

REPORT OF THE
WORKING GROUP ON LEVERAGING
INTERNATIONAL COLLABORATION INPUTS

1. **PREAMBLE** _____

The Planning Commission has constituted a Steering Committee on Science and Technology for the Formulation of Eleventh Five Year Plan (2007-2012). To assist the Steering Committee and to finalize its recommendations, a Working Group on “ Leveraging International Collaboration Inputs “ was set up by the Office of Principal Scientific Adviser to the Government of India vide their order No. Prn.SA/ADV/SC/2006 of 8th May, 2006.

2. **COMPOSITION**

1. Prof. V.S. Ramamurthy, Formerly Secretary, DST, New Delhi - Chairman
2. Dr. S. Natesh, Sr. Advisor, Deptt. of Bio-technology, New Delhi
3. Dr. S. Kailas, Associate Director, Physics Group, BARC, Mumbai
4. Shri. Rajeev Lochan, Assistant Scientific Secretary, ISRO, Bangalore
5. Shri S.K. Das, Adviser, Deptt. Of Ocean Development, New Delhi
6. Dr. Naresh Kumar, Head R&D Planning Division, CSIR, New Delhi
7. Prof. Ashok Mishra, Director, IIT, Bombay
8. Prof. Akhilesh Tyagi, Delhi University, Delhi
9. Shri Y.P. Kumar, Adviser, DST, New Delhi - Member Secretary

3. **TERMS OF REFERENCE**

1. To identify important areas of international S&T collaboration/ cooperation consistent with ongoing national research and development efforts.
2. To suggest measures for greater and more effective use of major international facilities abroad.
3. To establish synergy between different institutions/ departments having international collaborative programmes.
4. To consider any other important and relevant item.
5. To indicate approximate financial outlay for implementation of the

recommendations.

6. The Co-Chairmen may co-opt other members, if required.
7. The expenditure on TA/DA in connection with the meetings of the Working Group in respect of the official members will be borne by their respective Ministry/ Department. However, in the case of non-official members, they will be entitled for TA/DA as admissible to Grade-I Officials of the Government of India and the expenditure in this regard would be met by the Planning Commission.
8. The Working Group would submit its report by 15th July, 2006

4 MEETINGS OF THE WORKING GROUP

The Working Group on “ Leveraging International Collaboration Inputs met on 7th July 2006. The Working Group, in addition, also sought the views of other experts on International S&T Cooperation Programmes and also of the aided institutions. This report has been prepared based on the deliberations took place in the meeting as well as other inputs received.

5. BACKGROUND NOTE:

5.1 FRAMEWORK OF INTERNATIONAL S&T COLLABORATIONS

International S&T Collaborations of various scientific Departments/agencies are essentially the mechanism:

- to provide opportunity and platform to work together and in building and developing further dialogues,
- to provide first hand acquaintance with scientific and technological developments and work culture in other countries,
- to provide access to sophisticated research facilities abroad,
- to provide the possibility of interaction between scientific researchers to update and refine their knowledge base for accelerating the pace of investigation as also to fill up any gaps in the available information,
- to develop advanced technologies, high tech equipment and new generation materials required for the economic growth of the participating countries, and
- to take mutual advantage of complementary scientific & technological capabilities amongst participating country teams.

5.2 NEED AND RELEVANCE OF INTERNATIONAL COLLABORATIONS

- International Collaboration in S&T helps in opening the dialogues and developing further relations both at bilateral or multilateral/regional level.
- International Collaborations in S&T are inevitable to maintain pace of progress and growth of S&T.
- International collaborations are important for sharing the information and generating new knowledge which is must for any knowledge society.
- International Collaborations, if used appropriately by properly defining national priorities and appropriate linkages with domestic programmes could play important role in technology led economic growth.
- International collaborations need to be country specific where both parties are benefited.
- International collaborations could be used as effective tool in using technology diplomacy for leveraging national interests both at bilateral, regional and multi lateral levels.
- International Collaborations inputs may be useful in improving scientific education and knowledge dissemination by providing broad band connectivity of institutions /universities in India to International libraries of repute.
- International Collaborations are important from the point of view of sharing of cost and optimal utilization of resources.

The recommendations of the Working Group are described in following paragraphs.