



R F D

(Results-Framework Document)

for

**Department of Scientific and Industrial
Research
(2012-2013)**

Section 1: Vision, Mission, Objectives and Functions

Vision

Enabling India to emerge as global industrial research and innovation hub

Mission

Attracting industrial research in the country through industry and institution centric motivational measures and incentives; Creating an enabling environment for development and utilization of new innovations. Enhance innovations through its resources and channelize benefits thereof to the people.

Objective

- 1 To promote and nurture research and development in industry with a view to enhance industry's share in national R&D; expenditure;
- 2 To promote innovations through its resources and channelize benefits for public good;
- 3 To promote and support industry including start-ups for development of new products, processes and technologies leading to industrial competitiveness;
- 4 To encourage the spirit of creativity and innovativeness in individuals and scientist entrepreneurs;
- 5 To promote and support Cluster Innovation Centres in MSME Cluster initiated by National Innovation Council;
- 6 To provide technology based support for programmes aimed at benefitting women;
- 7 To prepare a roadmap for Sectoral Innovation Council on Industrial R&D;
- 8 To track scientific innovations in the country;
- 9 To assess the outcome of major technologies of national importance, developed by CSIR on a continuous basis;
- 10 Capacity building of Asia Pacific region through Asian & Pacific Centre for Transfer of Technology (UN ESCAP-APCTT);
- 11 To implement e-Governance and ERP initiatives;

Functions

- 1 All matters concerning the Council of Scientific & Industrial Research
- 2 All matters relating to National Research Development Corporation
- 3 All matters relating to Central Electronics Limited
- 4 Registration and Recognition of R&D; Units
- 5 Technical matters relating to UNCTAD & WIPO
- 6 National register for foreign collaborations

Section 1: Vision, Mission, Objectives and Functions

- 7 Matters relating to creation of a pool for temporary placement of Indian Scientists & Technologists

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

| Objective | Weight | Action | Success Indicator | Unit | Weight | Target / Criteria Value | | | | |
|--|--------|---|---|---|---------------------------------|-------------------------|-----------|------------|------------|------------|
| | | | | | | Excellent | Very Good | Good | Fair | Poor |
| | | | | | | 100% | 90% | 80% | 70% | 60% |
| [1] To promote and nurture research and development in industry with a view to enhance industry's share in national R&D expenditure; | 28.00 | [1.1] Recognition and renewal of R&D Centres | [1.1.1] Recognition & registration to new in-house R&D units; Scientific & Industrial Research Organisations (SIROs); and Public Funded Research Institutions (PFRIs) | Nos. | 5.88 | 250 | 240 | 230 | 225 | 220 |
| | | | [1.1.2] Renewal of recognition & registration to in-house R&D units; SIROs; PFRIs | Nos. | 3.08 | 780 | 775 | 725 | 700 | 675 |
| | | [1.2] Fiscal incentives for Scientific Research | [1.2.1] Approving new companies for availing fiscal benefits | Nos. | 8.96 | 70 | 67 | 64 | 60 | 58 |
| | | [1.3] Assessment of R&D and Innovation output of industry | [1.3.1] New patents filed | Nos. | 1.96 | 28 | 25 | 22 | 20 | 18 |
| | | | [1.3.2] New products commercialized | Nos. | 1.96 | 12 | 10 | 8 | 7 | 6 |
| | | [1.4] Online access to scientific journals by In-house R&D units and SIROs | [1.4.1] No. of scientific journals accessed online | Nos. | 3.08 | 5 | 4 | 3 | 2 | 1 |
| | | | [1.4.2] No. of In-house R&D units and SIROs having online access to scientific journals | Nos. | 3.08 | 30 | 25 | 22 | 20 | 18 |
| | | [2] To promote innovations through its resources and channelize benefits for public good; | 28.00 | [2.1] To launch new scheme on "Promoting Innovations in Individuals, Start-ups and MSMEs" (PRISM) | [2.1.1] Launching of the Scheme | Date | 4.20 | 30/09/2012 | 07/10/2012 | 15/10/2012 |

