1056		\"K. J. Somalya Institute of Engineering and Information Technology Somalya Ayurvihar Complex \r\nEastern Express Highway \r\nSion	35000 15000

1060	Chaitali Nandkumar Mahajan	Anjuman-I-Islamii Xs M.H. Saboo Siddik College of Engineering	30000
1061	K.T.Talele	Bhartiya Vidya Bhavanī¿%s Sardar Patel Institute of Technology	30000
1062	Hemant Kasturiwale	Zagdu Singh Charitale Trust's Thakur College of Engineering and Technology	10000
1063	Mr. Manoi Suresh Gofane	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patil Vidyanagar Phase-I Nerul Navi Mumbai - 400 705\r/\n\"	40000



Institute of Technology

1105	Mrs. Arti R. Sawant	Vivekanand Education Societys Institute of Technology	1500	
1106	KALISHAL K PANDEY	Shivajirao S. Jondhale College of Engineering	1000	
1107	Sonal Hutke	South Indian Education Society's Graduate School of Technology	2000	
1108	Ms. T.P. Vinutha	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	2500	
1109		Agnel Charitable Trusti¿)/ss Fr. Conceicao Rodrigues Institute of rivitha S Upadhya Technology		
1110	Dr. Pranali Choudhari,	Agnel Charitable Trustig Vis Fr. Conceicao Rodrigues Institute of Technology	4000	
1111	Mrs Nusret Ansari	Vivekanand Education Societys Institute of Technology	4500	
eesr-s		At the first that the control of the	TANCO T	
1112	1.1.2 Ms. Quanitah Shoikh St. Francis Institute of Technology (Engineering College)		2500	
1113	Ms. Jovita Serrao	St. Francis Institute of Technology (Engineering College)	4000	
1114	Dr. Maniroja.M.Edinburgh	Thadomal Shahani Engineering College	2500	
1115	Dr. Sanjeev Kumar Srivastava	\"Mahatma Education Society&C"s Pillai College of Engineering \"\\\n Dr. K. M. Vasudevan Pillai Campus Sector 16 New Panvel Navi Mumbal- 410206 \"	2500	
1116	Megha M. Kolhekar	Agnel Charitable Trusti¿lis Fr. Conceicao Rodrigues Institute of Technology	2500	
1117	7 Prof. Smita A. Lonkar Shivajirao S. Jondhale College of Engineering		3500	
1118	Prof. Sneha Burnase	Saraswati Education Society's Saraswati College of Engineering	2000	
1119	Mr. Somnath P. Tandale	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patil Vidyanagar r. Somnath P. Tandale Phase-i Nerul Navi Mumbai - 400 706\r\n\"		
1120	Poonam Sonar	Manjara Charitable Trust's\r\n Rajiv Gandhi Institute of Technology \r\nluhu- Versova Link Road Versova andheri W Mumbai- 400 053\r\n	2000	
1121	Bhushan S. Deore	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patii Vidyanagar Phase-I Nerul Navi Mumbai -400 705\r\n\"	4000	
1122	Jithin Saji ISaac	The Bombay Salesian Society's Don Bosco Institute of Technology	2500	
1123	Karishma Raut	Late Shri. Vishnu Waman Thakur Charitable Trust VIVA Institute of Technology	3500	
1124	Mrs.Jyoti Dawkhar	Vivekanand Education Societys Institute of Technology	2500	
		Lokmanya Tilak Jankalayn Shikshan Sanstha候s Lokmanya Tilak College		
1125	Mrs Sunita S. Chavan(Munde)	of Engineering Sector No.4 Vikas Nagar Kopar Khairane Navi Mumbai- 400709	2500	
1126	Amol Shashikant Sankpal Anjuman-i-Islamičkis M.H. Saboo Siddik College of Engineering		4000	
1127	Madhura Manodaya Shirodkar	Xavier Institute of Engineering	3500	
1178	SUMITA GUPTA:	Excelsion Education Society\'s K. C. College of Engineering Mith Bunder Road Kopri Thane (E) \$C* 400 603.	1600	
1129	Mrs. Shilpa Vikas Shinde	Vishwaniketans Institute of Management Entrepreneurship and Engineering Technology	2000	
VIII V	Dr. Mrs Saylee Millod Gharge	1900 00 00 00 00 00 00 00 00 00 00 00 00	225000	



Institute of Technology

1105	Mrs. Arti R. Sawant	Vivekanand Education Societys Institute of Technology	1500	
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1108	Ms. T.P. Vinutha	Mahavir Education Trust's - Shah and Anchor Kutchhi Engineering College	2500	
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1112	1.1.2 Ms. Quanitah Shoikh St. Francis Institute of Technology (Engineering College)		2500	
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1120	Poonam Sonar	Manjara Charitable Trust's\r\n Rajiv Gandhi Institute of Technology \r\nluhu- Versova Link Road Versova andheri W Mumbai- 400 053\r\n	2000	
1121	Bhushan S. Deore	\"Ramrao Adik Institute of Technology Sector-7 Dr. D. Y. Patii Vidyanagar Phase-I Nerul Navi Mumbai -400 705\r\n\"	4000	
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		Lokmanya Tilak Jankalayn Shikshan Sanstha候s Lokmanya Tilak College		
1125	Mrs Sunita S. Chavan(Munde)	of Engineering Sector No.4 Vikas Nagar Kopar Khairane Navi Mumbai- 400709	2500	
1126	Amol Shashikant Sankpal Anjuman-i-Islamičkis M.H. Saboo Siddik College of Engineering		4000	
1127	Madhura Manodaya Shirodkar	Xavier Institute of Engineering	3500	
1178	SUMITA GUPTA:	Excelsion Education Society\'s K. C. College of Engineering Mith Bunder Road Kopri Thane (E) \$C* 400 603.	1600	
1129	Mrs. Shilpa Vikas Shinde	Vishwaniketans Institute of Management Entrepreneurship and Engineering Technology	2000	
VIII V	Dr. Mrs Saylee Millod Gharge	1900 00 00 00 00 00 00 00 00 00 00 00 00	225000	



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NMMC awards Colleges for best disaster management projects



NAVI MUMBAk The Navi Mumbai Municipal Corporation OMMCO and the United Nations Develop-



ment Programme (UNDP) had organised a unique competition for the Colleges on Disaster Management. The team from each College had to showcase their creativity and originality with their unique concepts for combating disaster and the steps that can be

taken by the governing bodies during natural calamities.

54 students from various engineering colleges from Navi Mumbai, Panvel, Thane and Mumbai had submitted projects. Out of these, six projects were selected for the ir concepts.

HT, Mumbai pre-

sented a sample project. Portable Operation Room for Disaster that is very easy to navigate and use for emergency operations in the disaster affected areas. Vivelanianda Education Society's Institute of Bechnology, Chembur's

Contd. on pg. 2

NMMC awards Colleges...

Contd.frompg.1

project was on 'Lake cleaning'; Ramrao Adik's Institution of Technology, DY Patil College Nerul presented 'Human Detector - Snake Robot' project; M.H. Sabu Siddiqui College of Engineering (The two student groups independently performed chemical disaster project experiments on 'Human Rescue Robot' and 'Hazard's Material Detection Using Raspberry Pi'. The students of SIES, Nerul, presented an ingenious experiment to propagate the message 'Accident Mitigator'

The winners were honoured by Mayor Jayawant Sutar at the general body meeting of the Municipal Corporation along with the Principals of the Colleges, and the professors who guided the project. On this occasion the Deputy Mayor, Mandakini Mhatre, Municipal Commissioner Annasaheb Misal, Chairman of Standing Committee Naveen Gavte, House Leader Ravindra Ithape, Leader of Opposition Vijay Chaugule, Avinash Lad, Dr. Jayaji Nath, and others were present.



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BRANCH : Jamakalyan Sakekari Jank Ltd., 519001 500161 USER : KPM747 जनकल्याण सहकारी बंक लि JANAKALYAN SAHAKARI BANK Chestur (Scheduled 1 1808541 FIN CODE : 400071 1 25246739 PHONE #1 : 25244584 Phose #2: 0 BUN DATE :02/01/2019 16:42:14000000 STATEMENT OF ACCOUNTS ****** PAGE 1 1 Acct 14:59/71 A/C T.E.S./INSTITUTE OF TECHNO Feriod:01/01/2019 - 21/01/2019 Particulars (Instruments | Br Amount : Cr Amount Total Amount Drifts 187/51/2019:BUSINESS MACHINES SUPPLE ! 1221891 8,424.00 1,77,45,729.23 C# 1 107/61/2019; BURESM BRAURAD PINSALE 1219441 1,322.00€ 1 1,77,44,407.23 08 1 107/01/2019:RAJ CATERERS 1221761 1,554.00€ 1,77,42,853.23 CR 1 187/81/2019:ASPA TEWARE 1219631 39,430.40€; 1,77,03,423.23 CR ; 107/01/2019 NEFT LIFE INSURANCE CORPORT 1218531 21,850.00(1,76,81,573.23 CH : (67/81/2619;TELESH-E 3,202.00 1,76,84,855.23 CR : 107/01/2019; NEFT KARTIK K DANG JSBL1901 121864; 1,76,35,430.21 (8) 107/01/2019;MEFT MANIMUMBAI MUNICIPAL : 24,999.00 1,76,60,429.23 CR : [08/01/2019]SHILPA SHAILESH JOSHI 600551 :18/03/2019:CA 1095 DM SAI ENTERPSIES : 122548: 81,24,865.45 CR ; 33,402.00 ; 14,999.00 :18/03/2019; NEFT WAVIHUMBAI MUNICIPAL : 81,37,864.45 CR ;

The results of the Competition related to Students' Concepts of Disaster Management declared

Hendye NAM MUMBAI: Navi Mumbo: Municipal Corporation and United Nations



Development Program had jointly organized for Engineering Degree Colleges estudents a competition where they had to come up with their concepts on the issue related to disaster manage ment. The committee then selected 10 out of 11 proposals of

these selected ones

No.	Name of the College	Project Proposal – Title	Total Marks	Rank
54	IT Mumbal	Road Accident Response Management System	73	1
47	Vivolunanda Education Society's Institute of Technology, Chembur	Search	72	2
52	WJTI	Pushpac	70	3
25	RamraoAdik Institution of Technology, Narul	Human Detector (Snake Robot)	69	4
21	MHSSCOE	Human Rescue Robot	68	5
26	IT Numbal	Portable Operation room for Disaster Affected Areas	68	5
9	Pilla: HOC College of Engineering & Technology	Automatic Accident Detection & Notification System	55	6
34	MHSSCOE	Hazardous Material Detection uping Roopborry Pi	53	7
2	SIES	Accident Mtigator	51	8
41	41 IT Mumbal Rood Monitoring App based Estimation of Water Level & mapping by Crowd sourcing		50	9
53	ITLV	avtra	50	g

from NMMC. Here

tained by 11 proposals:



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University of Mumbai



Research Project No:162

NAME OF THE RESEARCHER

LECTURE IN AMOUNT SANCTIONED : Mr. Ajinkya Anandgopal Valanjoo

: Electronics and Telecommunication

: Rs.25000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To, The Principal, Vivekanand Education Society's Institute of Technology Hashu Advani Memorial Complex, VES Campus II, Collector Colony, Chembur - 400 074

Sub: - Minor Research Grant Project.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st March, 2019 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to the Accounts Section of University.

Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

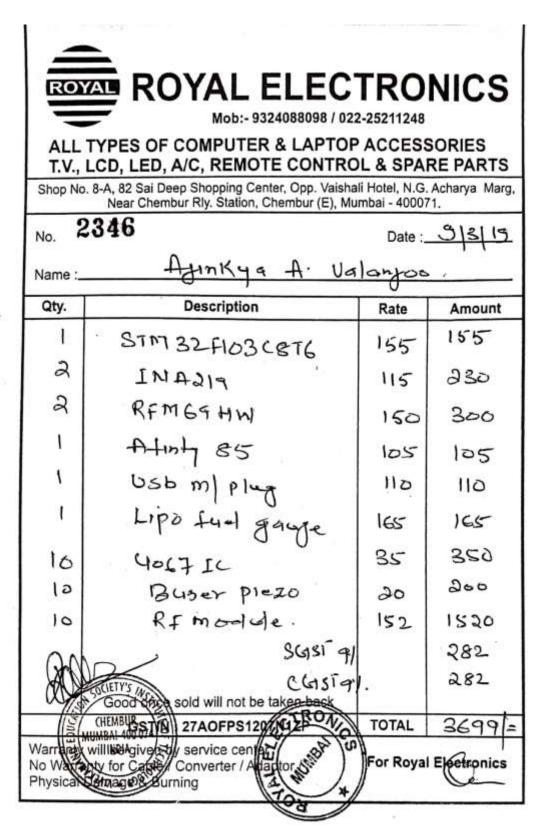
The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Assistant Registrar (Academic Planning & Development)

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2000 No 9 4 400

THE G SPARE DART



ROYAL ELECTRONICS

Mob:- 9324088098 / 022-25211248

ALL TYPES OF COMPUTER & LAPTOP ACCESSORIES T.V., LCD, LED, A/C, REMOTE CONTROL & SPARE PARTS

Shop No. 8-A, 82 Sai Deep Shopping Center, Opp. Vaishali Hotel, N.G. Acharya Marg, Near Chembur Rly. Station, Chembur (E), Mumbai - 400071.

