

AFO/C4D/2016/ 77
14 March 2016

Dr. Biren Das
Registrar, Tezpur University
Tezpur University
Napaam, Tezpur
Sonitpur - 784172

| | |
|-----------------|--------------------|
| Serial No. | 4728 |
| Date of Receipt | 22.04.2016 |
| File No. | |
| Received by | <i>[Signature]</i> |

Dear Dr. Das,

C4D Partnership with Tezpur University (Cultural studies department): Using Folklore for Community messaging: Adolescents as agents for Change and Empowerment (15 March 2016 to 31 December 2016)

With reference to your letter dated 10 March 2016 regarding 'Project Proposal for Using Folklore for Community messaging: Adolescents as Agents for Social Change and Empowerment (2nd phase)', Cultural Studies department, we are happy to confirm our support.

In this regard, we have reviewed the budget submitted by you and confirm our support to a maximum of Rs. 4,375,500/- (annex- budget sheet)

| S. No. | Particulars | 15 Mar- May 2016 | June- Aug 2016 | Sep-Nov 2016 | Dec 2016 |
|---------------------|--|-----------------------|-------------------|-----------------|-------------|
| 1. | 'Project Proposal for Using Folklore for Community messaging: Adolescents as Agents for Social Change and Empowerment' (2 nd phase) | 924,500 | 1,178,000 | 2,111,000 | 1,62,000 |
| TOTAL BUDGET | | Rs 4,375,500/- | | | |

We would request you to kindly let us have the duly completed FACE form to enable us to release the approved budget for the same. On completion of the activities we would request you to kindly let us have the duly completed FACE form, Statement of Expenditure (SoE) with list of participants, as well as report which would enable us to liquidate this amount.

As part of our standard operating procedure, we need to undertake the financial assessment of Implementing Partners. In this regard, UNICEF operation and finance team may visit your office on periodic basis, upon mutually convenient dates, and review the financial processes and systems with your accounts and finance staff.

Please take note of the following requirements with regard to management of funds released by UNICEF.

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 - Statement of Expenditure (SOE) duly signed and stamped by the concerned official in UNICEF prescribed format.
 - Funding Authorization and Certification of Expenditure (FACE) form should be completed and submitted along with the Statement of Expenditure (SOE).

Please note that as per financial rules, UNICEF cannot release any further funds to recipients with accounts outstanding for more than six months.

M. Das.
For n/a UNICEF 4/2016

**APPROVAL NOTIFICATION OF APN ACTIVITIES
 UNDER COLLABORATIVE REGIONAL RESEARCH PROGRAMME (CRRP)**

1 June 2016

Project Leader: Dr. Manish Kumar
 Project Reference: CRRP2016-06MY Kumar
 Project Title: Development of New Water Supply Strategies in Two Watersheds of India and Sri Lanka in the context of Climate Change, Rapid Urbanization and Population Growth: A Vulnerability Assessment Approach
 Project Award: US\$ 42,000 (Year 1); US\$ 33,000 (Year 2)

Dear Dr. Manish Kumar,

Following the announcement of the Call for Proposals, I would like to congratulate you again on being approved to receive funding from the APN under CRRP. I am writing to request some immediate information so that we may draw up your Contract as soon as possible, and to give you a brief overview of the APN funding, reporting and administrative procedures to ensure you are not met with any surprises during the year.

Please note that the official **Project Reference Number** for your approved project is quoted above. Please quote this reference number in all communications with the APN Secretariat

I would also like you to note that the present award is a **conditional award, with the condition(s) that:**

1. **Grant:** The Project Leader and the Authorized Representative of the Grantee (see page 2 point 6) acknowledge and accept in writing in advance of signing the APN Contract that only 80% of the grant can be advanced for the entire duration of the project activities (in this case for 3 years). The remaining grant of up to 20% can only be remitted to the Grantee after all reporting requirements are completed.
2. **Acknowledgment:** The APN is to be duly acknowledged in all relevant publications produced as a result of the activities undertaken in the project. Note the full name of the APN is *Asia-Pacific Network for Global Change Research*.
3. **Website Linkages:** A link is to be established between the APN and the main website for the project. The APN's logo should also be displayed on this website
4. The Project Leader regularly updates the project profile on the APN website.

