

## **Appendix I (Refer to Paragraph 1.2)**

### **Brief profile of the Scientific and Environmental Ministries/Departments**

#### **1. Department of Atomic Energy (DAE)**

DAE is engaged in the development of nuclear power technology, applications of radiation technologies in the fields of agriculture, medicine, industry and basic research. The Department is involved in the design, construction and operation of nuclear power/research reactors and supporting nuclear fuel cycle technologies covering exploration, mining and processing of nuclear minerals, production of heavy water, nuclear fuel fabrication, fuel reprocessing and nuclear waste management. It also supports research in basic sciences, astronomy, astrophysics, cancer research and education through its institutes. The expenditure incurred by DAE during 2013-14 was ₹ 13,437.26 crore. The activities of DAE are executed through its agencies like Bhabha Atomic Research Centre, Indira Gandhi Centre for Atomic Research, Heavy Water Board, Nuclear Fuel Complex, Atomic Minerals Directorate for Exploration and Research, Tata Memorial Centre, Tata Institute of Fundamental Research, Institute for Plasma Research, etc.

#### **2. Department of Space (DOS)**

DOS is responsible for the country's programmes for harnessing space technology for national development, while pursuing space science research and planetary exploration. DOS and its constituent units are responsible for planning and execution of national space activities. The main objectives of the space programme include development of satellites, launch vehicles, sounding rockets and associated ground systems. It operates the Indian National Satellite (INSAT) programme for meeting telecommunication, television broadcasting and developmental applications. DOS also deals with matters relating to space science, space technology and space applications. The expenditure incurred by DOS during 2013-14 was ₹ 5,168.95 crore. The activities of DOS are executed through its agencies like Vikram Sarabhai Space Centre, Satish Dhawan Space Centre, Liquid Propulsion Systems Centre, National Remote Sensing Agency, Physical Research Laboratory, etc.

#### **3. Ministry of Earth Sciences (MoES)**

MoES is mandated to provide the nation with best possible services in forecasting of monsoons and other weather/climate parameters, ocean state, earthquakes, tsunamis and other phenomena related to earth systems through integrated programmes. MoES also deals with science and technology for exploration and exploitation of ocean resources (living and non-living) and plays a nodal role for Antarctic/Arctic and Southern Ocean research. The expenditure incurred by MoES during 2013-14 was ₹ 1,248.15 crore. The activities of MoES are carried through agencies like India Meteorological Department, Indian National Centre for Ocean Information Services, National Centre for Antarctic and Ocean Research, National Institute of Ocean Technology, National Centre for Medium Range Weather Forecasting, etc.

#### **4. Ministry of Environment and Forests (MoEF)**

MoEF is the nodal agency for planning, promotion, co-ordination and overseeing the implementation of environmental and forestry programmes. The principal activities undertaken by MoEF consist of conservation and survey of flora, fauna, forests and wildlife; prevention and control of pollution; and afforestation and regeneration of degraded areas. MoEF is also engaged in the prevention and abatement of pollution. It is the nodal Ministry of the country in various international environment oriented programmes. The expenditure incurred by MoEF during 2013-14 was ₹ 2,158.80 crore. The activities of MoEF are carried out through agencies like Central Pollution Control Board, Botanical Survey of India, Zoological Survey of India, National Biodiversity Authority, Wildlife Institute of India, Indian Council of Forestry Research and Education, Central Zoo Authority, etc.

#### **5. Ministry of New and Renewable Energy (MNRE)**

The broad aim of MNRE is to develop and deploy new and renewable energy for supplementing energy requirements of the country. MNRE seeks to increase the share of clean power through renewable energy (bio, wind, hydro, solar, geothermal and tidal) to supplement fossil fuel based electricity generation. The Ministry aims to develop technologies, processes, materials, components, sub-systems, products and services at par with international specifications by facilitating research, design, development, manufacture and deployment of these energy systems/devices for transportation, portable and stationary applications in rural, urban, industrial and commercial sectors. The expenditure incurred by MNRE during 2013-14 was ₹ 1,633.52 crore. The activities of MNRE are carried through agencies like Solar Energy Centre, Centre for Wind Energy Technology, etc.

#### **6. Ministry of Science and Technology**

The Ministry of Science and Technology has following three Departments under its control.

##### **6.1 Department of Biotechnology (DBT)**

DBT is mandated to promote large scale use of biotechnology in the country through Research and Development (R&D) projects, demonstrations and creation of infrastructural facilities for the growth and application of biotechnology in the broad areas of agriculture, health care, animal sciences, environment and industry. The Department is also engaged in promoting University and Industry Interaction, international collaborations and in evolving Bio Safety Guidelines, manufacture and application of cell based vaccines. The expenditure incurred by DBT during 2013-14 was ₹ 1,291.32 crore. The activities of DBT are carried through agencies like National Institute of Immunology, National Centre for Cell Science, National Brain Research Centre, etc.

## 6.2 Department of Science and Technology (DST)

DST plays a pivotal role in promotion of Science and Technology (S&T) in the country. It is the nodal department for organising, coordinating and promoting S&T activities in the country, being responsible for formulation of policies relating to S&T, R&D through its research institutions or laboratories, undertaking or financially sponsoring scientific and technological surveys, research design and development and supporting Scientific Research Institutions, Scientific Associations and Bodies by providing Grants-in-aid. The expenditure incurred by DST during 2013-14 was ₹ 2,610.22 crore. The activities of DST are carried out through agencies like Technology Development Board, Raman Research Institute, Bose Institute, Indian Association for the Cultivation of Science, Indian Institute of Astrophysics, Survey of India, etc.

## 6.3 Department of Scientific and Industrial Research (DSIR)

The primary endeavor of DSIR is to promote R&D by the industries and support a large cross section of small/medium industrial units to develop state-of-the art globally competitive technologies of high commercial potential. The Department facilitates scientific and industrial research in the country through commercialisation of lab-scale R&D, enhancement of the share of technology intensive exports in overall exports and strengthening of industrial consultancy and technology management capabilities. It also provides a link between scientific laboratories and industrial establishments for transfer of technologies. The expenditure incurred by DSIR during 2013-14 was ₹ 3,159.54 crore. The Council of Scientific and Industrial Research, a major autonomous body being funded by DSIR comprises of 39 laboratories like National Aerospace Laboratories, National Chemical Laboratory, Central Drug Research Institute, Central Food Technological Research Institute, National Environmental Engineering Research Institute, National Institute of Oceanography, etc. These research laboratories carry out applied research in the areas of aerospace, bio-technology, drugs and pharmaceuticals, energy, food and food processing, leather, metals, minerals, etc.

## 7. Ministry of Water Resources (MoWR)

MoWR is responsible for laying down policy guidelines and programmes for the development and regulation of country's water resources. The Ministry carries out overall planning, policy formulation, coordination and guidance in the water resources sector including minor irrigation and development of ground water resources. Besides this, the Ministry is also involved in mediation and facilitation in disputes relating to distribution of inter-state river waters and negotiations with neighbouring countries on river waters. MoWR also provides guidance and support for irrigation, flood control and multi-purpose projects. The expenditure incurred by MoWR during 2013-14 was ₹ 1,094.71 crore. MoWR is responsible for operation of the central network for flood forecasting and warning on inter-state rivers and preparation of flood control master plans for the Ganga and the Brahmaputra. The Ministry carries out its activities through agencies like Central Water Commission, Central Ground Water Board, National Water Development Agency, etc.

**Appendix II (Refer to Paragraph 1.5)****Audit findings from Compliance Audits conducted during the last five years**

| Report No. and year  | Para no.    | Subject   | Ministry/ Department |
|----------------------|-------------|---|----------------------|
| <b>16 of 2011-12</b> | 5.1         | Wasteful expenditure on refurbishment of a vessel   | MoES                 |
|                      | 13.1        | Infructuous expenditure due to non-utilisation of software  | MNRE                 |
|                      | 15.2        | Deficient implementation of projects for generation of power through safe disposal of waste   | DSIR                 |
|                      | 15.3        | Non-realisation of objectives of a project  |                      |
|                      | 19.1        | Idle investment on development of a Linac tube  | DOS                  |
|                      | 19.2        | Avoidable payment of electricity duty and cess  |                      |
| <b>4 of 2012-13</b>  | Stand alone | Report of the Comptroller and Auditor General of India on hybrid satellite digital multimedia broadcasting service agreement with Devas | DOS                  |
| <b>13 of 2012-13</b> | 10.1        | Avoidable expenditure of ₹ 3.32 crore   | DAE                  |
|                      | 11.1        | Avoidable payment of demand charges   | DOS                  |
| <b>21 of 2013</b>    | Stand alone | Report of the Comptroller and Auditor General of India on Compensatory Afforestation in India   | MoEF                 |
| <b>22 of 2013</b>    | 2.1         | Avoidable expenditure on compensation due to breach of agreement  | DAE                  |
|                      | 2.2         | Hasty procurement of equipment without creating infrastructure facilities for installation  |                      |
|                      | 3.1         | EDUSAT Utilisation Programme  | DOS                  |
|                      | 3.2         | Parking of foreign satellite in Indian administration coordinated orbital slot  |                      |
|                      | 3.3         | Loss due to unsafe transport and belated insurance of consignment   |                      |
|                      | 4.1         | Public Private Partnership for setting up 'The Centre for Genomic Application' by Institute of Genomics and Integrative Biology         | DSIR                 |
|                      | 4.2         | Unfruitful expenditure  |                      |

| Report No. and year | Para no.    | Subject  | Ministry/ Department |
|---------------------|-------------|--|----------------------|
|                     | 5.1         | Avoidable expenditure on hiring of office premises   | DST                  |
|                     | 5.2         | Inadmissible payment of transport allowance  |                      |
|                     | 6.1         | Repeated unauthorised creation and up-gradation of posts by Central Pollution Control Board                | MoEF                 |
|                     | 7.1         | Maintenance of Farakka Barrage and its ancillaries   | MoWR                 |
|                     | 8.1         | Irregular introduction of pension scheme and diversion of funds  | MoES                 |
| <b>22 of 2014</b>   | Stand alone | Management of satellite capacity for DTH service by DOS  | DOS                  |
| <b>27 of 2014</b>   | 2.1         | Non-utilisation of equipment   | DAE                  |
|                     | 3.1         | Fraudulent payment of legal fees   | DST                  |
|                     | 3.2         | Non-installation of equipment  |                      |
|                     | 4.1         | Inordinate delay in realization of SRE-2 mission   | DOS                  |
|                     | 4.2         | Loss in allocation of satellite capacity   |                      |
|                     | 4.3         | Avoidable expenditure due to improper contract management  |                      |
|                     | 4.4         | Infructuous expenditure on procurement of components   |                      |
|                     | 5.1         | National Data Buoy Project   | MoES                 |
|                     | 5.2         | Irregular payment of gratuity  |                      |
|                     | 6.1         | Activities of Zoological Survey of India in exploration, identification and monitoring of faunal diversity | MoEF                 |
|                     | 6.2         | Inordinate delay in setting up of National Botanic Garden  |                      |
|                     | 6.3         | Wasteful expenditure on hiring of office accommodation   |                      |
|                     | 6.4         | Non-establishment of model facilities for management of Municipal Solid Wastes                             |                      |