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

| Objective | Weight | Action | Success Indicator | Unit | Weight | Target / Criteria Value | | | | |
|--|--------|---|--|------|--------|-------------------------|------------|------------|------------|------------|
| | | | | | | Excellent | Very Good | Good | Fair | Poor |
| | | | | | | 100% | 90% | 80% | 70% | 60% |
| | | and finalize its guidelines | | | | | | | | |
| | | [2.1.2] Issuance of scheme guidelines | [2.1.2] Issuance of scheme guidelines | Date | 2.80 | 30/10/2012 | 07/11/2012 | 14/11/2012 | 21/11/2012 | 28/11/2012 |
| | | [2.2] To launch new scheme on "Patent Acquisition and Collaborative Research and Technology Development" (PACE) and finalize its guidelines | [2.2.1] Launching of the Scheme | Date | 4.20 | 30/09/2012 | 07/10/2012 | 15/10/2012 | 22/10/2012 | 30/10/2012 |
| | | | [2.2.2] Issuance of scheme guidelines | Date | 2.80 | 30/10/2012 | 07/11/2012 | 14/11/2012 | 21/11/2012 | 28/11/2012 |
| | | [2.3] To launch new scheme on "Building Industrial R&D and Common Research Facilities" (BIRD) and finalize its guidelines | [2.3.1] Launching of the Scheme | Date | 4.20 | 30/09/2012 | 07/10/2012 | 15/10/2012 | 22/10/2012 | 30/10/2012 |
| | | | [2.3.2] Issuance of scheme guidelines | Date | 2.80 | 30/10/2012 | 07/11/2012 | 14/11/2012 | 21/11/2012 | 28/11/2012 |
| | | [2.4] To launch new scheme on "Access to Knowledge for Technology Development and Dissemination" (A2K+) and finalize its guidelines | [2.4.1] Launching of the Scheme | Date | 4.20 | 30/09/2012 | 07/10/2012 | 15/10/2012 | 22/10/2012 | 29/10/2012 |
| | | | [2.4.2] Issuance of scheme guidelines | Date | 2.80 | 30/10/2012 | 07/11/2012 | 14/11/2012 | 21/11/2012 | 28/11/2012 |
| [3] To promote and support industry including start-ups for development of new products, processes and technologies leading to industrial competitiveness; | 5.00 | [3.1] Completion of on-going Technology Development and Demonstration Programme (TDDP) | [3.1.1] Product Prototype / Process developed and demonstrated | Nos. | 4.00 | 9 | 8 | 7 | 6 | 5 |

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

| Objective | Weight | Action | Success Indicator | Unit | Weight | Target / Criteria Value | | | | |
|---|--------|--|--|------|--------|-------------------------|------------|------------|------------|------------|
| | | | | | | Excellent | Very Good | Good | Fair | Poor |
| | | | | | | 100% | 90% | 80% | 70% | 60% |
| | | projects | | | | | | | | |
| | | [3.2] Independent evaluation of Technology Development and Demonstration Programme (TDDP) | [3.2.1] Submission of evaluation report to the department | Date | 1.00 | 10/03/2013 | 14/03/2013 | 18/03/2013 | 22/03/2013 | 25/03/2013 |
| [4] To encourage the spirit of creativity and innovativeness in individuals and scientist entrepreneurs; | 5.00 | [4.1] Completion of on-going Technopreneur Promotion Programme (TePP) projects | [4.1.1] Product Prototype / Process demonstrated | Nos. | 4.00 | 42 | 40 | 38 | 35 | 32 |
| | | [4.2] Independent evaluation of Technopreneur Promotion Programme (TePP) | [4.2.1] Submission of evaluation report to the department | Date | 1.00 | 10/03/2013 | 14/03/2013 | 18/03/2013 | 22/03/2013 | 25/03/2013 |
| [5] To promote and support Cluster Innovation Centres in MSME Cluster initiated by National Innovation Council; | 7.00 | [5.1] To support proposals for establishment of new Cluster Innovation Centres in MSME Clusters in association with National Innovation Council (NInC) | [5.1.1] Support to Training Programmes in the clusters | Nos. | 3.50 | 18 | 16 | 14 | 12 | 10 |
| | | | [5.1.2] Support to Innovative proposals of MSMEs from the clusters | Nos. | 3.50 | 25 | 22 | 20 | 18 | 15 |
| [6] To provide technology based support for programmes aimed at benefitting women; | 2.00 | [6.1] Support proposals from a Non-Governmental Organisations (NGOs), Women Self-Help Groups (SHGs) and other concerned agencies | [6.1.1] Number of agencies supported | Nos. | 2.00 | 9 | 8 | 6 | 4 | 3 |
| [7] To prepare a roadmap for Sectoral Innovation Council on Industrial R&D; | 2.00 | [7.1] To organize stakeholder meetings for seeking inputs | [7.1.1] Compilation of stakeholder inputs into a roadmap | Date | 2.00 | 07/03/2013 | 10/03/2013 | 14/03/2013 | 17/03/2013 | 20/03/2013 |