No. 2331

Date : 7 3 19

Name: Hinkya A. Valanjoo

Qty.	Description	Rate	Amount
10	Arduno neno	150	1500
10	Step up Convorter	80	300
10	Lipo fuel gauge	165	1650
	Scasi 9.1.		310.5
	CG181' 9%		310.5
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13 000	AL-400 GSTIN : 27AOFPS1 OTNIZPS	TOTAL	4071

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ALL TYPES OF COMPUTER & LAPTOP ACCESSORIES T.V., LCD, LED, A/C, REMOTE CONTROL & SPARE PARTS

Shop No. 8-A, 82 Sai Deep Shopping Center, Opp. Vaishali Hotel, N.G. Acharya Marg, Near Chembur Rly. Station, Chembur (E), Mumbai - 400071.

No 2323

Date: 5 3 19

Name: AJINKYA A. VALANJOO

2 MQ7 CO Sensor 250 50 1 MQ9 Gas Sensor 375 37 1 USB TO TTL Module 330 32 3 Resisor 12 1 MQ2 Gas Sensor 22 1 CGST 91. 175	Qty.	Description	Rate	Amount
1 MQ 9 Glas Sensor 375 37 1 USB TO TTL maddle 330 32 1 Rasisor 1 MQ 2 Glas Sensor 22 1 CGST 91. 179	2	MQ 135 module	275	550
1 Mag Gas Sensor 375 37 1 USB TO TTL Madele 330 32 3 Resisor 1 Mag Gas Sensor 12 24 17 Class 91.	2	MQ7 CO Sensor	250	500
3 Rasisor 12 1 MQ2 Gas Sansor 22 SGIST 91 179		Mag Glas Sensor	375	375
1 Maz Gas Sansor 229 SGIST 91. 179 CGIST 91. 179	1	USB TO TTL module	330	330
1 MQ2 Gas Sinsor 225 SGIST 91/1 175 CGIST 91/1 175	3	Rasisor		ເຊ
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MINOR RESEARCH REPORT

EXPENDITURE

TITLE OF THE PROJECT: AIR QUALITY MONITORING SYSTEM FOR CHEMBUR AREA(USING A WIRELESS SENSOR NETWORK)

Principal Investigator: Mr. Ajinkya A. Valanjoo (Project No:162)

Sr.No	Bill No.	Date of bill	Particular/Purpose	Amount (Rs)
1	2323	5/3/2019	MQ135 Gas Sensor Module(2 Nos)	550
2	2323	5/3/2019	MQ7 CO Sensor(2 Nos)	500
3	2323	5/3/2019	MQ9 gas Sensor(1 Nos)	375
4	2323	5/3/2019	USB to TTL Serial Converter Adapter(1 Nos)	330
5	2323	5/3/2019	Power Resistors(3 Nos)	12
6	2323	5/3/2019	MQ2 gas sensor(1 Nos)	225
7	2331	7/3/2019	Arduino nano(10 Nos)	1500
8	2331	7/3/2019	Step Up Converter(10 Nos)	300
9	2331	. 7/3/2019	LiPo Fuel Gauge(10 Nos)	1650
10	2346	9/3/2019	STM32 F103C8T6(1 Nos)	155
1	2346	9/3/2019	INA219(2 Nos)	230
2	2346	9/3/2019	RFM69HW(2 Nos)	300
3	2346	9/3/2019	ATtiny85(1 Nos)	105
4	2346	9/3/2019	USB male plug(1 Nos)	110
5	2346	9/3/2019	LiPo fuel gauge(1 Nos)	165
	2346	9/3/2019	A/D Multiplexer	350



Institute of Technology

			CD74HC4067(10Nos)	
17	2346	9/3/2019	Piezo element buzzer(10 Nos)	200
8	2346	9/3/2019	RFM 69 HW(10 Nos)	1520
\dashv	2323	5/3/2019	CGST & SGST(18%)	358
1	2331	7/3/2019	CGST & SGST(18%)	621
+	2346	9/3/2019	CGST & SGST(18%)	564
+			Total	10120







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Vivekanand Education Society's

Institute of Technology

(Afficiated to University of Murriox, Approved by AGTE & Recognised by Good of Mahareships)

Dr. (Mrs.) J. M. Neir s. ten, e.p. (ma) Principal

Principal
Ref No. VEST/2019 AV 34(6 2018-2019

Dane 29/03/2019

Utilization Certificate

Certified that the sanctioned grant of Rs. 25,000/- (Rupees Twenty Five Thousand only) from the University Of Mumbai, under the scheme of support for Minor Research Grant Project entitled "Air Quality Monitoring System for Chembur Area (Using a Wireless Sensor Network)" by Mr. Ajinkya A. Valanjoo Rs. 10,000/- will be received as the first installment from the university. Rs.10,120/- (Ten Thousand One Hundred and Twenty only) has been utilized for the purpose and the bills have been submitted to the University accounts section for which it has been sanctioned and in accordance with the terms and conditions laid down by the university.

University letter No:APD/ICD/2018-19/593 Mobile No. 9773273165 Dated: 16eMarch, 2019

Mr. Ajinkya A. Valanjoo Principal Investigator DENSIR DENSIR SIGNATURE SI

Principal
PRINCIPAL
VIVEKANANO EDUCATION SOCIETY'S
STITUTE OF TECHNOLOGY
HAS: ADWAIN MEMORAL COMPLEX,
COLLECTOR'S COLONY, CHEMBUR.

Mushin Aden Menoral Camples, Collector's Calony, Cherdiux, Mumbo - 400 074, INDIA.

No. +91 22 6153 2532 / Fax. +91 22 6153 2555 | Email : veek@veri com / principal vest@veri ac.in + Websitz : www.ves.ac.in/vest



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No:159

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED

- : Mrs. Neeta Pankaj Chavan
- : Electronics and Telecommunication
- : Rs.25000 /-

Ref No. APD/237/691of 2019 27th March, 2019

To.
The Principal.
Vivekanand Education Society's Institute of Technology
Hashu Advani Memorial Complex.
VES Campus II, Collector Colony.
Chembur - 400 074

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st. March, 2019 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to the Accounts Section of University.

Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

nawant

(Academic Planning & Development)



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



(3)

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED

Research Project No:160

: Mrs.Himali Patel

: Electronics and Telecommunication

: Rs.20000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To,
The Principal,
Vivekanand Education Society's Institute of Technology
Hashu Advani Memorial Complex,
VES Campus II, Collector Colony,
Chembur - 400 074

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

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Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No:163

NAME OF THE RESEARCHER

: Shobhit K. Khandare

LECTURE IN

: Electronics and Telecommunication

AMOUNT SANCTIONED

: Rs.25000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To,

The Principal,

Vivekanand Education Society's Institute of Technology

Hashu Advani Memorial Complex,

VES Campus II, Collector Colony.

Chembur - 400 074

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

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The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

Assistant Registrar (Academic Planning & Development)



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Lifna C S < lifna.cs@ves.ac.in>

Fwd: Welcome to the Al for Earth Community

Nupur Giri <nupur.giri@ves.ac.in> To: Lifna C S <lifna.cs@ves.ac.in> Sat, Nov 10, 2018 at 4:00 PM

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

From: Al for Earth Grants <Al4EGrants@microsoft.com>

Date: Thu, Nov 8, 2018 at 9:27 AM

Subject: Welcome to the Al for Earth Community
To: "nupur.giri@ves.ac.in" <nupur.giri@ves.ac.in>
Cc; Al for Earth Grants <Al4EGrants@microsoft.com>

Dear Nupur,

Congratulations, and welcome to the Al for Earth community! We are excited to share that your application has been selected for an Al for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$10,000 USD, to be utilized within one year. Please note:

- The award will expire when you reach this level of cumulative usage or you reach the expiration date,
 whichever occurs first. Your expiration date will be confirmed upon activation.
- You will receive monthly statements letting you know the dollar amount of Azure that has been consumed and the dollar balance remaining; you can check usage anytime by logging into the Azure portal.
- To track project progress, we require that you:
 - · Answer quarterly surveys on progress
 - · Submit a final report on results

Next Steps:

- Please complete this Welcome Form by November 12, 2018 This is very important!
- After you attend the mandatory Grantee Onboarding Webinar (outlined in the Welcome Survey above), you will receive an email from azdesk@microsoft.com with more details and instructions on how to activate your account.
- Share any plans you may have around amplifying your AI4E award (including media outreach, press release, social media, etc.) with Michelle Lancaster, milanca@microsoft.com

Congratulations again, and we are very happy to support your work in advancing environmental sustainability!

Best.

Bonnie Le

Al for Earth Project Manager +1 4257068003 x68003

Environmental Sustainability bonnie.lei@microsoft.com

Microsoft



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Lifna C S < lifna.cs@ves.ac.in>

Fwd: Welcome to the AI for Earth Community

Gresha Bhatia <gresha.bhatia@ves.ac.in>

To: Lifna C S <lifna.cs@ves.ac.in>, Gresha Bhatia <gresha.bhatia@ves.ac.in>

Sat, Mar 23, 2019 at 2:19 AM

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

From: DEVENDRA CHAUDHARI <2015devendra.chaudhari@ves.ac.in>

Date: Thu, Nov 8, 2018, 10:01 AM

Subject: Fwd: Welcome to the Al for Earth Community

To: Gresha Bhatia <gresha.bhatia@ves.ac.in>, SANKET PARATKAR <2015sanket.paratkar@ves.ac.in>, AKSHAYA

PATIL <2015akshaya.patil@ves.ac.in>, PANKAJ AHUJA <2015pankaj.ahuja@ves.ac.in>

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

From: Al for Earth Grants <Al4EGrants@microsoft.com>

Date: Thu, Nov 8, 2018, 9:33 AM

Subject: Welcome to the Al for Earth Community

To: 2015devendra.chaudhari@ves.ac.in <2015devendra.chaudhari@ves.ac.in>

Cc: Al for Earth Grants <Al4EGrants@microsoft.com>

Dear Devendra,

Congratulations, and welcome to the Al for Earth community! We are excited to share that your application has been selected for an Al for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$10,000 USD, to be utilized within one year.

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Next Steps:

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- Share any plans you may have around amplifying your AI4E award (including media outreach, press release, social media, etc.) with Michelle Lancaster, milanca@microsoft.com

Congratulations again, and we are very happy to support your work in advancing environmental sustainability!

Best.

Bonnie Lei



Institute of Technology

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Esri software licenses for ArcGIS Pro and ArcGIS Enterprise can be provided for the one year term of the grant. Please note:

- · Award details will be determined by working with each grantee directly
- Your licenses will expire in one year
- Your use of the software is subject to the standard software licenses for the products.

Next steps:

- Please contact the appropriate representative to obtain access to the Esri Licensing award:
 - Educational Institutions please contact Ann Masangcay amasangcay@esri.com
 - Nonprofit Organizations please contact Steve Beckwitt SBeckwitt@esri.com
 - Start-up Institutions please contact startups@esri.com
- If you already have access to Esri technology through an existing agreement, Esri will facilitate license distribution from the Educational Site License or Nonprofit Enterprise Agreement administrator.
- If you need access to Esri licenses, complimentary term licenses for ArcGIS Professional and ArcGIS
 Enterprise will be provided by the Esri support contacts listed above.