**Appendix III (Refer to paragraph 1.7)****Grants released to Autonomous Bodies auditable under Section 14 of Comptroller and Auditor General's (Duties, Powers and Conditions of Service) Act, 1971***(₹ in crore)*

| Sl. No.                                     | Ministry/ Department<br>Name of Autonomous Body                                  | Amount of grants released in<br>2013-14 |
|---|--|---|
| <b>DEPARTMENT OF ATOMIC ENERGY</b>          |  |   |
| 1.  | Harish Chandra Research Institute, Allahabad                                     | 28.69                                   |
| 2.  | Institute of Mathematical Sciences, Chennai                                      | 43.10                                   |
| 3.  | Atomic Energy Education Society, Mumbai  | 45.23                                   |
| 4.  | Tata Institute of Fundamental Research, Mumbai                                   | 519.80                                  |
| 5.  | Tata Memorial Centre, Mumbai   | 356.93                                  |
| 6.  | Institute for Plasma Research, Gandhinagar                                       | 642.16                                  |
| 7.  | Institute of Physics, Bhubaneswar  | 24.00                                   |
| 8.  | National Institute of Science Education and Research, Bhubaneswar                | 220.00                                  |
| 9.  | Saha Institute of Nuclear Physics, Kolkata                                       | 95.93                                   |
| <b>DEPARTMENT OF BIOTECHNOLOGY</b>          |  |   |
| 10.   | National Brain Research Institute, Gurgaon                                       | 0.50                                    |
| 11.   | National Institute for Plant Genome Research, New Delhi                          | 23.00                                   |
| 12.   | National Centre for Cell Sciences, Pune  | 26.00                                   |
| 13.   | National Institute of Immunology, New Delhi                                      | 47.15                                   |
| 14.   | Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram                        | 23.50                                   |
| 15.   | Centre of DNA Finger Printing and Diagnostics, Hyderabad                         | 34.00                                   |
| 16.   | Institute of Bio-resources and Sustainable Development, Imphal                   | 21.09                                   |
| 17.   | Institute of Life Sciences, Bhubaneswar  | 22.10                                   |
| 18.   | Translational Health Science and Technology Institute, Faridabad                 | 37.00                                   |
| 19.   | UNESCO Regional Centre for Education and Training, Faridabad                     | 41.40                                   |
| 20.   | National Agri-Food Biotechnology Institute and Bio-processing Unit, Mohali       | 20.10                                   |
| 21.   | Institute for Stem Cell Research and Regenerative Medicine, Bengaluru            | 55.00                                   |
| 22.   | National Institute of Biomedical Genomics, Kalyani                               | 42.00                                   |
| 23.   | National Institute of Animal Biotechnology, Hyderabad                            | 18.00                                   |
| 24.   | Centre of Innovative and Applied Bio-processing, Mohali                          | 7.00                                    |
| 25.   | International Centre for Genetic Engineering and Biotechnology, New Delhi        | 13.00                                   |
| <b>DEPARTMENT OF SCIENCE AND TECHNOLOGY</b> |  |   |
| 26.   | Aryabhata Research Institute for Observational Sciences, Nainital                | 23.00                                   |
| 27.   | Birbal Sahni Institute of Paleobotany, Lucknow                                   | 26.48                                   |
| 28.   | Indian National Academy of Engineering, New Delhi                                | 4.30                                    |
| 29.   | Indian National Science Academy, New Delhi                                       | 21.50                                   |
| 30.   | National Academy of Sciences, Allahabad  | 10.22                                   |
| 31.   | National Accreditation Board for Testing and Calibration Laboratories, New Delhi | 0.10                                    |
| 32.   | Technology Information, Forecasting and Assessment Council, New Delhi            | 8.16                                    |

| Sl. No.   | Ministry/ Department<br>Name of Autonomous Body                         | Amount of grants<br>released in<br>2013-14 |
|---|---|--|
| 33.   | Vigyan Prasar, New Delhi  | 13.60                                      |
| 34.   | Wadia Institute of Himalayan Geology, Dehradun                          | 36.18                                      |
| 35.   | Agarkar Research Institute, Pune  | 12.07                                      |
| 36.   | Indian Institute of Geomagnetism, Mumbai                                | 25.16                                      |
| 37.   | Raman Research Institute, Bengaluru                                     | 33.00                                      |
| 38.   | Centre for Soft Matter Research, Bengaluru                              | 5.60                                       |
| 39.   | International Advanced Research Centre for Powder Metallurgy, Hyderabad | 47.83                                      |
| 40.   | Indian Institute of Astrophysics, Bengaluru                             | 50.77                                      |
| 41.   | Indian Academy of Sciences, Bengaluru                                   | 12.54                                      |
| 42.   | Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru     | 55.00                                      |
| 43.   | Bose Institute, Kolkata   | 80.77                                      |
| 44.   | Indian Association for the Cultivation of Science, Kolkata              | 58.09                                      |
| 45.   | S N Bose National Centre for Basic Science, Kolkata                     | 29.20                                      |
| 46.   | Indian Science Congress Association, Kolkata                            | 7.04                                       |
| 47.   | Institute of Advanced Study in Science and Technology, Guwahati         | 15.96                                      |
| 48.   | National Innovation Foundation, Ahmedabad                               | 9.49                                       |
| <b>DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> |   |  |
| 49.   | Consultancy Development Centre, New Delhi                               | **   |
| <b>DEPARTMENT OF SPACE</b>                              |   |  |
| 50.   | North Eastern Space Application Centre, Shillong                        | 15.23                                      |
| 51.   | Indian Institute of Space Technology, Thiruvananthapuram                | 75.00                                      |
| 52.   | National Atmospheric Research Laboratory, Tirupati                      | 15.00                                      |
| 53.   | Physical Research Laboratory, Ahmedabad                                 | 90.00                                      |
| 54.   | Semi Conductor Laboratory, Chandigarh                                   | 68.00                                      |
| <b>MINISTRY OF EARTH SCIENCES</b>                       |   |  |
| 55.   | National Institute of Ocean Technology, Chennai                         | 177.80                                     |
| 56.   | Indian Institute of Tropical Meteorology, Pune                          | 193.11                                     |
| 57.   | Indian National Centre for Ocean Information Services, Hyderabad        | 68.19                                      |
| 58.   | National Centre for Antarctic and Ocean Research, Goa                   | 200.54                                     |
| <b>MINISTRY OF ENVIRONMENT AND FORESTS</b>              |   |  |
| 59.   | Central Pollution Control Board, Delhi                                  | 68.90                                      |
| 60.   | G.B. Pant Institute of Himalayan Environment and Development, Almora    | 14.00                                      |
| 61.   | Indian Institute of Forest Management, Bhopal                           | 12.34                                      |
| 62.   | Indian Council of Forestry Research and Education, Dehradun             | 142.91                                     |
| 63.   | Indian Plywood Industries Research and Training Institute, Bengaluru    | 7.51                                       |
| 64.   | Padmaja Naidu Himalayan Zoological Park, Darjeeling                     | **   |
| 65.   | Centre for Environment Education, Ahmedabad                             | **   |
| 66.   | Tropical Forest Research Institute, Jabalpur                            | **   |

| Sl. No.                                     | Ministry/ Department<br>Name of Autonomous Body                        | Amount of grants<br>released in<br>2013-14 |
|---|--|--|
| <b>MINISTRY OF NEW AND RENEWABLE ENERGY</b> |  |  |
| 67.   | Centre for Wind Energy Technology, Chennai*                            | 14.00                                      |
| 68.   | Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala | 8.00                                       |
|   | <b>TOTAL</b>   | <b>4,163.27</b>                            |

\* Audit is conducted under Section 20 of the C&AG's DPC Act 1971, however the audit is of a superimposed nature.

\*\* Information not available

## Appendix IV (Refer to Paragraph 1.8)

### Outstanding Utilisation Certificates

| Ministry/<br>Department                                | Period to which grant<br>relates | Number of utilisation<br>certificates outstanding due<br>by March 2014 | Amount<br>(₹ in lakh) |
|--|----------------------------------|--|-----------------------|
| Department of<br>Atomic Energy                         | 1991-92                          | 1  | 2.51                  |
|  | 1996-97                          | 4  | 4.12                  |
|  | 1997-98                          | 3  | 3.38                  |
|  | 1998-99                          | 3  | 1.64                  |
|  | 99-2000                          | 7  | 16.56                 |
|  | 2000-01                          | 6  | 14.24                 |
|  | 2001-02                          | 2  | 2.60                  |
|  | 2002-03                          | 1  | 0.80                  |
|  | 2003-04                          | 4  | 4.50                  |
|  | 2004-05                          | 10   | 122.07                |
|  | 2005-06                          | 13   | 13.46                 |
|  | 2006-07                          | 46   | 101.25                |
|  | 2007-08                          | 39   | 262.72                |
|  | 2008-09                          | 24   | 68.45                 |
|  | 2009-10                          | 34   | 458.49                |
|  | 2010-11                          | 45   | 570.58                |
|  | 2011-12                          | 170  | 972.32                |
| 2012-13  | 204                              | 1,418.48   |                       |
| <b>Total</b>   |                                  | <b>616</b>   | <b>4,038.17</b>       |
| Department of<br>Biotechnology                         | Nil                              |  |                       |
| Department of<br>Science and<br>Technology             | Details not available            |  |                       |
| Department of<br>Scientific and<br>Industrial Research | Details not available            |  |                       |
| Department of<br>Space                                 | 1976-77                          | 1  | 0.05                  |
|  | 1979-80                          | 1  | 0.05                  |
|  | 1980-81                          | 1  | 0.38                  |
|  | 1981-82                          | 1  | 0.03                  |
|  | 1982-83                          | 5  | 0.69                  |
|  | 1983-84                          | 1  | 0.02                  |
|  | 1984-85                          | 3  | 0.97                  |

| Ministry/<br>Department       | Period to which grant<br>relates | Number of utilisation<br>certificates outstanding due<br>by March 2014 | Amount<br>(₹ in lakh) |
|-------------------------------|----------------------------------|--|-----------------------|
|                               | 1985-86                          | 1  | 0.05                  |
|                               | 1986-87                          | 5  | 1.30                  |
|                               | 1987-88                          | 2  | 4.88                  |
|                               | 1989-90                          | 2  | 0.07                  |
|                               | 1993-94                          | 1  | 0.10                  |
|                               | 1998-99                          | 1  | 0.20                  |
|                               | 99-2000                          | 2  | 1.30                  |
|                               | 2000-01                          | 3  | 34.87                 |
|                               | 2001-02                          | 5  | 60.91                 |
|                               | 2002-03                          | 11   | 162.75                |
|                               | 2003-04                          | 15   | 198.48                |
|                               | 2004-05                          | 13   | 218.74                |
|                               | 2005-06                          | 23   | 101.61                |
|                               | 2006-07                          | 16   | 25.88                 |
|                               | 2007-08                          | 13   | 40.30                 |
|                               | 2008-09                          | 12   | 134.30                |
|                               | 2009-10                          | 36   | 150.80                |
|                               | 2010-11                          | 25   | 78.68                 |
|                               | 2011-12                          | 28   | 79.07                 |
|                               | 2012-13                          | 54   | 433.62                |
|                               | <b>Total</b>                     | <b>281</b>   | <b>1,730.10</b>       |
| Ministry of Earth<br>Sciences | 1983-84                          | 9  | 0.72                  |
|                               | 1984-85                          | 16   | 12.62                 |
|                               | 1985-86                          | 12   | 4.58                  |
|                               | 1986-87                          | 11   | 7.31                  |
|                               | 1987-88                          | 24   | 16.99                 |
|                               | 1988-89                          | 32   | 85.84                 |
|                               | 1989-90                          | 47   | 22.65                 |
|                               | 1990-91                          | 30   | 78.70                 |
|                               | 1991-92                          | 3  | 0.38                  |
|                               | 1992-93                          | 12   | 177.12                |
|                               | 1993-94                          | 6  | 59.57                 |
|                               | 1994-95                          | 8  | 35.51                 |
|                               | 1995-96                          | 24   | 114.57                |

