

**TECHNOLOGY DEVELOPMENT, EXTENSION & TRAINING
FOR
WASTELANDS DEVELOPMENT IN NON-FOREST AREAS**



NATIONAL WASTELANDS DEVELOPMENT BOARD

**DEPARTMENT OF WASTELANDS DEVELOPMENT
MINISTRY OF RURAL DEVELOPMENT
NEW DELHI**

**"TECHNOLOGY DEVELOPMENT, EXTENSION & TRAINING'
FOR
WASTELANDS DEVELOPMENT IN NON-FOREST AREAS**

—: GUIDELINES :—

**NATIONAL WASTELANDS DEVELOPMENT BOARD
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GUIDELINES FOR CENTRAL SECTOR SCHEME OF 'TECHNOLOGY DEVELOPMENT EXTENSION AND TRAINING' FOR WASTELANDS DEVELOPMENT IN NON-FOREST AREAS

1.0 The Department of Wastelands Development was set up in July, 1992 and placed under the Ministry of Rural Development. The restructured National Wastelands Development Board (NWDB) was given the specific responsibility to evolve mechanisms for integrated development of non-forest wastelands through systematic planning and implementation, in a cost effective manner, specially to meet the needs of the people in the rural areas in respect of fuelwood and fodder.

1.1 As part of its activities in fulfilment of its mandate the NWDB sponsors research and extension of research findings to disseminate new and appropriate technologies for wastelands development.

2.0 OBJECTIVE OF THE SCHEME:

(a) To operationalise appropriate, cost effective and proven technologies for development of various categories of wastelands specially problem lands affected by soil erosion, land degradation, salinity, alkalinity, waterlogging etc.

(b) To implement location specific pilot project as demonstration models for development of wastelands on a sustainable basis.

(c) To take up pilot projects for development of wastelands through land based activities including pisciculture, duckery, bee-keeping etc.

(d) To disseminate research findings about new and appropriate technologies and the application of such technologies for promoting wastelands development.

3.0 TYPE OF PROJECTS/ACTIVITIES TO BE ASSISTED:

3.1 The major activities to be undertaken under the scheme would comprise of:

- (i) Agro-forestry models established/developed by ICAR would assist increase the productivity of private/community wastelands in non-forest areas, which will be adopted for research/demonstration under the scheme. The models are: Agri-cilviculture, Silvi-pasture, Agri-silvi-pasture, Energy plantation, Silvi-horticulture, Agri-silvi-horticulture, Home-stead/multi-story planting and other Agro-forestry systems.

- (ii) Planting of trees, shrubs, grasses, legumes, etc. having nitrogen fixing ability; rapid growth coppicing ability, and multi-purpose uses.
- (iii) Land-based economic activities other than planting at (i) above, like horticulture, pisciculture, piggery, duckery, etc. in view of the land capability.
- (iv) Conserve and increase water regime through soil and moisture conservation, vegetative measures like gully-plugging, check dams, water harvesting structures, terracing, bunding, trenching etc.
- (v) New and innovative techniques like use of VAM, tissue culture seedlings, vegetative propagation etc. to increase productivity of wastelands.
- vi) Extension and Training measures needed to disseminate proven and new technologies.

4. EXTENT AND PATTERN OF FINANCIAL ASSISTANCE

Under this Central Sector Scheme, 100% central grant will be admissible for implementing projects which are on lands owned by Governments/Government Institution/Government Undertakings including universities and non-profit making agencies or the Village Panchayats from which the usufructs will flow to the community.

For projects being executed on land belonging to private farmer/Corporate Sector the cost of the project would be shared in a 60:40 ratio between the NWDB and the Farmer/Corporate body.

4.1 PURPOSE FOR WHICH FINANCIAL ASSISTANCE WILL BE GIVEN:

Central assistance under the scheme will be provided for the purposes of:—

- Technology development/research
- Pilot projects
- Field trial of established technologies on farmers fields/village commons/other institutional lands.
- Extension and training

4.2 The Technology Extension Scheme deals with the promotion of research/operation research projects/extension. Hence, it would not be possible or advisable to restrict such projects by rigid norms specially cost norms etc. Each project proposal will be considered and sanctioned on the following basis:—

- (a) No brick and mortar structures (i.e. permanent structures) equipments (excluding those essential for the specific research purpose) would be supported.
- (b) The projects should have a mission approach and must be time bound.
- (c) There should ordinarily be no permanent staff sanctioned under the scheme.

4.3 The cost on staff and contingency, training and awareness raising, publicity, POL, TA/DA etc. should be provided under the "Overhead Charges" and ordinarily restricted to 20% of the cost of the project.

4.4 Treatment of problematic lands such as saline, alkaline, ravinous, waterlogged areas etc. warrant special financial provision with some additional inputs to bring the soil conditions for providing permanent vegetal cover. The funding requirements will, however, vary from project to project and justification provided for the same by the promoters of the project.

