



R F D

Results Framework Document
for
Ministry of Water Resources

(2009-2010)

Section 1: Vision, Mission, Objectives and Functions

Vision

Optimal sustainable development, maintenance of quality and efficient use of water resources to match with the growing demands on this precious natural resource of the country

Mission

- To develop policies, programmes and practices, which would enable the efficient and effective use of the country's water resources in an equitable and sustainable manner with active involvement of all stakeholders
- To develop policies, programmes and practices, which would enable mitigation of floods and control the river bank and coastal erosions
 - To put into place systems and practices, which would result in sustained increase in water use efficiency
 - To actively engage with the neighbouring countries and the international community for the harmonious development and utilization of water resources
 - To disseminate information, skills and knowledge, which would help in capacity building and mass awareness

Objectives

- 1 Accelerating irrigation development / stabilizing created facilities
- 2 Utilization of created irrigation potential
- 3 Flood management
- 4 Research and development
- 5 To promote policies and programmes for harnessing the untapped water wealth of the country in a sustainable manner
- 6 To engage in active 'water diplomacy' for mutually beneficial use of water resources of inter-national rivers shared with neighbouring countries for overall economic development in the region

Functions

- 1 Development, conservation and management of water as a national resource; overall national perspective of water planning and coordination in relation to diverse uses of water. National Water Resources Council
- 2 General Policy, technical assistance, research and development training and all matters relating to irrigation, including multi-purpose, major, medium, minor and emergency irrigation works, hydraulic structures for navigation and hydropower; tube wells and groundwater exploration and exploitation; protection and preservation of ground water resources; conjunctive use of surface and ground water, irrigation for agricultural purposes, water management, command area development; management of reservoirs and reservoir sedimentation; flood (control) management, drainage, drought proofing, water logging and sea erosion problems; and dam safety.
- 3 Regulation and development of inter-State rivers and river valleys. Implementation of Awards of Tribunals through Schemes, River Boards. Water Laws, legislation. Water quality assessment.

Section 1: Vision, Mission, Objectives and Functions

- 4 International organizations, commissions and conferences relating to water resources development and International Water Law. Matters relating to rivers common to India and neighbouring countries; the Joint Rivers Commission with Bangladesh; the Indus Waters Treaty 1960; the Permanent Indus Commission. Bilateral and external assistance and cooperation programmes in the field of water resources development.

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

| Objective | Weight | Action | Success Indicator | Unit | Weight | Target / Criteria Value | | | | |
|--|--------|--|---|---------------|--------|-------------------------|----------|-------|-------|-------|
| | | | | | | Excellent | VeryGood | Good | Fair | Poor |
| | | | | | | 100% | 90% | 80% | 70% | 60% |
| 1 Accelerating irrigation development / stabilizing created facilities | 45.00 | To provide financial assistance under Accelerated Irrigated Benefits Programme (AIBP) | Financial assistance released to states | Rs in Crores | 22.950 | 8000 | 7200 | 6400 | 5600 | 3000 |
| | | Creation of irrigation potential through AIBP assisted Major and medium project | irrigation potential created | Lakh Hectares | 4.050 | 9 | 7.8 | 6.6 | 5.4 | 3 |
| | | Creation of irrigation potential through AIBP assisted Minor project | irrigation potential created | Lakh Hectares | 1.800 | 1.5 | 1.3 | 1.1 | 0.9 | 0.3 |
| | | Completion of AIBP assisted Major and medium projects | Irrigation projects completed | Nos | 4.050 | 15 | 12 | 9 | 6 | 2 |
| | | Completion of AIBP assisted Minor projects | Irrigation projects completed | Nos | 2.250 | 800 | 720 | 640 | 560 | 400 |
| | | To provide financial assistance under scheme for Repair, Renovation and Restoration of Water Bodies (RRRWB) | Financial assistance released to states | Rs in crores | 4.950 | 399 | 359 | 319 | 279 | 150 |
| | | Restoration of irrigation potential through restoration of water bodies | restoration of irrigation potential | Hectares | 3.150 | 69000 | 62100 | 55200 | 48300 | 30000 |
| | | Completion of restoration of water bodies | Water bodies fully restored | Nos | 1.800 | 1000 | 800 | 600 | 400 | 100 |
| 2 Utilization of created irrigation potential | 20.00 | To provide financial assistance to States under Command Area Development and Water Management (CAD&WM) Programme | Financial assistance released to states | Rs in Crores | 10.000 | 400 | 360 | 320 | 280 | 100 |
| | | Coverage of culturable command area with command area development works etc. | Command area coverage | Lakh Hectares | 5.000 | 3.5 | 3.2 | 2.8 | 2.5 | 1 |
| | | Completion of CAD&WM assisted projects | Irrigation projects completed | Nos | 5.000 | 10 | 8 | 6 | 4 | 2 |
| 3 Flood management | 20.00 | Flood forecasting – to issue flood forecast and reservoir inflow forecast as per | Accurate forecast as % of total forecast issued | Percent | 7.000 | 96 | 94 | 92 | 90 | 85 |