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

| Objective | Weight | Action | Success Indicator | Unit | Weight | Target / Criteria Value | | | | |
|---|--------|---|--|------|--------|-------------------------|------------|------------|------------|------------|
| | | | | | | Excellent | Very Good | Good | Fair | Poor |
| | | | | | | 100% | 90% | 80% | 70% | 60% |
| [8] To track scientific innovations in the country; | 2.00 | [8.1] Creation of a Scientific Innovations Database | [8.1.1] Finalization of database structure and sources of information | Date | 1.00 | 15/09/2012 | 18/09/2012 | 21/09/2012 | 24/09/2012 | 27/09/2012 |
| | | | [8.1.2] Scientific innovations added in the database | Nos. | 1.00 | 120 | 115 | 110 | 105 | 100 |
| [9] To assess the outcome of major technologies of national importance, developed by CSIR on a continuous basis; | 2.00 | [9.1] To carry out an economic impact assessment of major technologies of national importance, developed by CSIR | [9.1.1] Identification of technologies of national importance, developed by CSIR | Nos. | 1.00 | 6 | 5 | 4 | 3 | 2 |
| | | | [9.1.2] Preparation of technology impact assessment reports | Nos. | 1.00 | 6 | 5 | 4 | 3 | 2 |
| [10] Capacity building of Asia Pacific region through Asian & Pacific Centre for Transfer of Technology (UN ESCAP-APCTT); | 2.00 | [10.1] To provide infrastructural and programme support | [10.1.1] Provision of Institutional support | Date | 1.00 | 31/12/2012 | 15/01/2013 | 31/01/2013 | 07/02/2013 | 14/02/2013 |
| | | | [10.1.2] Programme activities supported | Nos. | 1.00 | 2 | 1 | 1 | 1 | 1 |
| [11] To implement e-Governance and ERP initiatives; | 2.00 | [11.1] Design, Development, Validation and Certification of Enterprise Resource Planning (ERP) solution for e-Office as well as for department's external interface | [11.1.1] User Acceptance of the e-Office and ERP package | Date | 2.00 | 15/12/2012 | 31/12/2012 | 15/01/2013 | 31/01/2013 | 28/02/2013 |
| * Efficient Functioning of the RFD System | 3.00 | Timely submission of Draft for Approval | On-time submission | Date | 2.0 | 05/03/2012 | 06/03/2012 | 07/03/2012 | 08/03/2012 | 09/03/2012 |

* Mandatory Objective(s)

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

| Objective | Weight | Action | Success Indicator | Unit | Weight | Target / Criteria Value | | | | |
|--|--------|---|---|------|--------|-------------------------|------------|------------|------------|------------|
| | | | | | | Excellent | Very Good | Good | Fair | Poor |
| | | | | | | 100% | 90% | 80% | 70% | 60% |
| | | Timely submission of Results | On- time submission | Date | 1.0 | 01/05/2012 | 03/05/2012 | 04/05/2012 | 05/05/2012 | 06/05/2012 |
| * Administrative Reforms | 6.00 | Implement mitigating strategies for reducing potential risk of corruption | % of implementation | % | 2.0 | 100 | 95 | 90 | 85 | 80 |
| | | Implement ISO 9001 as per the approved action plan | Area of operations covered | % | 2.0 | 100 | 95 | 90 | 85 | 80 |
| | | Identify, design and implement major innovations | Implementation of identified innovations | Date | 2.0 | 05/03/2013 | 06/03/2013 | 07/03/2013 | 08/03/2013 | 09/03/2013 |
| * Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department | 4.00 | Implementation of Sevottam | Independent Audit of Implementation of Citizen's Charter | % | 2.0 | 100 | 95 | 90 | 85 | 80 |
| | | | Independent Audit of implementation of public grievance redressal system | % | 2.0 | 100 | 95 | 90 | 85 | 80 |
| * Ensuring compliance to the Financial Accountability Framework | 2.00 | Timely submission of ATNs on Audit paras of C&AG | Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG during the year. | % | 0.5 | 100 | 90 | 80 | 70 | 60 |
| | | Timely submission of ATRs to the PAC Sectt. on PAC Reports. | Percentage of ATRS submitted within due date (6 months) from date of presentation of Report to Parliament by PAC during the year. | % | 0.5 | 100 | 90 | 80 | 70 | 60 |
| | | Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2012. | Percentage of outstanding ATNs disposed off during the year. | % | 0.5 | 100 | 90 | 80 | 70 | 60 |
| | | Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2012 | Percentage of outstanding ATRS disposed off during the year. | % | 0.5 | 100 | 90 | 80 | 70 | 60 |