4.5 *Organisational Support*: This will be provided for by the Project Implementing Agencies. The financial support from NWDB for supporting essential research staff will be restricted to barest minimum.

4.6 *Preparation of report* and pictorial documentation would be done by the Project annually and the cost of this activity would be borne out of the provision of overheads.

4.7 *Lands to be taken up*: Non-forest wastelands owned by Central and State Governments and their agencies, Public Sector Undertakings, Corporate Sector, Universities, Panchayats, private lands of farmers etc.

5. *The Implementing Agencies*: The scheme envisages involving, Governmental agencies, Agricultural Universities, established and reputed Non-Governmental Organisations, Public Sector

Undertakings etc. to share responsibilities for taking up research/pilot projects to develop/demonstrate proven technologies and the dissemination of appropriate technologies prepared either through the TE scheme or even by other institutions.

6.0 Training and Extension:

6.1 *Training:* Adaptability of land-use technology for developing unproductive, wastelands in non-forest areas depend primarily on the skill and capability of the farmers to take up new and improved methods of land-use. Therefore, training of the farmers and trainers will be an integral part of the scheme.

6.2 A minimum of two training and orientation courses one for the farmers and the other for officials will be funded by NWDB at additional cost as per the norms given below:

- (i) The training and extension programme for farmers will be funded in respect of direct costs, i.e. training material, fee for resource personnel and expenses of trainee up to a limit of Rs. 75/- per person/day, for 5 days restricted to 100 participants. Training as an isolated activity will not be taken up and it will have to be related to a project where wasteland development technologies are being tested.
- (ii) The training of extension officers/staff of implementing agency, and other involved agencies, the permissible cost up to Rs. 100/- per person/day, for five days restricted to 20 participants.
- (iii) Based on the merits of each proposal planting materials such as Jo Jo Ba—production of genetically superior varieties and other high values pasture/horticulture, soil-building genetic species, will be funded under the scheme. No cost norms for such innovative projects can be prescribed.

The duration of the project will ordinarily be 3 to 5 years.

7. Sanction and Release of Funds:

- (i) The institution promoting the project would prepare a project brief giving information under the followings broad heads:

— Details about the Institution/Technical personnel etc.

- Objectives of the Scheme
 - Relation of the proposal to the objective of NWDB
 - Previous work done on this subject by other agencies
 - Application/Replicability of the project results
 - Physical and financial details of the project, yearwise
Details about land availability
 - Monitoring and Evaluation of the project
 - Results expected in physical terms.
- (ii) The proposal will be submitted to Department of Wastelands Development, Ministry of Rural Development, NBO Building, G-Wing, Nirman Bhawan, New Delhi-110 011, in duplicate in Annexure-III.
- (iii) The following procedure would be followed for approving the Projects:
- (a) There will be an initial scrutiny of the project to see that it conforms to these guidelines. Based on the scrutiny further details/clarifications may be obtained, if necessary, either through correspondence or discussion.
 - (b) Once the project is complete in all respects it would be submitted to the Sanctioning Committee concerned for consideration and approval.
 - (c) There will be two sanctioning committees as follows:—
- (i) Sanctioning Committee — Level I for projects involving an outlay of Rs. 10 lakhs and above:
- | | | |
|--|--------|----------|
| Additional Secretary | — DoWD | Chairman |
| Joint Secretary &
Financial Adviser | — DoWD | Member |
| Joint Secretary | — DoWD | Member |
| Representative of ICAR | | Member |
| Director (TE) | — DoWD | Member |
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- (ii) Sanctioning Committee — Level II for projects with an outlay below Rs. 10 lakhs.

Joint Secretary	— DoWD	Chairman
Representative	— ICAR	Member
Deputy Secretary	— DoWD (IFD)	Member
DIGF	— DoWD	Member
Director (TE)	— DoWD	Member

Both the Committees may co-opt technical experts, if needed.

- (iii) On approval of a project the TE section would issue the sanction and ensure that the terms and stipulations in the sanction are fully complied with. The Project will be approved for the entire period of the project i.e. three to five years as the case may be. The funds will be released on year to year basis or as specifically decided in the case of each project.
- (iv) After the release of the first instalment, release of the subsequent instalments will be subject to satisfactory level of physical and financial performance as envisaged in the project at the time of approval.

8. MONITORING AND EVALUATION:

(i) The implementing agency will submit progress reports on half-yearly basis in respect of approved programme (Annexure-I), besides an Annual Report for the full financial year along with Funds Utilisation Certificate and Audited Statement of Account of the Competent Authorities in the prescribed Form No. 19(A) of GFR, 1963.

(ii) The agency concerned will maintain a separate account for the project which will be open for inspection by officer(s) of NWDB and CAG authorised for the purpose.

(iii) At the completion of the project the agency concerned shall prepare a detailed Project Completion Report (PCR) of the results obtained and submit the report (in triplicate) to NWDB within three months of project's completion (Annexure-II).

iv) The implementing agency will evolve its own internal review and reporting system. A Technical Committee would be set up to review the progress of the Project once every six months.