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

| Objective | Weight | Action | Success Indicator | Unit | Weight | Target / Criteria Value | | | | |
|---|--------|---|--|--------------|--------|-------------------------|----------|------|------|------|
| | | | | | | Excellent | VeryGood | Good | Fair | Poor |
| | | | | | | 100% | 90% | 80% | 70% | 60% |
| | | requirement (about 6000 forecast per year) | | | | | | | | |
| | | Support to States for undertaking flood control and anti-erosion activities – to provide financial assistance of Rs 900 crores | Fund released to states | Rs in crores | 7.000 | 900 | 810 | 720 | 630 | 500 |
| | | Support to States for undertaking flood control and anti-erosion activities –completion of 150 works | Works completed | Nos | 6.000 | 150 | 135 | 120 | 105 | 60 |
| 4 Research and development | 10.00 | Research on various aspects of water resources and to bring out 300 technical reports, and 250 research papers | No of reports/papers brought out | Number | 5.000 | 550 | 520 | 490 | 460 | 400 |
| | | Organization of 86 training programmes by various Institutes namely National Water Academy, Rajiv Gandhi National Ground Water Training and Research Institute, National Institute of Hydrology, Central Water and Power Research Station and Central Soil and Material Research Station. | No of training programmes organised | Number | 5.000 | 86 | 82 | 77 | 73 | 65 |
| * Efficient Functioning of the RFD System | 5.00 | Timely submission of Draft for Approval | On-time submission | Number | 2.000 | 0.00 | 1.00 | 2.00 | 3.00 | 4.00 |
| | | Timely submission of Results | On- time submission | Number | 2.000 | 0.00 | 1.00 | 2.00 | 3.00 | 4.00 |
| | | Finalize a Strategic Plan | Finalize the Strategic Plan for next 5 years | Number | 1.000 | 0.00 | 1.00 | 2.00 | 3.00 | 4.00 |