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value | Actual Value | Target Value | Projected Value for | Projected Value for |
|--|---|---|---------------------------------|--------------|--------------|--------------|---------------------|---------------------|
| | | | | FY 10/11 | FY 11/12 | FY 12/13 | FY 13/14 | FY 14/15 |
| [1] To promote and nurture research and development in industry with a view to enhance industry's share in national R&D expenditure; | [1.1] Recognition and renewal of R&D Centres | [1.1.1] Recognition & registration to new in-house R&D units; Scientific & Industrial Research Organisations (SIROs); and Public Funded Research Institutions (PFRIs) | Nos. | 200 | 220 | 240 | 245 | 250 |
| | | [1.1.2] Renewal of recognition & registration to in-house R&D units; SIROs; PFRIs | Nos. | 625 | 720 | 775 | 785 | 800 |
| | [1.2] Fiscal incentives for Scientific Research | [1.2.1] Approving new companies for availing fiscal benefits | Nos. | 63 | 72 | 67 | 70 | 80 |
| | [1.3] Assessment of R&D and Innovation output of industry | [1.3.1] New patents filed | Nos. | -- | -- | 25 | 30 | 35 |
| | | [1.3.2] New products commercialized | Nos. | -- | -- | 10 | 12 | 14 |
| | [1.4] Online access to scientific journals by In-house R&D units and SIROs | [1.4.1] No. of scientific journals accessed online | Nos. | -- | -- | 4 | 5 | 6 |
| | | [1.4.2] No. of In-house R&D units and SIROs having online access to scientific journals | Nos. | -- | -- | 25 | 40 | 60 |
| | [2] To promote innovations through its resources and channelize benefits for public good; | [2.1] To launch new scheme on "Promoting Innovations in Individuals, Start-ups and MSMEs" (PRISM) and finalize its | [2.1.1] Launching of the Scheme | Date | -- | -- | 07/10/2012 | -- |

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value FY 10/11 | Actual Value FY 11/12 | Target Value FY 12/13 | Projected Value for FY 13/14 | Projected Value for FY 14/15 |
|--|---|--|------|--------------------------|--------------------------|--------------------------|------------------------------------|------------------------------------|
| | guidelines | | | | | | | |
| | | [2.1.2] Issuance of scheme guidelines | Date | -- | -- | 07/11/2012 | -- | -- |
| | [2.2] To launch new scheme on "Patent Acquisition and Collaborative Research and Technology Development" (PACE) and finalize its guidelines | [2.2.1] Launching of the Scheme | Date | -- | -- | 07/10/2012 | -- | -- |
| | | [2.2.2] Issuance of scheme guidelines | Date | -- | -- | 07/11/2012 | -- | -- |
| | [2.3] To launch new scheme on "Building Industrial R&D and Common Research Facilities" (BIRD) and finalize its guidelines | [2.3.1] Launching of the Scheme | Date | -- | -- | 07/10/2012 | -- | -- |
| | | [2.3.2] Issuance of scheme guidelines | Date | -- | -- | 07/11/2012 | -- | -- |
| | [2.4] To launch new scheme on "Access to Knowledge for Technology Development and Dissemination" (A2K+) and finalize its guidelines | [2.4.1] Launching of the Scheme | Date | -- | -- | 07/10/2012 | -- | -- |
| | | [2.4.2] Issuance of scheme guidelines | Date | -- | -- | 07/11/2012 | -- | -- |
| [3] To promote and support industry including start-ups for development of new products, processes and technologies leading to industrial competitiveness; | [3.1] Completion of on-going Technology Development and Demonstration Programme (TDDP) projects | [3.1.1] Product Prototype / Process developed and demonstrated | Nos. | 6 | 3 | 8 | 10 | 12 |

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value FY 10/11 | Actual Value FY 11/12 | Target Value FY 12/13 | Projected Value for FY 13/14 | Projected Value for FY 14/15 |
|---|--|--|------|--------------------------|--------------------------|--------------------------|------------------------------------|------------------------------------|
| | | | | | | | | |
| | [3.2] Independent evaluation of Technology Development and Demonstration Programme (TDDP) | [3.2.1] Submission of evaluation report to the department | Date | -- | -- | 14/03/2013 | -- | -- |
| [4] To encourage the spirit of creativity and innovativeness in individuals and scientist entrepreneurs; | [4.1] Completion of on-going Technopreneur Promotion Programme (TePP) projects | [4.1.1] Product Prototype / Process demonstrated | Nos. | 32 | 37 | 40 | 42 | 45 |
| | [4.2] Independent evaluation of Technopreneur Promotion Programme (TePP) | [4.2.1] Submission of evaluation report to the department | Date | -- | -- | 14/03/2013 | -- | -- |
| [5] To promote and support Cluster Innovation Centres in MSME Cluster initiated by National Innovation Council; | [5.1] To support proposals for establishment of new Cluster Innovation Centres in MSME Clusters in association with National Innovation Council (NInC) | [5.1.1] Support to Training Programmes in the clusters | Nos. | -- | -- | 16 | 20 | 25 |
| | | [5.1.2] Support to Innovative proposals of MSMEs from the clusters | Nos. | -- | -- | 22 | 35 | 50 |
| [6] To provide technology based support for programmes aimed at benefitting women; | [6.1] Support proposals from a Non-Governmental Organisations (NGOs), Women Self-Help Groups (SHGs) and other concerned agencies | [6.1.1] Number of agencies supported | Nos. | 8 | 8 | 8 | 8 | 9 |