3 attachments



3 Page Al4Earth Proposal-Water Supply Management and Catchment Control in Drought Prone Regions of Rural India.pdf

Detailed Al for Earth 2018 Proposal - Water Supply Management and Catchment Control in Drought
Prone Regions of Rural India.pdf



Institute of Technology

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Lifna C S <lifna.cs@ves.ac.in>

Fwd: Welcome to the Al for Earth Community : Water Supply Management and Catchment Control in Drought Prone Regions of Rural India

1 message

Richard Joseph <ri>richard.joseph@ves.ac.in>
To: Lifna C S <iifna.cs@ves.ac.in>
Co: Nupur Giri <nupur.giri@ves.ac.in>

Sat, Nov 10, 2018 at 3:43 PM

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

From: Al for Earth Grants <Al4EGrants@microsoft.com>

Date: Thu 8 Nov. 2018, 9:29 AM

Subject: Welcome to the AI for Earth Community
To: richard.joseph@ves.ac.in < richard.joseph.go.in < ri

Dear Richard,

Congratulations, and welcome to the AI for Earth community! We are excited to share that your application has been selected for an AI for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$15,000 USD, to be utilized within one year. Please note:

- The award will expire when you reach this level of cumulative usage or you reach the expiration date,
 whichever occurs first. Your expiration date will be confirmed upon activation.
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Congratulations again, and we are very happy to support your work in advancing environmental sustainability!

Best.

Bonnie Lei

All for Earth Project Manager +1 4257068003 x68003
Environmental Sustainability bonnie.lei@microsoft.com

cid:image002.jpg@01D4766D.FCD81740

If you are nonprofit, academic, or start-up institution interested in accessing Esri software licenses, please follow the below instructions:



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Esri software licenses for ArcGIS Pro and ArcGIS Enterprise can be provided for the one year term of the grant. Please note:

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 - Nonprofit Organizations please contact Steve Beckwitt SBeckwitt@esri.com
 - Start-up Institutions please contact startups@esri.com
- If you already have access to Esri technology through an existing agreement, Esri will facilitate license distribution from the Educational Site License or Nonprofit Enterprise Agreement administrator.
- If you need access to Esri licenses, complimentary term licenses for ArcGIS Professional and ArcGIS
 Enterprise will be provided by the Esri support contacts listed above.

3 attachments



3 Page Al4Earth Proposal-Water Supply Management and Catchment Control in Drought Prone Regions of Rural India.pdf

Detailed Al for Earth 2018 Proposal - Water Supply Management and Catchment Control in Drought
Prone Regions of Rural India.pdf



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Kajal Jewani <kajal.jewani@ves.ac.in>

Welcome to the AI for Earth Community

Kajal Jewani <kajal.jewani@ves.ac.in> To: Lifna C S <lifna.cs@ves.ac.in> Mon, Mar 18, 2019 at 11:41 AM

From: Kajal Jewani kajal Jewani kajal Jewani@ves.ac.in
Date: Mon, Mar 18, 2019 at 9:30 AM
Subject: Fwd: Welcome to the Al for Earth Community

To: Lifna C S <iifna,cs@ves.ac.in>

From: Al for Earth Grants AMEG

From: Al for Earth Grants <Al4EGrants@microsoft.com>

Date: Thu, Nov 8, 2018, 9:24 AM

Subject: Welcome to the AI for Earth Community
To: kajal.jewani@ves.ac.in <kajal.jewani@ves.ac.in>
Co: AI for Earth Grants <AI4EGrants@microsoft.com>

Dear Kajal,

Congratulations, and welcome to the Al for Earth community! We are excited to share that your application has been selected for an Al for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$15,000 USD, to be utilized within one year. Please note:

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- Share any plans you may have around amplifying your AI4E award (including media outreach, press release, social media, etc.) with Michelle Lancaster, milanca@microsoft.com

Congratulations again, and we are very happy to support your work in advancing environmental sustainability!

Best,

Bonnie Lei



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

All for Earth Project Manager +1 4257068003 x68003 Environmental Sustainability bonnie lei@microsoft.com

cid:image002.jpg@01D4766D.FCD81740

If you are nonprofit, academic, or start-up institution interested in accessing Esri software licenses, please follow the below instructions:

Esri software licenses for ArcGIS Pro and ArcGIS Enterprise can be provided for the one year term of the grant. Please

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 - Educational Institutions please contact Ann Masangcay amasangcay@esri.com
 - Nonprofit Organizations please contact Steve Beckwitt SBeckwitt@esri.com
 - Start-up Institutions please contact startups@esri.com
- If you already have access to Esri technology through an existing agreement, Esri will facilitate license distribution from the Educational Site License or Nonprofit Enterprise Agreement administrator.
- If you need access to Esri licenses, complimentary term licenses for ArcGIS Professional and ArcGIS
 Enterprise will be provided by the Esri support contacts listed above.

Thanks Ms.Kajal Jewani, Asst Prof. VESIT,Chembur,Mumbai

2 attachments

Microsoft image002.jpg

Microsoft image002.jpg



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Sunita Sahu <sunita.sahu@ves.ac.in>

Fwd: Welcome to the Al for Earth Community

SAGAR MADNANI <2015sagar madnani@ves.ac.in> To: Sunita Sahu <sunita sahu@ves.ac.in>

Thu. Nov 8, 2018 at 12:40 PM

From: Al for Earth Grants <Al4EGrants@microsoft.com>
Date: Thu, 8 Nov 2018, 12:13 pm

Subject: Welcome to the Al for Earth Community

To: 2015sagar madnani@ves.ac.in <2015sagar madnani@ves.ac.in>
Cc: Al for Earth Grants <Al4EGrants@microsoft.com>

Congratulations, and welcome to the Al for Earth community! We are excited to share that your application has been selected for an Al for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$5,000 USD, to be utilized within one year. Please note:

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Congratulations again, and we are very happy to support your work in advancing environmental sustainabilityl

Best,

All for Earth Project Manager -1 4257068003 v68003 Environmental Sustainability harrie.les@microsoft.com

pridimage002.jpg@01.047660.FCD81740

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Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No:187

NAME OF THE RESEARCHER

LECTURE IN

: Indu Dokare

AMOUNT SANCTIONED

: Electronics Engg.

D : Rs.25000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To,
The Principal,
Vivekanand Education Society's Institute of Technology
Hashu Advani Memorial Complex
VES Campus 11, Chembur - 400074

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai

Research Project No:105

NAME OF THE RESEARCHER

LECTURE IN

AMOUNT SANCTIONED

: Rupali Hande

: Computer Engg.

: Rs.40000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To,
The Principal,
Vivekanand Education Society's
Institute of Technology, Hashu Advani Memorial Complex,
Collector's Colony, Chembur, Mumbai - 400 074.

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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Yours faithfully,

(Academic Planning & Development)



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai

Academic Planning & Development Section

No.APD/ICD/2018-19/593 16th March, 2019

Sub: Minor Research Grant Project 2018-19

Sir/Madam

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

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Please note that 60% balance amount, out of sanctioned grant will be released after Poster Presentation & final approval of the committee. Therefore you need to submit of utilization certificate after presentation of your research including bills/vouchers/receipts in original through University Account Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August, 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

(Sanjana Sawant) Assistant Registrar (APD Section)

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Institute of Technology

91	Vincy Joseph	St. Francis Institute of Tech. (Engg. College),	25000	
92	Mr. Anand Khandare	Thakur college of engineering and technology	25000	
93	Dr. Sheetal Rathi	Thakur college of Engineering and Technology, Mumbai	25000	
94	Ms, Sunita Suresh Suralkar	VES Institute of Technology Hashu advani Memorial Complex VES Campus II, Chembur - 400074	30000	
95	Rohini Temkar	Vivekanand College	30000	
96	Mrs. Shubhangi R. Patil	A. C. Patil College of Engineering	30000	
97	Shiwani Gupta	CMPN, TCET	35000	
98	Mr. Mushtak Yusuf Gadkari	Department of Computer Engineering, Rajendra Mane College of Engineering & Technology, Ambav(Devrukh)	30000	
99	Lakshmi Kurup	Dwarkadas J. Sanghvi College of Engineering, Vile Parle(W)	30000	
100	Mrs. Ashwini Amit Pansare	FR. Conceicao Rodrigues College Of Engineering	25000	
101	Varunakshi Bhojane	Pillai College of Engineering	40000	
	Smita Vinit Bhoir	Ramrao Adik Institute of Technology	30000	
	Dr. Rizwana Shaikh	SIES Graduate School of Technology	40000	
_	Dr. Kavita Sonawane	St. Fracis Institute of Technology	30000	
93	Rupali Hande	VES Institute of Technology	40000	
106	Anjali Yeole	Vivekanand Education Society's Institute of Technology	30000	
107	Dr. M. V. Bagal	Bharati Vidyapeeth's Institute of Management and Information Technology Sector - 8, CBD Belapur, Navi Mumbai	50000	Chemical Engg.
108	Nitin Gajanan Kanse	Finolex Academy of Management and Technology P-60, P-60/1, MIDC, Mirjole Block, Ratnagiri - 415 639	25000	
109	Dr. Sandip Hasuram Gharat	GHARDA INSTITUTE OF TECHNOLOGY A/P Lavel, Tal, Khed, Dist. Ratnagiri - 415 708	35000	
110	Dr. Sunita Pachori	Thakur College of Engineering and Technology Shyamnarayan Thakur Marg, Thakur Village, Kandivali (E) Mumbai	30000	



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Vivekanand Education Society's

Institute of Technology

(Affiliated to University of Mumber, Approved by AICTE & Recognised by Gost, of Maharashtra)

Dr. (Mrs.) J. M. Nair

M. tem. Ph.D. (1874) Principal

REL NO. VESTI JMN | RH | 3458/2018-19

Date 4 04 19

Utilization Certificate

Certified that the sanctioned grant of Rs. 40,000/-(Forty Thousand only) from the University Of Mumbai, under the scheme of support for Minor Grant Project entitled "transparent and trackable donations using blockchain" by Ms.Rupali Sambhaji Hande. INR 14,297/-(Fourteen Thousand Two Hundred and Ninety Seven only) has been utilized for the purpose and the bills have been submitted to the University accounts section for which it has been sanctioned and in accordance with the terms and conditions laid down by the university.

Research Project No:105

University letter No: APD/237/601 of 2019

Mobile No:7738880843

Dated: 27th March 2019

Ms.Rupifi Sambhaji Hande Principal Investigator



Dr. Mix. J.M. Nair
Principal
PRINCIPAL,
VIVEKANAND EDUCATION SOCIETY'S
INSTITUTE OF TECHNOLOGY
HASHU ADVANI MEMORIAL COMPLEX,
COLLECTOR'S COLOTY, CHEMBUR,
MUMBAI-400 074, INDIA.



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Minor Research Project - Transparent and trackable donations using Block Chain

Sr. No.	Bill No.	Date of Bill	Particulars / Purpose	Amount (Rs.)	Indent No. & Sr. No.
1	Amazon,in Order ID. 402-941952 6-5825155	27/03/2019	Introducing Ethereum and Solidity; Foundation of Cryptocurrency and Blockchain programming for beginners chris Dannen Paperback Sold by: Knowledge Partners	559/-	CMPN/C457
		technology behind cryptocurrencies is world Tapscott, D Alex Paperback Sold by: amazing	0.00000	359/-	CMPN/C456
			Hands-On Blockcahin with hyperledger: building decentralized application with hyperledger fabric and composer Gaur, Nitin, DEsrosiers, Luc, Ramkrishna, Venkatraman, Novotny, petr,Baset, Salman,O'Dowd,Antony Paperback Sold by: Repro books-on-demand Fulfilled by Amazon	1077/-	CMPN/C458
			Order Total	1436/-	
2	Udemy AD-666D476B	4D-666D476B 958616B6D6	Ethereum and solidity: The Complete Developer's Guide	770/-	
	5958616B6D6 17839		Blockchain Technology- The Complete course for Beginners	770/-	
			Learn Blockchain by building your own In JavaScript	770/-	



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Coursera Order no.:23873551	28/03/2019	Course certificate for Blockchain: Foundation and Use Cases	5667/-
		Order Total	7977/-
Dhiraj Xerox Invoice No. 915	28/03/2018	Miscellaneous amount for Bill NO. 915	990/-
Microsoft Corporation (India) Private Limited:TIO19 HR100321286		Microsoft Power BI	3894/-

Total Amount:1436+7977+990+3894=14297/-

CHEMBUR

COCKETY 40

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VESIT | CMPN |2018-19 | 003 | 1



Tax Invoice/Bill of Supply/Cash Memo (Original for Recipient)

Sold By:

Repro Knowledgecast Ltd

* Renaissance Industrial Smart City, Block WA-V -1,2,3, Kalyan Padgha State Highway 222, Village Vashere, Post Aamne Thane, Maharashtra, 421302

PAN No: AAECR4557N

GST Registration No: 27AAECR4557N3ZQ

Order Number: 402-6216412-4178701

Order Date: 27.03.2019

Billing Address:

Rupali Hande Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex Collectors Colony Chembur MUMBAI, MAHARASHTRA, 400074

Shipping Address:

Rupali Hande Rupali Hande

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex Collectors Colony Chembur MUMBAI, MAHARASHTRA, 400074

Invoice Number: XWAB-274059 Invoice Details: MH-XWAB-176059511-1819

Invoice Date: 27.03.2019

Si. Na	Description	Unit Price	Discount	Qty	Net Amount	Tax Rate	Tax Type	Tax Amount	Total Amount
1	Hands-On Blockchain with Hyperledger: Building decentralized applications with Hyperledger Fabric and Composer 1788994523 (RKC0003325124)	\$1,077.00	To.00	1	₹1,077.00	ο%	IGST	₹0.00	₹1,077.00
						0%	CGST	\$0.00	
						0%	IGST	to.00	
						0%	None	30.00	
						0%	VAT	30.00	
						$\Omega_{20}^{\rm H2}$	SGST	10.00	
	Shipping Charges	₹20.00	-320.00		30.00	0%	IGST	30.00	30.00
		1000	10000000			0%	CGST	70.00	
						0%	IGST	₹0.00	
						0%	None	70.00	
						9%	VAT	To.00	
						$\Omega^{0/}_{\infty}$	SGST	₹0.00	
rn	TAI:							20.00	Y- 000 00

10.00 11.077.00

Amount in Words:

One Thousand And Seventy-seven only

For Repro Knowledgecast Ltd:

Authorized Signatory

MUMBELL AGO ST

PRINCIPAL VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY HASHU ADVANT MEMORIAL COMPLEX, COLLECTOR'S COLONY, CHEMBUR, MUMBAI-400 074, INDIA.

