



DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology



UK Research
and Innovation

India-UK Tackling AMR in the Environment from Antimicrobial Manufacturing Waste - Overview of the call, aims and objectives and timetable

16 May 2019



Programme Summary

- Funders: DBT (India) and NERC behalf UKRI (UK)
- NERC is managing the call on behalf of all funding partners
- NERC will pay the UK researcher costs and DBT will be pay the respective Indian costs
- Collaborative India and UK research proposals
- Up to £3.8M (80% FEC) UK and equivalent research effort India
- Project size and number of projects – TBC
- UK three year funding, project start June 2020



Programme Aim and Outcomes

- *Aim: to support new research to inform the development of strategies to limit environmental contamination by antimicrobial waste from pharmaceutical manufacturing, with the ultimate aim to contribute to global efforts to contain antimicrobial resistant infections of humans and animals*
- Outcomes include, but not limited to:
 - Contribution to assessment of risk human and animal health
 - Development of environmental standards for safe discharge of antimicrobials in pharmaceutical effluent.



Research Challenges

- Understanding of the extent of environmental antimicrobial pollution from antimicrobial manufacturing waste (wastewater, solid waste and air) and its pathways through environmental systems in various parts of India.
- Development and validation of globally relevant standardised methods and tools for detection of active antimicrobial residues in industrial effluents and receiving environments.
- Determining the health risks presented by antimicrobial manufacturing waste, through examining antibiotic-resistance in humans and livestock in proximity to the antibacterial manufacturing industry, their interactions with the environment (particularly use of water systems, including wastewater channels) and antibiotic use.



Proposal requirements – UK

- *Strongly encouraged to read the call document*
- Applicants encouraged to confirm eligibility before submission
- UK investigators involved in no more than two proposals and one as PI
- Joint collaborative Indian and UK independent, bilateral research projects
- Lead nominated PI contact person India and UK
- Focus of field research in Indian environment - contribute to the global policy / industry supply chains
- UK - budget attendance key personnel at one programme meeting a year
- No studentships on UK component
- UK – 3 year grants starting June 2020



Application Process – UK

- *Closing date is to be confirmed*
- NERC expects a joint UK-Indian proposal to be submitted through the Research Councils' Joint Electronic Submission System (Je-S)
- UK applicant should list the Indian collaborators as Project Partners on Je-S form
- Successful grants will have UK costs paid through Je-s and Indian costs through DBTs system
- All attachments should conform to the submission rules detailed in the call
- Full details of the requirements will be in call document



Application Process - UK

- Application is likely to consist of the standard requirement including:
 - Je-S proforma
 - Case for Support: 1) Track record, Description of Proposed Research
 - UK costs – common Justification of Resources for UK costs
 - Indian component – Non-UK component
 - Pathways to Impact
 - Outline Data Management Plan – ensuring data is open access
 - Letters of Support
 - CVs each named PI, Co-I, research staff post and Visiting Researcher
 - NERC Facilities technical assessment form
 - Ethics consideration requirement



Assessment Process

- This is to be discussed and agreed amongst funders
- Anticipated:
 - Proposals internationally peer-reviewed (Indian and UK experts)
 - Final funding decisions made by Funders taking into account the recommendations made by expert panel of independent experts (Indian and UK)
 - Research Excellence will likely be the main criteria
 - Feedback provided to all applicants following the full assessment of proposals
- The funded projects will address the aim and challenges of the programme as set out in the call



Timetable

- 15 & 16 May 2019 – Networking workshop
- July 2019 – Call for proposals issued
- October 2019 – Closing date for applications
- October – December 2019 – Peer review assessment
- January 2020 – Expert Panel meeting
- January / February 2020 – Funding decision made
- June 2020 – Projects start

|| WHO CAN PARTICIPATE FROM DBTS' PERSPECTIVE ||

- Any legal entity/ organization established in India with expertise in relevant and distinct disciplines.
- It is expected that each investigator shall have **adequate service tenure** to accommodate key research, coordination, outreach, post completion handholding (if any) responsibilities.
- Participation of Indian business partner and/or an Indian urban or other local government body...**encouraged**
- The number of project partners should be optimum and correspond to the objectives of the project. Each project should clearly demonstrate the partner's essentiality, complementarities, and added value in jointly addressing the topic

|| Who are eligible to participate ||

- Government of India supported or recognised (Public or Private) academia; research organisations and urban or other local bodies;
- Government of India recognised not-for-profit, NGO(s)/ VO(s)/ Trust(s)/ Research foundations, having research as one of the imperative mandates;
- Indian Industry can be a partner in the consortium and are eligible for funding subject to fulfilment of DBT's technical, administrative and financial norms