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value | Actual Value | Target Value | Projected Value for FY 13/14 | Projected Value for FY 14/15 |
|---|--|--|------|--------------|--------------|--------------|------------------------------|------------------------------|
| | | | | FY 10/11 | FY 11/12 | FY 12/13 | | |
| [7] To prepare a roadmap for Sectoral Innovation Council on Industrial R&D; | [7.1] To organize stakeholder meetings for seeking inputs | [7.1.1] Compilation of stakeholder inputs into a roadmap | Date | -- | -- | 10/03/2013 | -- | -- |
| [8] To track scientific innovations in the country; | [8.1] Creation of a Scientific Innovations Database | [8.1.1] Finalization of database structure and sources of information | Date | -- | -- | 18/09/2012 | -- | -- |
| | | [8.1.2] Scientific innovations added in the database | Nos. | -- | -- | 115 | -- | -- |
| [9] To assess the outcome of major technologies of national importance, developed by CSIR on a continuous basis; | [9.1] To carry out an economic impact assessment of major technologies of national importance, developed by CSIR | [9.1.1] Identification of technologies of national importance, developed by CSIR | Nos. | -- | -- | 5 | 5 | 5 |
| | | [9.1.2] Preparation of technology impact assessment reports | Nos. | -- | -- | 5 | 5 | 5 |
| [10] Capacity building of Asia Pacific region through Asian & Pacific Centre for Transfer of Technology (UN ESCAP-APCTT); | [10.1]To provide infrastructural and programme support | [10.1.1] Provision of Institutional support | Date | 3 | -- | 15/01/2013 | 15/01/2014 | 15/01/2015 |
| | | [10.1.2] Programme activities supported | Nos. | -- | -- | 1 | 1 | 1 |
| [11] To implement e-Governance and ERP initiatives; | [11.1]Design, Development, Validation and Certification of Enterprise Resource Planning (ERP) solution for e-Office as well as for department's external interface | [11.1.1] User Acceptance of the e-Office and ERP package | Date | -- | -- | 31/12/2012 | -- | -- |

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value | Actual Value | Target Value | Projected Value for | Projected Value for |
|--|--|---|------|--------------|--------------|--------------|---------------------|---------------------|
| | | | | FY 10/11 | FY 11/12 | FY 12/13 | FY 13/14 | FY 14/15 |
| * Efficient Functioning of the RFD System | Timely submission of Draft for Approval | On-time submission | Date | 05/03/2010 | 07/03/2011 | 06/03/2012 | -- | -- |
| | Timely submission of Results | On- time submission | Date | 29/04/2011 | 30/04/2012 | 03/05/2012 | -- | -- |
| * Administrative Reforms | Implement mitigating strategies for reducing potential risk of corruption | % of implementation | % | -- | -- | 95 | -- | -- |
| | Implement ISO 9001 as per the approved action plan | Area of operations covered | % | -- | -- | 95 | -- | -- |
| | Identify, design and implement major innovations | Implementation of identified innovations | Date | -- | -- | 06/03/2013 | -- | -- |
| * Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department | Implementation of Sevottam | Independent Audit of Implementation of Citizen's Charter | % | -- | -- | 95 | -- | -- |
| | | Independent Audit of implementation of public grievance redressal system | % | -- | -- | 95 | -- | -- |
| * Ensuring compliance to the Financial Accountability Framework | Timely submission of ATNs on Audit paras of C&AG | Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG during the year. | % | -- | -- | 90 | -- | -- |
| | Timely submission of ATRs to the PAC Sectt. on PAC Reports. | Percentage of ATRS submitted within due date (6 months) from date of presentation of Report to Parliament by PAC during the year. | % | -- | -- | 90 | -- | -- |
| | Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before | Percentage of outstanding ATNs disposed off during the year. | % | -- | -- | 90 | -- | -- |

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value FY 10/11 | Actual Value FY 11/12 | Target Value FY 12/13 | Projected Value for FY 13/14 | Projected Value for FY 14/15 |
|-----------|--|--|------|--------------------------|--------------------------|--------------------------|------------------------------------|------------------------------------|
| | 31.3.2012. | | | | | | | |
| | Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2012 | Percentage of outstanding ATRS disposed off during the year. | % | -- | -- | 90 | -- | -- |

* Mandatory Objective(s)

