



കേരള സർക്കാർ
GOVERNMENT OF KERALA

പതിനാലാംപഞ്ചവത്സര പദ്ധതി
FOURTEENTH FIVE YEAR PLAN
2022-2027

രണ്ടാം വർഷ പരിപാടി
SECOND YEAR'S PROGRAMME
2023-2024

വാല്യം II
Volume II

പരിപാടികളുടെ സംക്ഷിപ്ത വിവരണം
BRIEF DESCRIPTION OF PROGRAMMES

*ഫിനാൻസ് ഡിപ്പാർട്ടുമെന്റിൽ ടൈപ്പ്സെറ്റ് ചെയ്ത് സർക്കാർ
പ്രസ്സുകളുടെ സുപ്രണ്ടിനാൽ ഷൊർണ്ണൂർ പ്രസ്സിൽ അച്ചടിക്കപ്പെട്ടത് — 2023.*

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SOIL SURVEY AND SOIL CONSERVATION DEPARTMENT

III. Soil Survey

An outlay of ₹ 351.00 lakh is provided to Soil Survey for implementing the following schemes.

Sl. No.	Schemes	Amount (₹ in lakh)
1	Training to Soil Survey Officers	12.00
2	Laboratories	220.00
3	Soil Informatics and Publishing Cell including Soil Museum	110.00
4	Creation of data bank for classification of land	9.00
	Total	351.00

5. Training to Soil Survey Officers

(Outlay: ₹ 12.00 lakh)

Regular training of Soil Survey Officers in various areas like modern soil survey techniques, soil analysis, soil health improvement, Remote Sensing and GIS application, watershed management, natural resource management, disaster management are essential for application of modern technologies in soil survey. During 2023-24 an amount of ₹ 12.00 lakh is provided for the scheme and the outlay will be used for the following purposes.

1. Deputation of officers for training in state level/national level training institutes related to soil survey.
2. Deputation of officers for training in state level/national level institutions in watershed management, Remote Sensing and GIS.
3. Conduct trainings, seminars, symposia, workshops, conferences, awareness classes, interfaces and technical sessions related to soil.
4. Deputation of one officer for pursuing post graduate studies in Kerala Agricultural University (KAU) in the subjects pertaining to areas of function of the Department of Soil Survey and Soil Conservation. The allocation will cover only the tuition fees and no other items like hostel fee and salary. The application along with the proposal will be placed before the Working Group by the department, for specific approval subject to resource availability, and subject to concurrence of Finance Department.

6. Laboratories

(Outlay: ₹ 220.00 lakh)

The physical and chemical analysis of soil samples forms an essential component of soil survey as it supplements the field observations and enhances the quality of the soil survey reports. Presently, various analysis of all physical and chemical parameters of soil and water are being carried out at the seven laboratories under Soil Survey. In addition, pesticide residue analysis is being undertaken at Central Soil Analytical Laboratory, Thiruvananthapuram, Regional Soil Analytical Laboratory, Thrissur and Hi-tech Soil Analytical Laboratory, Kalpetta. In addition, the Central Soil Analytical Laboratory, Thiruvananthapuram is equipped with facilities for soil microbiological studies. The department is also continuing the Soil Health Management Support Service to Farmers of the State by providing them with Soil Health Cards for individual farmer's plots. The database

generated by the Department of Agriculture and the Department of Soil Survey and Soil Conservation will be integrated into a common soil digital portal. The Director of Agriculture and Director of Soil Survey and Soil Conservation will act together to achieve the objective of developing and maintaining a comprehensive soil fertility portal for the entire state.

During 2023-24, an outlay of ₹ 120.00 lakh is provided for strengthening of analytical facilities of the labs under Soil Survey, purchase of glass wares, chemicals and laboratory equipments for analysis in these labs, AMC for mobile soil testing lab (equipments only), and preparation of soil health cards. The outlay is not for establishing mobile soil test labs. No hiring or purchase of vehicle will be allowed.

Out of ₹ 220.00 lakh, an amount of ₹ 100.00 lakh is allotted for development and operationalization of 'Soil Digital Portal' with the objective of capturing, storing, sharing and managing soil resource information. The soil database generated for soil health card distribution by the various agencies/department (Department of Agriculture Development and Farmers Welfare, VFPCCK, KAU, KVKs etc.) will be integrated into this portal to facilitate the development of a comprehensive soil health data base of the entire State in a single platform.