| Ministry/<br>Department                   | Period to which grant<br>relates | Number of utilisation<br>certificates outstanding due<br>by March 2014 | Amount<br>(₹ in lakh) |
|---|----------------------------------|--|-----------------------|
|   | 1996-97                          | 30   | 37.23                 |
|   | 1997-98                          | 32   | 140.66                |
|   | 1998-99                          | 22   | 217.40                |
|   | 99-2000                          | 24   | 528.30                |
|   | 2000-01                          | 16   | 54.60                 |
|   | 2001-02                          | 10   | 12.59                 |
|   | 2002-03                          | 8  | 10.40                 |
|   | 2003-04                          | 37   | 57.52                 |
|   | 2004-05                          | 24   | 459.20                |
|   | 2005-06                          | 31   | 217.15                |
|   | 2006-07                          | 20   | 443.55                |
|   | 2007-08                          | 58   | 618.50                |
|   | 2008-09                          | 40   | 864.51                |
|   | 2009-10                          | 36   | 217.95                |
|   | 2010-11                          | 128  | 683.92                |
|   | 2011-12                          | 81   | 1,185.37              |
| <b>Total</b>                              |                                  | <b>831</b>   | <b>6,365.41</b>       |
| Ministry of<br>Environment and<br>Forests | 1981-82                          | 15   | 5.79                  |
|   | 1982-83                          | 21   | 41.00                 |
|   | 1983-84                          | 90   | 58.50                 |
|   | 1984-85                          | 143  | 229.80                |
|   | 1985-86                          | 121  | 495.40                |
|   | 1986-87                          | 74   | 533.77                |
|   | 1987-88                          | 278  | 6,531.00              |
|   | 1988-89                          | 359  | 2,543.18              |
|   | 1989-90                          | 545  | 192.00                |
|   | 1990-91                          | 70   | 123.30                |
|   | 1991-92                          | 81   | 1,439.00              |
|   | 1992-93                          | 216  | 736.00                |
|   | 1993-94                          | 64   | 74.18                 |

| Ministry/<br>Department                 | Period to which grant<br>relates | Number of utilisation<br>certificates outstanding due<br>by March 2014 | Amount<br>(₹ in lakh) |
|---|----------------------------------|--|-----------------------|
|   | 1994-95                          | 78   | 160.61                |
|   | 1995-96                          | 78   | 170.88                |
|   | 1996-97                          | 278  | 1,002.24              |
|   | 1997-98                          | 149  | 541.37                |
|   | 1998-99                          | 298  | 702.59                |
|   | 99-2000                          | 277  | 663.53                |
|   | 2000-01                          | 311  | 768.24                |
|   | 2001-02                          | 333  | 961.75                |
|   | 2002-03                          | 299  | 850.25                |
|   | 2003-04                          | 349  | 1,223.02              |
|   | 2004-05                          | 343  | 1,388.46              |
|   | 2005-06                          | 270  | 1,380.06              |
|   | 2006-07                          | 258  | 1,675.93              |
|   | 2007-08                          | 266  | 2,322.21              |
|   | 2008-09                          | 221  | 1,749.33              |
|   | 2009-10                          | 92   | 821.02                |
|   | 2010-11                          | 118  | 15,149.86             |
|   | 2011-12                          | 183  | 5,295.86              |
| <b>Total</b>                            |                                  | <b>6,278</b>   | <b>49,830.13</b>      |
| Ministry of New and<br>Renewable Energy | 2005-06                          | 1  | 3.34                  |
|   | 2006-07                          | 1  | 2.00                  |
|   | 2007-08                          | 8  | 27.56                 |
|   | 2008-09                          | 13   | 263.14                |
|   | 2009-10                          | 41   | 799.56                |
|   | 2010-11                          | 92   | 2,544.69              |
|   | 2011-12                          | 178  | 12,763.24             |
|   | 2012-13                          | 520  | 60,733.63             |
| <b>Total</b>                            |                                  | <b>854</b>   | <b>77,137.16</b>      |
| Ministry of Water<br>Resources          | 1986-87                          | 3  | 12.50                 |
|   | 1987-88                          | 1  | 4.04                  |
|   | 1988-89                          | 2  | 4.23                  |
|   | 1989-90                          | 1  | 0.50                  |
|   | 1990-91                          | 3  | 7.17                  |
|   | 1991-92                          | 3  | 6.56                  |
|   | 2000-01                          | 1  | 3.34                  |

| Ministry/<br>Department | Period to which grant<br>relates | Number of utilisation<br>certificates outstanding due<br>by March 2014 | Amount<br>(₹ in lakh) |
|-------------------------|----------------------------------|--|-----------------------|
|                         | 2001-02                          | 2  | 40.00                 |
|                         | 2006-07                          | 5  | 36.53                 |
|                         | 2007-08                          | 12   | 81.28                 |
|                         | 2008-09                          | 46   | 738.57                |
|                         | 2009-10                          | 46   | 359.85                |
|                         | 2010-11                          | 69   | 585.59                |
|                         | 2011-12                          | 47   | 399.92                |
|                         | 2012-13                          | 16   | 782.68                |
| <b>Total</b>            |                                  | <b>257</b>   | <b>3,062.76</b>       |
| <b>Grand Total</b>      |                                  | <b>9,117</b>   | <b>1,42,163.73</b>    |

**Appendix V (Refer to Paragraph 1.9)****Summarised financial results of Departmentally Managed Government Undertakings****(₹ in lakh)**

| Sl. No. | Name of the Undertaking | Period of Accounts | Government Capital | Mean Capital | Block Assets (Net) | Depreciation to date | Profit (+)<br>Loss (-) | Interest on Government Capital | Total return | Percentage of total return to mean Capital | Remarks                 |
|---------|-------------------------|--------------------|--------------------|--------------|--------------------|----------------------|------------------------|--------------------------------|--------------|--|-------------------------|
| 1.      | Nuclear Fuel Complex    | 2013-14            |                    |              |                    |                      | Not available          |                                |              |  |                         |
| 2.      | Heavy Water Board       | 2013-14            | 18,00,816.29       | 14,01,395.42 | 35,521.15          | 1,27,609.66          | (-)43,644.80           | 1,11,971.49                    | 68,326.69    | 4.88                                       | Figures are provisional |

**Appendix VI (Refer to Paragraph 1.10)****Statement of losses and irrecoverable dues written off/waived during 2013-14***(Amount in ₹ lakh)*

| Name of Ministry/<br>Department                  | Write off of losses and irrecoverable dues due to |        |                    |        |               |              |                    |               |                    |        |
|--|---|--------|--------------------|--------|---------------|--------------|--------------------|---------------|--------------------|--------|
|  | Failure of system                                 |        | Neglect/fraud etc. |        | Other reasons |              | Waiver of recovery |               | Ex-gratia Payments |        |
|  | No. of cases                                      | Amount | No. of cases       | Amount | No. of cases  | Amount       | No. of cases       | Amount        | No. of cases       | Amount |
| Department of Atomic Energy                      | -   | -      | -                  | -      | 22            | 12.03        | -                  | -             | -                  | -      |
| Department of Bio-Technology                     | Nil   |        |                    |        |               |              |                    |               |                    |        |
| Department of Science and Technology             | Nil   |        |                    |        |               |              |                    |               |                    |        |
| Department of Scientific and Industrial Research | Nil   |        |                    |        |               |              |                    |               |                    |        |
| Department of Space                              | -   | -      | -                  | -      | 7             | 0.37         | 20                 | 465.36        | -                  | -      |
| Ministry of Earth Sciences                       | Nil   |        |                    |        |               |              |                    |               |                    |        |
| Ministry of Environment and Forests              | Nil   |        |                    |        |               |              |                    |               |                    |        |
| Ministry of New and Renewable Energy             | Nil   |        |                    |        |               |              |                    |               |                    |        |
| Ministry of Water Resources                      | -   | -      | -                  | -      | 34            | 0.81         | -                  | -             | -                  | -      |
| <b>Total</b>                                     | -   | -      | -                  | -      | <b>63</b>     | <b>13.21</b> | <b>20</b>          | <b>465.36</b> | -                  | -      |

**Appendix VII (Refer Paragraph 1.12)**

Summarised position of the Action Taken Notes (ATNs) awaited from various Ministries/ Departments up to the year ended March 2014 as of March 2015- ATNs which have not been received from the Ministry/Department even for the first time

| Sl. No  | Report No. & Year | Paragraph No. | Para title  | Delay in submission of ATNs (in months) |
|---|-------------------|---------------|---|---|
| <b>DEPARTMENT OF ATOMIC ENERGY</b>                      |                   |               |   |   |
| 1.  | 13 of 2012-13     | 10.1          | Avoidable expenditure of ₹ 3.32 crore   | 28                                      |
| 2.  | 22 of 2013        | 2.2           | Hasty procurement of equipment without creating infrastructure facilities for installation                                      | 15                                      |
| 3.  | 27 of 2014        | 2.1           | Non-utilisation of equipment  | 1                                       |
| <b>DEPARTMENT OF SCIENCE AND TECHNOLOGY</b>             |                   |               |   |   |
| 4.  | 27 of 2014        | 3.1           | Fraudulent payment of legal fees  | 1                                       |
| 5.  | 27 of 2014        | 3.2           | Non-installation of equipment   | 1                                       |
| <b>DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> |                   |               |   |   |
| 6.  | 22 of 2013        | 4.1           | Public Private Partnership for setting up 'The Centre for Genomic Application' by Institute of Genomics and Integrative Biology | 15                                      |
| <b>DEPARTMENT OF SPACE</b>                              |                   |               |   |   |
| 7.  | 22 of 2014        | Stand alone   | Management of satellite capacity for DTH service by DOS   | 1                                       |
| 8.  | 27 of 2014        | 4.3           | Avoidable expenditure due to improper contract management   | 1                                       |
| <b>MINISTRY OF EARTH SCIENCES</b>                       |                   |               |   |   |
| 9.  | 27 of 2014        | 5.1           | National Data Buoy Project  | 1                                       |
| 10.   | 27 of 2014        | 5.2           | Irregular payment of gratuity   | 1                                       |
| <b>MINISTRY OF ENVIRONMENT AND FORESTS</b>              |                   |               |   |   |
| 11.   | 21 of 2013        | Stand alone   | Compensatory Afforestation in India   | 15                                      |
| 12.   | 22 of 2013        | 6.1           | Repeated unauthorized creation and up-gradation of posts by Central Pollution Control Board                                     | 15                                      |
| 13.   | 27 of 2014        | 6.2           | Inordinate delay in setting up of National Botanic Garden   | 1                                       |
| 14.   | 27 of 2014        | 6.4           | Non-establishment of model facilities for management of Municipal Solid Wastes  | 1                                       |

## Appendix VIII (Refer Paragraph 1.12)

Summarised position of the Action Taken Notes (ATNs) awaited from various Ministries/ Departments up to the year ended March 2014 as of March 2015- ATNs on which Audit has given comments/observations but revised ATNs have not been received

| Sl. No.   | Report No. & Year | Paragraph No. | Title  | Delay in submission of ATNs (in months) |
|---|-------------------|---------------|--|---|
| <b>DEPARTMENT OF ATOMIC ENERGY</b>                      |                   |               |  |   |
| 1.  | 5 of 1999         | 2.4           | Idle equipment   | 4                                       |
| 2.  | 5 of 2001         | 5.4           | Wasteful expenditure (Sl no. 5.19 to 5.22)   | 23                                      |
| 3.  | 5 of 2001         | 5.5           | Recovery at the instance of Audit (Sl no. 5.23 to 5.25)                                  | 17                                      |
| 4.  | 5 of 2002         | 9.1           | Avoidable expenditure due to negligence  | 17                                      |
| 5.  | CA 16 of 2008-09  | 2.5           | Non-establishment of world class gamma ray observatory                                   | 3                                       |
| 6.  | PA 19 of 2008     | Stand alone   | Management of Fuel for Pressurised Heavy Water Reactor (Front end of Nuclear Fuel Cycle) | 5                                       |
| 7.  | PA 13 of 2010-11  | Stand alone   | Procurement of Stores and Inventory Management   | 1                                       |
| 8.  | 22 of 2013        | 2.1           | Avoidable expenditure on compensation due to breach of agreement                         | 4                                       |
| <b>DEPARTMENT OF BIOTECHNOLOGY</b>                      |                   |               |  |   |
| 9.  | 5 of 2003         | 3.1           | DBT Review   | 136                                     |
| <b>DEPARTMENT OF SCIENCE AND TECHNOLOGY</b>             |                   |               |  |   |
| 10.   | 13 of 2007 (PA)   | 5.3           | Internal controls in DST   | 7                                       |
| 11.   | CA 16 of 2008-09  | 5.2           | Excess expenditure due to selective adoption of pay structure                            | 4                                       |
| 12.   | 22 of 2013        | 5.1           | Avoidable expenditure on hiring of office premises                                       | 4                                       |
| <b>DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> |                   |               |  |   |
| 13.   | 6 of 1996         | 5.2           | Review on Central Road Research Institute  | 14                                      |
| 14.   | 6 of 1996         | 5.8           | Extra expenditure for unconsumed power   | 7                                       |
| 15.   | 5 of 1998         | 2.4           | Loss due to defective agreement  | 23                                      |
| 16.   | 5 of 1999         | 4.4           | Extra expenditure due to defective design  | 12                                      |
| 17.   | 5 of 2001         | 3.2           | National Institute of Oceanography   | 26                                      |
| 18.   | 5 of 2005         | 6.1           | Wasteful expenditure   | 95                                      |
| 19.   | 5 of 2005         | 10.2          | Non-installation of Fermentation System  | 12                                      |
| 20.   | 2 of 2007 (TA)    | 13.1          | Non-recovery of Service Tax  | 18                                      |
| 21.   | CA 16 of 2008-09  | 4.1           | Non-recovery of dues from private company on short closure of the project                | 57                                      |
| 22.   | CA 16 of 2008-09  | 4.2           | Recovery of dues at the instance of Audit  | 44                                      |