104



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amazon.in

Tax Invoice/Bill of Supply/Cash Memo (Original for Recipient)

Sold By :

India Book Distributors (Bombay) Limited
* DTDC 3PL & Fulfilment Ltd NO.2-96/1 KVR
Warehousing, Survey No.52 A & B Kandlakoi (V)
Medchal (M) , Medchal -MALKAJGIRI (D)
Hyderabad, Telangana, 501401
IN

PAN No: AAACI1048K

Order Date: 27.03.2019

GST Registration No: NotApplicable

Order Number: 402-6216412-4178701

Billing Address:

Rupali Hande Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex Collectors Colony Chembur

MUMBAI, MAHARASHTRA, 400074

Shipping Address:

Rupali Hande

Rupali Hande

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex

> Collectors Colony Chembur MUMBAI, MAHARASHTRA, 400074

> > 11/4

Invoice Number: QSLJ-116299 Invoice Details: TG-QSLJ-11971715-1819

Invoice Date: 27.03.2019

NO	Description	Price	Discount	Qty	Net Amount	Tax Rate	B 7-2507-7-1	Tax Amount	Total Amount
	Blockchain Revolution: How the Technology Behind Bitcoin and Other Cryptocurrencies is Changing the World 0241237866 (ABK 0315947)	₹359.00	70.00	i	₹359.00	0%			₹359.00
	Britain Street State on Active State Process Assess Constitution					0%	CGST	₹0.00	
						0%	IGST	to.oo	
	HESCOCIOSIO					0%	None	To.00	
	Shipping Charges	₹20.00	-320.00		10.00	0%	IGST	30.00	30.00
						0%	CGST	70.00	1,000
						0%	IGST	30.00	
17	WW.					0%	None	70.00	
го	TAL:							10.00	1359.00

Amount in Words:

Three Hundred And Fifty-nine only

For India Book Distributors (Bombay) Limited:

Authorized Signatory

GOLDANDON STANDS

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HAS TO ADVANT MEMORIAL COMPLEX, COLLECTOR'S COLONY, CHEMBUR, MUMBAI-400 074, INDIA.

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11070 2 11 2



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Tax Invoice/Bill of Supply/Cash Memo (Triplicate for Supplier)

Sold By:

Knowledge Partners

co Mehul Book Sales, 10 and11 ,First Floor, Kitab Mahal Bldg, 193, DN Road ,Fort , Mumbai, MAHARASHTRA, 400001 IN

PAN No: AOWPP2619A

Order Date: 27.03.2019

GST Registration No: NotApplicable

Order Number: 402-9419526-5825155

Billing Address:

Rupali Hande

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex Collectors Colony Chembur MUMBAI, MAHARASHTRA, 400074

12

Shipping Address:

Rupali Hande

Rupali Hande

Vivekanand Education Societys Institute of Technology, Hashu Advani Memorial Complex Collectors Colony Chembur

MUMBAI, MAHARASHTRA, 400074

IN

Invoice Number: IN-223 Invoice Details: MH-138352001-1819

Invoice Date: 28.03.2019

SI. No	Description	Unit Price	Qty	Net Amount				Total Amount
4	Introducing Ethereum and Solidity: Foundations of Cryptocurrency and Blockchain Programming for Beginners 807K2RRTLP (9781484240120)	₹509,00	2000	₹509.00			₹0.00	3509.00
	100000000000000000000000000000000000000				0%	CGST	₹0.00	
					0%	IGST	₹0.00	
					0^{0}	None	₹0.00	
					0%	VAT	₹0.00	
	Chemistre de Marca				0%	SGST	₹0.00	
	Shipping Charges	₹50.00		₹50.00	0%	IGST	₹0.00	₹50.00
					0%	CGST	₹0.00	
					0%	IGST	₹0.00	
					0%	None	₹0.00	
					0%	VAT	₹0.00	
					$O_{10}^{4\prime}$	SGST	₹0.00	

TOTAL

₹0.00 ₹559.00

Amount in Words:

Five Hundred And Fifty-nine only

For Knowledge Partners:

Authorized Signatory

"ASSPL-Arhanon Sedel Services Put. Up Qualitative Illustrate of proving report CC1 or VIVEKANAND EDUCATION SOCIETY'S
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Receipt

Receipt for Cart - April 3, 2019

Udemy

600 Harrison St. – 3rd Floor San Francisco, CA udemy.com (/)

Date: March 26, 2019

Order #: AD-666D476B5958616B6D617839

Sold To: Rupali Soni

Item Ethereum and Solidity: The	Ordered March 26,	Coupon Code	Quantity	Price ₹770	Amount ₹770
Complete Developer's Guide	2019	UDEAFFEI319			
Item Blockchain Technology - The Complete Course for Beginners.	Ordered March 26, 2019	Coupon Code UDEAFFEI319	Quantity 1	Price ₹770	Amount ₹770
Item Learn Blockchain By Building Your Own In JavaScript	Ordered March 26, 2019	Coupon Code UDEAFFEI319	Quantity 1	Price ₹770	Amount ₹770
			Total	₹2,310	
			Total Paid	₹2,310	

If you have any questions about this receipt please contact us at support@udemy.com

(mailto:support@udemy.com)

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No.	Computer Property British Binding, Lamin Vesit Hamt Complex, Chembur, Mumba	rintout, ation, Si collectors	tationery Colony,
S/No.	Particulars	Rate	Amount Rs. P.
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MUMBAI-400 074, INDIA.



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VESIT 10MPH /2018-10 100314



Rupali Hande <rupalihande1909@gmail.com>

Your Receipt for Order #23873551

2 messages

Coursera <no-reply@t.mail.coursera.org> To: Rupali Hande <rupalihande1909@gmail.com> Thu, Mar 28, 2019 at 1:58 PM

coursera

Dear Rupali Hande,

Thank you for your purchase.

RECEIPT

Coursera Inc.

381 E. Evelyn Avenue Mountain View, CA 94041 USA

03-28-2019

Order Number: 23873551

Price

Qty

Course Certificate for Blockchain: Foundations

INR 5667.00

and Use Cases

TOTAL (INR): 5667.00

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View your purchase history.

Happy Learning!

The Coursera Team

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(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No:94

NAME OF THE RESEARCHER

LECTURE IN

AMOUNT SANCTIONED

: Ms. Sunita Suresh Suralkar

: Computer Engg.

: Rs.30000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To, The Principal, VES Institute of Technology Hashu advani Memorial Complex VES Campus II, Chembur - 400074

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on # before 31st March, 2019 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to the Accounts Section of University.

Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Assistant Registrar

Yours faithfully.

(Academic Planning & Development)



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No:106

NAME OF THE RESEARCHER

LECTURE IN

AMOUNT SANCTIONED

: Anjali Yeole

: Computer Engg.

: Rs.30000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To, The Principal, Vivekanand Education Society's Institute of Technology, Hashu Advani Memorial Complex, Collector's Colony, Chembur, Mumbai - 400 074.

Sub: - Minor Research Grant Project.

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research

Assistant Registrar (Academic Planning & Development)



Vivekanand Education Society's

Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No:186

NAME OF THE RESEARCHER.

: Mrs. Nillma Vasant Warke

LECTURE IN

: Electronics Engg.

AMOUNT SANCTIONED

: Rs.20000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To,
The Principal,
Vivekanand Education Society's Institute of Technology
Hashu Advani Memorial Complex
VES Campus II, Chembur - 400074

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully

(Academic Planning & Developmen

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Design and construction of a computer controlled High Resolution Research Grade Validation System for Hardware Research Abstract:

Electronic hardware systems are often designed and constructed based on new concepts and methods during research work in field of electronics engineering. The performance of these hardware systems needs to be validated for the input-output relationship for which these systems are designed. Conventional methods for validation of hardware research involve use of DSO, high resolution DMM etc. for testing of input and output signals. Input signals are generated using conventional signal generator units. These methods of validation give limited accuracy of 8 to 10 bits and are also susceptible to manual measurement errors. Hence these validation methods are often questioned by expert research workers in this field. For testing the hardware with high resolution these input signals should also be generated with high accuracy and resolution with varying amplitude and frequency which is not possible by conventional signal generators available in laboratories. The output of research system also needs to be measured with high resolution (16 bits) and compared with the desired output for error analysis. Thus existing instruments and test systems are not adequate for validation of the performance of the new hardware which has been developed as a part of research work aiming at high resolution, high accuracy over wide bandwidth. Here I propose a new high resolution computer controlled validation system for hardware research validation. Here, input to the hardware research system will be generated with computer controlled signal generator which will generates the signals with 16 bit resolution over bandwidth of 0-10MHz and amplitude from 100microvolts to 10 Volts. The output of the hardware system in response to the inputs is digitized using a high resolution (16 bits) ADC. The data from ADC is transferred to PC using high speed data transfer.

The system will be useful for validation of the performance of all electronics system including biomedical system applications. Useful for students and research workers in academic institutes, research centers and industries

Mas. Nilima Warke.



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(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No:189

NAME OF THE RESEARCHER

LECTURE IN

AMOUNT SANCTIONED

: Mrs. Kanchan Vivek Chavan

: Instrumentation Engineering

: Rs.20000 /-

Ref No. APD/23 //60101 2019 27th March, 2019

To,
The Principal,
Vivekanand Education Society's Institute of Technology
HAMC, Collector Colony, Chembur, Mumbai - 74

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

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Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

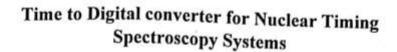
Yours faithfully

Assistant Registrar (Academic Planning & Development)



Institute of Technology

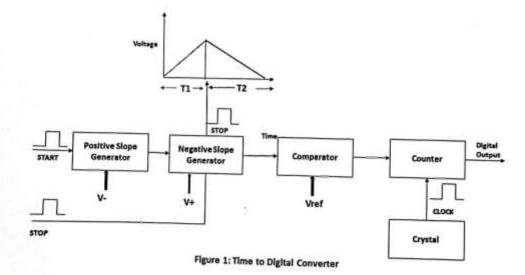
(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Project Incharge: Mrs. Kanchan Chavan Area of Research: Nuclear Instrumentation

Abstract/Description:

Time Interval measurement is required in various applications from different domains e.g. Laser ranging applications, the laser pulse is used to detect the distance of the object. Precise measurement is required of time interval when the laser beam is sent and the arrival of the reflected beam from the object. Time of flight measurement experiments are used in timing spectroscopy systems, lifetime measurements in atomic and high energy physics, nuclear medical instruments etc.



The main aim of the Project is to develop Time to Digital Converter (TDC). Refer Figure 1. At the arrival of START pulse, positive slope generator starts building ramp at the output using Reference Input 1 (negative voltage). During time interval T1- ramp starts increases in positive direction. Ramp slope and voltage magnitude is decided by the designed components of positive slope generator. When STOP pulse is received, Reference Input 2



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(positive voltage - having opposite polarity w.r.t. Reference Input 1) is connected to negative slope generator. Ramp starts decreasing in the negative direction during time interval T2. When ramp crosses zero (ground line), it is detected by Comparator. Time interval (when ramp is decreasing) is digitally counted by counter. So higher the input time difference between START and STOP pulse, ramp increases in positive direction to large magnitude of voltage, hence time required for decreasing ramp is more and so the digital counter output increases in proportion to this time interval.