In order to begin the administrative preparations that will allow us to draw up your Contract, we would like to request that you submit **electronic copies** of the following documents by emailing Dr. Linda Stevenson

l Stevenson@apn-gcr.org by Friday, 17th June 2016. Ensure that all emails are also carbon copied to Ms. Dyota Condorini (dcondorini@apn-gcr.org) and Ms. Huong Long Dinh (hdinh@apn-gcr.org).

1. **Acceptance letter from the Project Leader and Authorised Representative of Grantee.** An official letter, with institutions letterhead, signed by both Project Leader and Authorised Representative of the grantee, expressing acceptance of the award and the conditions mentioned above, and includes detail of the contribution (both in cash and in kind).
2. **Written Confirmation of Institution/Organization Involvement and Details of Co-funding:** An official letter (with official letterhead), signed by collaborators, from collaborating institutions are to be submitted to the APN Secretariat with details of the involvement and co-financing costs, including all aspects of in-kind contributions, of other organizations.
3. **A detailed timeline presented year-by-year (and broken down month-by-month) for your project with dates and locations of main workshops and project-related meetings.** Note that, as Contract procedures can take up to two months to finalize, it would be in your best interest to begin the project no earlier than mid-July 2016.
4. **An updated budget estimate up to a maximum of US\$ 42,000 for Year 1 and US\$ 33,000 for Year 2, complete with a fully detailed breakdown of the costs.** The final budget is subject to standard negotiations between you as the Project Leader and the APN Secretariat following the submission of your revised budget. Note that the updated budget must not exceed the maximum amount of the award stated in the present notification and should be in line with the present financial regulation (attached for your reference).
5. **A clean copy of your fully updated proposal incorporating the responses from reviewers, including the coversheet, quoting the project title and new reference number above and incorporating parts 3 to 4 above.** The most recent proposal submitted to us is attached in PDF format to facilitate this request.
6. **Details of who will sign as Authorized Representative of the Grantee:** You will be required to sign the contract as Project Leader, but someone else is required to sign on behalf of your organization. For example, this might be the Director of your institute or someone from the Sponsored Projects Office of your University. Please supply their name, title and contact details.

Regarding the general APN accounting and administrative procedures, it is important that you are aware at this early stage of some of the requirements the APN is held to by its sponsors. The project and reporting requirements are listed below for your information.

1. *A Progress Report (appropriate for multi-year projects not in their final year) to be submitted each year of the project.*
2. *Financial Report (appropriate for each year of the project and detailing expenditure according to the financial regulations of the APN) to be submitted each year of the project.*
3. *Final Technical Report (after the completion of the project).*



4. *Featured article of the project (after completion of the project).*

Regarding the timeline for your project, you will have the full period from the date the APN Secretariat Director signs the Contract to complete your project activities. However, a financial statement and fully detailed financial report MUST be submitted to APN **within 30 days after the end of the first year (and second and third where applicable)** in accordance with APN Financial Regulation. Further information on contents of and deadlines for the above-mentioned reports will be provided in the Contract that you will sign.

Please note that if you have any problems and/or concerns about the contents of this award letter or any concerns about your project in the future, these should be addressed to me, Dr. Linda Stevenson l Stevenson@apn-gcr.org with carbon copy to Ms. Dyota Condorini (dcondorini@apn-gcr.org) of the APN Secretariat.

We appreciate your prompt reply to our request for updated project information, and we look forward to learning about the results of your project in due course. Please note that until we get the information requested in this letter we cannot draw up your Contract and so cannot make any project payments to you.