| Sl. No.                                    | Report No. & Year | Paragraph No. | Title  | Delay in submission of ATNs (in months) |
|--|-------------------|---------------|--|---|
| 23.  | CA 16 of 2008-09  | 4.5           | Development of technologies on batteries/cells and their commercialisation by Central Electro Chemical Research Institute, Karaikudi | 1                                       |
| 24.  | 29 of 2013        | Standalone    | Network Projects of Council of Scientific and Industrial Research for Tenth Five Year Plan   | 2                                       |
| <b>DEPARTMENT OF SPACE</b>                 |                   |               |  |   |
| 25.  | 9 of 2006 (PA)    | 5             | Non Tax Receipts   | 9                                       |
| 26.  | 22 of 2013        | 3.1           | EDUSAT Utilisation Programme   | 10                                      |
| <b>MINISTRY OF EARTH SCIENCES</b>          |                   |               |  |   |
| 27.  | 2 of 2007 (TA)    | 5.1           | Wasteful expenditure   | 28                                      |
| 28.  | CA 3 of 2008      | 7.1           | Non-achievement of the objectives of modernizing the Accounting and Personnel Management functions                                   | 26                                      |
| 29.  | CA 16 of 2008-09  | 7.1           | Construction of residential quarters and hostel units without demand   | 7                                       |
| 30.  | 22 of 2013        | 8.1           | Irregular introduction of pension scheme and diversion of funds  | 7                                       |
| <b>MINISTRY OF ENVIRONMENT AND FORESTS</b> |                   |               |  |   |
| 31.  | 3B of 2001        | 1.0           | Implementation of environment act relating to water pollution  | 19                                      |
| 32.  | 5 of 2002         | 3.1           | Review of Zoological Survey of India   | 1                                       |
| 33.  | CA 16 of 2008-09  | 6.2           | Inadmissible payment of Transport Allowance  | 35                                      |

## Appendix IX (Refer to Paragraph 2.1.2.2 (ii))

### Procurement cases in which high lead time was taken for fulfillment

#### A. Mod lab Zonal Stores

| Sl. No. | Goods Receipt No. | Zone Goods Receipt No. | Zone Goods Receipt Date | Zone Receipt Voucher Clearance Date | Lead Time    |
|---------|-------------------|------------------------|-------------------------|-------------------------------------|--------------|
| 1.      | 6565/07           | 07/4588                | 27-Nov-2007             | 17-Sep-2010                         | 1,025        |
| 2.      | 08/7442           | 08/4384                | 17-Dec-2008             | 16-Nov-2010                         | 699          |
| 3.      | 09/862            | 09/774                 | 6-May-2009              | 3-Mar-2011                          | 666          |
| 4.      | 09/886            | 09/770                 | 6-May-2009              | 10-Nov-2010                         | 553          |
| 5.      | 09/186            | 09/325                 | 20-April-2009           | 21-Jun-2010                         | 427          |
| 6.      | 09/2162           | 09/1561                | 22-Jun-2009             | 25-Jun-2010                         | 368          |
| 7.      | 09/4231           | 09/2831                | 27-Aug-2009             | 28-Aug-2010                         | 366          |
| 8.      | 09/2591           | 09/1937                | 7-Jul-2009              | 1-Jul-2010                          | 359          |
| 9.      | 09/5935           | 09/3754                | 27-Oct-2009             | 9-Oct-2010                          | 347          |
| 10.     | 09/6076           | 09/3798                | 28-Oct-2009             | 9-Oct-2010                          | 346          |
| 11.     | 09/1910           | 09/1549                | 19-Jun-2009             | 26-Apr-2010                         | 311          |
| 12.     | 10/519            | 10/424                 | 27-Apr-2010             | 4-Mar-2011                          | 311          |
|         |                   |                        |                         | <b>Total lead time</b>              | <b>5,778</b> |

#### B. Receipt Zonal Stores

| Sl. No. | Goods Receipt No. | Purchase Order No. | Receipt Voucher Date | Receipt Voucher Clearance Date | Lead Time     |
|---------|-------------------|--------------------|----------------------|--------------------------------|---------------|
| 1.      | 8676/09           | 6609/FE            | 21-Jan-2010          | 10-Dec-2010                    | 323           |
| 2.      | 6773/09           | 6618               | 19-Nov-2009          | 25-Oct-2010                    | 340           |
| 3.      | 7883/09           | 190874             | 29-Dec-2009          | 10-Dec-2010                    | 346           |
| 4.      | 1989/09           | 6908               | 15-Jun-2009          | 16-Aug-2010                    | 427           |
| 5.      | 4636/09           | 192161             | 7-Sep-2009           | 31-Jan-2011                    | 511           |
| 6.      | 6254/08           | 5968               | 6-Nov-2008           | 27-Jul-2010                    | 628           |
| 7.      | 6255/08           | 5988               | 6-Nov-2008           | 27-Jul-2010                    | 628           |
| 8.      | 6816/08           | 6374               | 24-Nov-2008          | 17-Jan-2011                    | 784           |
| 9.      | 3100/08           | 186477/FE          | 18-Jul-2008          | 15-Dec-2010                    | 880           |
| 10.     | 162/06            | 4467               | 10-Apr-2006          | 27-Jul-2010                    | 1,569         |
| 11.     | 5633/05           | 4467               | 4-Oct-2005           | 27-Jul-2010                    | 1,757         |
| 12.     | 620/05            | 4467               | 26-Apr-2005          | 27-Jul-2010                    | 1,918         |
|         |                   |                    |                      | <b>Total lead time</b>         | <b>10,111</b> |

**C. Vashi Zonal Stores**

| Sl. No. | Goods Receipt No. | Purchase Order No. | Receipt Voucher No. | Goods Receipt Date     | Receipt Voucher Clearance Date | Lead Time    |
|---------|-------------------|--------------------|---------------------|------------------------|--------------------------------|--------------|
| 1.      | 4636/09           | 192161             | 133954              | 07-Sep-2009            | 1-Feb-2011                     | 512          |
| 2.      | 4913/09           | 6705               | 134225              | 16-Sep-2009            | 30-Jun-2010                    | 287          |
| 3.      | 6736/09           | 6705               | 136008              | 19-Nov-2009            | 30-Jun-2010                    | 223          |
| 4.      | 6773/09           | 6618               | 136044              | 19-Nov-2009            | 26-Oct-2010                    | 341          |
| 5.      | 7883/09           | 190874             | 137278              | 29-Dec-2009            | 16-Dec-2010                    | 352          |
| 6.      | 8365/09           | 9611               | 137752              | 12-Jan-2010            | 3-Jun-2010                     | 142          |
| 7.      | 8676/09           | 6609/FE            | 138057              | 21-Jan-2010            | 16-Dec-2010                    | 329          |
| 8.      | 8777/09           | 193391             | 138156              | 27-Jan-2010            | 21-Jul-2010                    | 175          |
| 9.      | 9396/09           | 6923               | 138774              | 15-Feb-2010            | 28-May-2010                    | 102          |
| 10.     | 9466/09           | 7037               | 138842              | 17-Feb-2010            | 1-May-2010                     | 73           |
| 11.     | 9673/09           | 6883               | 139049              | 24-Feb-2010            | 8-Jun-2010                     | 104          |
| 12.     | 10006/09          | 7071               | 139377              | 5-Mar-2010             | 8-Jun-2010                     | 95           |
| 13.     | 10032/09          | 6867               | 139403              | 8-Mar-2010             | 17-Apr-2010                    | 40           |
| 14.     | 10104/09          | 194859             | 139474              | 9-Mar-2010             | 1-May-2010                     | 53           |
| 15.     | 10106/09          | 6911               | 139476              | 9-Mar-2010             | 8-Jun-2010                     | 91           |
| 16.     | 10259/09          | 7015               | 139628              | 15-Mar-2010            | 28-Aug-2010                    | 166          |
|         |                   |                    |                     | <b>Total lead time</b> |                                | <b>3,085</b> |

**Appendix X (Refer to Paragraph 2.1.2.3 (ii))****Details of delayed projects that were awarded points in assessment report of Heavy Water Board for Performance Related Incentive Scheme-Group**

| Sl. No.                       | Group                   | Name of project   | Scheduled date of completion            | Actual date of completion      | Delay (months) | Points awarded |
|-------------------------------|-------------------------|---|---|--------------------------------|----------------|----------------|
| <b>ASSESSMENT FOR 2009-10</b> |                         |   |   |                                |                |                |
| 1.                            | HWPB                    | Setting up of VSPP facility at HWP (Talcher)  | March 2007                              | June 2009                      | 27             | 3              |
| 2.                            |                         | Setting up of Scale -up TBP production facility at HWP (Baroda)                                     | December 2008                           | Ongoing as of March 2011       | 27             | 3              |
| 3.                            |                         | Establishment of ion Chromatography process for production of Enriched Boron at HWP (Manuguru)      | December 2008                           | End of 2009-10                 | 15             | 3              |
| 4.                            |                         | Technology Demonstration Plant (TDP) for extraction of Uranium from Phosphoric Acid at RCF, Chembur | January 2007, revised as September 2008 | Not completed as of March 2010 | 18             | 9              |
| 5.                            |                         | Heavy Water Clean-up Facility (HEWAC)   | August 2005, revised as October 2006.   | Not completed as of March 2010 | 41             | 6              |
| <b>TOTAL</b>                  |                         |   |   |                                |                | <b>24</b>      |
| <b>ASSESSMENT FOR 2010-11</b> |                         |   |   |                                |                |                |
| 6.                            | HWP, Manuguru (Group-1) | Construction of Liaison Office and Guest House at Hyderabad,  | July 2010                               | May 2011                       | 10             | 1              |
|                               |                         | Construction of 153 "D Type" quarters at HWP(M) colony  | December 2009                           | June 2010                      | 6              | 1              |
|                               |                         | Construction of 50 Efficiency Apartments and 30 E Type quarters at HWP(M) colony                    | December 2009                           | September 2011                 | 21             | 1              |
| 7.                            | HWP, Kota (Group-2)     | Solar based steam generation system   | July 2008                               | Ongoing as of March 2011       | 32             | 1              |
|                               |                         | Storage shed for 2000 D20 drums of 200 litres capacity  | January 2010                            | Ongoing as of March 2011       | 14             | 1              |

| Sl. No.      | Group                  | Name of project   | Scheduled date of completion  | Actual date of completion | Delay (months) | Points awarded |
|--------------|------------------------|---|---|---------------------------|----------------|----------------|
|              |                        | DCS for Water Treatment Plant   | December 2009   | Ongoing as of March 2011  | 15             | 1              |
| 8.           | HWP, Baroda (Group-3)  | Commissioning of Tri Butyl Phosphate Plant                            | January 2009  | Ongoing as of March 2011  | 26             | 20             |
|              |                        | Production of Tri Butyl Phosphate                                     |   | Ongoing as of March 2011  | 26             | 10             |
|              |                        | Hydrogen Water Exchange Catalyst Test facility                        | First set of sample by December 2008 and HP catalyst testing unit by February 2009. | Ongoing as of March 2011  | 25             | 4              |
| 9.           | HWP, Talcher (Group-5) | VSPC Commissioning  | March 2007  | September 2010            | 42             | 8              |
|              |                        | IETP Commissioning, trial operation and processing                    | April 2008  | April 2010                | 24             | 6              |
|              |                        | CCR mechanical completion and commissioning                           | August 2009   | November 2010             | 15             | 3              |
| 10.          | HWB, Mumbai (Group-6)  | Developmental work of Heavy Water Clean-up Facility (HEWAC)           | October 2006  | Ongoing as of March 2011  | 53             | 4              |
|              |                        | Dry Ash Collection, segregation and storage facility at HWP, Manuguru | December 2008   | Ongoing as of March 2011  | 27             | 4              |
|              |                        | Steam Turbine Generator at HWP, Manuguru                              | January 2009  | Ongoing as of March 2011  | 26             | 4              |
|              |                        | Housing colony at HWP, Manuguru                                       | December 2009   | Ongoing as of March 2011  | 15             | 3              |
|              |                        | Liaison Office and Guest House at Hyderabad                           | July 2010   | Ongoing as of March 2011  | 8              | 1              |
| <b>TOTAL</b> |                        |   |   |                           |                | <b>73</b>      |