Section 4:
Description and Definition of Success Indicators
and Proposed Measurement Methodology

| Success Indicators | Actions | Description and Definition | Measurement Methodology |
|---|---|---|--|
| Objective 1 | | | |
| To promote and nurture research and development in industry with a view to enhance industry's share in national R&D expenditure | Recognition and renewal of R&D Centres | Applications for In-house R&D are scrutinized in the department and those recommended by the Screening Committee are approved by the Competent authority for recognition / registration. Similarly applications for renewal of recognition are scrutinized in the department and approved by the competent authority. | The number of new in-house R&D centres, SIROs and PFRIs recognized / registered or the recognition renewed |
| | Fiscal incentives for Scientific Research | As per Income Tax Act, Secretary, DSIR is the prescribed authority for approval of companies for claiming weighted deduction on R&D expenditure. The department reports the expenditure eligible for weighted tax deduction to DGIT (E). | The number of companies eligible for weighted tax deduction notified to DGIT (E). |

| | | | |
|--------------------|--|--|--|
| | Assessment of R&D and Innovation output of industry | Evaluation and assessment of R&D being carried out in industrial units. | Number of new patents filed and value of new products commercialized by industrial units during the year. |
| | Online Access to scientific journals by In-house R&D units and SIROs | The scientific journals shall be made available to the In-house R&D units and SIROs online at subsidized cost so that the concerned institutions can enhance their knowledge and research activities | No. of In-house R&D units and SIROs accessing scientific journals shall be tracked at the time of granting / renewing recognition. Quality of research of the institutions shall be assessed by papers published, patents granted and technologies commercialized. |
| Objective 2 | | | |

| | | | |
|--|--|--|--|
| <p>To promote innovations through its resources and channelize benefits for public good.</p> | <p>To launch new scheme on "Promoting Innovations in Individuals, Start-ups and MSMEs" (PRISM) and finalize its guidelines</p> | <p>Under the scheme, innovative proposals of MSMEs shall be supported; CSIR –Cluster Innovation Centres (CICs) promoted by National Innovation Council shall be supported for providing innovative solutions; existing network of TePP Outreach Centres shall be expanded; proposals from individual innovators / incubates shall be supported; and support shall be extended to approved Technopreneur Promotion Programme (TePP) projects, spilling over from the 11th five year plan.</p> | <p>Periodic monitoring of various stages of approval and internal discussions on draft guidelines.</p> |
|--|--|--|--|

| | | | |
|--|--|--|--|
| | <p>To launch new scheme on "Patent Acquisition and Collaborative Research and Technology Development" (PACE) and finalize its guidelines</p> | <p>Under the scheme, support shall be provided to Indian industries to acquire Intellectual Property at early stage from overseas or within the country and add value to the acquired IP; and focus shall be on Public-Private-Partnerships (PPP) to create enabling environment for collaborative research between Industry and Universities/Public Funded Research Institutions.</p> | <p>Periodic monitoring of various stages of approval and internal discussions on draft guidelines.</p> |
| | <p>To launch new scheme on "Building Industrial R&D and Common Research Facilities" (BIRD) and finalize its guidelines</p> | <p>Under the scheme, R&D in Industry shall be encouraged and supported; and support shall be provided for creation of Common Research Facilities for Small and Micro Industries.</p> | <p>Periodic monitoring of various stages of approval and internal discussions on draft guidelines.</p> |

| | | | |
|---------------------------|--|--|--|
| | <p>To launch new scheme on "Access to Knowledge for Technology Development and Dissemination" (A2K+) and finalize its guidelines</p> | <p>Under the scheme, Science, technology and innovation related international journals from major publishers shall be made accessible to 1500 in-house R&D units of industry and 600 Scientific & Industrial Research Organisations (SIROs) and techno-entrepreneurs, besides conducting studies/conferences on Industrial Status in the country; support shall be provided for Technological Empowerment of Women projects, including projects spilling over from the 11th five year plan; and support shall be extended to Technology Development and Demonstration Programme (TDDP) projects, spilling over from the 11th five year plan.</p> | <p>Periodic monitoring of various stages of approval and internal discussions on draft guidelines.</p> |
| <p>Objective 3</p> | | | |

| | | | |
|---|--|---|---|
| <p>To promote and support industry including start-ups for development of new products, processes and technologies leading to industrial competitiveness;</p> | <p>Completion of on-going Technology Development and Demonstration Programme (TDDP) projects</p> | <p>Projects only with innovative technological content are supported from the proof of concept / laboratory stage upto the pilot plant stage, Demonstrating the commercialization potential of the product / process developed.</p> | <p>Out of the total number of projects supported, projects that result into commercialization are measured which indicates the outcome.</p> |
| | <p>Independent evaluation of Technology Development and Demonstration Programme (TDDP)</p> | <p>Technology Development and Demonstration Programme (TDDP) was continued in the 11th Five Year Plan with an objective to assist industries in upscaling of the lab scale technologies upto pilot plant level before commercialization. Industries were required to pay back the grant received by them upon successful commercialization of the products / processes developed. The programme is being discontinued in the 12th Five Year Plan its present form. Experiences of the department in running the programme and its outcome shall be evaluated by an external agency.</p> | <p>Periodic meetings with the agency engaged for carrying out the independent evaluation shall be held to identify the evaluation criteria and accept the report.</p> |
| <p>Objective 4</p> | | | |