Sincerely,

Dr. Linda Anne Stevenson
Head of Communication and Scientific Affairs Division
APN Secretariat



13 September 2017

To:

Dr. Biren Das

Registrar, Tezpur University

Subject: No Objection Letter for Transfer of the project reference number CRRP2016-06MY-Kumar from Tezpur University to IIT Gandhinagar

Dear Dr. Biren Das,

This letter is to confirm that APN has been informed of the new position of Dr. Manish Kumar, project leader of the project "Development of New Water Supply Strategies in Two Watersheds of India and Sri Lanka in the context of Climate Change, Rapid Urbanization and Population Growth: A Vulnerability Assessment Approach (reference number: CRRP2016-06MY-Kumar), in Indian Institute of Technology Gandhinagar (IIT Gandhinagar).

Dr. Kumar has expressed his willingness to continue to serve as the project leader of the said project in his new institution. Asia Pacific Network for Global Change Research (APN) has no objection regarding to transferring the project granteeship from Tezpur University to IIT Gandhinagar.

The change of the granteeship of the project shall not affect the project requirement to comply with APN regulations, including the complete reporting requirements.

Please feel free to contact us should you require any further information.

Sincerely,

Seiji Tsutsui

Director, APN Secretariat

Serial No. 5476
 Date of Receipt 16.09.2016
 File No.
 Received by

United Nations Children's Fund
 Office for Assam
 House No 27
 Basisthapur Bypass No 3
 Beltola Road
 Guwahati - 781 028

Phone + 91 0361 2235151
 + 91 0361 2235153
 Fax + 91 0361 2235161

Office of the Registrar

Receipt 3231
 Date 15/9/16
 Received by

AFO/PME/2016/225
 13th September 2016

Dr Biren Das, Registrar
 Tezpur University
 Napaam, Tezpur, Assam

*Disposal with PS Dr. Das and
 requested to submit his fee
 proposal for issuance of
 registration no.
 16/9/2016*

Dear Dr Das,

Approval of the proposal for documentation of "case studies on GPDP" and "Social Protection schemes in Assam"

This is with reference to your letter No. F.TU/SOC/UNICEF/114 dated 9th September 2016 forwarding a proposal outlining the activities to be undertaken by Tezpur University for documentation of "case studies on GPDP" and "Social Protection schemes in Assam".

Based on the proposal, we confirm our support up to a maximum of Rs.1,344,500/- as follows:

| Items | Quantity | Unit cost | Total budget |
|---|----------|-----------|----------------|
| Documentation of Case studies on GPDP | | | |
| Honorarium of Principal Investigator (@ Rs. 30,000 per month) for three months | 3 | 30,000 | 90,000 |
| Honorarium of one Research Consultant (@ Rs. 30,000 per month) for three months | 3 | 30,000 | 90,000 |
| Moderators for field work (2 moderators for 2 months) @ Rs. 25000 per month (with photography) | 2 | 50,000 | 100,000 |
| Monthly salary for one Data Transcriber | 2 | 20,000 | 40,000 |
| Lodging and food cost during field visit (covering 20 Panchayats in upper Assam, Lower Assam and Barak Velly and Tezpur University) - tentatively 25 days per person 2000 per day (on actual) | 40 | 2,500 | 100,000 |
| Hiring cost of Dicta-phones for audio recordings | 20 | 850 | 17,000 |
| 3 times airfare for Research Consultant (Delhi-Guwahati-Delhi) @ Rs. 6500 per sector including terminal (cost for travelling from home to airport and airport to home) - (on actual) | 6 | 11,000 | 66,000 |
| Travel cost for field visit (on actual) by the research team (team to travel by train, hired taxi and other local transport as required). Travel will include, travel to Guwahati from Tezpur university, University to field, etc. | 25 | 3,000 | 75,000 |
| Photocopy, stationery, training and translations | 3 | 3,000 | 9,000 |
| Designing of document (print to ready document to be submitted) - lump sum | 1 | 30,000 | 30,000 |
| Sub - Total | | | 617,000 |
| Documentation of Social Protection Schemes for Tea Garden Workers in Assam | | | |
| Honorarium of Principal Investigator (@ Rs. 30,000 per month) for three months | 3 | 30,000 | 90,000 |