## Appendix XI (Refer to Paragraph 2.1.2.4 (iii))

### Cases in Directorate of Construction and Estate Management in which incorrect performance assessment was made during 2010-11

| Sl. No.                          | Name of Work   | Targets   | Achievement reported  | Points awarded | Remarks  |
|----------------------------------|--|---|---|----------------|--|
| <b>PLANNING AND DESIGN GROUP</b> |  |   |   |                |  |
| 1                                | Construction of Hostel for trainees of HBNI/BARC- Phase-I                                    |   |   |                |  |
|                                  | Construction of main building Ph-I   | Main work order to be issued.   | Main works Phase1, work order issued  | 4.5            | <ul style="list-style-type: none"> <li>Work order for main works Phase-1 was issued only in April 2012 but it was shown as issued during 2010-11.</li> <li>Statutory approvals were partially obtained and therefore the target was not achieved.</li> <li>Application for IOD was completed in 2009-10.</li> </ul>  |
|                                  |  | Statutory approval to be obtained.  | Statutory approval partly obtained.   |                |  |
|                                  |  | Structural Design up 5 <sup>th</sup> floor to be completed.   | Structural Design completed.  |                |  |
|                                  | Construction of Phase-II building  | Design, estimating to be completed.   | Design, estimating completed.   |                | Therefore the assessment was incorrect.  |
|                                  |  | Application for Intimation of Disapproval to be made.   | Application for Intimation of Disapproval made.   |                |  |
| 2                                | National Institute of Scientific Education and Research, Bhubaneswar - works                 |   |   |                |  |
|                                  | Construction of Main campus at Jatni   | Main campus tender to be finalised, Review/checking of design, drawings to be completed. Work order to be issued. | Main campus tender finalised, Review/checking of design, drawings completed. Approval from DAE awaited for issue of work order. | 5.75           | The work order was actually issued in July 2011. Therefore the assessment was incorrect.   |
| 3                                | Construction of Variable Energy Cyclotron Centre, Kolkata                                    |   |   |                |  |
|                                  | Medical Cyclotron  | Review of design/drawings with progress of work.  | Review of design/drawings with progress of work.  | 17             | <ul style="list-style-type: none"> <li>Construction of Medical Cyclotron and its ancillary building was already badly delayed as it was to be completed by June 2009. Target was assigned for finalisation of design and drawings which is a preliminary work.</li> <li>The target for 'Design &amp; drawings for tender to be completed and estimate to be made' was shown as achieved fully. But the Security Gate tender process and fire station tender process was</li> </ul> |
|                                  | Radioactive Ion Beam facility building   | Radioactive Ion Beam building tender to be finalised. Design and drawings to be completed.                        | Radioactive Ion Beam building tender finalised. Design and drawings completed.  |                |  |
|                                  | Security Gate, Anunet building National Knowledge Centre, fire station, connecting corridor. | Design and drawings for tender proposed to be completed. Estimate to be made.                                     | Design and drawings for tender proposed completed. Estimate made.   |                |  |

| Sl. No.                | Name of Work   | Targets   | Achievement reported  | Points awarded | Remarks   |
|------------------------|--|---|---|----------------|---|
|                        | Computer and Information Building                                    | Design and drawings for tendering to be completed.<br>Estimate to be completed.<br>Tendering action to be taken up. | Design and drawings for tendering completed.<br>Estimate completed.<br>Tendering action taken up. |                | finalised only in October 2011 and August 2011.<br><ul style="list-style-type: none"> <li>Report on retro-fitting scheme was submitted to AERB only in June 2011.</li> </ul> Therefore the assessment was incorrect.  |
|                        | Engineering Hall, Infrastructure building, ADSS building.            | Design, drawings for tender to be completed.  | Design, drawings for tender completed.  |                |   |
|                        | Retro-fitting of super conducting cyclotron building                 | Retro-fitting scheme to be submitted to AERB for approval.  | Retro-fitting scheme submitted to AERB for approval.  |                |   |
| <b>TOTAL POINTS</b>    |  |   |   | <b>27.25</b>   |   |
| <b>EXECUTION GROUP</b> |  |   |   |                |   |
| 1                      | Construction of Convention Centre Complex at Anushaktinagar          | 22% of Main works to be completed.  | 24% of Main works completed.  | 15             | Only 15 <i>per cent</i> of Main works was completed.  |
| 2                      | Construction of Hostel for trainees' of HBNI/BARC-main building Ph-I | 10%   | 5%  | 3              | Target was not achieved.  |
| 3                      | Construction of Quarters for CISF at Anushaktinagar                  |   |   |                |   |
|                        | Construction of Substation and development works.                    | 100%  | 100%  | 6              | Construction of Substation was already delayed as it was to be completed by February 2010. Only eight <i>per cent</i> work of construction of main building was completed.  |
|                        | Construction of Main building  | 10%   | 10%   |                |   |
| 4                      | Aquatic and Athletic facility at Anushaktinagar                      |   |   |                |   |
|                        | Development works  | 100%  | 85%   | 3.75           | Only 70 <i>per cent</i> (Development works) and 60 <i>per cent</i> (Filtration Plant) work was completed.   |
|                        | Filtration Plant   | 95%   | 70%   |                |   |
| 5                      | Miscellaneous work   |   |   |                |   |
|                        | Construction Drywell   | 60%   | 10%   | 3.50           | <ul style="list-style-type: none"> <li>Targets were not achieved.</li> <li>According to the activities assigned to different groups, design and tender processing activity was to be carried out by Planning and Design Group and not by Execution Group.</li> <li>No progress was recorded in respect of work of Canadian Bungalow.</li> </ul> |
|                        | Fire fighting pumping system   | 10%<br>Tendering work to be finalised.  | 3%<br>Tender being called for.  |                |   |
|                        | Canadian Bungalow  | 80%   | 80%   |                |   |
|                        | Molybdenum facility for BRIT at BARC                                 | Geo-technical investigation to be completed.  | Geo-technical investigation completed.  |                |   |

| Sl. No.                              | Name of Work   | Targets | Achievement reported  | Points awarded | Remarks   |
|--------------------------------------|--|---------|---|----------------|---|
| 6                                    | Integrated Facility for radiation Technology Project at BRIT, Vashi.       |         |   |                |   |
|                                      | Civil works  | 100%    | 100%  | 6              | <ul style="list-style-type: none"> <li>Civil Work was awarded in December 2007 and was required to be completed by April 2009. Electric work was to be completed by December 2009. The work was already delayed.</li> <li>Erection and commissioning of EOT crane was required to be completed by January 2011. Target for 2010-11 was set on lower side.</li> </ul>  |
|                                      | Electrical Works   | 100%    | 100%  |                |   |
|                                      | EOT Crane-1  | 80%     | 80%   |                |   |
|                                      | EOT Crane-2  | 50%     | 50%   |                |   |
|                                      | HVAC work  | 50%     | 50%   |                |   |
|                                      |  |         |   |                |   |
| 7                                    | National Institute of Scientific Education and Research, Bhubaneswar Works |         |   |                |   |
|                                      | Substation Building  | 100%    | 100%  | 16.5           | <ul style="list-style-type: none"> <li>Works of construction of substation was awarded in August 2009 and was required to be completed by May 2010. Construction of Quarters and Girls Hostel was required to be completed by March 2010. Electrical works for substation was required to be completed by December 2010. All works were already delayed.</li> <li>Only 90 <i>per cent</i> work of Dining facility was completed.</li> <li>Target for construction of main campus was not achieved.</li> </ul> |
|                                      | Construction of V-E Quarters and Girls Hostel                              | 100%    | 100%  |                |   |
|                                      | Dining facility  | 100%    | 100%  |                |   |
|                                      | Sub-station equipments   | 100%    | 100%  |                |   |
|                                      | Construction of Main Campus at Jatni                                       | 5%      | Tender finalized, DAE approval for issue of work order awaited. |                |   |
|                                      |  |         |   |                |   |
| 8                                    | Construction for Variable Energy Cyclotron Centre                          |         |   |                |   |
|                                      | Medical Cyclotron centre   | 35%     | 40%   | 4.5            | <p>Construction of Medical Cyclotron was required to be completed in June 2009. The work was already delayed and target of only 35 <i>per cent</i> was set.</p> <p>Only three <i>per cent</i> work of RIB facility building was completed. Target of computer and information building was not achieved.</p>  |
|                                      | Radiation Ion Beam facility Building                                       | 50%     | 50%   |                |   |
|                                      | Computer and Information Building  | 30%     | Tender in Process   |                |   |
|                                      |  |         |   |                |   |
| <b>TOTAL POINTS</b>                  |  |         |   | <b>58.25</b>   |   |
| <b>ENGINEERING SERVICES DIVISION</b> |  |         |   |                |   |
| 1                                    | Attending day to day routine complaints                                    | 92%     | 92%   | 7              | Out of 12 numbers of Annual maintenance repairing works considered for purpose of setting of targets, Audit test checked six contracts and found that none of the works were completed in scheduled time.   |

| Sl. No.             | Name of Work  | Targets      | Achievement reported | Points awarded | Remarks   |
|---------------------|---|--------------|----------------------|----------------|---|
| 2                   | Arresting leakages (terrace, end wall, upper floor bathroom & shaft leakages) | 65% to 90%   | 65% to 90%           | 5              | Of 11 cases of water proof works considered for setting of targets, Audit test checked six water proof works and found that none of the works were completed in scheduled time.                   |
| 3                   | Structural repairs and external painting                                      | 9% to 100%   | 4% to 100%           | 9              | Of the 12 cases of structural repairs and external painting considered for setting of target only one was completed in scheduled time.  |
| 4                   | Infrastructure development  | 70% to 100%  | 85% to 100%          | 6              | None of the three Infrastructure developments works considered for setting of targets were completed in scheduled time.   |
| 5                   | Cosmetic maintenance  | 85%          | 85%                  | 4.5            | None of the six cosmetic maintenance works considered for setting of targets were completed in scheduled time.  |
| 6                   | Attending to daily complaints   | 100 %        | 100 %                | 7.5            | No targets for attending to daily complaints were actually set.   |
| 7                   | Maintaining External Electrical services                                      | 10 % to 100% | 10 % to 100%         | 6.5            | Of 57 minor works/renovation works considered for setting of target test check of 18 works revealed that none of the works were completed in schedule time.                                       |
| 8                   | Automation and access control works   | 10 % to 100% | 10 % to 100%         | 2              | Four cases of Automation and access control works were considered for setting of targets. Test check of two cases revealed that there was a delay of more than two years for completion of works. |
| 9                   | Up-gradation of services  | 10 % to 100% | 10 % To 100%         | 18.5           | Of 34 works of restoration, renovation and up-gradation considered for setting of target 17 cases were test checked and it was found that none of the works were completed within scheduled time. |
| <b>TOTAL POINTS</b> |   |              |                      | <b>66</b>      |   |