Depending upon the range of the time interval measurement the positive slope generator circuit will generate calibrated slopes and accordingly negative slope generator circuit will also generate corresponding calibrated negative slopes. These slopes will be decided depending upon the range and resolution required for TDC.



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University of Mumbai

Academic Planning & Development Section

No.APD/ICD/2018-19/593 16th March, 2019

Sub: Minor Research Grant Project 2018-19

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st March, 2019 and submit original bills/vouchers of the expenditure along with Utilization Certificate duly certified by the Principal/Director/Head/Institute/University Department/College to the Accounts Section of the University.

Please note that 60% balance amount, out of sanctioned grant will be released after Poster Presentation & final approval of the committee. Therefore you need to submit of utilization certificate after presentation of your research including bills/vouchers/receipts in original through University Account Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August, 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

(Sanjana Sawant) Assistant Registrar (APD Section)

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229	Dr. Madhuri Rao	Thadomal Shahani Engineering College	35000
230	DILIP MOTWANI	VIDYALANKAR INSTITUTE OF TECHNOLOGY	15000
231	Dr. (Mrs.) Shalu Chopra	Vivekanand Education Society's Institute Of Technology, Chembur	15000
232	Mr. Prasad Padalkar	Don Bosco Institute of Technology Premier Automobile Road, Kurla (W) -70	30000
233	Prof. Chhaya Narvekar	Xavier Institute of Engineering Mahim Causeway, Mahim, Mumbai - 400 016	15000
234	Mr. Shridhar Kamble	Thakur College of Engineering & Technology A- Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali (E), Mumbai - 400 101	25000



Institute of Technology

189	Mrs. Kanchan Vivek Chavan	Vivekanand Education Society's Institute of Technology	20000]
190	Yogesh H. Patil	A. C. Patil College of Engineering	25000	
191	Popat Rajaram Bhosale	KONKAN GYANPEETH COLLEGE OF ENGG KARJAT	35000	
192	Poonam Rajendra Mogal (Waje)	Department of Instrumentation Engineering, Ramrao Adik Institute of Technology,	30000	
193	Ramakant Shripat Patil	Department of Instrumentation Engineering, Ramrao Adik Institute of Technology,	35000	
194	Mrs. Supriya Bhuran	Department of Instrumentation Engineering	25000	1
195	Dr. Hari Vasudevan	Dwarkadas J. Sanghvi college of Engineering, Production Engineering Dept.	50000	Production Engineering
196	Anuradha Bharat Mistry	Thadomal Shahani Engineering College, Department of Biomedical Engineering	15000	Bio-Medical Engineering
197	Manali Godse	Dwarkadas J. Sanghvi College of Engineering	40000	
198	Prof. Nileema Pathak	Atharva College of Engineering	35000	Information Technology
199	Dr. Shanta Sondur – Professor	Department of Information technology, VES Institute of Technology Hashu Advani Memorial Complex VES Campus II, Chembur - 400074	35000	
200	Mrs Vaishali Kavathekar	Don Bosco Institute of Technology, Kurla West, Mumbai 400070.	15000	
201	Mrs. Sarika Manoj Davare	Fr. Conceicao Rodrigues C.O.E. Bandra/ Information Technology	25000	



Institute of Technology

210	Ms grinal Merwin Tuscano	St. Francis Institute of Technology	35000
211	Prajyoti D'silva	St. Francis Institute of Technology/Information Technology Department	35000
212	Brinzel Rodrigues	St. John College of Engineering and Management	25000
213	Shraddha More	St. John College of Engineering and Management	15000
214	Hetal Amrutia	Thakur College of Engineering and Technology/Information Technology	40000
215	Vidya chitre	Vidyalankar Institute of Technology, Information Technology	20000
216	SUKANYA ROYCHOWDHURY	Vivekanand Education Society's Institute of Technology, Department of Information Technology	35000
217	Dr. Kumudini Das	Pillai College of Arts, Commerce & Science(Information Technology) Dr. Vasudevan Pillais Campus, Plot No. 10, Sector 16, New Panvel, Maharashtra - 410 210	31500
218	Dr. Santosh Kumar Singh	Thakur College of Science and Commerce Shyamnarayan Thakur Marg, Thakur Village, Kandivali (E), Mumbai - 400 101	50000



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No:216

NAME OF THE RESEARCHER

LECTURE IN AMOUNT SANCTIONED : SUKANYA ROYCHOWDHURY

: Information Technology

: Rs.35000 /-

Ref No. APD/237/601of 2019 27th March, 2019

To. Vivekanand Education Society's Institute of Technology Hashu Advani Memorial Complex VES Campus II, Chembur - 400074

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st March, 2019 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to the Accounts Section of University.

Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research

> Assistant Registrar (Academic Planning & Development)

> > Scanned by CamScanner



Institute of Technology









Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai

Academic Planning & Development Section

No.APD/ICD/2018-19/593 16th March, 2019

Sub: Minor Research Grant Project 2018-19

Sir/Madam.

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

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Please note that 60% balance amount, out of sanctioned grant will be released after Poster Presentation & final approval of the committee. Therefore you need to submit of utilization certificate after presentation of your research including bills/vouchers/receipts in original through University Account Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August, 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

(Sanjana Sawant) Assistant Registrar (APD Section)



Institute of Technology

85	Ms. Sushopti D. Gawade	Pillai College of Engineering , Panvel	25000
86	Dr. Ashok Kanthe	Pillai HOC College Engineering & Technology	30000
87	Mrs. Swarupa Sandeep Bodhe	Ramrao Adik Institute of Technology	30000
88	Prof. Dr. Vidhate Amarsinh	Ramrao Adik Institute of Technology	25000
89	TUSHAR H GHORPADE	Ramrao Adik Institute of Technology	25000
90	Dr. Bhavesh Patel	Shah & Anchor Kutchhi Engineering College	30000

91	Vincy Joseph	St. Francis Institute of Tech. (Engg. College),	25000	
92	Mr. Anand Khandare	Thakur college of engineering and technology	25000	
93	Dr. Sheetal Rathi	Thakur college of Engineering and Technology, Mumbai	25000	
94	Ms. Sunita Suresh Suralkar	VES Institute of Technology Hashu advani Memorial Complex VES Campus II, Chembur - 400074	30000	
95	Rohini Temkar	Vivekanand College	30000	
96		ngi R. Patil A. C. Patil College of	30000	
97	Shiwani Gupta	CMPN, TCET	35000	
98	Mr. Mushtak Yusuf Gadkari	Department of Computer Engineering, Rajendra Mane College of Engineering & Technology, Ambav(Devrukh)	30000	
99	Lakshmi Kurup	Dwarkadas J. Sanghvi College of Engineering, Vile Parle(W)	30000	
10 0	Mrs. Ashwini Amit Pansare	FR. Conceicao Rodrigues College Of Engineering	25000	
10 1	Varunakshi Bhojane	Pillai College of Engineering	40000	



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Ref AISECT/CRG/RP/2020/18

Core Research Group (CRG) Rabindranath Tagore University Campus, Village Mendua, Post Bhojpur, Dist. Raisen-464993 (M.P.)

Dr. S. Veenadhari Ms. Meenakshi Mittal RNTU Bhopal

Approval of the Project for Internal Funding

We are pleased to inform you that the Research Project submitted by you with following details has been approved for internal funding by CRG:-

S. No.	Title of the Project	Name of PI	Cost in Rs.	Time Duration
1.	Search Engine Ranking Prediction & Improvement, Using Neural Networks	Dr. S. Veenadhari Ms. Meenakshi Mittal	0.70L	03 months

Expected Deliverables

- 1. All deliverables committed in the project proposal submitted by the PI.
- Minimum 2 research papers. One in Scopus/web of science/Springer or of similar status journal and one in UGC Approved Journal or in/Anusandhan/Shodhaytan.
- 3. Working Model and Patent where ever possible with credit to the University.
- Project Report in 3 copies.

Major Terms & Conditions

- Fifty percent of cost of the project will be allotted through a cheque drawn in favour of the PI. The PI must provide SB Account details and a copy of Adhar Card and Pan Card.
- For purchase of any item or payment for services the PI & team will strictly follow purchase policy of the AISECT.
- The PI shall try to do bulk purchase of consumables and claim maximum discount Remaining purchases could be done on as required basis.
- 4. Equipment, tools and consumables will be brought on charge in the Central Stock Register.
- PI will ensure that available manpower and eqpt resources available in the university are utilised for the project and no hiring done from outside.

You are requested to send written acceptance of terms and condition in the format enclosed.

Prof. Vijay Kant Verma
Convener CRG
Rabindranath Tagore University

Copy to

1. VC RNTU Bhopal



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

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E DY STREET	INSTITUTE OF TECHNOLOGY	Y*********
Wite Comment	the service of Alexino, enqueries the Anil 1 & Rend greated by	Govt of Maharashtra)
Dr. Mrs. J. M. Nair		Date 28/3/2018
Ref. No. : VESITOPIN	12780/2017-18	

UTILIZATION CERTIFICATE

Certified that the sanctioned grant of Rs. 25,000/- (Rupees Twenty five thousand only) from the University of Mumbai, under the scheme of support for Minor Research Project entitled "Mind Controlled Assistive Quadrotor Drone" by Mrs. Ashwini Sawant has been fully untitled for the purpose for which it has sanctioned and in accordance with the terms and conditions laid down by the University.

Proposal No: University Letter No	5-210 (-		(4.5)
Principal Investigato	5	C.P.I.	Principal Officers As Section 19 19 19 19 19 19 19 19 19 19 19 19 19
Date:			College Seal

Hashu Advani Memorial Complex, Collector's Colony, F. C. Marg, Chembur, Mumber - 400 074 Phone. (CC2) 61532532 Fax: (022) 61532555 email: vesit Evant.com website: www.vesit.edu

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Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)





Research Project No: 418

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED

: Mrs. Nusrat Ansari

: Electronics & Telecommunication

: Rs. 26,500/-

Ref No. APD/237/323of 2018 27th March, 2018

To.
The Principal,
Vivekanand Education Societys Institute of Technology
Hashu Advani Memorial Complex, Collector's Colony,
R.C. Marg, Chembur, Mumbai-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2018.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

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Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2018.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Assisant Registrar (Academic Planning & Development)

Yours faithfulb



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Research Project No: 422

NAME OF THE RESEARCHER LECTURE IN AMOUNT SANCTIONED

: Ms. Anuradha Jadiya

: Electronics & Telecommunication

: Rs. 24,000/-

Ref No. APD/237/323of 2018 27th March, 2018

To,
The Principal,
Vivekanand Education Societys Institute of Technology
Hashu Advani Memorial Complex,
Collector's Colony,
R.C. Marg, Chembur,
Mumbai-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam,

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2018.

Yours faithfully

Assistant Registrar

(Academic Planning & Development Section)



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai



Research Project No: 344

NAME OF THE RESEARCHER

: Mrs. Gresha S. Bhatia

LECTURE IN

: Computer Engineering

AMOUNT SANCTIONED

: Rs. 40000/-

Ref No. APD/237/323of 2018 27th March, 2018

To, The Principal, Vivekanand Education Society's Institute of Technology Hashu Advani Memorial Complex VES Campus II. Chembur-400 074.

Sub: - Minor Research Grant Project.

Sir/Madam

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2018.

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2018.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research

> Assisant Registrar (Academic Planning Development)

Yours faithfully

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Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai

Research Project No: 326

NAME OF THE RESEARCHER

: Mr. Richard Joseph

LECTURE IN

: Computer Engineering

AMOUNT SANCTIONED

: Rs. 40000/-

Ref No. APD/237/323of 2018 27th March, 2018

The Principal, Vivekanand Education Society's Institute of Technology Hashu Advani Memorial Complex VES Campus II, Chembur-400 074.

Sub: - Minor Research Grant Project.

Sie/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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The researcher is expected to spend 60% amount initially from his/her own resources to carry out

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2018.

