

No. 12016/ 3/2011-S&T
Government of India
Planning Commission

Yojana Bhawan,
Sansad Marg,
New Delhi-110001.

Dated: 15.03.2011

OFFICE MEMORANDUM

Subject: Constitution of Steering Committee on Science and Technology for the Formulation of the Twelfth Five Year Plan (2012-2017).

With a view to formulate the Twelfth Five Year Plan (2012-2017) for the Science and Technology Sector, it has been decided to constitute a Steering Committee on Science and Technology under the Chairmanship of Dr. K. Kasturirangan, Member, Planning Commission. The composition and the terms of reference of the Steering Committee would be as follows:

I Composition

1. **Dr. K. Kasturirangan, Member, Planning Commission** - **Chairman**
2. Dr. Anil Kakodkar, Former Secretary, DAE, Mumbai - Member
3. Dr. Sri Kumar Banerjee, Secretary,
Department of Atomic Energy, Mumbai - Member
4. Dr. M.K. Bhan, Secretary, Department of
Biotechnology, New Delhi - Member
5. Prof. Samir K. Brahmachari, Secretary, Department of
Scientific and Industrial Research and DG-CSIR, New Delhi - Member
6. Dr. K. Radhakrishnan, Secretary, Department of Space, Bangalore - Member
7. Dr. Shailesh Nayak, Secretary, Ministry of
Earth Sciences, New Delhi - Member
8. Dr. S. Ayyapan, Secretary, DARE &
Director General, ICAR, New Delhi - Member
9. Dr. V. K.Saraswat, Secretary, DRDO &
Scientific Adviser to RM, New Delhi - Member
10. Dr. V.M. Katoch, Secretary, DHR &
Director General, ICMR, New Delhi - Member
11. Shri Jamshyd Godrej, Chairman & Managing Director,
Godrej Boyce Manufacturing Co. Ltd. - Member
12. Dr. K. Anji Reddy, Chairman of the Board
Dr. Reddy Laboratories, Ltd. - Member
13. Shri Ajai Chowdhry, Chairman, HCL Infosystems Ltd. - Member
14. Prof. P. Balaram, Director, Indian Institute of Science, Bangalore - Member
15. Prof. Dinesh Singh, Vice Chancellor, University of Delhi - Member
16. Dr. G. Sundararajan, Director, ARCI, Hyderabad - Member

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| 17. Dr. Vijayalakshmi Ravindranath, Chairperson,
Centre for Neuroscience, IISc, Bangalore | - Member |
| 18. Dr. Hari Shankar Gupta, Director, IARI, New Delhi | - Member |
| 19. Prof. L.S. Shashidhra, Professor and
Coordinator (Biology), IISER, Pune | - Member |
| 20. Dr. R.S. Deshpande, Director, Institute for Social and Economic
Change, Bangalore | - Member |
| 21. Shri B.P. Rao, Chairman cum Managing Director, BHEL, Delhi | - Member |
| 22. Dr. Tushaar Shah, Sr. Fellow, IWMI, India, Anand, Gujarat and
Member of the Governing Body of Collectives for Integrated
Livelihood Initiatives (CInI) | - Member |
| 23. Dr. C T S Nair, Executive Vice President Kerala State Council
for Science, Technology and Environment, Thiruvananthapuram | - Member |
| 24. President, Indian National Science Academy, Delhi | - Member |
| 25. President, National Academy of Sciences, Allahabad | - Member |
| 26. President, Indian Academy of Sciences, Bangalore | - Member |
| 27. President, Indian National Academy of Engineering, New Delhi | - Member |
| 28. Chairman, University Grants Commission, New Delhi | - Member |
| 29. Secretary General, FICCI, New Delhi | - Member |
| 30. Director General, CII, New Delhi | - Member |
| 31. Secretary General, ASSOCHAM, New Delhi | - Member |
| 32. Dr. T. Ramasami, Secretary, Department of Science and
Technology, New Delhi | - Member Secretary |
| 33. Adviser (S&T), Planning Commission | - Convener |