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value for FY 07/08 | Actual Value for FY 08/09 | Target Value for FY 09/10 | Projected Value for FY 10/11 | Projected Value for FY 11/12 |
|--|--|---|---------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| 1 Accelerating irrigation development / stabilizing created facilities | To provide financial assistance under Accelerated Irrigated Benefits Programme (AIBP) | Financial assistance released to states | Rs in Crores | 5445 | 7598 | 8000 | 10800 | 10225 |
| | Creation of irrigation potential through AIBP assisted Major and medium project | irrigation potential created | Lakh Hectares | 5.43 | 5.38 | 9.00 | 10.50 | 13.50 |
| | Creation of irrigation potential through AIBP assisted Minor project | irrigation potential created | Lakh Hectares | 1.07 | 1.06 | 1.50 | 1.50 | 1.50 |
| | Completion of AIBP assisted Major and medium projects | Irrigation projects completed | Nos | 8 | 18 | 15 | 15 | 15 |
| | Completion of AIBP assisted Minor projects | Irrigation projects completed | Nos | 616 | 776 | 800 | 850 | 800 |
| | To provide financial assistance under scheme for Repair, Renovation and Restoration of Water Bodies (RRRWB) | Financial assistance released to states | Rs in crores | -- | -- | 399 | 1000 | 1210 |
| | Restoration of irrigation potential through restoration of water bodies | restoration of irrigation potential | Hectares | -- | -- | 69000 | 500000 | 700000 |
| | Completion of restoration of water bodies | Water bodies fully restored | Nos | -- | -- | 1000 | 2000 | 3000 |
| 2 Utilization of created irrigation potential | To provide financial assistance to States under Command Area Development and Water Management (CAD&WM) Programme | Financial assistance released to states | Rs in Crores | 277 | 324 | 400 | 450 | 426 |
| | Coverage of culturable command area with command area development works etc. | Command area coverage | Lakh Hectares | 4.50 | 4.30 | 3.50 | 3.50 | 3.50 |

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value for FY 07/08 | Actual Value for FY 08/09 | Target Value for FY 09/10 | Projected Value for FY 10/11 | Projected Value for FY 11/12 |
|---|---|---|--------------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| | Completion of CAD&WM assisted projects | Irrigation projects completed | Nos | 8 | 9 | 10 | 10 | 10 |
| 3 Flood management | Flood forecasting – to issue flood forecast and reservoir inflow forecast as per requirement (about 6000 forecast per year) | Accurate forecast as % of total forecast issued | Percent | 97.1 | 97.9 | 96 | 96 | 96 |
| | Support to States for undertaking flood control and anti-erosion activities – to provide financial assistance of Rs 900 crores | Fund released to states | Rs in crores | 108 | 561 | 900 | 1000 | 145 |
| | Support to States for undertaking flood control and anti-erosion activities –completion of 150 works | Works completed | Nos | -- | 1 | 150 | 150 | 150 |
| 4 Research and development | Research on various aspects of water resources and to bring out 300 technical reports, and 250 research papers | No of reports/papers brought out | Number | 552 | 701 | 550 | 550 | 550 |
| | Organization of 86 training programmes by various Institutes namely National Water Academy, Rajiv Gandhi National Ground Water Training and Research Institute, National Institute of Hydrology, Central Water and Power Research Station and Central Soil and Material Research Station. | No of training programmes organised | Number | 77 | 93 | 86 | 85 | 85 |
| * Efficient Functioning of the RFD System | Timely submission of Draft for Approval | On-time submission | Number | 23 | 20 | 125 | 23 | 25 |

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

| Objective | Action | Success Indicator | Unit | Actual Value for FY 07/08 | Actual Value for FY 08/09 | Target Value for FY 09/10 | Projected Value for FY 10/11 | Projected Value for FY 11/12 |
|-----------|------------------------------|--|--------|---------------------------|---------------------------|---------------------------|------------------------------|------------------------------|
| | Timely submission of Results | On- time submission | Number | 23 | 20 | 23 | 23 | 23 |
| | Finalize a Strategic Plan | Finalize the Strategic Plan for next 5 years | Number | 23 | 40 | 32 | 23 | 23 |

* Mandatory Objective(s)