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> Assisant Registrar (Academic Planning Development)

Yours faithfully

Scanned by CamScanner



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Sanket Paratkar, Deepa Narayan, Nikhil Dalvi, Akash Birari have won the 1st prize in Smart India hackathon on 31st March 2018 at science and technology NCL Pune under the guidance of Prof. Manisha Gahirwal and Abha Tewari

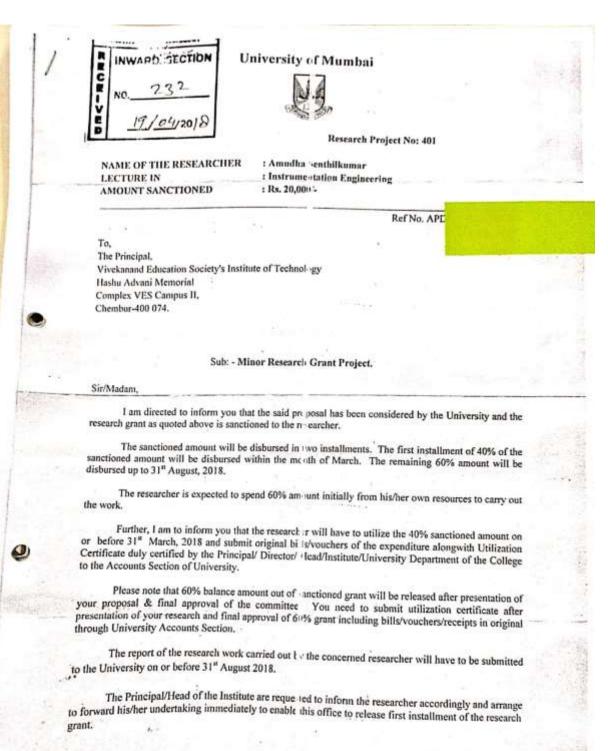






Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



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Assisant Registrar (Academic Planning Development)



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Universi	ity of Mumbai
NAME OF THE RESEARCHER:	Garage and the state of the sta
LECTURE IN STEE TO THE	in the in coffee
AMOUNT SANCTIONED: Rs.	
-	Ref No. APD/237 4 - 1 of 2017
	Ref No. APD 23 January, 2017
	15
To,	
The Principal,	
The Principal.	
District Good	
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March as Sec. 17	
Sir/Madam. With reference to the Research Pro	oposal forwarded by you in respect of Shri/Smt/Kum , I am directed to inform you that the ne University and the Committee has recommended
research grant as quoted above to the resear	noter. bursed in two instalments. The first instalment of 50% and within 15 days on receiving undertaking and RTGS.
released on the submission of utilizations of pricinal on or before 31" March, 2017	nd 50% amount initially from his/her own resources to 1% balance amount, out of sanctioned grant will be tion certificate including bills/vouchers/receipts in failing of which the advance amount granted will be
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before 31st March, 2017 and submit of	the researcher will have to utilize the sanctioned amount original bills/vouchers of the expenditure along with uly certified by the Principal /Director /Head /Institute A.P.D. Section, after verification through the Accounts (umbai - 400 032).
The report of the research work of	carried out by the concerned researcher will have to be
submitted to the University on or before	ii ⁴⁴ July, 2017.
accordingly and arrange to forwar	nstitute are requested to inform the researchered his/her undertaking along with RTGS Form orclease first instalment of the research grant

Yours faithfully,

FOR RECESTRAD



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

NAME OF THE RESEARCH	University of Mumbai Research Project No: 502 ER: Da Saylee M. Gharge
AMOUNT SANCTIONED: R	12 6 1 8 6 GM
	Ref No. APD/237/429 of 2017

To,
The Principal.
Wivehanand Edu socis Inst of Technology
Collector Colony.
Chembur.
Mumbai-400074.

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum

Dr. Saylee M. Crhange, I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS Form (copy enclosed) from the researcher.

The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original on or before 31st March, 2017 failing of which the advance amount granted will be recovered from researcher which please note.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2017 and submit original bills vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai – 400 032.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July, 2017.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly.

Yours faithfully,

EOTREGISTRAR



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

NAME OF THE RESEARCH	ERACHANDAN CHANGE	to: SDO
AMOUNT SANCTIONED: R.	SEM -	
		of 2017 anuary, 2017
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Sir Madam, With reference to the Said proposal has been come research grant as quoted above	Research Proposal forwarded by you in responded to the University and the Committee to the researcher.	sect of Shri Smt/Kum inform you that the ee has recommended
research grant as quyees need	to out The f	irst instalment of 50%
The sanctioned amount wi	nt will be disbursed in two instalments. The full be disbursed within 15 days on receiving use researches.	ndertaking and RTGS

Form (copy enclosed) from the researcher, The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original on or before 31" March, 2017 failing of which the advance amount granted will be

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The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form accordingly to enable this office to release first instalment of the research grant, accordingly.

FOR REGISTRAR



Institute of Technology

1	
and the same of	University of Mumbai
	NAME OF THE RESEARCHER: Mis. Tyell A Bayate LECTURE IN ETC. AMOUNT SANCTIONED: Rs. 40001-
2	Ref No. APD/237/ of 2017 January, 2017
	To. The Principal, Inst of Technology Chember. Mumbai
	Sir/Madam,
	With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.
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	The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July, 2017.
	The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly.
	Yours faithfully,



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

University of Mumbai

Research Project No: 505

LECTURE IN Electronic & Tele Communication

Ref No. APD/237/ 429 of 2017

To.
The Principal,
Wirekanand Edu- Soci,
Inst- of Technology,
Chembur,
Mymboi- 400074.

Sir/Madam.

The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS Form (copy enclosed) from the researcher.

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Yours faithfully

EOF REGISTRAR



Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Index

Sr.No. Content		
1.	General Information	
2.	Project details	
3.	Paper published in International conference and IJRISE	
4.	Utilization Certificate	
5.	Expenditure details	
6.	Bills(Components, Conference, travelling)	





Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Part A: General Information:

1.	Basic Subject area of Research	Wireless Networks
2.	Title of the Proposed Project	Video Streaming with Multipath TCP and Enhanced Security
3.	Name Qualification and Designation of the Principal Investigator/Co-Investigator	Dr. Ranjan Bala Jain. PhD Professor Department of EXTC V.E.S.I.T Chembur Mumbai
4.	Teaching and Research Experience of the Investigator	18 Years
5.	Name and address of the Institution where the proposal will be executed	Vivekanand Education Society's Institute Of Technology Collector colony, Chembur, Mumbai-74
6.	Whether the college /University is approved by the University	Yes
7.	Details of Facilities provided/to be made available at the college/university	Computing Facilities Internet Facility for Testing
8.	Have you ever applied for Minor Research Project? If yes give Details	No
9.	Whether the project or part of project is approved by the University for the Doctoral Degrees If yes, give details	No
10.	Details of the Research project and Research Funding major/Minor received in the past and/ongoing projects.	None





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1.1 Project Title:

Video Streaming with Multipath TCP and Enhanced Security

1.2 Introduction:

Internet is the system of interconnected computer networks used to exchange data across the globe. There are multiple redundant paths available between any two devices on the internet. However, the internet still works on the Internet Protocol Suite (TCP/IP) which is strictly single path. The redundant paths are then used only when the primary path fails or congestion occurs. Devices and servers, today, are largely multi-homed (a single device has multiple interfaces available, to connect to the internet). For example, a laptop at least has three interfaces namely, Wi-Fi, USB Dongle and a wired Ethernet port. However, TCP is capable of using only one of these interfaces at a time hindering the optimal use of available resources. It uses a single IP address per device. TCP connection can not move from one IP address to another. One has to switch the TCP connection from one interface like Ethernet to Wi-Fi depending upon the requirement.

Video streaming is a very common use of the internet nowadays. Use of video streaming ranges from live matches and events to business conferences. But more important is, medical emergencies in Tele health care, where speed is vital. This is where TCP fails, because it still relies on a single path. Secondly, Exchange of sensitive data over the internet has increased over the last decade thus, making security a major concern for the users.

To solve the problem of switching, idea of Multipath TCP is proposed [1]. It uses all the available interfaces simultaneously to connect to the internet. In this, a single file which is to be transmitted, is divided into small segments and transmitted via multiple paths and rearranged at the receiver. This is possible because each interface is allocated different IP address. This improves the speed of transmission due to usage of all available paths. Individual encryption and decryption techniques used on different paths makes information more secure.

1.3 Objectives:

Speed and Security are the two most important performance parameters of the internet. The project aims at implementing a Multipath TCP connection that **enhances speed and security of the session**. Specifically, we propose an algorithm to distribute the load on different paths depending upon their capacity. We call this algorithm as **Weighted Load Distribution**.





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1.4 Methodology:

The video streaming over multipath TCP works on two layers, Application layer and Transport layer.

- 1) Application layer: This layer handles video capture, encoding and display.
- a) Video streaming: This tayer nandes video capacity of the project works on the application layer. The first step towards implementation is to take input from a web cam or raspi cam and encoding the same. Usually, a compressed form of the video signal is preferred for transmission over wireless networks.
- b) Video Decode & display: The transmitted video is decoded before being displayed. The output video is expected to be displayed without loosing original quality.
- 2) Transport Layer: The Multipath transmission and encryption are handled by transport layer.
- a) Establishment of multipaths: Multipath TCP is an extension of regular TCP which enables a transport connection to simultaneously operate across multiple paths. This starts with setting up a TCP connection and extending it to different interfaces.
- b) Video Segmentation and Encryption: Next, the captured video is segmented in to various sizes depending upon the capacity of available paths. The paths chosen are wired Ethernet, 3G path and Wi-Fi. The different encryption techniques are used on different paths. At the receiver, the received segments are decrypted and rearranged to form the original data sequence.

The video streaming over wireless networks using multipath TCP will be implemented in Raspberry pi and Multi Path TCP protocol in Linux kernel. Figure 1 shows the block diagram of multi path TCP protocol implementation.

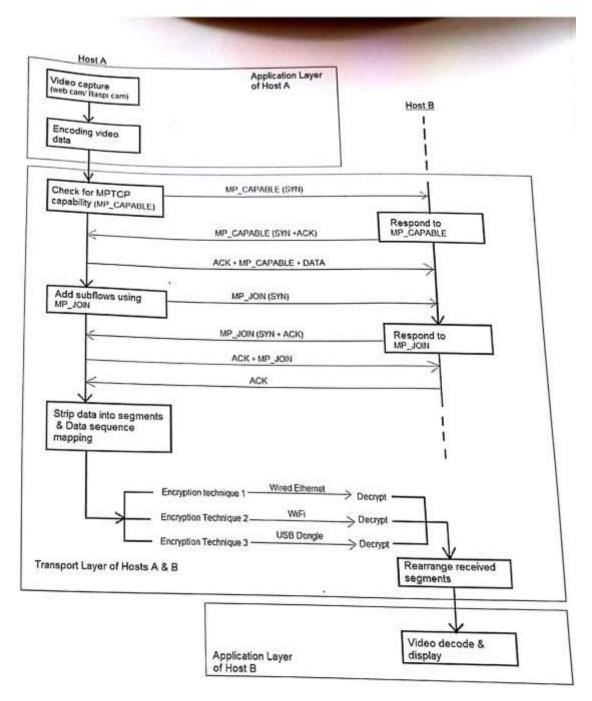
In Figure 1 sender and receiver are represented by host A and B. Before segmentation, the multipath capability of other end receiver is checked by MP_CAPABLE command. If receiver has desired capability, it responds by sending ACK_CAPABLE. After this handshaking, multipaths like 3G, Wi-Fi route and Ethernet cable are added using MP_JOIN command. The existence of multipaths is indicated by presence of multiple addresses by host. After adding all paths, segmentation and encryption of video are performed and transmitted via multipaths. The speed increase is achieved due to aggregation of bandwidth of all paths. Segmentation depends upon the capacity of all multipaths. The decryption and rearrangement of data takes place at the transport layer of host B. Finally decoding and display are done at the application layer of host B.

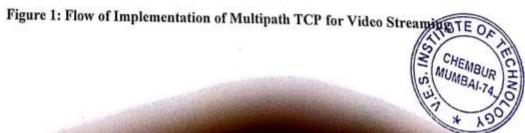
Thus a secure and faster data transmission can be achieved via weighted load distribution multipath TCP protocol. Once the data transmission is over, multipath connections are opened up for new connection establishment.





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1.5 Transport Layer And MPTCP Sub-Flows

MPTCP is an extension to existing TCP protocol at transport layer. Multipath TCP modifies TCP so that it presents a standard TCP interface to applications, while in fact spreading data across several sub-flows.

This layer provides host -to-host communication needed as per the application. It is responsible for the delivery of the complete message to the receiver. It provides services such as connection-oriented data stream support, reliability, flow control, error control, congestion avoidance and multiplexing. In addition to the gains in throughput from inverse multiplexing, links may be added or dropped as the user moves in or out of coverage without disrupting the end-to-find TCP connection. Figure 2 shows TCP sub-flows involved in an MPTCP connection. For example, consider a mobile device connected to the internet through both mobile data as well as Wi-Fi connection. In a TCP session, only one of the two connections is active at a time. If the mobile user moves out of the Wi-Fi coverage area, the session is disrupted until another TCP session is set up through mobile data. However, in the case of MPTCP, the session is rescued by the mobile data.