### Appendix XII (Refer to Paragraph 3.1.2)

#### Details of 19 projects under Drugs and Pharmaceutical Research Programme examined in audit

| Sl. No. | Name of the industry partner                      | Name of the project   | Date of Sanctioning of Project | Sanctioned date of completion (extended date) | Project cost | DST share (loan) | Loan released | Project status (completed/foreclosed) |
|---------|---|---|--------------------------------|---|--------------|------------------|---------------|---------------------------------------|
| 1.      | Bharat Serums and Vaccines Limited, Mumbai        | Development of a commercially viable manufacturing process of monoclonal tetanus immunoglobulin (mTIG) expressed in recombinant Chinese Hamster Ovary (CHO) cell line   | March 2006                     | March 2009 (March 2011)                       | 20.03        | 10.00            | 7.07          | Foreclosed                            |
| 2.      | Bigtech Pvt. Ltd., Bengaluru                      | Development of a high yielding Recombinant Human Insulin strain & Process lead to commercialization   | December 2006                  | December 2008 (December 2009)                 | 3.87         | 1.92             | 1.92          | Completed                             |
| 3.      | Biological E. Ltd., Hyderabad                     | Development of a tetravalent dengue vaccine by using a combination of 30 deletion mutant and chimeric constructs of DEN-1, DEN-2, DEN-3 and DEN-4 viruses against dengue infections   | March 2005                     | March 2007 (March 2008)                       | 13.77        | 4.75             | 4.75          | Completed                             |
| 4.      | Cadila Pharmaceuticals Ltd., Ahmedabad            | Development of Therapeutic Vaccine for Pancreatic Cancer  | October 2007                   | October 2009                                  | 14.05        | 7.02             | 7.02          | Completed                             |
| 5.      | Cadila Pharmaceuticals Ltd., Ahmedabad            | Development of new generation therapeutic and prophylactic Hepatitis B vaccines   | March 2006                     | March 2007                                    | 3.20         | 1.50             | 1.50          | Completed                             |
| 6.      | Chembiotek Research International Private Limited | Discovery and Development of novel inhibitors of Undercaprenyl Pyrophosphate Synthase (UPPs)  | May 2007                       | May 2010 (March 2011)                         | 22.03        | 11.00            | 11.00         | Completed                             |
| 7.      | Indigene Pharmaceuticals Pvt. Ltd, Hyderabad      | Clinical development of prioritized drug candidates through Phase-C. To develop and deliver innovative, safe and effective plant derived Natural Molecular Combinations (NMC) based drugs to address the unmet medical and market needs | October 2007                   | October 2008                                  | 24.95        | 14.95            | 14.95         | Completed                             |

| Sl. No.      | Name of the industry partner                  | Name of the project   | Date of Sanctioning of Project | Sanctioned date of completion (extended date) | Project cost  | DST share (loan) | Loan released | Project status (completed/foreclosed) |
|--------------|---|---|--------------------------------|---|---------------|------------------|---------------|---------------------------------------|
| 8.           | Institute of Molecular Medicine, Kolkata      | RNAi approach for the Gene silencing of HIV-1" (The SyneRgy Project)  | March 2006                     | March 2009                                    | 24.50         | 12.25            | 10.00         | Completed                             |
| 9.           | Mediclone Biotech Private limited, Chennai    | Development and manufacturing of Anti-Rabies Monoclonal Antibody (MAb) cocktail and Immunodiagnostic MAb for Rabies Virus Detection   | March 2008                     | March 2011                                    | 18.81         | 11.27            | 10.22         | Completed                             |
| 10.          | Promed Exports Pvt. Ltd, New Delhi            | Formulation development, stability studies, pre-clinical and clinical studies of anti-cataract eye drops for applying the technology and innovation in effective prevention and treatment of cataract by bringing the drug to commercialization stage | March 2005                     | March 2008                                    | 10.84         | 5.00             | 4.00          | Completed                             |
| 11.          | Strides Arco lab Limited, Bengaluru (Medegne) | Development of Novel Recombinant Staphylokinase for the treatment of cardiovascular disease   | December 2006                  | December 2009                                 | 8.19          | 4.08             | 0.89          | Foreclosed                            |
| 12.          | Ranbaxy Laboratories Ltd., Gurgaon            | A novel muscarinic receptor antagonist for chronic obstructive pulmonary disease  | August 2006                    | August 2009                                   | 12.30         | 6.15             | 4.70          | Foreclosed                            |
| 13.          | Ranbaxy Laboratories Ltd., Gurgaon            | A novel phosphodiesterase-4B inhibitor for Chronic Obstructive Pulmonary disease  | July 2007                      | July 2010                                     | 12.30         | 6.15             | 4.95          | Foreclosed                            |
| 14.          | Thirteen Herbs and Cure, New Delhi            | Development of an indigenous immuno-restorative herbal formulation P–JyotiAmritam for HIV/AIDS  | March 2008                     | March 2010                                    | 3.41          | 1.70             | 1.11          | Completed                             |
| 15.          | Sudershan Biotech Ltd., Hyderabad             | Production of para-hydroxyphenyl glycine (PHPG) using Hydantoinase and carbamoylase enzymes cloned E.coli   | March 2006                     | March 2009                                    | 3.93          | 1.96             | 1.96          | Completed                             |
| 16.          | ABL Biotechnologies Limited, Chennai          | C-Phycocyanin in COX-2 inhibition and diagnostic  | February 2006                  | February 2009 (February 2010)                 | 8.29          | 4.00             | 4.00          | Completed                             |
| 17.          | Promed Exports Pvt. Ltd., New Delhi           | Formulation, development, stability studies, pre-clinical and clinical studies of anti-glaucoma herbal eye drops  | March 2007                     | March 2010                                    | 8.08          | 4.02             | 2.05          | Completed                             |
| 18.          | Cellmax Pharma Limited, Aligarh               | Development of commercially viable recombinant product and diagnostics kits   | January 2008                   | January 2011                                  | 8.74          | 4.34             | 2.00          | Completed                             |
| 19.          | Microtest Innovations Pvt. Ltd., Bengaluru    | Development of a cost effective viral load assay and its commercial application in monitoring drug efficacy in HIV/AIDS   | December 2005                  | December 2007 (December 2008)                 | 2.37          | 1.18             | 1.18          | Completed                             |
| <b>Total</b> |   |   |                                |   | <b>223.66</b> | <b>113.24</b>    | <b>95.27</b>  |                                       |

**Appendix XIII (Refer to Paragraph 3.1.2.4 (ii))****Details of outstanding utilisation certificates in projects implemented under Drugs and Pharmaceutical Research Programme***(₹ in crore)*

| Sl. No | Name of the project  | Name of the industry partner                      | No. of UCs outstanding | Amount | Amount Released in           | UC pending since            | Delay as of August 2014 (months) |
|--------|--|---|------------------------|--------|------------------------------|-----------------------------|----------------------------------|
| 1.     | Development of a high yielding Recombinant Human Insulin strain & Process lead to commercialisation  | Bigtec Pvt. Ltd., Bengaluru                       | 2                      | 0.98   | December 2006<br>August 2008 | January 2008<br>August 2009 | 80 months<br>61 months           |
| 2.     | Development of a tetravalent dengue vaccine by using a combination of 30 deletion mutant and chemeric constructs of DEN-1, DEN-2, DEN-3 and DEN- viruses against dengue infections 4 | Biological E. Ltd., Hyderabad                     | 2                      | 4.75   | April 2005<br>April 2006     | April 2006<br>April 2007    | 111 months<br>89 months          |
| 3.     | Discovery and Development of novel inhibitors of Undercaprenyl Pyrophosphate Synthase (UPPs)   | Chembiotek Research International Private Limited | 1                      | 3.38   | March 2010                   | March 2011                  | 42 months                        |
| 4.     | Development of a cost effective viral load assay and its commercial application in monitoring drug efficacy in HIV/AIDS  | Microtest Innovations Pvt. Ltd., Bengaluru        | 1                      | 0.28   | April 2008                   | April 2009                  | 65 months                        |

| Sl. No       | Name of the project  | Name of the industry partner        | No. of UCs outstanding | Amount       | Amount Released in          | UC pending since            | Delay as of August 2014 (months) |
|--------------|--|-------------------------------------|------------------------|--------------|-----------------------------|-----------------------------|----------------------------------|
| 5.           | Formulation, development, stability studies, pre-clinical and clinical studies of anti-glaucoma herbal eye drops | Promed Exports Pvt. Ltd., New Delhi | 2                      | 1.31         | April 2007<br>November 2009 | April 2008<br>November 2010 | 77 months<br>45 months           |
| 6.           | Production of para-hydroxyphenyl glycine (PHPG) using Hydantoinase and carbamoylase enzymes cloned E.coli        | Sudershan Biotech Ltd., Hyderabad   | 1                      | 0.39         | December 2008               | December 2009               | 57 months                        |
| <b>TOTAL</b> |  |                                     | <b>09</b>              | <b>11.09</b> |                             |                             |                                  |

**Appendix XIV (Refer to Paragraph 3.1.2.5)****Details of meetings of Project Monitoring Committee for projects implemented under Drugs and Pharmaceutical Research Programme**

| Name of the industry partner                  | Name of the project   | Project duration (extended)                                 | Frequency of MC meeting fixed, as per agreement | Number of PMC meetings to be held | Number of PMC meetings held | Period during which no monitoring by PMC was done due to non-conduct of meeting |
|---|---|---|---|-----------------------------------|-----------------------------|---|
| 1. ABL Biotechnologies Limited, Chennai       | C-Phycocyanin in COX-2 inhibition and diagnostic.   | 48 months<br>February 2006 to February 2009 (February 2010) | Annual  | 4                                 | 2                           | 12 months<br>March 2009 to February 2010  |
| 2. Bharat Serums and Vaccines Limited, Mumbai | Development of a commercially viable manufacturing process of monoclonal tetanus immunoglobulin (mTIG) expressed in recombinant Chinese Hamster Ovary (CHO) cell line               | 60 months, March 2006 to March 2009 (March 2011)            | Annual  | 5                                 | 1                           | 61 months<br>July 2007 to March 2011  |
| 3. Bigtech Pvt. Ltd. Bengaluru                | Development of a high yielding Recombinant Human Insulin strain & Process lead to commercialization   | 36 months<br>December 2006 to December 2008 (December 2009) | Annual  | 3                                 | 1                           | 45 months<br>June 2008 to December 2009   |
| 4. Biological E. Ltd. Hyderabad               | Development of a tetravalent dengue vaccine by using a combination of 30 deletion mutant and chimeric constructs of DEN-1, DEN-2, DEN-3 and DEN-4 viruses against dengue infections | 36 months<br>March 2005 to March 2007 (March 2008)          | Bi-annual                                       | 6                                 | 2*                          | 9 months<br>July 2007 to March 2008   |
| 5. Cadila Pharmaceuticals Ltd., Ahmedabad     | Development of Therapeutic Vaccine for Pancreatic Cancer  | 24 months<br>October 2007 to October 2009                   | Annual  | 2                                 | 1                           | 12 months<br>November 2008 to October 2009                                      |
| 6. Cadila Pharmaceuticals Ltd., Ahmedabad     | Development of new generation therapeutic and prophylactic Hepatitis B vaccines   | 12 months<br>March 2006 to March 2007                       | Bi-annual                                       | 2                                 | 1                           | 5 months<br>November 2006 to March 2007   |
| 7. Cellmax Pharma Limited                     | Development of commercially viable recombinant product and diagnostics kits   | 36 months<br>January 2008 to January 2011                   | Bi-annual                                       | 6                                 | 1                           | 25 months<br>December 2008 to January 2011                                      |