| | | | |
|---|----|--------|------------------|
| Retainer of one Research Consultant (@ Rs. 25,000 per month) for three months | 3 | | |
| Moderators for field work (3 moderators for 2 months) @ Rs. 25000 per month | 2 | 30,000 | 90,000 |
| Monthly salary for one Data Transcriber | 2 | 75,000 | 150,000 |
| Accommodation and food cost during field visit (covering 20 gardens in upper Assam, Lower Assam) - tentatively 45 days for two persons | 45 | 20,000 | 40,000 |
| Printing cost of Dicta-phones for audio recordings | | 2,500 | 112,500 |
| 12 times airfare for Research Consultant (Delhi/Jaipur-Guwahati-Delhi/Jaipur) @ Rs. 8000 per sector including terminal (cost for travelling from home to airport and airport to home) | 20 | 850 | 17,000 |
| Travel cost for field visit (on actual) by the research team (team to travel by train, hired taxi and other local transport as required). Travel will include, travel to Guwahati from Tezpur university, University to field, etc. | 4 | 16,000 | 64,000 |
| Photocopy, stationery, training and translations | 50 | 2,500 | 125,000 |
| Designing of document (print to ready document to be submitted) - lump sum | 3 | 3,000 | 9,000 |
| | 1 | 30,000 | 30,000 |
| Sub-Total | | | 727,500 |
| Total | | | 1,344,500 |

Rs. Thirteen lakhs forty-four thousand five hundred

We would request you to please let us have the FACE Form duly completed to enable us to reimburse the actual amount after completion of the activities.

Please take note of the following requirements with regard to management of funds released by UNICEF.

1. Funds should be utilized only for the purpose for which they are released as per approved budget.
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3. If your department is not in a position to utilize UNICEF's cash assistance within a period of 6 months from the date of release of funds, the unutilized cash assistance should be refunded to UNICEF in the form of a cheque payable to UNICEF.

4. Unutilized funds cannot be retained by you or spent for any other activity without prior written approval of UNICEF.

5. Please note that deviation in any budget line items should not exceed 10%. Deviations beyond that, if any, should be agreed in writing by UNICEF prior to expenditure and provided that total approved budget is not exceeded.

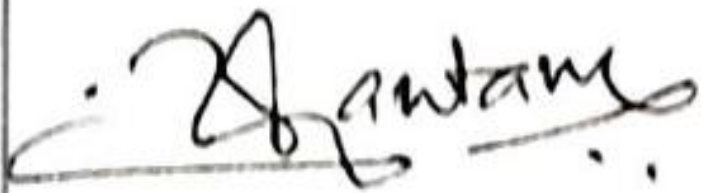
6. A brief report on the activities and list of participants (trainings) should be submitted.

unicef 

Please be informed that our financial regulations require that all relevant vouchers be stamped "PAID CHARGED TO UNICEF ACCOUNT" and are retained in your files for four years.

We would like to inform you that periodic on-site reviews in the form of spot-checks of the cash will be conducted by UNICEF staff and they may be conducted and documented on a routine basis. This will involve review of books of accounts, vouchers, bills and other related financial documents. Monitoring visits will also be conducted from time to time during the implementation of the activities by Programme Officers from UNICEF and a monitoring findings report will be submitted to UNICEF by the visiting officers.