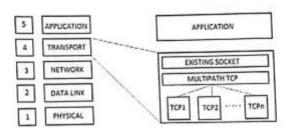


Figure 2: MPTCP in Transport Layer of TCP/IP model

This is because; the data operates as a backup along with the primary Wi-Fi connection. The problem of link handover is thus solved by abstraction in the transport layer without any special mechanisms at the network or link level.

1.6 MPTCP Connection Establishment

An MPTCP connection is essentially built on a TCP connection. The idea is to setup a basic TCP connection, using three-way handshaking, and to add sub-flows to the existing TCP connection to extend it to multiple paths.

A.ESTABLISING A TCP CONNECTION

The three-way handshaking signals, as shown in Figure 6, are sequential. The server is passive open, i.e. it is open to accept a connection initiated by a client. The client (active open) extends a

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TCP connection request with a packet, SYN flag high. This ensures that if an ACK is received from the server, in response to the SYN, there can be a flow of data traffic from the client to the server.

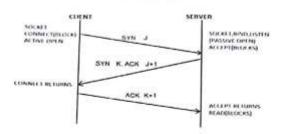


Figure 3: TCP Three Way Handshaking

The server also must issue a similar SYN connection to the client to ensure a bidirectional flow of traffic. Hence the server piggybacks its own SYN signal on the ACK response for the received SYN. Thus, the second handshaking signal includes an ACK and an SYN. Further, the client must reply to the received SYN signal with an acknowledgment. But, with the exchange of SYN and ACK between client and server, data can be sent from the client to the server. Hence the last packet carries data from the client to the server and carries the final ACK flag with it. Figure 6 illustrates how an MPTCP connection is setup

B.EXTENDING A TCP CONNECTION TO MPTCP

The two important signals included for MPTCP connection are MP_CAPABLE and MP_JOIN. Figures 4.1, 4.2, 4.3 explain how MP_CAPABLE, MP_JOIN, and ADD_ADDR signals are exchanged between the client and the server.

MP_CAPABLE is the signal that ensures if the server is capable of simultaneous multiple TCP connections. Similarly, there should be an MP_CAPABLE signal from the server to the client. Once both the parties have ensured the capability to make multiple connections, the next signal used is MP_JOIN. MP_JOIN is used to add sub-flows to set up multiple paths, over an existing TCP connection. ADD_ADDR is then used to add the potential addresses of sub-flows. [9] Figure 1 illustrates the complete MPTCP connection between two hosts A and B.





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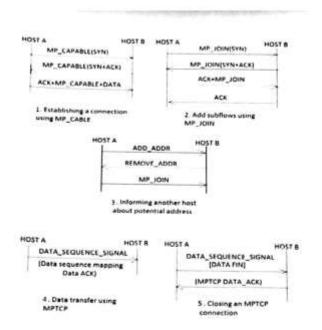


Figure 4: MPTCP Handshaking and Data Transfer

1.7 Security With MPTCP

Providing security of data transmission and prevention of data sniffing is one of the applications of Multipath TCP and also the main aspect of this paper, but this brings its own set of threats. The fundamental goal is the security of MPTCP, to be "no worse" than regular TCP today, and the key security requirements are:

To ensure that the hosts involved in a sub-flow handshake are the same as during the original connection set-up.

To ensure that a host can accept data at a new address before using it as a part of a connection To make sure that a request to add/remove a sub-flow is 'fresh'.

The project aims at creating a secure MPTCP connection. First the numbers of interfaces are checked at both the client and server. The smaller of the two is chosen for number of sub-flows in the MPTCP connection. At the server end, the data is broken down into smaller segments. Suppose there are two interfaces over which the transmission is taking place, these two interfaces use same encryption techniques but different keys. Data which is broken down into segments is randomly sent over these two paths having different encryption keys. The data segments are received, decrypted and rearranged at the client side.





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In TCP, only one path exists and only one encryption key is used. Once the key is known data segments can be sniffed and decrypted easily. In MPTCP using two encryption keys and sending the data in a random order, makes it much more difficult to decrypt the data. Since the segments are not contiguous, even if one sub- flow is hacked, the packets sniffed will contain random segments. This will make decryption of the data more difficult.

1.8 Results

This project focuses on enhancing the speed and security of an MPTCP session. An MPTCP session with two sub-flows, between two hosts was implemented. Advanced Encryption Standard (AES) encryption technique with two different keys on two different sub-flows was used. Execution time for MPTCP includes set-up time of all sub-flows, transmission time of the file segments and decryption and rearrangement of the segments at the receiver end. The execution times recorded during transmission of files of different sizes are shown in Table 1.

Table 1: Execution time for transmission of different files with TCP and MPTCP

	File size = 200 MB	File Size = 10 MB	File size = 1 MB
Execution Time for TCP (Sec)	421	20	2
Execution time for MPTCP (Sec)	315	16	2

For a TCP session, the execution time includes setup time of only one flow, transmission time of the entire file and decryption of the received data at receiver. In MPTCP

however, the excess time required to setup multiple sub-flows is compensated by the faster transmission of data as segments are transmitted simultaneously on all sub-flows. This is observed as the file size increases. For a smaller file size, the overhead of setup time defeats the purpose of MPTCP as it is much greater than the transmission time itself. However, for a larger file size, the transmission time is much greater than the setup time. Thus, only a fraction of the time saved in simultaneous transmission of segments is used in setup time of multiple sub-flows. However, this setup time is in the order of milliseconds and cannot be practically measured in the simulation.

Also, this implementation uses different keys on each sub-flow in an attempt to increase security of the session. It also implements randomization of data segments to ensure that even if one of the sub-flows is hacked, the hacker does not get access to a contiguous data segment but only random bits that are difficult to put together.





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Use of multipath TCP in video streaming helps to bridge the gap between remote rural areas and more advanced urban areas. MPTCP allows simultaneous use of multiple paths (interfaces) thus making the connection more robust. It offers flexibility to an application, when multiple connection options are available. Benefits of this include, a better resource utilisation, better throughput and less failures. The implementation of MPTCP is performed with two sub-flows for various file sizes. It is observed that, as the file size increases, implementation of MPTCP session gives better throughput. This is because the setup time remains constant irrespective of the file size. But the time gained in simultaneous transmission of data segments increases with file size. On each sub-flow encryption is performed with a different key. Thus, different keys on each sub-flow provide enhanced security.

The implementation of multipath TCP will not only increase the speed but also provide security. It will benefit the society as follows:

- Rural communities and citizens will be benefited by Tele-healthcare systems based on multipath TCP.
- Educational institutes will be able to impart quality education with multipath TCP based content delivery. Live lectures from IIT can be displayed at remote areas.
- It is said the with 10% increase in high speed content delivery, economic growth increases by 1.3%. This will strengthen Digital India programme.

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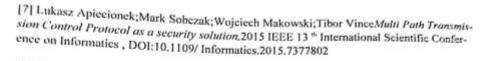
[6] How Hard Can It Be? Designing and Implementing a Deployable Multipath TCP Costin Raiciu, Christoph Paasch, Sebastien Barre, Alan Ford, Michio Honda, Fabien Duchene, Olivier Bonaventure and Mark Handley Universitatea Politehnica Bucuresti, Universite Catholique de Louvain Keio University, University College London

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Note: On this work a paper is presented in International Conference on Emaanations in Modern Technology & Engineering March 4th -5th 2017, organised by Shri L. R. Tiwari College of Engineering, Mira Road Maharashtra.

Title: Solution for Speed and Security Multipath Transmission Control Protocol.

Paper is enclosed for reference





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UTILIZATION CERTIFICATE

Certified that the sanctioned grant of Rs. 25,000/- (Rupees Twenty Five Thousand only) and received amount of first installment of Rs. 12,500/- (Rupees Twelve Thousand Five Hundred only) from the University of Mumbai, under the scheme of support for Minor Research Project entitled "VIDEO STREAMING WITH MULTIPATH TCP and ENHANCED SECURITY" by Dr. Ranjan Bala Jain has been fully untitled for the purpose for which it has sanctioned and in accordance with the terms and conditions laid down by the University.

Project No. 418
University Letter No. APD/237 OF Jan 2017

Principal Investigator

C.P.I.

Principal

Date: 29th March 2017

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*Internal		
NAME OF THE RESEARCHER A	ty of Mumbai Research Project No:	4118
AMOUNT SANCTIONED: Rs. 25 (10)		
	Ref No. APD/237/ Jan	of 2017 nuary, 2017

To.
The Principal.
Vivehanand 2dn. bois
histotic of Technology
Chember.
Mumber: 400074

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum

I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS form (copy enclosed) from the researcher.

The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in or before 31" March, 2017 failing of which the advance amount granted will be recovered from researcher which please note.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31" March, 2017 and submit original bills/vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai – 400 032.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July, 2017.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly.

Yours faithfully,

For REGISTRAR



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MINOR RESEARCH PROJECT

Title: "VIDEO STREAMING WITH MULTIPATH TCP and ENHANCED SECURITY"

EXPENDITURE

Sr. No.	BIII No.	Date of Bill	Particular/Purpose		
1.	Royal Electronics	11/01/2017	No. of the second	Amount (Rs.)	
2.	01/16-17/06 Royal Electronics		Arduino, Wi-FI, Zig bee and GSM modules	3074/-	
	02/16-17/03	6/02/2017	GPS Module, Raspberry-pi and Pulse sensor	5035/-	
3.	Royal Electronics 03/16-17/05	10/03/2017	Sensors: Ultrasonic,	699.60/-	
4.	Royal Electronics 03/16-17/09	16/03/2017	Temperature, Gas, DST11 Breadboard, LD 33, ESP01,	678.40/-	
5.	Royal Electronics 03/16-17/26	28/03/2017	I/O board Ethernet Cable, holders, Connectors, 4G LTE, Raspberry starter kit, EHD	12514/-	
5.	1173 (Receipt no.) (On line payment) N0471702478821 16	4/3/2017	International conference (International Journal Of Research in Science and Engineering) Topic: Solution for speed and security: Multipath TCP	3000/-	
	Uber	4/3/2017	Travelling	668.16/-	
			Total	25669.16	

Principal Investigator

Principal

Date: 29th March 2017

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To, The Principal,	
Vivekanand Educations HAMC Collectors Chembur 400 07	ion Society's colony,
Sir/Madam, With reference to the Rese Dr. Musica Crivi	arch Proposal forwarded by you in respect of Shri/Smt/Kum , I am directed to inform you that the d by the University and the Committee has recommended
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Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2017 and submit original bills/vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai – 400 032.

original on or before 31" March, 2017 failing of which the advance amount granted will be

recovered from researcher which please note,

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31* July, 2017.

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	University of Mumbai
	Paganah Project No. 4463
	NAME OF THE RESEARCHER: Mrs. Lifty C.S.
	AMOUNT SANCTIONED: Rs. 2-3, 000
	Ref No. APD/237/ of 2017
	January, 2017
	To,
	The Principal,
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	1- 1111-1014
	Sir/Madam,
	With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum
	Light C-S-, I am directed to inform you that the
	said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.
	The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS
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	submitted to the University on or before 31" July, 2017.
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	accordingly.
	Yours faithfully,
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University of Mumbai Research Project No: NAME OF THE RESEARCHER: Mas. Ja AMOUNT SANCTIONED: Re. 2 Ref No. APD/237/ of 2017 January, 2017 Sir/Madam, With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kurn Jayas se Ramachushnen I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher. The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS Form (copy enclosed) from the researcher, The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including hills/vouchers/receipts in original on or before 31" March, 2017 failing of which the advance amount granted will be recovered from researcher which please note. Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2017 and submit original bills/vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai - 400 032. The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31" July, 2017. The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly. Yours faithfully, OF REGISTRAR

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भारतीय अन्तरिक्ष अनुसंधान संगठन अन्तरिक्ष विभाग भारत सरकार अन्तरिक्ष भवन

न्यू बी ई एल रोड, बॅगलूर - 560 231. भारत दरभाष : +91 80 2341 5474

Gener

Dr. S. Seetha Programme Director, SSPO इसरो डिग्ड

Indian Space Research Organisation

Department of Space Government of India Antariksh Bhavan

New BEL Road, Bangalore - 560 231, India Telphone: +91 80 2341 5474

Fax

Telephone: 080-23416271/22172074 Fax: 080 – 23419190 E-mail: seetha@isro.gov.in

August 8, 2016

ISRO/SSPO/MOM-AO/2016-17

Dear Mr. Abhijit Sharad Shete,

Subject: Research proposal under Mars Orbiter Mission – Announcement of opportunity – release of fund - reg.