**Be careful about
fulfilment of DBT's
documentary
requirements**

Proof of

- Establishment
- MoA
- PFMS
- NGO DARPAN
- SIRO
- Aud. Account
- Ann. Report

|| FUNDING FROM DBT ||

i. DBT will support (Grant-in-aid) 100% of the approved budget costs to the academia subject to obligatory fulfilment of eligibility criteria:

ii. Grant-in-aid to Industry:

- DBT's support to Industry shall not exceed 50% of the total cost (up to maximum of Rs. 1.5 Crore) proposed by the Industry participant, 50% of the contribution shall mandatorily come from the Industry.
- The cost breakup for the DBT component of the proposal shall be: Capital and Manpower costs each not exceeding 30% of the DBT supported project cost; and balance will cover consumables and travel costs. (Contingency & overhead costs will not be permissible)

II Non allowable cost from DBT ||

- i. Regulatory Approval fee;
- ii. Civil Construction fee;
- iii. Insurance Coverage;
- iv. Prosecution/litigation costs;
- v. Salary of investigators;
- vi. Capital expenditure for the purchase of assets such as office furniture, motor vehicles, Office equipments viz. desktops, laptops, scanners, printers, photocopy machines, and renovation or extension of facilities such as buildings and laboratories;
- vii. Expenditure toward rental and utilities;
- viii. International travel to countries other than UK

Provide Investigator wise realistic & explicit justification for the budgetary requirements

Equipment(s)
Manpower
Consumables
Travel
a. Domestic
b. International
c. Local hospitality for visiting counterpart investigator(s) and/or project staff(s) in India
Contingency
Overheads
Outsourcing
Other (Provide details).....

II REGULATORY/ STATUTORY CONSIDERATION II

- a) Use of endangered fauna and/or flora and/or protected areas: [-- YES/NO--]
- b) Transfer of biological material(s): [-- YES/NO --]
- c) Use of radioactive materials: [-- YES/NO --]
- d) Use of elements that may cause harm to the environment, to humans (including research staff), to animals or plants: [-- YES/NO--]
- e) Use of Hazardous Microorganisms and/or Genetically Engineered Organisms: [-- YES/NO --]
- f) Field trials or testing: [-- YES/NO--]
- g) Pre-clinical and/ or Clinical trials or testing: [-- YES/NO--]
- h) Ethical considerations: [-- YES/NO --]
- i) Considerations related to Intellectual Property Rights (IPR): [-- YES/NO --]
- j) Collection and/or processing of new and/or previously collected personal data: [-- YES/NO --]

CPCB/IBSC/RCGM/IAEC/IEC/NBA/IC-SCR/CTRI/ etc.

Objectives, Work packages, Task Assigned must have significant interdependency for each participating organization of UK and INDIA

Extent to which the consortium as a whole brings together the necessary expertise and appropriateness of the allocation of tasks

It is essential that the project participants make a thorough analysis of the project strengths, essentiality of collaboration, weaknesses, opportunities and threats, prior to submitting proposal.

Infographic(s) which can showcase the project hypothesis and outcome in an illustrative manner

Ensure to maintain proper documentations and inventory throughout the lifecycle of the project

Be cautious about maintaining timelines in submitting documents to funding agency from time to time

So communicate, communicate and



Thank you
Any Questions?
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Application Process – Indian component

- Indian PI and collaborators listed in Je-S as Project Partner
- Approximate value listed in-kind support section proposal
- Additional attachments:
 - Letters of Support – as collaborator is listed as Project Partner in the Je-S form and should submit dummy letter of support
 - CVs for each of named collaborators (combined and submitted as non-UK component)
 - DBT budget form submitted as ‘non-UK component’