Yours sincerely,



Vedprakash Gautam
Office-in-Charge,
UNICEF, Office for Assam

CC: Dr Amiya Das, Department of Sociology, Tezpur University

Serial No. 5476
 Date of Receipt 16.09.2016
 File No.
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Phone + 91 0361 2235151
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AFO/PME/2016/225
 13th September 2016

Dr Biren Das, Registrar
 Tezpur University
 Napaam, Tezpur, Assam

Demanded for marks
PO
Discontinued with 16/9/16
Accountant to submit his fee
proposal for issuance of
Registration no.
16/9/2016

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| Hiring cost of Dicta-phones for audio recordings | 20 | 850 | 17,000 |
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4. Unutilized funds cannot be retained by you or spent for any other activity without prior written approval of UNICEF.
5. Please note that deviation in any budget line items should not exceed 10%. Deviations beyond that, if any, should be agreed in writing by UNICEF prior to expenditure and provided that total approved budget is not exceeded.
6. A brief report on the activities and list of participants (trainings) should be submitted.

AFO/C4D/2017/ 28
27 February 2017

Prof. S.K. Dolui
Dean, Research and Development (i/c)
Tezpur University
Napaam, Tezpur
Sonitpur – 784172

Dear Prof. Dolui

C4D Partnership with Tezpur University: Advancing Communication For development (C4D) as a strategy for Social Change in Assam and North East Region, Phase II (1st March - 31st Dec 2017)

With reference to your letter dated 21st Feb 2017 regarding 'Proposal for Advancing Communication For development (C4D) as a strategy for Social Change in Assam and North East Region, Phase II (coordinated by Prof Joya Chravarty, Associate Prof, MCJ, Department under the Supervision of Prof Abhijit Bora HoD, MCJ, Department), we are happy to confirm our support technical support to the project as well as the requested financial support on re-imburement basis.

In this regard, we have reviewed the budget submitted by you and confirm our support to a maximum of Rs 21, 31,000 /-. (Annex- budget sheet)

| MAR-MAY 2017 | JUN-AUG 2017 | SEP-NOV 2017 | DEC 2017 |
|--------------|-------------------------|--------------|-------------|
| 1st tranche | 2nd tranche | 3rd tranche | 4th tranche |
| 14,88,000 | 2,56,000 | 3,22,000 | 65,000 |
| Total | Rs. 21,31,000.00 | | |

We would request you to kindly let us have the duly completed FACE form to enable us to process the approved budget for the same. On completion of the activities we would request you to kindly let us have the duly completed FACE form, Statement of Expenditure (SoE) with list of participants, as well as report which would enable us to reimburse and liquidate this amount.

As part of our standard operating procedure, we need to undertake the financial assessment of Implementing Partners. In this regard, UNICEF operation and finance team may visit your office on periodic basis, upon mutually convenient dates, and review the financial processes and systems with your accounts and finance staff.

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Please note that as per financial rules, UNICEF cannot release any further funds to recipients with accounts outstanding for more than six months.

3. If your department/organisation is not in a position to utilize UNICEF's cash assistance within a period of five months from the date of release of funds, the unutilized cash assistance should be refunded to UNICEF in the form of cheque payable to 'UNICEF'
4. Unutilized fund can't be retained by you or spent for any other activity without prior written approval of UNICEF.
5. Please note that deviation in any budget line item should not exceed 10%. Deviation, beyond that, if any, should be agreed in writing by UNICEF prior to expenditure and provided that the total approved budget is not exceeded.
6. A brief report on the activities and list of participants (trainings) is desirable.

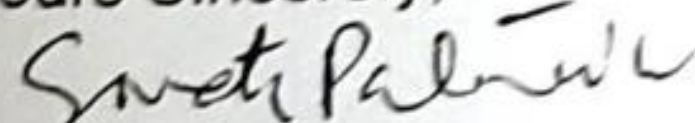
Please be informed that our financial regulations require that all relevant vouchers be stamped 'PAID – CHARGED TO UNICEF ACCOUNT' and are retained in your files for four years.