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

All water resources projects whether irrigation projects or flood management schemes are planned and implemented by the respective State Governments. Government of India provides technical assistance and also financial assistance through various schemes namely “Accelerated Irrigation Benefits Programme”, “Repair, Renovation and Restoration of Water Bodies”, “Command area Development and Water Management”, “Flood Management Programme” etc. The proposals of the State Governments for inclusion under specific programme or scheme of the Ministry of Water Resources are required to fulfill all the requirements of the guidelines and an important requirement for major and medium irrigation projects as well as for flood control projects relates to clearance of the project proposed by the State Governments by the Technical Advisory Committee (TAC) and the investment clearance of the Planning Commission. The process constitutes an important component as this helps proper techno-economic evaluation of the projects to ensure that the projects are technically feasible and economically viable and that all other requirements in respect of environmental and rehabilitation and resettlements aspects etc. are fully adhered to. Thus considerable activities are involved before release of the central assistance for the projects. Further, the projects are closely monitored and even for the release of next installment of the central assistance, the monitoring report is mandatory. In view of considerable processing associated with the inclusion of the scheme for central support and release of the central assistance, it is considered appropriate to include the release of the funds as one of the important indicator of the achievement. This is more so since the prior examination and monitoring of the project contributes considerably in ensuring physical sustainability of the project. Further, the emphasis has been laid not only on completion of the projects but also in creation of the irrigation potential even with part completion of the projects. Therefore, following success indicators have been proposed in respect of the key objective accelerating irrigation development / stabilizing created facilities.

- Fund released to States
- Irrigation potential created
- Number of irrigation projects completed

Similarly, for the key objective utilization of created irrigation potential, the following success indicators have been proposed.

- Fund released to States
- Command area fully covered

- Number of irrigation projects in which the works related to command area development and water management are fully completed

However, in case of the key objective “flood management”, the works are primarily related to critical areas to be protected from floods or the works to be undertaken for controlling the erosion of river banks or the coastal erosion. Therefore, the success indicators adopted in this case are as under.

| Actions / Strategies to achieve the objectives | Success indicator |
|---|--|
| Flood forecasting –to issue flood forecast and reservoir inflow forecast as per requirement | •Accurate forecast as % of total forecast issued |
| Support to States for undertaking flood control and anti-erosion activities –to provide financial assistance of Rs 900 crores to States and 306 works in to be completed. | •Fund released to States •Number of works completed |

In case of the key object “research and development”, the physical achievements either in the form of completion of the technical report / research paper or organization of training programmes have been adopted as the success indicator.

Further, the water resources projects generally have very long gestation period. Therefore, the assessment of progress either in respect of creation of irrigation potential or completion of the project are reported on by the States bi-annually. In view of this position, the target indicated in the Results-Framework Document is the cumulative value to be achieved during the year at the end of March 2010.

Section 5: Specific Performance Requirements from other Departments

All water resources projects whether irrigation projects or flood management schemes are planned and implemented by the respective State Governments. Therefore, the progress in respect of the identified actions / strategies in respect of key objectives (a) accelerating irrigation development / stabilizing created facilities, (b) utilization of created irrigation potential, and (c) flood management are fully dependent on the actions taken by the State Governments at almost all stages such as:
Approval Stage

- preparation of the project proposal as per the approved norms and submission for appraisal;
- compliance of the observations of appraising agencies including the Ministry of Environment and Forests (for clearance from environmental and forests considerations);
- compliance of Ministry of Social Justice and Empowerment from the view point of rehabilitation and resettlements;
- compliance of Ministry of Tribal Affairs in case of projects in tribal areas;

Implementation Stage

- providing matching allocation from State Plan;
- timely release of the funds to the project authorities;
- timely measures for land acquisition etc.;
- physical progress in respect of works;
- timely submission of the proposal for release of next installments along with requisite utilization certificate etc.; and
- adherence to the agreed time schedule for completion of works.

It would be observed that the progress is fully dependent on series of actions to be undertaken by the respective State Governments. Similarly, the progress is also dependent to some extent on the clearances to be accorded by the concerned Ministries particularly, the Ministry of Environment and Forests and Ministry of Social Justice and Empowerment. Planning Commission is also involved in the investment clearance. The releases for the State sector schemes namely “Accelerated Irrigation Benefits Programme”, “Repair, Renovation and Restoration of Water Bodies”, “Command area Development and Water Management”, “Flood Management Programme” are made by the Ministry of Finance.