| Name of the industry partner                         | Name of the project   | Project duration (extended)                                    | Frequency of MC meeting fixed, as per agreement | Number of PMC meetings to be held | Number of PMC meetings held | Period during which no monitoring by PMC was done due to non-conduct of meeting |
|--|---|--|---|-----------------------------------|-----------------------------|---|
| 8. Chembiotek Research International Private Limited | Discovery and Development of novel inhibitors of Undercaprenyl Pyrophosphate Synthase (UPPs)  | 47 months<br>May 2007 to May 2010<br>(March 2011)              | Annual  | 4                                 | 2*                          | 14 months<br>February 2010 to March 2011  |
| 9. Indigene Pharmaceuticals Pvt. Ltd, Hyderabad      | Clinical development of prioritized drug candidates through Phase-C. To develop and deliver innovative, safe and effective plant derived Natural Molecular Combinations (NMC) based drugs to address the unmet medical and market needs               | 12 months<br>October 2007 to October 2008                      | Bi-annual                                       | 2                                 | 1                           | 5 months<br>June 2008 to October 2008   |
| 10. Institute of Molecular Medicine, Kolkata         | RNAi approach for the Gene silencing of HIV-1" (The SyneRgy Project)  | 36 months<br>March 2006 to March 2009                          | Annual  | 3                                 | 2                           | 6 months<br>October 2008 to March 2009  |
| 11. Mediclone Biotech Private limited, Chennai       | Development and manufacturing of Anti-Rabies Monoclonal Antibody (MAb) cocktail and Immunodiagnostic MAb for Rabies Virus Detection   | 36 months<br>March 2008 to March 2011                          | Annual  | 3                                 | 1                           | 17 months<br>November 2009 to March 2011  |
| 12. Microtest Innovations Pvt. Ltd., Bengaluru       | Development of a cost effective viral load assay and its commercial application in monitoring drug efficacy in HIV/AIDS   | 36 months<br>December 2005 to December 2007<br>(December 2008) | Bi-annual                                       | 6                                 | 1                           | 11 months<br>February 2008 to December 2008                                     |
| 13. Promed Exports Pvt. Ltd, New Delhi               | Formulation development, stability studies, pre-clinical and clinical studies of anti-cataract eye drops for applying the technology and innovation in effective prevention and treatment of cataract by bringing the drug to commercialization stage | 36 months<br>March 2005 to March 2008                          | Bi-annual                                       | 6                                 | 2*                          | 8 months<br>August 2007 to March 2008   |
| 14. Promed Exports Pvt. Ltd. New Delhi               | Formulation, development, stability studies, pre-clinical and clinical studies of anti-glaucoma herbal eye drops  | 36 months<br>March 2007 to March 2010                          | Annual  | 3                                 | 1                           | 6 months<br>October 2009 to March 2010  |
| 15. Strides Arco lab Limited, Bengaluru (Medegne)    | Development of Novel Recombinant Staphylokinase for the treatment of cardiovascular disease   | 36 months<br>December 2006 to December 2009                    | Annual  | 3                                 | 1                           | 18 months<br>July 2008 to December 2009   |

| Name of the industry partner           | Name of the project   | Project duration (extended)          | Frequency of MC meeting fixed, as per agreement | Number of PMC meetings to be held | Number of PMC meetings held | Period during which no monitoring by PMC was done due to non-conduct of meeting |
|--|---|--------------------------------------|---|-----------------------------------|-----------------------------|---|
| 16. Sudershan Biotech Ltd., Hyderabad  | Production of para-hydroxyphenyl glycine (PHPG) using Hydantoinase and carbamoylase enzymes cloned E.coli | 36 months March 2006 to March 2009   | Annual  | 6                                 | 2                           | 5 months November 2008 to March 2009  |
| 17. Thirteen Herbs and Cure, New Delhi | To develop an indigenous immuno-restorative herbal formulation P–JyotiAmritam for HIV/AIDS.               | 24 months March 2008 to March 2010   | Annual  | 2                                 | 0                           | 24 months March 2008 to March 2010  |
| 18. Ranbaxy Laboratories Ltd., Gurgaon | A novel muscarinic receptor antagonist for chronic obstructive pulmonary disease                          | 36 months August 2006 to August 2009 | Annual  | 3                                 | 2                           | 7 months February 2009 to August 2009   |
| 19. Ranbaxy Laboratories Ltd., Gurgaon | A novel phosphodiesterase-4B inhibitor for Chronic Obstructive Pulmonary disease                          | 36 months July 2007 to July 2010     | Annual  | 3                                 | 1                           | 17 months March 2009 to July 2010   |

\* Composition of PMC was changed in the second meeting.

## Appendix XV (Refer to Paragraph 4.1.2)

### Details of year-wise releases under New Millennium Indian Technology Leadership Initiative Scheme

(₹ in crore)

| Year         | Funds released | No. of new projects sanctioned |
|--------------|----------------|--------------------------------|
| 2000-01      | 32.45          | 9                              |
| 2001-02      | 28.91          | 8                              |
| 2002-03      | 13.55          | 8                              |
| 2003-04      | 48.22          | 7                              |
| 2004-05      | 56.36          | 5                              |
| 2005-06      | 38.74          | 5                              |
| 2006-07      | 80.13          | 8                              |
| 2007-08      | 56.94          | 7                              |
| 2008-09      | 52.24          | Nil                            |
| 2009-10      | 54.19          | 3                              |
| 2010-11      | 53.95          | 5                              |
| 2011-12      | 46.01          | 7                              |
| 2012-13      | 38.37          | Nil                            |
| 2013-14      | 30.44          | 1                              |
| <b>Total</b> | <b>630.50</b>  | <b>73</b>                      |

**Appendix XVI (Refer to Paragraph 4.1.3.5 (i))****Shortfall in frequency of meetings of Monitoring/Steering Committees under New Millennium Indian Technology Leadership Initiative**

| Sl. No. | Project Title   | No. of Monitoring Committee (MC) Meetings |        | Percentage of shortfall | No. of Steering Committee (SC) Meetings |                    | Percentage of shortfall |
|---------|---|---|--------|-------------------------|---|--------------------|-------------------------|
|         |   | Scheduled                                 | Actual |                         | Scheduled                               | Actual             |                         |
| 1.      | Development of Next Generation Plasma Display Technology and a 50 inch High Definition (HD) TV prototype        | 5   | 4      | 20                      | 9                                       | 7                  | 22                      |
| 2.      | Design & Development of cushion bonded organic ceramic clutch discs   | 7   | 6      | 14                      | 14                                      | 11                 | 21                      |
| 3.      | Versatile, portable PC based software for bioinformatics  | 6   | 6      | Nil                     | 12                                      | 7                  | 42                      |
|         | And Development of Linux cluster version of Bio-suite   | 2   | 2      | Nil                     |   |                    |                         |
| 4.      | Biotechnology for replacing chemical process in leather sector (Phase-II)                                       | 12  | 6      | 50                      | 24                                      | 10                 | 58                      |
| 5.      | Development of Globally competitive 'Triple-Play' Broadband Technology  | 5   | 6      | Nil                     | 6                                       | 6                  | Nil                     |
| 6.      | Value added polymeric materials from renewable resources: Lactic acid and lactic acid based polymers (Phase-II) | 13  | 13     | Nil                     | 25                                      | 16                 | 36                      |
| 7.      | A cost effective Simple Office Computing (Sofcomp) platform to replace PC                                       | 4   | 4      | Nil                     | SC not constituted                      | SC not constituted | 100                     |
| 8.      | Market seeding of SofComp and Mobilis to develop wide-ranging applications as well as increase awareness        | 3   | 3      | Nil                     | SC not constituted                      | SC not constituted | 100                     |

| Sl. No. | Project Title  | No. of Monitoring Committee (MC) Meetings |        | Percentage of shortfall | No. of Steering Committee (SC) Meetings |        | Percentage of shortfall |
|---------|--|---|--------|-------------------------|---|--------|-------------------------|
|         |  | Scheduled                                 | Actual |                         | Scheduled                               | Actual |                         |
| 9.      | Nano-material coatings and advanced composites for tribological applications in automotive industry  | 8   | 6      | 25                      | 16                                      | 9      | 44                      |
| 10.     | Functionalization of alkanes   | 6   | 6      | Nil                     | 12                                      | 8      | 33                      |
| 11.     | Development of selected Medical Implants   | 14  | 10     | 29                      | 28                                      | 13     | 54                      |
| 12.     | 5 & 25 KW decentralized power packs  | 6   | 6      | Nil                     | 13                                      | 10     | 23                      |
| 13.     | Development of Novel Fungicides  | 7   | 5      | 29                      | 14                                      | 8      | 43                      |
| 14.     | Nano-material catalysts and associated process technology for alkylation/ acylation/ nitration of well identified industrial chemicals, pre-reforming of hydrocarbons and sulphur removal (<50 ppm) from petroleum fuels | 8   | 6      | 25                      | 16                                      | 9      | 44                      |
| 15.     | Development of a 500 kW low cost horizontal-axis Wind Turbine  | 13  | 9      | 31                      | 27                                      | 12     | 56                      |
| 16.     | Biotechnological Approaches for Improvement of Plant Species with Special Reference to Pulp and Paper  | 7   | 4      | 43                      | 15                                      | 10     | 33                      |
| 17.     | Enhanced productivity in cement manufacture through Improved granular processing and resource conservation   | 8   | 7      | 13                      | 16                                      | 11     | 31                      |
| 18.     | A prospective study to correlate gene signatures with clinical outcome of astrocytomas and identification of potential therapeutic target(s)   | 10  | 8      | 20                      | 20                                      | 14     | 30                      |

| Sl. No. | Project Title   | No. of Monitoring Committee (MC) Meetings |                                      | Percentage of shortfall | No. of Steering Committee (SC) Meetings |                                      | Percentage of shortfall |
|---------|---|---|--------------------------------------|-------------------------|---|--------------------------------------|-------------------------|
|         |   | Scheduled                                 | Actual                               |                         | Scheduled                               | Actual                               |                         |
| 19.     | Wireless Sensor Network Chipset based on Ultra-Wideband Technology  | 6   | 6                                    | Nil                     | 6                                       | 9                                    | Nil                     |
| 20.     | Environmentally secure rare earth based colorants for surface coatings  | 3   | 3                                    | Nil                     | 6                                       | 3                                    | 50                      |
| 21.     | Biodegradable plastics from agricultural wastes: Cellulose esters based on bagasse                            | 6   | 6                                    | Nil                     | 11                                      | 9                                    | 18                      |
| 22.     | Novel molecular diagnostics foreye diseases and low vision enhancement devices                                | 6   | 6                                    | Nil                     | 13                                      | 9                                    | 31                      |
| 23.     | Recombinant approach to produce $\alpha$ -linolenic acid and docosahexanoic acid (DHA) in sunflower and yeast | 8   | 7                                    | 13                      | 16                                      | 12                                   | 25                      |
| 24.     | Oral Delivery of Insulin  | 16  | 9                                    | 44                      | 28                                      | 10                                   | 64                      |
| 25.     | Defunctionalization of carbohydrates as a feedstock to manufacture well identified industrial chemicals       | 6   | 5                                    | 17                      | 12                                      | 7                                    | 42                      |
| 26.     | Novel expression system   | 7   | 6                                    | 14                      | 14                                      | 4                                    | 71                      |
| 27.     | A PC based high-end 3D visualization platform for computational biology – 'Darshee'                           | 4   | 3                                    | 25                      | SC not constituted                      | SC not constituted                   | 100                     |
| 28.     | Two orders of magnitude improved liquid crystals for flat panel display devices                               | 8   | 5                                    | 38                      | 16                                      | 9                                    | 44                      |
| 29.     | Microbiological conversion of Erythromycin to Clarithromycin and other novel biologically active molecules    | 3   | 3                                    | Nil                     | 6                                       | 5                                    | 17                      |
| 30.     | Process for Tamiflu – a Blockbuster drug to combat the menace of avian flu                                    |   | MC not constituted due to short time | 100                     |   | SC not constituted due to short time | 100                     |