UNICEF Assam Office's operation and finance team may visit your office on periodic basis for on-site reviews in the form of 'spot checks' of the cash assistance. This will involve review of books of accounts, vouchers, bills and other related financial documents. Monitoring visits will also be conducted time to time during the implementation of the activities by Programme officers from UNICEF and a **Programme monitoring report** will be submitted to UNICEF by the visiting officers.

Looking forward to a fruitful partnership to take ahead the agenda of Social and Behavior Change Communication (SBCC) in the state.

With best regards,

Yours Sincerely,


Sweta Patnaik

Officer Incharge

Cc: Ms Joya Chravarty, Assistant Prof, MCJ, Department
 Dr. Biren Das, Registrar, Tezpur University

Encl: Detailed Budget

Project title
Community based bioenergy research

11

Funded by: University of Nottingham

Duration: 1 year

Total amount sanctioned: £31,500

Background:

India is recognized as one of fastest growing economies of the world; however, basic energy needs of thousands of millions of its citizens are yet to be fulfilled. However, there is a serious energy supply-demand imbalance in the country. Growing energy demand coupled with limited conventional fuel options and environmental concern has compelled India to search for renewable and sustainable energy options. This proposal builds on the concept of developing a new community-scale energy solution for the production, management and utilisation of locally-produced bioenergy focusing on one of the poorest regions of India – Assam in the northeast.

Bioenergy technologies offer potential community solutions through the use of anaerobic digestion (AD) technologies offering piped biogas for clean cooking, heating and lighting. Biogas offers clean fuel to improve health and welfare conditions and improves household economies through diminished use of liquefied petroleum gas (LPG) and firewood. In this project we seek to increase livelihood earnings from AD through (1) the use of solar PV to enhance thermal stability of the digesters and maximise gas yield and (2) designing a low cost, small-scale mechanism for bottling the biogas. This will improve the prosperity and welfare of the disadvantaged and marginalised off-grid households. Our aim is to identify locally-acceptable and environmentally sustainable solutions that will enhance clean energy access and lead directly to economic and welfare benefits for individuals and households, promoting economic and social development of the participating villages. This proposal seeks to focus on adding economic value to community bioenergy systems using additional technologies such as solar PV to maintain thermal environment and bottling systems to offer value-added income generation opportunities.

Objectives

The proposed project aims to deliver the decentralize energy at household level with the strength of locally available bio-wastes and thus address the major issues viz, energy, employment and economy. We will test anaerobic digesters within a real community setting to understand how different community stakeholders work together to ensure equitable benefits to all stakeholders. We seek to establish whether excess production of clean energy from anaerobic digestion systems can be bottled to deliver a cheap, affordable and safe added-value product to improve livelihood incomes. We will engage with off-grid, rural communities to combine low cost solar PV systems to existing biogas digesters and develop a method of pressuring biogas into LPG containers for sale and use off site. We will run user group training and feedback meetings throughout the project to maximise benefit of the energy services and ensure all groups of community. The project will integrate the locally available unused biomass resources, use them efficiently, provide energy services, and improve the livelihood through capacity building.

21

"Michele Clarke" <Michele.Clarke@nottingham.ac.uk>
Biogas related invoices
Wed, March 15, 2017 2:12 pm
"baruahd@tezu.ernet.in" <baruahd@tezu.ernet.in>

To: Dean
For NIA
December
16/3/17

Dear, R&D: Could you please
do needful as suggested by VC

Through

Dean R&D

15/03/17

discussed I need two separate invoices from you as follows:

15317
(D. C. Baruah)

the attached GCRF project which you can use to demonstrate to your Dean the value of the
operation under project "Optimising clean community biogas energy systems for poverty alleviation in
India" please can you send me a formal invoice for £16500 for research costs and consumables (solar
maintenance of thermal environment & biogas bottling systems and associated consumables).

grant award closes at the end of this month & I have not managed to spend all of the travel costs but
between headings so the 16500 is the consumables plus some travel]

the HEFCE Newton Fund Project "Bioenergy from waste: exploring the multiplier benefits to poor
communities of medium-scale technology interventions" I was awarded £15,000 (not the full amount I
was awarded for).

you please therefore send me a separate invoice for £15,000 for the installation of medium
biogas systems in Jhawani village

I hope that with funds from both of these projects we can install a number of separate digesters in
villages as well as complete the digestate management/vermicompost units so that we can progress our
work there and give them some energy access. I am still keen on bottling as the research component
I appreciate it is very much research at the small-scale, so if we can progress that too it would be
helpful since otherwise it is hard to see how we can make a community scale system work!