II Terms of Reference

1. To assess the performance and national role of the Science and Technology Sector at the end of the Eleventh Five Year Plan. Identify priorities for the S&T sector for the Twelfth Five Year Plan and suggest measures including policy initiatives for enabling India to emerge as a major global technological power by 2025
2. To examine and critically review the continued relevance of some of the existing institutions, structures, mechanisms, which have been created over the years to enhance India's Research & Development base and scientific capability and to ensure that the much needed resources, both financial and human, are deployed in an optimal fashion.
3. To suggest specific measures/policies/procedural reforms for effective personnel and financial management in the S&T sector, including incentives, rewards, amenities etc. to the scientists and also for expeditious approval/sanction of various S&T programmes/schemes and timely release of funds to the scientists, while at the same time ensuring transparency and accountability in the system.
4. To identify emerging areas of science and suggest ways to strengthen basic research with the goal of substantially improving the relative position of India in the global science landscape

5. To recommend ways of connecting various subsystems of public funded research in strategic and nonstrategic sectors for leveraging their capability in bringing about transformational changes through cross-flow of technologies amongst them and joint delivery of technologies to civil society.
 6. To suggest policy measures, institutional mechanisms/strategies for correcting asymmetries in the knowledge domain of R&D and promoting Public and Private Partnerships such that share of Private : Public funds into R&D reaches near 1:1 by the end of Twelfth Five Year Plan.
 7. To suggest means of catalyzing technology partnership between the States and the Central S&T agencies for innovative deployment of Technological solutions for socially relevant challenges.
 8. To recommend strategies for strengthening the Science and Technology education system in the country to develop high quality S&T human resource and address the challenge of sustainable supply of talent pipeline for careers with research.
 9. To identify and design PAN India missions on development and deployment of technologies for gaining food, water, nutrition, health, environment and energy security and recommend appropriate proportioning of resources among the PAN India and agency initiatives of Twelfth Five Year Plan programmes.
 10. To suggest special S&T intervention programmes directed towards the up-liftment of deprived and weaker sections of society including women, SC/ST, physically challenged and differently abled people.
 11. To suggest areas of International Cooperation in the field of Science and Technology for mutual advantages.
 12. To suggest measures for establishment of major international collaborative research facilities in the country for attracting the international scientific community to work in India.
 13. To define deliverables as National goals for the Indian S&T Sector for the Twelfth Five Year Plan period as well as Annual Plans, both in terms of tangible and non-tangible outputs and formulate guidelines for deployment of resources for relating inputs to the specified goals
 14. To suggest plan programmes for various Central S&T Departments by adopting a ZBB approach and keeping in view the priorities and goals for the Twelfth Five Year Plan as well as the agenda for the Decade of Innovations during 2010-20.
 15. To suggest an optimum outlay for the S&T sector, comprising of the on-going commitment and new programmes proposed to be undertaken.
 16. Any other subject, which the Steering Committee may like to deliberate and considered relevant for the formulation of the Twelfth Five Year Plan for the S&T Sector.
- III.** The Chairman may constitute various Specialists Group/Working Groups/Sub-groups/task forces etc. as considered necessary and co-opt other members to the Steering Committee for specific inputs.
- IV.** The expenditure towards TA/DA in connection with the meetings of the Steering Committee in respect of the official members will be borne by their respective Ministry/Department. Non-official members of the Steering Committee would be

permitted to travel by Executive class by Air-India, and the expenditure towards their TA/DA would be met by the Planning Commission.

V. The Steering Committee would submit its report by 31st August, 2011.

(G. Rajeev)
Under Secretary to the Government of India

Copy forwarded to:

1. Chairman, all Members, Member-Secretary and Convener of the Steering Committee
2. PS to Deputy Chairman, Planning Commission
3. PS to Adviser to PM on PI³
4. PS to Minister of State (Planning)
5. PS to all Members, Planning Commission
6. PS to Member-Secretary, Planning Commission
7. All Principal Advisers/Sr. Advisers/Advisers/HODs, Planning Commission
8. Director(PC), Planning Commission
9. Administration (General-I) and (General –II), Planning Commission
10. Accounts-I Branch, Planning Commission
11. Information Officer, Planning Commission
12. Library, Planning Commission

(G. Rajeev)
Under Secretary to the Government of India