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**No.19-17/2017-RE**  
**Government of India**  
**Ministry of Environment, Forest & Climate Change**  
**(Research in Environment Division)**

5<sup>th</sup> Floor, Vayu Block,  
 Indira Paryavaran Bhawan,  
 Jor Bagh Road, New Delhi – 110 002

the 11<sup>th</sup> March, 2019

**OFFICE MEMORANDUM**

**Subject: Constitution of Technical & Financial Appraisal Committee (TFAC) on the R&D Scheme, RE Division, MoEF&CC – regarding.**

The Ministry of Environment, Forest & Climate Change (MoEF&CC) hereby constitutes the Technical and Financial Appraisal Committee (TFAC) on the Research & Development (R&D) Scheme of the Research in Environment (RE) Division of the MoEF&CC with the following composition:

| Sl. No. | Composition of the Committee  | Status                     | Thematic area                        | Address  |
|---------|---|----------------------------|--------------------------------------|--|
| i.      | Prof. C. R. Babu (Retd.), Prof Emeritus and former Pro-VC, University of Delhi  | Chairperson (non-official) | Ecology, Natural Resource Management | Centre for Environmental Management of Degraded Ecosystems, School of Environmental Studies, University of Delhi, Delhi – 110 007<br>Email ID: crb26@hotmail.com             |
| ii.     | Dr. M. Dwarakanath (Serving), Senior Scientific Officer, Department of Environment, Govt. of Delhi  | Member                     | Environmental Sciences               | Department of Environment, 6 <sup>th</sup> Level, C-Wing, Delhi Secretariat, New Delhi 110 002<br>Email ID: dwaraka98@gmail.com  |
| iii.    | Dr. Ramakant (Serving), Deputy Adviser (PHE), Central Public Health & Environmental Engineering Organisation (CPHEEO), M/o Housing and Urban Affairs, Gol | Member                     | Solid Wastes                         | Central Public Health & Environmental Engineering Organisation (CPHEEO) M/o Housing and Urban Affairs, Gol, Nirman Bhawan, New Delhi 110 011<br>Email ID: dr.ramakant@nic.in |
| iv.     | Dr. S. A. Hussain (Serving), Scientist G (Professor) &  | Member                     | Wildlife                             | Wildlife Institute of India, PO Box No. 18, Dehradun – 248 001<br>Email ID: hussain@wii.gov.in   |

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|-------|--|---------------------|-----------------------------|---|
|       | Head, Department of Landscape Level Planning and Management, Wildlife Institute of India, Dehradun   |                     |                             |   |
| v.    | Representative of Director (Serving), Indian Institute of Remote Sensing (IIRS), Dehradun  | Member (Ex-officio) | Remote Sensing              | Indian Institute of Remote Sensing (IIRS), 4, Kalidas Road, Dehradun 248 001  |
| vi.   | Representative of Director (Serving), G. B. Pant National Institute of Himalayan Environment and Sustainable Development, Almora, Uttarakhand                                      | Member (Ex-officio) | Natural Resource Management | G. B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora, Uttarakhand 263 643  |
| vii.  | Representative of Director (Serving), Indian Institute of Forest Management (IIFM), Bhopal   | Member (Ex-officio) | Forestry                    | Indian Institute of Forest Management (IIFM), Bhopal, Madhya Pradesh 462003   |
| viii. | Director or his/her representative (Serving), Integrated Coastal and Marine Area Management Project Directorate, (an attached office of M/o Earth Sciences), Pallikaranai, Chennai | Member (Ex-officio) | Coastal & Marine Ecology    | Integrated Coastal and Marine Area Management Project Directorate (ICMAM PD), 2 <sup>nd</sup> Floor, NIOT Campus, Velacherry-Tambaram Main Road, Pallikaranai, Chennai 600 100, Tamilnadu |
| ix.   | Shri Y. P. Yadav, (Serving), Scientist-E, Central Pollution Control Board, Delhi   | Member              | Water Pollution             | Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032<br>Email ID: <a href="mailto:ypvadav.cpcb@nic.in">ypvadav.cpcb@nic.in</a>                             |
| x.    | Shri G. Rambabu (Serving), Scientist - C, WM-1, Central Pollution Control Board, Delhi   | Member              | Hazardous Wastes            | Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032<br>Email ID: <a href="mailto:grbabu.cpcb@nic.in">grbabu.cpcb@nic.in</a>                               |
| xi.   | Representative of Director (Serving), National Centre for Sustainable Coastal  | Member (Ex-officio) | Coastal & Marine            | National Centre For Sustainable Coastal Management, Ministry of Environment, Forest and Climate   |