This has reference to your submission of the research proposal "Martian landform segmentation based on structural similarity" for funding under Mars Orbiter Mission Announcement of Opportunity (MOM-AO). The domain experts in Department of Space have reviewed the proposal. I wish to inform you that, Chairman, ISRO/Secretary, DOS has approved the following:

- Funding of the project under MOM-AO for a period of 3 years at a total outlay of ₹ 3,08,000 (Rupees Three Lakhs Eight Thousand Twenty only) towards meeting the expenditure of the project (budget details enclosed).
- Release of grant of ₹ 1,10,000 (Rupees One Lakh Ten thousand only) towards meeting the first year expenditure of the project.

The approval is subject to fulfillment of the following:

- (a) You will have to submit Annual Progress Report (APR), at the end of the year, indicating the progress of the work accomplished during the first year (to enable renewal of the project for second year). One copy of report should be sent to Shri Satadru Bhattacharya, MOM-AO Coordinator, Planetary Sciences Division, BPSG/EPSA, Space Applications Centre, Jodhpur-Tekra, Ambawadi Vistar P.O.Ahmedabad-380 015, India and two copies to the undersigned.
- (b) You will have to submit two copies of the Fund Utilization Certificate (FUC) and Audited Accounts Statement (AAS) on completion of the first year of the project (to enable renewal of the project for second year). The FUC and AAS should be sent to the (i) Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru 560 231 with a copy to Shri Satadru Bhattacharya, MOM-AO Coordinator, Planetary Sciences Division, BPSG/EPSA, Space Applications Centre, Jodhpur-Tekra, Ambawadi Vistar P.O, Ahmedabad-380 015, and to the undersigned.
- (c) In addition, on conclusion of the project, you will have to send a comprehensive report covering total project activities and final fund utilization certificate.



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भारत सरकार

अन्तरिक्ष विभाग

अन्तरिक्ष भवन, न्यू बी ई एल रोड बेंगलूर - 560 231. भारत दूरभाव : 080 - 2217 2253/2217 2255 फैक्स : 080 - 2341 6770

GOVERNMENT OF INDIA DEPARTMENT OF SPACE

Antariksh Bhavan, New BEL Road Bangalore - 560 231, India. Telephone :080 - 2217 2253 / 2217 2255 Grams: Space Fax: 080 - 2341 6770

Date:06/10/2016

No. DOS/PAO/GIA/2016-2017/18/344

Principal. VES Institute of Technology, Collectors Colony Road, Chembur, Mumbai

Sir

Sub :- Credit of Rs. 1,10,000/- to your A/c No. 0229201006042 through EFT on 01/10/2016, vide Bank UTR No. SBIN616275163777, SSO

With reference to Departments Sanction Order No. B. 19013/9/2016-Sec.2 dated 10/08/2016 the grant amount of Rs. 1,10,000/- (Rupees One lakh Ten Thousand Only) has been credited to A/c No. 0229201006042 of Canara Bank of India, Chembur Sindhi Society branch, on 01/10/2016 to meet grant for the project entitled "Martian landform segmentation based on structural similarity" during $1^{\rm st}$ year of the project.

You are requested to acknowledge immediately through FAX/e-mall followed by post. Please ignore if already acknowledged.

FAX:

080 - 2341 6770

e-mail:

pr.aospace@isro.gov.in

You are further requested to submit Audited Statement of Accounts (Receipts & Payments) together with Fund Utilisation Certificate (format enclosed) within 12 months of the closure of the Financial year of support to the undersigned to close the advance payment in our Books of Account.

Thanking you,

Encl: FUC format.

Yours sincerely.

(Subrat Bose) Pay & Accounts Officer

Copy to:- 1. The Programme Director, SSO, ISRO Hq., Bengaluru.

2. Shri. Abhljit Shete, Assistant Profesesor, VES institute of Technology, Collectors Colony Road, Chembur, Mumbai.



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No.B. 19013/9/2016-Sec. 2 Government of India Department of Space

> Antariksh Bhavan, New BEL Road, Bengaluru - 560 231.

> > AugustIO, 2016

Principal, VES Institute of Technology, Collectors Colony Road, Chembur, Mumbal.

Sir.

Sub: Grant-in-aid - Space Science Promotion - Release of grant for the project entitled "Martian landform segmentation based on structural similarity" - reg.

I am directed to convey the sanction of the President to a grant of ₹1,10,000/- (Rupees One lakh and ten thousand only) to meet the expenditure towards the project entitled "Martian landform segmentation based on structural similarity" (total project cost of ₹3.08 lakhs for a period of 3 years) by VES Institute of Technology during first year of the project.

- The amount of ₹1,10,000/- (Rupees One takh and ten thousand only) will be paid to you by the Pay & Accounts Officer, Department of Space, Antariksh Bhavan, New BEL Road, Bengaluru - 560 231 on receipt of the bill.
- The grant-in-aid sanctioned shall be subject to the terms and conditions mentioned in the Annexure enclosed.
- A separate account for the grant-in-aid sanctioned will have to be maintained which are subject to the scrutiny by the Indian Audit and Accounts Department who will also have the right of access to the Book of Accounts.
- Accounts of expenses incurred out of grant should be prepared, maintained and authenticated by approved auditors. The final accounts statement in duplicate duly audited should be sent to the Pay & Accounts Officer, Department of Space, Bengaluru-560 231 at the end of each financial year of support.

...2/-



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-2-

 The expenditure involved is debitable to "Head:3402.00.103.20.00.31- Space Resarch- Space Sciences-Space Science Promotion- GIA-General" Under Grant No.84, "Department of Space" for the FY 2016-17.

ours faithfully

(Poofnima M) Sr.Accounts Officer

Copy for information and necessary action to:

- 1. The Scientific Secretary, ISRO, Bengaluru
- 2. The Programme Director, SSO, ISRO Hq., Bengaluru
- 3. The Principal Director of Audit, Scientific Departments, DGACR Building, IP Estate, New Delhi
- The Director of Audit, Office of the Principal Director of Audit, Scientific Departments, Antariksh Bhavan, New BEL Road, Bengaluru - 560 231
- 5. Chief Controller of Accounts, DOS, Bengaluru
- 6. Senior Accounts Officer, ISRO Hq., Bengaluru
- The Pay & Accounts Officer, Department of Space, Bengaluru With a request to make the payment of ₹1,10,000/- (Rupees One takh and ten thousand only) in favour of "The Principal, VES Institute of Technology, Mumbai" on receipt of the bill
- 8. The Senior Head (Internal Audit), DOS, Bengaluru
- Shri. Abhijit Sharad Shete, Assistant Professor, VES Institute of Technology, Collectors Colony Road, Chembur, Mumbai.

(Poornima M) Sr.Accounts Officer



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Government of India-Department of Space

(13)

Terms and conditions of ISRO Research Grants

- The approved funds should be utilised solely for the purposes for which they have been granted unless ISRO
 agrees otherwise. A certification that the funds have been so used should be produced by the grantee
 institution after the end of each year of the support.
- Due acknowledgement to ISRO should be made in all reports and publications arising out of the part of the work supported by ISRO. The grantee will take prior permission of ISRO before publishing any work based on the ISRO supported project.
- Two copies of all the publications resulting from the research conducted with the aid of the grant should be submitted to ISRO.
- 4 No invastigator receiving a grant from ISRO may make commercial use of the results of his work by patent or otherwise. ISRO reserves the exclusive right to determine whether any patent shall be taken out and what commercial use, if any, shall be made of any result of the investigations. The patents shall be in the name of ISRO and ISRO shall retain exclusive rights to commercially exploit them. The shares, if any, of the royalty to the investigator, the parent institution and ISRO, will be determined by ISRO.
- 5. The Principal Investigator is required to submit two copies of yearly reports indicating the progress of the work accomplished. He is also required to submit two copies of a detailed technical report on the results of the research/development after the completion of the project. The reports will become the property of ISRO.
- In addition, ISRO may designate scientists/specialists to visit the Institution periodically, for reviewing the progress of the work.
- 7. An inventory of items purchased from ISRO funds should be sent to ISRO, giving the description of equipment, cost in rupees, date of purchase and name of the supplier along with a purchase certificate from the Administration of the Institution. All items of equipment and unconsumable items costing more than Rs.5,000/shall remain the property of ISRO and ISRO reserves the right to transfer them or dispose of them on the termination of the project as ISRO may deem fit.
- 8. The accounts of the expenses incurred out of ISRO funds should be properly maintained and should be authenticated by an approved auditor. The final accounts statement in duplicate duty audited should be sent to the Pay & Accounts Officer, DOS/Senior Accounts Officer, ISRO Headquarters, as the case may be, at the end of each financial year of support.
- 9. If the total amount senctioned is not spent during the period of support, the remainder amount should be surrendered to the Pay & Accounts Officer, DOS/Senior Accounts Officer, ISRO Headquarters, as the case may be, within one month after the completion of the project.
- 10. The assets acquired wholly or substantially out of the ISRO grant should not, without its prior sanction, be disposed off, encumbered or utilised for purposes other than that for which the grant is sanctioned.
- A register of Assets, permanent and semi-permanent, should be maintained by the grantee institution, which should be available for scrutiny by Audit.
- 12. The grantee institution should not divert the grants-in-aid for utilisation of the same for similar objects of another institution if it is not in a position to execute or complete the assignment. The anire amount of the grant should then be immediately refunded to ISRO by the institution.
- 13 The terms and conditions of ISRO research grants are subject to change from time to time, but the funding of any project will be governed by the terms and conditions existing on the date of starting of the project with ISRO funds.



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Lifna C S <lifna.cs@ves.ac.in>

Fwd: Welcome to the Al for Earth Community

1 message

Priya R L riya.rl@ves.ac.in>
To: Lifna C S <ifna.cs@ves.ac.in>, Sharmila Sengupta <sharmila.sengupta@ves.ac.in>

Sat. Nov 2, 2019 at 10:04 AM

Mrs. Priya R. L Assistant Professor Department of Computer Engineering VES Institute of Technology Chembur, Mumbai.

Form: Al for Earth Grant Support <ai4ehelp@microsoft.com>
Date: Sat, Nov 2, 2019 at 3:45 AM
Subject: Welcome to the Al for Earth Community
To: priya.rk@ves.ac.in priya.rk@ves.ac.in>



Dear Priya R.L.

Congratulations, and welcome to the AI for Earth community! We are excited to share that your application for the project titled "Predictive analysis of carbon footprint in metropolitan cities of India." has been selected for an AI for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$10000 USD, to be utilized within one year.

By accepting this award, you agree to the following terms:

- You will submit a mid-term report and a final report according to AI for Earth guidelines
- Microsoft may use materials (or summaries of those materials) that you submit as part of the application, mid-term report, and final report for public communications, including Microsoft websites (including use of your organization's trademarks and logos)
- · Microsoft may contact you and your team members for additional information on your project

Please accept this award by November 7, 5pm PST through this link. We will respond on November 8th with next steps to access your sponsored Azure credits and education resources.



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Lifna C S <lifna.cs@ves.ac.in>

Fwd: Welcome to the AI for Earth Community

2 messages

Abha Tewari <abha.tewari@ves.ac.in> To: Lifna C S <lifna.cs@ves.ac.in> Cc: Nupur Giri <nupur.giri@ves.ac.in> Tue, Nov 5, 2019 at 9:37 AM

Hello mam Please find attached "Al for Earth" report

From:Al for Earth Grant Support <ai4ehelp@microsoft.com>
Date: Sat, 2 Nov 2019, 06:56
Subject: Welcome to the Al for Earth Community

To: 2017.varad.kshemkalyani@ves.ac.in <2017.varad.kshemkalyani@ves.ac.in>

cid:image001.png@01D590D6.93A087B0

Dear Varad Kshemkalyani,

Congratulations, and welcome to the AI for Earth community! We are excited to share that your application for the project titled "Predicting floods in coastal regions as a direct consequence of deforestation" has been selected for an AI for Earth Microsoft Azure Compute Grant. Through this award, you will receive a sponsored Microsoft Azure account. We are granting you credits for Azure consumption up to \$10000 USD, to be utilized within one year.

By accepting this award, you agree to the following terms:

- · You will submit a mid-term report and a final report according to AI for Earth guidelines
- Microsoft may use materials (or summaries of those materials) that you submit as part of the application, mid-term report, and final report for public communications, including Microsoft websites (including use of your organization's trademarks and logos)
- Microsoft may contact you and your team members for additional information on your project

Please accept this award by November 7, 5pm PST through this link. We will respond on November 8th with next steps to access your sponsored Azure credits and education resources.

Bonnie Lei

All for Earth Project Manager

Environmental Sustainability

Microsoft respects your privacy. Review our ordere Privacy Statement

Microsoft Corporation

One Microsoft Way