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|--|--|--|--|
| To encourage the spirit of creativity and innovativeness in individuals and scientist entrepreneurs; | Completion of on-going Technopreneur Promotion Programme (TePP) projects | Creative individuals are supported to convert their innovative ideas into prototypes / models. | Out of the total number of projects supported, products / prototypes and models developed indicate the outcome. |
| | Independent evaluation of Technopreneur Promotion Programme (TePP) | Technopreneur Promotion Programme (TePP) was continued in the 11 th Five Year Plan with an objective to assist individual innovators in conversion of their innovative ideas into workable prototypes / models. The programme is being discontinued in the 12 th Five Year Plan its present form. Experiences of the department in running the programme and its outcome shall be evaluated by an external agency. | Periodic meetings with the agency engaged for carrying out the independent evaluation shall be held to identify the evaluation criteria and accept the report. |
| Objective 5 | | | |

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| <p>To promote and support Cluster Innovation Centres in MSME Cluster initiated by National Innovation Council;</p> | <p>To support proposals for establishment of new Cluster Innovation Centres in MSME Clusters in association with National Innovation Council (NInC)</p> | <p>NInC and CSIR have entered into an MoU wherein innovations in about 150 clusters shall be supported. DSIR is already supporting 7 pilot clusters initiated by the National Innovation Council (NInC) viz. Bamboo Cluster at Agarthala, Pharma Cluster at Ahmedabad, Food Processing Cluster at Krishnagiri, Brassware Cluster at Moradabad, Auto-component clusters at Faridabad, Ayurveda Cluster at Thrissur and Delhi University Cluster at New Delhi. DSIR shall provide the partial support for: Establishment of the other Cluster Innovation Centres (CICs); organization of training programmes in clusters; and innovative proposals of MSMEs in clusters.</p> | <p>In collaboration with NInC, no. of new Cluster Innovation Centres shall be identified, training programmes shall be organized in association with agencies such as CII, IL&FS, TCS etc. and innovative proposals shall be solicited by engaging CSIR scientists with MSMEs in the clusters.</p> |
| <p>Objective 6</p> | | | |
| <p>To provide technology based support for programmes aimed at benefitting women;</p> | <p>Support proposals from a Non-Governmental Organisations (NGOs), Women Self-Help Groups (SHGs) and other concerned agencies</p> | <p>Inviting projects from NGOs and other organizations aimed at evolving technological solutions for the benefit of women.</p> | <p>The numbers of projects approved are the ones recommended by Technical Advisory Committee (TAC) and concurred by IFD.</p> |
| <p>Objective 7</p> | | | |

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| To prepare a roadmap for Sectoral Innovation Council on Industrial R&D | To organize Stakeholder meetings for seeking inputs | Sectoral Innovation Council on Industrial R&D was setup last year. Preparation of a roadmap to achieve the objectives and deliverables of Sectoral Innovation Council is proposed during the year. | Sectoral Innovation Council will hold periodic meetings with various stakeholders to obtain inputs and suggestions for formulation of an effective roadmap that will clearly identify the roles of each stakeholder. |
| Objective 8 | | | |
| To track scientific innovations in the country | Creation of a Scientific Innovations Database | Scientific Innovations Database shall include parameters such as title, source, description, utility, commercialization details and impact of innovations. The sources for compilation of innovations shall include the patent database, National Innovation Foundations' Grass-root Innovations, Technology Business Incubators, Science & Technology Entrepreneurship Parks, Innovation awards given by various agencies and the various programmes of the Govt. of India leading to innovative products / services. | The innovations compiled from various sources shall be assessed by an expert committee before uploading the same on the database. The committee shall also study and benchmark the proposed database with similar innovation databases existing elsewhere. |
| Objective 9 | | | |