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|       | Management (NCSCM), Chennai  |                     | Environment & Ecology                  | Change (MoEF &CC), Anna University Campus, Chennai - 600025, TN  |
| xii.  | Representative of Director (Serving), Indian Meteorological Department, M/o Earth Sciences, GoI, New Delhi | Member (Ex-officio) | Air Pollution Dispersion & Meteorology | Indian Meteorological Department, M/o Earth Sciences, GoI, Mausam Bhawan, Lodi Road, New Delhi - 110 003 |
| xiii. | Advisor (RE)   | Member Secretary    |  | MoEF&CC  |

2. The Term of Reference (ToR) of the Technical and Financial Appraisal Committee (TFAC) of the R&D Scheme Shall be as under:

- i. Preliminary screening of proposals will be done in-house and complete proposals will be placed before the Technical & Financial Appraisal Committee (TFAC) for appraisal and recommendation to the Steering Committee;
- ii. To determine whether the proposals fall under the identified Thematic areas of RE & NNRMS in the Ministry;
- iii. To determine (i) overall competence of the Principal Investigator, research team, and host institution for implementation of research proposals, (ii) completeness of research proposals and (iii) usefulness of research outputs and outcomes;
- iv. To identify a minimum of three and maximum of five expert peer - reviewers, only in exceptional cases, having expertise in the specific research topic to whom the technical proposal may be sent for evaluation;
- v. To scrutinize and evaluate research proposals, make recommendation for acceptance of Final Technical Reports and closure of research projects;
- vi. To assess the scientific and technical soundness of the proposals with respect to the objectives, methodology used, the expected outcomes and outputs and the practical utility of the research outputs;
- vii. To assess whether the budgetary requirements are commensurate with the research works to be carried out, which includes scrutiny of proposed budgetary requirements, component wise analysis of cost of project, scrutiny and evaluation of the requirement for research and technical staff and necessity for the equipment projected in the research proposal;
- viii. To assess expected and other physical outcome of the project, cost benefit analysis in terms of physical outputs and environment benefits, minimum required tenure of the project-techno-commercial feasibility of the project, modalities for replication of the outcomes, no duplication with existing work/ongoing projects, standardization of the design parameters for technology and preparation of protocols/prototypes for achieving reliable and replicable process;
- ix. To list clearly the expected outputs and outcomes of each proposed research project;
- x. To recommend research proposals for final approval and sanction of the Steering Committee on Research;
- xi. To monitor and evaluate the progress of on-going projects and to suggest mid-course correction, if required;
- xii. To evaluate Final Technical Reports in terms of outputs and outcomes and its utility in enhancing the quality of environment and recommend the same for final acceptance by the Steering Committee on research to launch All India Co-ordinated Research Programme and Commissioned research;

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- xiii. To identify priority areas of research under the Thematic areas of research and facilitate development of concept proposals to launch All India Coordinated Programmes/Commissioned studies;
  - xiv. To introduce the concept of 'cost-sharing' and 'viability gap funding' to promote industry participation in research and make the programme commercially viable, wherever possible and to address intellectual property rights issues;
  - xv. To address issues related to availability of report on public domain, patent related conditions, revenue generation issues etc.
  - xvi. To consider any other matter relating to R&D Scheme as may deem fit for promotion of research in the area of Environment and Ecology.
3. The tenure of the Technical and Financial Appraisal Committee will be for a period of two (02) years which may be subsequently extended until its re-constitution by the Ministry of Environment, Forest and Climate Change.
  4. The Technical and Financial Appraisal Committee may meet as often as necessary in Delhi or elsewhere in the country as required.
  5. The Technical and Financial Appraisal Committee may co-opt any member/special invitee as and when required with the approval of competent authority.
  6. The Chairman of the TFAC Committee would be entitled to the reimbursement of the cost of Air travel by *Executive Class* by the shortest route and all other members would be entitled to travel by air in *Economy Class* by the shortest route, as per Rule SR-190 and subject to production of boarding pass for actual use of the facility.
  7. The admissibility of sitting fee to non-official expert members would be as per M/o Finance, Department of Expenditure's Office Memorandum No. 19047/10/2016-E-IV dated 12.04.2017.
  8. Official members of the Committee will be entitled to air travel, local travel for attending the meetings as admissible as per their entitlement and not entitled for any sitting fee. Claim on this account for other members will be admissible for one source only.
  9. All the non-official members of the Committee shall have to furnish the declaration of 'Conflict of Interest' as per enclosed *proforma* for ensuring accountability.
  10. This issues with the approval of the Competent Authority and with the concurrence of AS&FA vide their Dy. No P 78571 dated 11.3.2019.



(Ramakrishnan K S)

Under Secretary to the Government of India

To:

- i. The Chairman and all members of the TFAC (by name);
- ii. PPS to Secretary (EFCC)/PPS to AS(AKJ)/PPS to AS & FA;
- iii. All JSs/IGFS/Advisers/Director (RE)/Scientist - D (RE)
- iv. Pay & Accounts Officer, MoEF&CC/
- v. Consultant (IT) for uploading on website of the Ministry/ IFD etc.



(Ramakrishnan K S)

Under Secretary to the Government of India