**Appendix XVII (Refer to Paragraph 4.1.3.5 (ii))****Details of time overrun in projects under New Millennium Indian Technology Leadership Initiative**

| Sl. No. | Name of Project   | Date of start of project | Scheduled date of completion | Actual date of completion | Time Overrun (In Months) |
|---------|---|--------------------------|------------------------------|---------------------------|--------------------------|
| 1.      | Development of Next Generation Plasma Display Technology and a 50 inch High Definition (HD) TV prototype  | March 2007               | September 2009               | March 2010                | 6                        |
| 2.      | Design and development of cushion bonded organic ceramic clutch discs   | March 2008               | March 2011                   | September 2011            | 6                        |
| 3.      | Versatile, portable PC based software for bioinformatics and Development of Linux cluster version of Bio-suite  | March 2002               | March 2004                   | March 2005                | 12                       |
| 4.      | Biotechnology for replacing chemical process in leather sector  | January 2006             | January 2009                 | January 2012              | 36                       |
| 5.      | Development of Globally competitive 'Triple-Play' Broadband Technology  | March 2005               | September 2006               | September 2007            | 12                       |
| 6.      | Value added polymeric materials from renewable resources: Lactic acid and lactic acid based polymer (Phase-II)  | March 2007               | March 2010                   | August 2012               | 29                       |
| 7.      | A cost effective Simple Office Computing (Sofcomp) platform to replace PC   | April 2003               | March 2004                   | May 2005                  | 14                       |
| 8.      | Market seeding of SofComp and Mobilis to develop wide-ranging applications as well as increase awareness  | December 2005            | September 2006               | December 2007             | 15                       |
| 9.      | Nano-Material Coatings And Advanced Composites for Tribological Applications In Automotive Industry   | April 2003               | March 2006                   | March 2007                | 12                       |
| 10.     | Functionalization of alkanes  | April 2003               | March 2005                   | November 2006             | 20                       |
| 11.     | Development of selected Medical Implants  | June 2005                | May 2008                     | May 2012                  | 48                       |
| 12.     | 5 & 25 KW decentralized power packs   | March 2001               | March 2003                   | June 2004                 | 15                       |
| 13.     | Development of Novel Fungicides   | October 2004             | September 2007               | March 2008                | 6                        |
| 14.     | Nano-material catalysts and associated process technology for alkylation/acylation/nitration of well identified industrial chemicals, pre-reforming of hydro-carbons and sulphur removal (<50 ppm) from petroleum fuels | March 2001               | March 2003                   | June 2006                 | 39                       |
| 15.     | Development of a 500 kW low cost horizontal-axis Wind Turbine   | March 2004               | March 2006                   | December 2010             | 57                       |
| 16.     | Biotechnological Approaches for Improvement of Plant Species with Special Reference to Pulp and Paper   | October 2004             | September 2006               | March 2008                | 18                       |
| 17.     | Improved granular processing: towards energy efficiency and resource conservation in cement manufacture   | March 2002               | March 2005                   | March 2006                | 12                       |

| Sl. No. | Name of Project   | Date of start of project | Scheduled date of completion | Actual date of completion   | Time Overrun (In Months) |
|---------|---|--------------------------|------------------------------|-----------------------------|--------------------------|
| 18.     | A prospective study to correlate gene signatures with clinical outcome of astrocytomas and identification of potential therapeutic target(s)  | January 2006             | December 2009                | March 2011                  | 15                       |
| 19.     | Wireless Sensor Network Chipset based on Ultra –Wideband Technology   | March 2007               | March 2010                   | June 2013                   | 39                       |
| 20.     | Environmentally secure rare earth based colorants for surface coatings (Phase-II)   | March 2005               | March 2008                   | December 2008               | 9                        |
| 21.     | Biodegradable plastics from agricultural wastes: Cellulose esters based on bagasse (Both phases)  | March 2002<br>March 2005 | March 2004<br>March 2007     | December 2004<br>March 2008 | 9 + 12 = 21              |
| 22.     | Novel Molecular Diagnostics for Eye Diseases and Low Vision Enhancement Devices<br>Development of DNA Macroarray for the detection of eye infections and the genetic predisposition to glaucoma | April 2003               | March 2005                   | April 2007                  | 24                       |
| 23.     | Recombinant approach to produce $\alpha$ -linolenic acid and docosahexanoic acid (DHA) in sunflower and yeast   | April 2003               | March 2006                   | July 2007                   | 16                       |
| 24.     | Oral Delivery of Insulin  | July 2004                | July 2007                    | April 2012                  | 57                       |
| 25.     | Defunctionalization of carbohydrates as a feed stock to manufacture well identified industrial chemicals  | March 2001               | March 2003                   | April 2004                  | 13                       |
| 26.     | Novel expression system   | March 2005               | March 2008                   | September 2008              | 6                        |
| 27.     | A PC based high-end 3D visualization platform for computational biology – 'Darshee'   | April 2003               | May 2004                     | May 2004                    | Nil                      |
| 28.     | Two orders of magnitude improved liquid crystals for flat panel display devices   | May 2001                 | June 2003                    | June 2005                   | 24                       |
| 29.     | Microbiological conversion of Erythromycin to Clarithromycin and other novel biologically active molecules  | September 2002           | April 2004                   | April 2004                  | Nil                      |
| 30.     | Process for Tamiflu – a Blockbuster drug to combat the menace of avian flu  | October 2005             | July 2006                    | October 2007                | 15                       |

**Appendix XVIII (Refer to Paragraph 5.2)**  
**Details of Service Tax payment by Master Control Facility, Hassan**

| Payment of service tax for the month | Voucher No. and date of payment | Pay and allowances | Leave salary contribution | Pension contribution | NPS      | Other amount paid if any | Total cost of CISF service | Service tax (@12.36%) paid on total cost |
|--------------------------------------|---------------------------------|--------------------|---------------------------|----------------------|----------|--------------------------|----------------------------|--|
| July 2012                            | V0 714/14.08.12                 | 37,94,968          | 2,28,135                  | 1,29,827             | 56,398   |                          | 42,09,328                  | 5,20,273                                 |
| August 2012                          | V0120883/13.09.12               | 38,09,106          | 2,45,155                  | 1,29,272             | 51,287   |                          | 42,34,820                  | 5,23,424                                 |
| September 2012                       | V0121059/16.10.12               | 34,32,838          | 2,52,936                  | 1,35,697             | 57,164   |                          | 38,78,635                  | 4,79,399                                 |
| October 2012                         | V0121261/20.11.12               | 44,37,558          | 3,06,124                  | 1,32,322             | 56,313   |                          | 49,32,317                  | 6,09,634                                 |
| November 2012                        | V0 1417/17.12.12                | 39,58,757          | 2,49,299                  | 1,30,223             | 57,087   |                          | 43,95,366                  | 5,43,267                                 |
| December 2012                        | V0 1596/15.01.13                | 33,48,727          | 2,46,541                  | 1,25,219             | 59,002   |                          | 37,79,489                  | 4,67,145                                 |
| January 2013                         | V0 1764/14.02.13                | 32,94,677          | 2,63,095                  | 1,26,966             | 57,152   |                          | 37,41,890                  | 4,62,498                                 |
| February 2013                        | V0 1944/12.03.13                | 40,35,232          | 2,23,259                  | 1,21,853             | 59,383   |                          | 44,39,727                  | 5,48,750                                 |
| March 2013                           | V0 0090/16.04.13                | 40,13,748          | 2,45,786                  | 1,26,301             | 58,565   |                          | 44,44,400                  | 5,49,328                                 |
| April 2013                           | V0 0260/15.05.13                | 35,83,534          | 2,67,938                  | 1,23,751             | 57,948   |                          | 40,33,171                  | 4,98,500                                 |
| May 2013                             | V0130465/13.06.13               | 38,73,994          | 2,52,444                  | 1,15,236             | 57,996   |                          | 42,99,670                  | 5,31,439                                 |
| June 2013                            | V0648/15.07.13                  | 34,84,684          | 2,38,983                  | 1,20,985             | 62,519   |                          | 39,07,171                  | 4,82,926                                 |
| July 2013                            | V0130852/13.08.13               | 44,62,437          | 2,95,238                  | 1,35,951             | 64,479   |                          | 49,58,105                  | 6,12,822                                 |
| July 2013                            | V0 793/02.08.13                 | -                  | -                         | -                    | -        | 1,26,681*                | 1,26,681                   | 15,658                                   |
| July 2013                            | V0 798/02.08.13                 | -                  | -                         | -                    | -        | 7,56,230#                | 7,56,230                   | 93,470                                   |
| August 2013                          | V0131114/17.09.13               | 38,60,961          | 2,62,374                  | 1,37,026             | 65,303   |                          | 43,25,664                  | 5,34,652                                 |
| September 2013                       | V01320/17.10.13                 | 36,61,959          | 3,01,378                  | 1,40,496             | 66,429   |                          | 41,70,262                  | 5,15,444                                 |
| October 2013                         | V01486/14.11.13                 | 60,81,121          | 3,05,851                  | 1,43,334             | 71,557   |                          | 66,01,863                  | 8,15,990                                 |
| November 2013                        | V0131671/11.12.13               | 38,23,472          | 3,02,778                  | 1,38,617             | 69,593   |                          | 43,34,460                  | 5,35,739                                 |
| December 2013                        | V01906/20.01.14                 | 37,27,040          | 3,14,746                  | 1,37,180             | 68,919   |                          | 42,47,885                  | 5,25,039                                 |
| January 2014                         | V02076/12.02.14                 | 49,07,063          | 2,83,206                  | 1,36,851             | 66,842   |                          | 53,93,962                  | 6,66,694                                 |
| February 2014                        | V02267/14.03.14                 | 32,42,503          | 2,89,554                  | 1,36,990             | 67,976   |                          | 37,37,023                  | 4,61,896                                 |
| March 2014                           | V0094/10.04.14                  | 35,64,398          | 2,63,960                  | 1,35,553             | 65,008   |                          | 40,28,919                  | 4,97,974                                 |
| April 2014                           | V0140317/12.05.14               | 56,90,800          | 3,09,669                  | 1,34,539             | 69,907   |                          | 62,04,915                  | 7,66,928                                 |
| May 2014                             | V0487/10.06.14                  | 36,05,135          | 2,36,330                  | 78,908               | 68,192   |                          | 39,88,565                  | 4,92,987                                 |
| June 2014                            | V0140701/11.07.14               | 36,96,142          | 3,18,458                  | 1,28,526             | 67,418   |                          | 42,10,544                  | 5,20,423                                 |
| <b>Total</b>                         |                                 | 4,58,60,594        | 31,88,304                 | 14,48,020            | 7,47,144 |                          | <b>10,73,81,062</b>        | <b>1,32,72,299</b>                       |

\* Payment for the cost of ammunition for the year 2012-13; # Payment for the cost of clothing and equipment for the year 2012-13

**Appendix XIX (Refer to Paragraph 6.2.2.2 (i))**

Status of 'departmental' and 'part time' observatories as of May 2015 in Regional Meteorological Centre, Kolkata

| Sl. No | Name of the State/Union Territory | No. of districts in State/UT | Area (sq.km)     | No. of 'Departmental' observatories | No. of 'Part time' observatories | Total number of observatories | Total area covered (sq.km) | Percentage of coverage | No. of defunct observatories |
|--------|-----------------------------------|------------------------------|------------------|-------------------------------------|----------------------------------|-------------------------------|----------------------------|------------------------|------------------------------|
| 1      | Bihar                             | 38                           | 94,793           | 4                                   | 10                               | 14                            | 40,699                     | 43                     | 3                            |
| 2      | Jharkhand                         | 24                           | 95,617           | 3                                   | 5                                | 8                             | 44,254                     | 46                     | 3                            |
| 3      | Odisha                            | 30                           | 1.56 lakh        | 10                                  | 12                               | 22                            | 1.09 lakh                  | 70                     | 0                            |
| 4      | Sikkim                            | 4                            | 7,096            | 2                                   | 3                                | 5                             | 5,930                      | 84                     | 0                            |
| 5      | West Bengal                       | 20                           | 88,752           | 12                                  | 14                               | 26                            | 82,229                     | 93                     | 3                            |
| 6      | Andaman and Nicobar Islands       | 3                            | 8,249            | 1                                   | 5                                | 6                             | 8,249                      | 100                    | 0                            |
|        | <b>Total</b>                      | <b>119</b>                   | <b>4.51 lakh</b> | <b>32</b>                           | <b>49</b>                        | <b>81</b>                     | <b>2.90 lakh</b>           | <b>64.30</b>           | <b>9</b>                     |