9. DOCUMENTATION AND PUBLICATION:

The significant results/data and models worth replication will be compiled, documented, printed and made available to individuals and user-agencies by the NWDB.

ANNEXURE—I

HALF YEARLY PROGRESS REPORT FOR THE PERIOD ENDING_____

1. Title
-
-
2. Location
- 2.1 Duration
3. Name of Implementing
- Agency
4. Problem Identification
-
5. Objective(s)
- 5.1
- 5.2
- 5.3
6.

Activity	Physical		Financial	
	Target	Achievement	Sanctioned	Expenditure incurred

6.1

6.2

6.3

6.4 Training

No. of
Courses

No. of Farmers /
Participants* Officials

6.5 Publicity

- T.V. / Radio / Videos
- Pamphlates / Brochures
- Others

7. Monitoring

- 7.1 — Fertility improvement
- 7.2 — Moisture improvement

7.3 — Canopy improvement

7.4 Yield of Biomass of different type.....

7.5 Employment generated Regular

..... Casual

8. General Assessment

9. Remarks, if Any

Signature

Designation

Tel. No. Office

Residence

ANNEXURE-II

FORMAT FOR PREPARATION OF PROJECT COMPLETION REPORT (PCR)—AN OUTLINE

1. Definition

2. Scope

Rehabilitating Problem Lands

Increasing Biomass Productivity

3. INDIAN EXPERIENCES

Traditional

R & D Results

4. NWDB-ICAR PROJECTS

Objectives—

Ecological

Socio-Economic

Methodology—

Review of ICAR Project Outputs

Review of Traditional Systems

Collating with Types of Wastelands

Net-Work—

Locations

Agro-Ecological Zones

Land Ownership

Agency Implementing

Agency/agencies Collaborating

Major Problem Lands Addressed

Major Socio-Economic Aspects Covered

Models

Types

Plants Combination(s)

Designs Adopted

(With a lay out showing crop geometry and spacing)

Parameters Monitored

Other Activities

(Relating to plants and associate crops)

5. PERFORMANCE

Establishment and Growth

Productivity

Compatibility

Ameliorative effects

Cost and Returns

Employment Generated

6. TRAINING AND AWARENESS

Training

Farmers' Courses

Official Courses

Other Target Group

(e.g. women, NGO/VA etc.)

Awareness

Camps

Publicity Materials

Films

Radio/TV Programme

7. EMERGING TRENDS

Technological

Social

Economic

8. FUTURE PROSPECTS AND AREAS NEEDING
FURTHER ATTENTION

Technology Gaps

Methodological Deficiencies

Services Required

Financing Needs

ANNEXURE—III

(PROFORMA FOR SUBMISSION OF PROPOSALS
(Para No. 7 of Guidelines)

1. PROJECT TITLE :
(Brief, Simple-Morale of Project)
2. IMPLEMENTING AGENCY :
(Promoter's name with full postal address)
3. Registration No. & Date :
(In the case of NGO, with copy of Registration certificate)
4. PROJECT DURATION :
(Financial year)
5. PROJECT ORJECTIVES :
(Desirable to aim at fewer objectives, not more than two or three)
6. PHYSICAL PLAN :
(Activity-wise and year-wise phasing)
7. OWNERSHIP OF LANDS :
—Private farmers
—Panchayat / Gram Sabha
—Government
—Institutional
8. NATURE OF PROBLEM WASTE :
LANDS
—Saline /Alkaline
—Ravinous
—Mine Spoils
—Waterlogged, etc.
9. LOCATION :
(State, District, Taluka, Village, with map)
10. COST ESTIMATES :
(Componentwise & Yearwise)

11. JUSTIFICATION :
 - Precise identification of the problem
 - Hypothesis to be tested
 - Questions to be answered
 - Problem that could be solved as a result of this project/study
12. RELEVANCE OF THE PROJECT :
STUDY

How the results will be relevant to improve formulation and implementation of wastelands development policy; plan or programme
13. APPROACH AND :
METHODOLOGY

(Problem-oriented-directness of delivery, timeliness, quality of technical backstopping cost sustainability)
14. DETAILS OF DATA COLLEC- :
TION AND ANALYSIS
15. STAFFING PATTERN :
 - Number & type of supporting staff period for which required and scale of pay
16. INSTITUTE'S/AGENCY'S CON- :
TRIBUTION

Extent of contribution proposed by the Institution/Organisation towards project cost by itemwise
17. BIO-DATA OF STAFF :
 - Academic qualifications and research experience of the project Director/Investigator and other Senior Staff to be associated with the project implementation
18. WORK DONE SO FAR ON THE :
SUBJECT

19. PRECISE CONTRIBUTION :
WHICH THE PROJECT IS EX-
PECTED TO MAKE TO THE EX-
ISTING BODY OF KNOWLEDGE
20. REPLICABILITY OF RESULTS :
21. ADDITIONAL INFORMATION, :
IF ANY