I need to receive the invoices in the coming few days as the projects end at the end of this month.

While I hope you and your family are having a happy Holi

Vice Chancellor, TU : Permission is

H&D, Energy

Requested to forward to VC, TU

requested to obtain a total fund
of £ 31,500/- from Prof M. Clarke,
my research collaborator from
University of Nottingham, UK
to carry out the community
based Bio-energy research
activities as per set
programme (enclosed)

Michele Clarke PhD, FHEA, FRGS, FGS, MRSC
Pro Vice Chancellor (Global Engagement) Asia-Pacific
School of Environmental Change
Geography
University of Nottingham
Park
NG7 2RD, UK
0115 951 5446
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michele.clarke@nottingham.ac.uk

Forwarded
15/03/17

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D.C. Baruah
(D. C. Baruah)
Professor, Dept of Energy
15-3-17



Newton Fund Extension Award

(Please attach original submission statement to this form)

PI: Professor Michèle Clarke
Name: Professor Michèle Clarke

School: Geography

Position: Associate Pro Vice Chancellor & Professor of Environmental Change

Title of Newton Fund application:

Bioenergy from waste: exploring the multiplier benefits to poor communities of medium-scale technology interventions

This project translates learning and impact from two existing funded Newton Fund projects of which I am PI and one of which I am co-I:

- (1) Newton Bhabha ES/P000517/1 SMART ciTIES Network for Sustainable Urban Futures
- (2) Newton BB/02914X/1, Implication of enhanced ecological intensification and resilience in the eastern Amazonia region
- (3) Newton EPSRC-DOST EP/P018513/1 Water - Energy - Nutrient Nexus in the Cities of the Future

Collaborating partners (name, position, Institution)

Professor DC Baruah, Dean, Centre for Energy, Tezpur University
 Professor P Mahanta, Dean, Dept Mechanical Energy, IIT Guwahati
 Dr Hema Ramakrishnan, Professor, Madras School of Economics
 Dr Helen West, School of Biosciences, University of Nottingham

Proposal for allocation of Additional funding;

India remains a stratified country where the poorest citizens lack access to energy services. This proposal builds on existing projects to develop a new community-scale solution for the production, management and utilisation of locally-produced bioenergy focused on one of the poorest regions of India - Assam in the northeast. Funds are requested for consumables to enable the construction and installation of two community-scale biodigesters in an off-grid location with the purpose of generating sustainable energy. The location chosen is off-grid and holds feedstocks sufficient for the generation of sustainable energy yet to date no systems exist and Indian government schemes operate only at household level. This project seeks to deliver and test in a co-produced manner an up-scaled locally generated solution which offers the advantages of an affordable and sustainable system which, if successful, could be replicated across the region. Community engagement and contribution includes donation of the land to support the project and the setting up of a village steering group and management team. Researchers from partner organisations have to date surveyed bioenergy feedstocks and engaged in social survey to develop an economic model for sustainable generation of locally produced energy services.

What are the key activities that the funding will support?

We seek funding to establish and test at scale digesters within a real community setting (and one living in poverty) to understand and measure the multiplier benefits of such interventions on individual socioeconomic wellbeing. If funded digester construction works will start immediately and testing and community engagement will continue throughout 2017 to understand how different community stakeholders work together to ensure equitable benefits to all stakeholders. Despite Indian government energy schemes spanning decades, impacts have been limited because the needs and behaviours of communities have been ignored. We will run user group training and feedback meetings throughout the project to maximise benefit of the energy services and ensure all groups, including women and the disadvantaged benefit from the project.