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| <p>To assess the outcome of major technologies of national importance, developed by CSIR on a continuous basis</p> | <p>To carry out an economic impact assessment of major technologies of national importance, developed by CSIR</p> | <p>CSIR is engaged in development of several technologies having useful industrial applications. Some of these technologies are of national importance, having direct benefit to the laboratories and industries who commercialize these technologies as well as indirect benefits to the economy and society by way of access to affordable health, pollution free environment and fulfillment of their basic needs.</p> | <p>The direct benefits of major CSIR technologies shall be assessed in terms of royalty to the laboratories and commercial profits of the industry. Indirect benefits to economy and society shall be assessed by evaluating the costs of accessing alternate products / services by the people, in absence of products / processes based on CSIR technologies.</p> |
| <p>Objective 10</p> | | | |
| <p>Capacity Building of Asia Pacific region through Asian and the Pacific Centre for Transfer of Technology (UN ESCAP-APCTT).</p> | <p>To provide infrastructural and programme support</p> | <p>DSIR is the country's focal point for United Nations Economic and Social Commission for Asian and the Pacific Centre for Transfer of Technology (UN ESCAP-APCTT). The department provides institutional grant and programme support. UN ESCAP decides the programmes to be carried out by APCTT.</p> | <p>Number of programmes / activities supported in a year are measured</p> |
| <p>Objective 11</p> | | | |

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| <p>To implement e-Governance and ERP initiatives.</p> | <p>Design, Development, Validation and Certification of Enterprise Resource Planning (ERP) solution for e-Office as well as for department's external interface</p> | <p>System Study, Requirement specification, Process, Information Architectures, and Development of ERP, Graphical User Interface (GUI) Validation, User Acceptance Test (UAT) and Certification</p> | <p>Validation, Successful User Acceptance Test (UAT), Functional Testing, Alpha Testing and certification.</p> |
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Section 5:
Specific Performance Requirements from other Departments

| Department | Relevant Success Indicator | What do you need? | Why do you need? | How much you need? | What happens if you do not get it? |
|--|--|---|--|---|---|
| Relevant scientific departments e.g. DST, DBT, Ministry of Environment and Forests, Ministry of New and Renewable Energy, Department of Information Technology, etc. | Approval of fresh projects for funding | Peer review of fresh proposals | To assist the Technical Advisory Committee (TAC) of the Department in recommendation of the projects | This is an essential requirement for recommendation of proposals by TAC | Approval of fresh projects will be affected if peer review comments not received. However, Department will have to follow up telephonically/ through SMS etc. |
| Relevant scientific departments e.g. DBT, Department of Information Technology, Department of Pharmaceuticals, Department of Chemicals & Petrochemicals, Department of Agriculture, ICMR, ICAR, etc. | Recognition of new In-house R&D units, SIROs and PFRIs | Comments and views on the applications received for recognition | The views of Administrative Ministry are taken into consideration before recognition | To take care of any untoward experience of other departments in respect of any In-house R&D unit, SIRO or PFRIs | Absence of comments may hold up recognitions. However, Department will have to follow up telephonically/ through SMS etc. |

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| Department of Revenue, Ministry of Finance | Approval of new cases for Income tax Deduction / benefits on R&D investments | Long term policy on fiscal incentives for scientific research required | For efficient implementation of fiscal incentives by DSIR | Sufficiently long term policy of 10-15 years duration required | If the incentives are announced or withdrawn frequently, industry response to R&D diminishes. However, department encourages industry for R&D through other mechanisms. |
| National Innovation Council and Ministry of MSME | To promote and support Cluster Innovation Centres in MSME Cluster initiated by National Innovation Council; | Cluster Proposals as per departmental guidelines | To seek approval of competitive authority and extend support to the clusters | Adequate No. of cluster proposals so as assist in establishment of the targeted no. of clusters for the year. | Targeted number of clusters may not be supported in absence of proposals. However, the department shall maintain a close liaison with NInC to obtain proposals. |

Section 6: Outcome/Impact of Department/Ministry

| Outcome/Impact of Department/Ministry | Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies) | Success Indicator | Unit | FY 10/11 | FY 11/12 | FY 12/13 | FY 13/14 | FY 14/15 |
|---|---|--|--------------|----------|----------|----------|----------|----------|
| 1 Increased R&D spend by industry | Director General of Income Tax (E) | R&D expenditure certified u/s. 35(2AB) of Income Tax | Rs. in Crore | 3200 | 3500 | 3800 | 4000 | 4200 |
| 2 Enhanced innovative output of industry | Industry | No. of Innovative products / processes successfully demonstrated | Nos. | 6 | 3 | 8 | 10 | 12 |
| 3 Nurturing innovative potential of individuals | TePP Outreach Centres | No. of innovations demonstrated by individuals | Nos. | 32 | 37 | 40 | 42 | 45 |
| 4 Enhanced the competitiveness of MSME Clusters | National Innovation Council (NInC) and Ministry of MSME | No. of innovative proposals from MSME Clusters | Nos. | | | 22 | 35 | 50 |