Massive soil health card distribution programme will be carried out for the entire state with the convergence of various departments/agencies mandated with undertaking soil testing activities. Department of Soil Survey and Soil Conservation will be the nodal department for this program. Soil testing campaigns for distribution of Soil Health Cards will be done throughout the state with the coordination of Department of Agriculture Development & Farmers Welfare and Department of Soil Survey & Soil Conservation and the same will be uploaded in the Soil Digital Portal. The works with respect to development of the soil health portal, collating soil data and its updation will be done in integration.

An MoU in this regard shall be executed between the two Heads of departments and suitable plan of action has to be formulated for expediting the soil health card distribution for the entire state and maintenance of a robust interactive soil database. The detailed proposal will be placed before the Working Group for approval in advance, so as to initiate the process in April 2023.

7. Soil Informatics and Publishing Cell including Soil Museum

(Outlay: ₹ 110.00 lakh)

The Soil Informatics and Publishing Cell functions as a consultancy cell in various aspects of integrated management of soil and land resources, providing information support to the local bodies for the preparation of soil survey maps and for the formulation of programmes for the optimum use of land resources.

During 2023-24, an outlay of ₹ 90.00 lakh is provided for meeting the expenditure towards detailed soil survey, and publication of soil and land resource reports and maps, digitization special drive intended to transfer the soil data available with the department to digital format, travelling expenses, hiring charges of vehicles for field activities, engaging contract staff and other related expenditure for publication of reports and maps and generation of digital soil information. Expenses towards strengthening of the Geomatics lab will also be met from this.

During 2023-24, an outlay of ₹ 20.00 lakh is set apart for upgradation of Soil Museum with additional exhibits and maintenance of existing facilities including operational expenses of soil museum such as fuel expense for generator. Wages will not be allowed in this.

8. Creation of data bank for classification of land

(Outlay: ₹ 9.00 lakh)

Creation of databank for classification of land envisages categorization of land based on 22- fold classification of land use evolved by the National Remote Sensing Agency (NRSA). The scheme aims at application of remote sensing and GIS technology to improve the efficacy and accuracy of the soil survey by reducing the time lag in field survey and thematic map preparation and thereby making available the results of the survey to the end user.

During 2023-24 an amount of ₹ 9.00 lakh is provided for procurement and interpretation of satellite imagery and field level ground truth check, based on imagery interpretation. No additional staff will be provided under the scheme during 2023-24 and staff provision in 'Soil Informatics and Publishing Cell' scheme will be utilized for this.

IV. Soil Conservation

During 2023-24, the following schemes will be implemented by Soil Conservation Unit. The total outlay provided for Soil Conservation is ₹ 3565.00 lakh of which an amount of ₹ 2000.00 lakh and ₹ 300.00 lakh are under NABARD-RIDF and NIDA assistance respectively.

Individual beneficiary oriented schemes are not allowed for implementation through soil conservation unit of the Department of Soil Survey and Soil Conservation. Area based projects alone will be implemented for addressing larger issues on natural resource management. No cash transfer to beneficiaries will be allowed under the schemes.

Sl. No.	Schemes	Amount (₹ in lakh)
1	Soil and water conservation on watershed basis (RIDF)	2000.00
2	Protection of catchment of reservoirs of water supply schemes	65.00
3	Stabilization of landslide areas	400.00
4	Training programme for departmental staff and others	150.00
5	Application of Information technology and monitoring and Evaluation	50.00
6	Revival of water bodies	200.00
7	Development of micro watersheds	400.00
8	Participatory and sustainable micro watershed projects in 9 Local Self Govt institutions in Taliparamba LAC in Kannur (NIDA)	300.00
Total		3565.00

9. Soil and Water Conservation on Watershed Basis (NABARD – RIDF)

(Outlay: ₹ 2000.00 lakh)

Soil Conservation schemes on Watershed basis are implemented in selected districts under RIDF. The main objective of the scheme is to bring improved and sustainable

agricultural productivity in identified watershed areas by adopting soil and water conservation activities. During 2023-24, an outlay of ₹ 2000.00 lakh has been earmarked for NABARD assisted projects implemented by Soil Conservation Department. The ongoing projects under tranches of RIDF XXIV and XXV and new projects sanctioned in the forthcoming tranches of XXVIII and XXIX across the state will be covered. The Department aims to create adequate infrastructural facilities with regard to conservation and management of basic land resources viz., soil and water with a view to conserve fertile top soil, augment ground water recharge and enhance the agricultural production of the State. Under the scheme, emphasis will be given for execution of low cost ecofriendly agronomic conservation practices.