Travel funds are not requested as travel is provided by the existing Newton Bhabha SMARTIES

Research and Graduate Services
University of Nottingham
 King's Meadow Campus, Lenton Lane, Nottingham, NG7 2NR.



project

What are the key outputs which the additional funding will enable?

- access to clean, reliable & available biogas for a range of energy services (cooking, lighting, heating)
- transformation of unused wastes to valuable assets
- health benefits for women and children of clean cooking fuel
- a better understanding of how communities respond to and engage with energy interventions
- training and upskilling local stakeholders in the benefits of waste to energy systems

Do you plan to bring additional partners on to the project – if so, please provide, name, position and address of proposed additional collaborator (must be an eligible Newton Fund partner country/Institution)

**Allocation of Funding;
Travel Planned flights (dates & costs)**

Subsistence

Please briefly indicate whether any other awards (internal or external) related to the outcomes of the project have been awarded.

Research related costs (consumables etc.)

£19,500 consumables for the installation of two 40m³ biodigesters (made locally in India with concrete, brick and fibreglass) including gas distribution and monitoring & feedstock mixer system. These systems to be installed on community donated land

Support of seminar or dissemination activity;

£500 User Group Training & Dissemination activities

Is there any financial contribution from the collaborating institution?

Head of School Support

Name of Head of School

Giles Foody

Statement of Support

This project builds on the foundations of earlier work to develop a new community-scale solution for the generation, management and use of locally-produced bioenergy in one of the poorest regions of India. This is a very worthy and topical research proposal from researchers with an excellent track record. The work fits closely to the School's newly launched research strategy and has the School's full support.

Signature

G. foody

Date

3 Feb 2017

Application Sign-off



The University of
Nottingham

2

UNITED KINGDOM · CHINA · MALAYSIA

I understand that if awarded funding I will be required to write a brief report to account for expenditure and summarising the outcomes of the project.

I confirm that the funding applied for will be spent in accordance with Newton fund and ODA specifications.

Name and signature of the PI

Professor Michèle Clarke 

Date:

3 February 2017

Submission:

Please submit your application to maeve.fitzpatrick@nottingham.ac.uk

To Project Registration No: DORD / Bioenergy fr

From: Michele Clarke <Michele.Clarke@nottingham.ac>
Subject: Bioenergy from waste project
Date: Mon, July 8, 2019 3:16 pm
To: "baruahd@tezu.ernet.in" <baruahd@tezu.ernet.in>

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Serial No... ~~88~~ 833 ...
Date of Receipt 11/7/2019...
File No... Deah, R1D ...
Benefits to poor communities of

Sub: HEFCE Newton fund Project: Bioenergy from waste: exploring the multiple benefits to poor communities of medium scale technology innovations

Dear Prof. DC Baruah,

Thank you for your update on the current progress of the project "Community-based Bioenergy Research"

Work completed so far:

- Feedstock analysis, demand for feedstock for cooking energy, Biogas supply
- Demonstration and pilot scale production of vermi-compost and mushroom from digested slurry
- Active engagement of the community through workshops on Improved farming techniques (Lemon farming from Organic farming, Pisciculture)

Work to be completed:

Understand that a party for installation of AD plant is shortlisted. However, installation is delayed due to flooding and some other local issues beyond your control.

In this regard, I am pleased to grant a no-cost extension period of 12 months for the project to complete the remaining activities

With best wishes

Michele

Professor Michèle Clarke PhD. FHEA, FRGS, FGS, MRSC
University of Nottingham ODA Research Champion
Professor of Environmental Change
School of Geography
University of Nottingham
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Copy for Dean, R&D

DCB
(D. C. Baruah)
8/7/19

Please file &
do needful

DCB
10.7.19
i/c

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