10. Protection of catchment of reservoirs of water supply schemes

(Outlay: ₹ 65.00 lakh)

The Project aims to check siltation in the reservoirs of the water supply projects and improve their carrying capacity. During 2023-24, the scheme is being implemented in the catchments of the reservoirs of Water Supply Schemes at Aruvikkara in Thiruvananthapuram District, Sasthamcotta in Kollam District and Peruvannamoozhi in Kozhikode District. Along with structural measures of conservation, vegetative measures like planting of grasses, wild vetiver, pandanus or other suitable species and application of geotextiles will also be adopted. An amount of ₹ 65.00 lakh is set apart for the scheme.

11. Stabilization of landslide areas

(Outlay: ₹ 400.00 lakh)

The scheme envisages adoption of scientific Soil and Water Conservation measures/management techniques for the stabilisation/reclamation of the land slide prone/affected ecosystems in the hilly terrains of the State. The project helps to stabilize/restore natural ecosystems prone to/affected by phenomena like landslide/landslip.

During 2023-24, an amount of ₹ 400.00 lakh is provided for continuing land slide stabilization schemes in Kottayam, Kollam, Palakkad, Malappuram, Pathanamthitta, Wayanadu, Kozhikode, and Idukki Districts and to take up new projects in areas affected by landslides and related natural calamities.

12. Training programme for departmental staff and others

(Outlay: ₹ 150.00 lakh)

An outlay of ₹ 100.00 lakh is provided for organizing training programs on soil conservation and related areas for the officers of soil conservation and other government agencies/line departments/LSGIs involved in soil conservation activities, public awareness campaigns at schools/colleges on the need to conserve natural resources and for participating and conducting exhibitions, expenses for the deputation of officers for mandatory training programme at IISWC, Dehradun.

An amount of ₹ 50.00 lakh is set apart for the completion of construction works in IWDM-K campus without any change in the existing arrangements for construction. No new construction of buildings or purchase of vehicles will be considered under the scheme during 2023-24. Amount required for the ongoing projects may be sanctioned only after careful and stringent scrutiny of physical progress of the work.

13. Application of Information Technology & Monitoring and Evaluation

(Outlay: ₹ 50.00 lakh)

During 2023-24, an amount of ₹ 50.00 lakh is provided to introduce e-office system in sub offices and for the functioning of monitoring and evaluation cell at Thrissur. The cell will undertake the regular monitoring of the schemes and the works carried out throughout the state. The outlay is also provided for the evaluation of soil and water conservation schemes implemented by the department by a third party agency selected by the Government through a committee chaired by the Agriculture Production Commissioner having highest credentials. No hiring or purchase of vehicles will be provided under the scheme.

14. Revival of Water Bodies

(Outlay: ₹ 200.00 lakh)

The scheme aims for the revival and development of the traditional water bodies, thalakulams, springs and various drainage sources for the augmentation of ground water potential and mitigating the severity of drought faced by the agricultural sector with the objective of harvesting maximum rain water for agricultural purposes. The treatment of various drainage sources, tributaries/rivulets of major rivers, enhancing ground water potential in critical/semi critical blocks will also be carried out by adopting scientific water conservation methods. During 2023-24 an amount of ₹ 200.00 lakh is set apart for the revival of water bodies.

15. Development of Micro Watersheds

(Outlay: ₹ 400.00 lakh)

The state needs to work towards mitigating and containing the ill-effects of soil erosion and work in a coordinated manner towards conservation of soil moisture. At the same time, we need to work towards building productive and sustainable enterprises through micro watershed development in the post flood/post landslide scenario. It will help to promote climate resilient agriculture. An amount of ₹ 400.00 lakh is provided for the development of Micro Watersheds.

During 2023-24, an allocation of ₹ 400.00 lakh will be utilized for the development of micro watersheds in Thrithala constituency of Palakkad district and Kuttiyadi constituency of Kozhikode district.

16. Participatory and sustainable micro watershed projects in 9 Local Self Government Institutions in Taliparamba LAC in Kannur (NIDA assistance from NABARD)

(Outlay: ₹ 300.00 lakh)

During 2023-24, an amount of ₹ 300.00 lakh is provided towards availing support as NIDA assistance from NABARD for undertaking soil and water conservation activities in 9 micro watersheds in 9 Local Self Government Institutions in Thaliparamba constituency. The allocation will be co-terminus with the terms and conditions of the agreement signed with NABARD.

V. Assistance to KLDC for implementing Projects

Kerala Land Development Corporation is implementing projects under RIDF of NABARD and also State Schemes. During 2023-24, an amount of ₹ 3930.00 lakh is provided to KLDC, of which ₹ 3680.00 lakh is for NABARD assisted RIDF projects and ₹ 250.00 lakh is for state plan schemes as given below: