

GOVERNMENT OF ODISHA

DIRECTORATE OF AGRICULTURE AND FOOD PRODUCTION, ODISHA

NOTIFICATION

DAFP-FERT-MISC-0008-2023- 28856 /Agril Dated 04.08.2023

SCHEME GUIDELINES UNDER STATE PLAN-

UNDER SCHEME 3714- CROP PRODUCTION MANAGEMENT

SUB SCHEME-MANAGEMENT OF SOIL HEALTH

1. **Background –**

The sub-scheme “Management of Soil Health” under State Plan Scheme 3714-Crop Production Management broadly includes all possible interventions for Soil Health Management by taking steps for the analysis of soil, fertilizer, pesticide, seeds, bio-fertiliser, seed, organic fertilizers etc. All activities related or required for maintaining/ improving soil health through application of balanced plant nutrients and addressing soil related production constraints such as soil acidity/ alkalinity/ salinity that greatly affects agriculture production will be undertaken through this scheme. As an outcome, the soil health is maintained by study of the soil fertility status which in turn guides the farmers regarding judicious use of fertilizers & micronutrients to different crops and their management leading to an increase in production & productivity.

- i. The Central as well as the State Government have a mandate of improving agricultural production & productivity through judicious use of chemical fertilizers in the crop field and adoption of sustainable soil health management practices. With the backdrop of this objective, soil testing has an important role to play in deciphering the appropriate path for maintaining/ improving soil health through application of balanced nutrient in form of major, secondary and micro nutrients and minimizing use of chemical fertilizers at one hand and practicing integrated nutrient management through application of organic manures and fertilizers on the other. For proper analysis of all the inputs and incorporating of results in extension works, proper and smooth operationalisation of all laboratories including soil, fertilizer, pesticide, seed and other quality control laboratories of the State is highly essential.
- ii. For operationalisation of these labs, a critical requirement is optimum positioning of trained technical manpower for analysis and making the equipments functional. The same is proposed to be done through Outsourcing till the creation of the posts in new laboratories under the Directorate. Presently, **19 Static Soil Testing Laboratories, 30 Mobile Soil Testing Labs and 1(one) Fertiliser Quality Control Lab** are operationalised through outsourcing. It is presently proposed to make all the laboratories functional through outsourcing by proper utilization of equipments, infrastructure which otherwise get deteriorated without use and requiring larger sums of money for their repair and maintenance, ultimately affecting the whole purpose of such set ups. Proposals are routed



for creation of new posts in the new laboratories set up

- iii. Further, soil acidity is a major issue in the State, about 40 lakh ha suffers from soil acidity to various degrees. Of these acid soils, nearly 32% i.e. 13 lakh ha is having pH (hydrogen ion (H^+) concentration) less than 5.5 i.e. moderate to highly acidic and need soil treatment for better production and productivity since most crops prefer to grow in a neutral soil (with pH 6.5 to 7.5). In this backdrop, it has been recommended by the Odisha University of Agriculture and Technology (OUAT) to apply lime in form of Dolomite or Paper Mill Sludge etc along with fertilisers and FYM to improve crop yield. It is stated that soil treatment for acidity enhances crop nutrition thereby enhance crop yields by 14-52%.
- iv. For collection, registration, analysis of soil samples although Govt of India is assisting at present, the quantum of Gol assistance does not meet our requirement of fund for the State drawn Action Plans. So a component for soil analysis is proposed under this scheme which is a pre-requisite step in every three years for the State to analyse the soil and provide the farmers with a Soil Health Card. More so, as Village Level Soil Testing Labs have come up with added capacity. The reports of such analysis help the field functionaries and farmers to decide regarding the judicious use of different fertilizers for sustainable crop production.
- v. Also, it is proposed to include charges required for the sample collection of fertilizer and other inputs in higher numbers from the field so that a proper monitoring of all inputs quality control can be made. Funds for mobility to block points towards quality control and enforcement are also proposed to be included under the scheme for efficient monitoring and utilization of quality inputs.
- vi. All the above activities are expected to result in an increase in production & productivity of crops in the State.

2. Scheme/ Programme Objectives –

- i. Timely analysis of soil samples of the farmers within the district and also at the farmers' doorstep through Soil Testing Laboratories (Static/ Mobile/ Village) and provide them with a Soil Health Card.
- ii. Recommendation of fertilizer doses based on soil test results for the crops that the farmers intend to cultivate. Judicious and balanced use of chemical fertilizers and their management thereby maintaining the status of soil health.
- iii. Provide requisite ameliorants/ assistance towards using of soil ameliorants for problem soils that are acidic, alkaline or saline.
- iv. Creation of awareness for field extension functionaries and farmers through Training and demonstration
- v. Quality control of chemical fertilizers, micronutrients and other inputs supplied to the farmers. Mobility at block level to be utilized for enforcement samples collection.
- vi. Operationalising all Soil, Fertiliser, pesticide and other Quality Control Laboratories under the Directorate by providing manpower through outsourcing, AMC of equipments wherever required and other requirements for smooth functioning of laboratories for achieving the target of analysis of soil, fertilizer, pesticide, bio-fertiliser, seed, organic fertilizers and other inputs.

3. Coverage under the Scheme/ Programme and duration-

[(i) In case of Capital projects, length/ area etc. of the work with detailed break-up as well as intended benefit to the public; (ii) In case of Social sector projects, the Target Beneficiaries, eligibility criteria, quantum of benefit to be detailed]

This is an ongoing scheme and presently proposed duration of the scheme is Five Years (From 2023-24 to 2027-28).

The target beneficiaries cover all type of farming community. The target beneficiaries are selected from a village/panchayat as per guideline issued from Govt of India from time to time. Presently soil samples will be collected in Operational holding basis. The soil sampling is also done considering any soil problematic villages or where the villages are not yet aware of soil testing and Soil Health Card. As per decision of Soil Chemist Officials of that particular district, Outsourcing Agency and PPL officials the soil samples are selected. Now Aadhar linkage is made compulsory while collecting the soil samples.

Quantum of benefit is presently the availability of Soil Health Card to the farmers. Providing the farmers with quality fertilizers, insecticides, bio-fertilisers, organic fertilisers etc. and accordingly strengthen the enforcement activities in the State.

4. **ACTIVITIES UNDERTAKEN**

a. **Operationalisation Of Static Soil Testing Laboratories (STL)**

- i. Presently, nineteen nos. of Static Soil Testing Laboratories at Angul, Keonjhar, Nuapada, Subarnapur, Bargarh, Rayagada, Malkangiri, Gajapati, Bhadrak, Jajpur, Boudh, Nawarangapur, Deogarh, Jharsuguda, Nayagarh, Puri, Kendrapara, Jagatsinghpur & Dhenkanal where there is no sanctioned strength at present and is being operationalised by an Outsourcing Agency M/s- LTC Commercial Company Pvt. Ltd. for a period of three years. The analysis capacity of the each of the above laboratory is 10,000 samples per year. The payment to the Outsourcing agency will be done centrally as per bills raised by agency duly verified and countersigned by district officials.
- ii. The funds for the purpose will be placed to the respective districts for utilization & monitoring the following activities of the laboratory.
- iii. Other laboratory expenses including electricity charges, internet charges, sewerage charges, other operational expenses shall be met from the allocated funds.
- iv. Purchase of glassware, chemicals, filter paper etc., (in case of exigencies only), purchase of new equipment may be done from this fund.
- v. Funds of previous years shall be utilized immediately, followed by submission of UC and then this fund shall be utilized.
The CDAO or ADA, Soil Chemist will stringently monitor the collection, registration and analysis of soil samples, dispatch of soil health cards to the farmers as per SOP issued.
- vi. The CDAO or ADA, Soil Chemist should also take up necessary steps for effective monitoring on implementation of recommendation made through Soil Health Cards and feedback thereof. The funds for feedback collection shall be utilized from the scheme.
- vii. In case of other laboratories, if the funds towards soil analysis is not assisted by Govt. of India then the same will be met from this Scheme after DA & FP (O) approval.
- viii. The cost structure and SOP as per GOI will be followed for the analysis expenses.

ix. An agreement is signed by DA & FP (O) with concerned agency for Operationalisation of the laboratories. **Presently, the agreement is valid till May, 2025.**

x. AMC of equipments of all laboratories to be met under this scheme.

i. b. **Operationalisation Of Mobile Soil Testing Laboratories (MSTL): -**

ii. Thirty nos. of Mobile Soil Testing Laboratories are presently operating in 19 districts as per the table detailed below.

iii. The rate and year of operation as detailed below is as per agreement valid till **31-03-2024**

Sl. No	Districts	No of MSTL Vans allotted	Diverted to/from districts, if any	Year of Operation	Rate (in Rs) per sample
1	Angul	1	Angul	2017	400
2	Bolangir	2	a) Bolangir b) diverted from Khurda	a) 2017 b) 2020	a) 400 b) 300
3	Balasore	2	a. Balasore b. diverted from Nayagarh	a. 2020 b. 2020	a. 300 b. 300
4	Bargarh	2	a. Bargarh b. diverted from Nabarangpur	a. 2016 b. 2012	a. 400 b. 420
5	Bhadrak	1	Bhadrak	2012	420
6	Boudh	-	Sonepur	2020	300
7	Cuttack	1	Cuttack	2014	400
8	Dhenkanal		Dhenkanal	2020	300
9	Ganjam	4	a. Ganjam-1 b. Ganjam-2	a. 2014 b. 2020	a. 400 b. 300

			c. Diverted from Rayagada	c. 2020	c. 300
			d. Analysis in MSTL Gajapati	d. 2012	d. 420
10	Kalahandi	3	a. Kalahandi-1 b. Kalahandi-2 c. Diverted from Kandhamal	a. 2016 b. 2020 c. 2020	a. 400 b. 300 c. 300
11	Kendrapada	1	Kendarapara	2016	400
12	Keonjhar	1	Keonjhar	2017	400
13	Koraput	1	Koraput	2014	400
14	Malkangiri	1	Malkangiri	2020	300
15	Mayurbhanj	3	a. Mayurbhanj-1 b. Mayurbhanj-2 c. Diverted from Jajpur	a. 2014 b. 2020 c. 2012	a. 400 b. 300 c. 420
16	Puri	2	a. Puri b. Diverted from Jagatsinghpur	a. 2012 b. 2020	a. 420 b. 300
17	Sambalpur	1	Sambalpur	2012	420
18	Subarnapur	1	Sonepur	2020	300
19	Sundargarh	2	a) Sundergarh b) Diverted from Jharsuguda	a) 2014 b) 2020	a) 400 b) 300

iii. It is the responsibility of CDAO, Sonepur & CDAO, Boudh to jointly plan the movement of MSTL assigned in co-ordination with PPL, to meet the target assigned, however the custody of MSTL will be CDAO, Sonepur. Funds are placed accordingly for 4000 & 1000 samples respectively.

- iv. All the MSTL vans are being operated by M/s Paradeep Phosphates Ltd. (PPL) Limited a Company registered under Companies Act 1956 its registered office at Bayan Bhawan (5th Floor) Pt. Jawaharlal Nehru Marg, Bhubaneswar-751001, District Khurda, State of Odisha as partner in PPP (Public Private Partnership) mode. **Presently, the agreement is valid till 31-03-2024.**
- v. The funds admissible for stipulated parameters for MSTLs will be paid to PPL from the available funds of previous years if any Soil Health Card Scheme under NMSA. The balance will be met from this scheme. The payment will be made by the districts to PPL on per sample basis.
- vi. Each Van has the annual analyzing capacity of 5000 samples and it is the responsibility of both the CDAOs and PPL to ensure the smooth functioning of these MSTLs. The funds for the purpose will be placed to concerned districts for utilization.
- vii. The ADA, Soil Chemist/ I/C soil chemist to check the proper functioning & maintenance of the machineries from time to time for getting the desired analysis result. Periodical inspection report should be sent to the CDAO/ ADA, Soil Chemist & PPL with a copy to DA & FP (O)
- viii. Allocation of annual sample analysis target for MSTL should be made rationally depending on the district target for optimum capacity utilization. **The mobile soil testing van should not be parked idle at the district head quarter/designated parking site in favorable movement time.**
- ix. The samples will be collected & registered by the field functionaries. **The CDAOs/ ADA, Soil Chemist to ensure availability of samples to MSTLs.** The collection & registration charges to be paid to field functionaries will be met from previous year's funds available under Soil Health Card Scheme or may be proposed by CDAOs for payment from this scheme.
- x. All the requirements for sample collection like the sampling bags & tags etc will be supplied by PPL much ahead of sample collection. The sample transportation charge if any will be borne by PPL.
- xi. The operation of MSTL should be reviewed by the CDAO stringently along with block officials, the ADA, Soil Chemist/ I/C soil chemist & the authorised representative of PPL. **The monthly review report (both physical & financial) should reach DA & FP (O) by 10th of every month.** The ADA, Soil Chemist/ I/C soil chemist is solely responsible for submission of review report in the following proforma.

Nos sample received during the month	No sample analysed during the month	Nos of soil Health card distributed to the farmers.	Nos of days moved to field from its designated parking site	Total amount claimed during the month (for current & previous if any) in Lakh Rupees	Amount paid from State plan scheme In Lakh Rupees	Balance to be paid in Lakh Rupees from State plan scheme In Lakh Rupees

1	2	3	4	5	6	7
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- xii. A detail plan for the MSTL movement to field should be chalked out by the CDAOs, ADA, Soil Chemist/ I/C soil chemist & PPL staffs to field, as per sample collection, registration & health card ready for distribution so that maximum villages could be touched by the MSTL.
- xiii. M/s-PPL shall depute and position the following minimum staffs for the operation and maintenance of Mobile Soil Testing Van and delivery of soil testing services to farmers and related activities carried out by him. The CDAOs / ADA-Soil Chemist to ensure this on regular basis.

Sl. No.	Staff	Strength	Qualification
1.	Analyst cum Chemist	01	Minimum B.Sc. (Agril) / B.Sc (Horticulture)/ B.Sc.(Chemistry)
2.	Assistant	01	B.Sc.(Chemistry as subject)
3.	Attendant	01	+2 (preferably science)
4.	Driver	01	As per requirement of vehicle
5.	Co-ordinator	01	Graduate with Computer Knowledge

- xiv. The PPL State Co-ordinator shall liaison with concerned Soil Chemist, CDAO office, block officials for detail planning regarding the full operation of the MSTL with respect to sample collection, registration, analysis, data loading in portal, arrangement of camp for soil health campaign & distribution of Soil Health Card.
- xv. The log book of MSTL should be thoroughly checked by the ADA, Soil Chemist/ I/C soil chemist of that district from time to time for assuring the movement of the Van to the farmers door step.
- xvi. Testing will be done for five parameters (pH, EC, OC, P_2O_5 and K_2O) of all the targeted samples through the MSTLS having no AAS
- xvii. In all other 24 nos of MSTLS having AAS facility, twelve parameters (pH, EC, OC, Available- P_2O_5 , Available- K_2O , Available-Nitrogen, Sulphur, Iron, Copper, Zinc, Manganese & Boron) will be tested for all the targeted soil samples. All the samples to be collected must be Geo-referenced and mentioned in information sheet.
- xviii. No soil sample analysis charges will be collected from the individual farmers as per the existing norm. A soil **health card has to be provided by the Second Party to each farmer for each soil sample tested through web portal of GOI.**
- xix. After receipt of weekly progress report, the concerned ADA, Soil Chemist/ I/C soil chemist of the district will ensure the Registration of sample, sample analysis, uploading of result in Soil Health Card Portal & distribution of cards to the farmers.
- xx. For ensuring genuineness of the samples tested through MSTL, **2% of the total sample to be tested should be sent to Static Laboratory by PPL on monthly basis. These 2% samples**

should be drawn randomly by authorised officer of CDAO before sending to static laboratory for testing.

xxi. The Soil Chemist will furnish the certificate to PPL regarding genuineness of the sample tested.

xxii. PPL will submit bills along with the certificate to CDAO for processing of payment at each month end.

** For 40 nos of Village level Soil Testing Laboratories established, the assistance towards soil analysis and incentives for SHC generation is to be first met from Central Scheme and then will be accommodated from this State Plan.

C. Operationalisation of Fertilizer Quality Control Laboratory (FQCL) And All Other Quality Control Laboratories:

Presently, one Fertilizer Quality Control Laboratory at Rayagada is made functional through Outsourcing since 2013 and provision of funds is met under this scheme. The annual capacity of the said laboratory is 4000 samples. The funds allocated under the scheme will be utilised for the following activities.

- i. Payment of remuneration to 10 Nos of contractual staffs engaged through Outsourcing by approved Service Providing Agencies.
- ii. Other laboratory expenses including electricity charges, purchase of glassware, chemicals, filter paper etc., repair of old instruments, purchase of new equipment and AMC of equipments will be met out of this fund.
- iii. The funds for the purpose will be placed to the respective CDAOs for utilization & monitoring the activities of the laboratory.
- iv. The Analytical Chemist will prepare the absentee statement and send to the Service Providing Agency. On receipt of bills from the Service Providing Agency, the Analytical Chemist will process the same and place it to the CDAO for drawl.
- v. Before drawl/placement of claims to outsourcing agencies CDAO should ensure regarding the deposit of EPF contribution (both employee & Employer share) Similarly ESI contribution (Both employee & Employer share) should be ensured if that is applicable to that area. Any latest guidelines from Finance Deptt regarding above should also be followed meticulously.
- vi. The CDAO will take steps for drawl of the amount from treasury on monthly basis. After drawl of money, the CDAOs may either directly place the same to the Service Provider or may place the same to the Analytical Chemist who in turn will release the same to the Service Provider.
- vii. The CDAO will periodically review the collection, submission and analysis of fertilizer samples and dispatch of reports.
- viii. However, in all other laboratories, Group-D posts shall be outsourced and made operationalised. Also the Group-B & C will be filled up after approval from Empowered Committee.

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d. Soil Samples collection/ registration /analysis/ SHC distribution/ Fertiliser & Insecticide sample /Awareness through Training/ demonstration/Mobility for enforcement etc

- i. The funds towards Soil Samples collection/ registration /analysis/ SHC distribution as per Govt of India norms will be met from this scheme in case the quantum of assistance of GOI is not sufficient for analysis or GOI does not approve the target for analysis. Funds first will be met from GOI assistance and then will be accommodated under this scheme.
- ii. Fertiliser & Insecticide sample collection or other miscellaneous expenditure- Funds required for collection of samples of fertilizers or insecticides at block level will be met from this scheme whenever required.
- iii. Mobility for enforcement- Funds for an amount of Rs.10,000/-will be placed to all blocks for mobility for the enforcement squad or inspectors for smooth enforcement activities in the State.
- iv. Awareness of extension functionaries/ farmers through Training/ demonstration- GOI has components for awareness through Training and demonstration and State has proposed from 10,000 nos of training for 20 nos of participants under GOI action plan. If the assistance does not accommodate the number of training proposed then the same will be accommodated under this State Plan. The norms of assistance is Rs.5000/- per training.

e. Reclamation of Acid Soils-

Soil acidity is a major issue in the State, about 40 lakh ha suffers from soil acidity to various degrees. Of these acid soils, nearly 32% i.e. 13 lakh ha is having pH (hydrogen ion (H⁺) concentration) less than 5.5 i.e. moderate to highly acidic and need soil treatment for better production and productivity since most crops prefer to grow in a neutral soil (with pH 6.5 to 7.5). In this backdrop, it has been recommended by the Odisha University of Agriculture and Technology (OUAT) to apply lime in form of Dolomite or Paper Mill Sludge etc along with fertilisers and FYM to improve crop yield. It is stated that soil treatment for acidity enhances crop nutrition thereby enhance crop yields by 14-52%. MARKFED / OAIC will be placed funds to procure ameliorants for treatment of soil under Management of Acid Soils. Presently, it is targeted to apply ameliorants in the Rice Fallow Management scheme for better yield of Pulse and Oilseed crops in the Rabi Season. An amount of Rs.2000/- per ha is allotted for the purpose, but after the finalisation of tender for making the input available, decisions shall be taken to alter the areas after DA & FP (O) approval. In a 5 year action plan a total of 13.00 lakh ha will be accommodated. If the 1st year implementation shows results in crop yield the funds under this component will be increased in subsequent years after approval from A/D.

f. Administrative Expenses under the Scheme-

The administrative cost includes Monitoring and supervision of all laboratories and hiring of Consultants/ Multi-skill Assistant at State Level. The personnels to be attached to Fertiliser/Soil Health cell and Enforcement wings of the Directorate for proper monitoring of all laboratories and enforcement activities. Also the evaluation of the Project may be met from the Administrative expenses of the scheme.

5. Implementation of the Scheme/ Programme (with definite role of the stakeholders at

State/ District/ implementation level)

- a. Department of Agriculture & Farmers' Empowerment- Fund sanction and release as Annual Action Plan to be submitted by the Implementing Agency.
- b. Directorate of Agriculture & Food Production, Odisha to monitor the scheme at State level assigning Deputy Director of Agriculture (Fertiliser) is the Nodal Officers for Soil Testing Laboratories and Deputy Director of Agriculture (Quality Control) is the Nodal Officer for Other Quality Control Laboratory and Enforcement related activities.
- c. The Chief District Agriculture Officer and ADA (Soil Chemist) for Soil Testing Labs and Scheme Officer (for all other labs) to monitor the scheme at district level.
- d. The Outsourcing Agency (for operationalisation of 19 STL) and Ms- PPL to co-ordinate with all officials and work for smooth functioning Laboratories in the State. To follow the agreement signed between the agencies and DA & FP (O)

Structure of State Level Executive Committee and State Level Monitoring Committee :

The State Level Executive Committee shall be formed under the Chairmanship of the Secretary to Govt. in A & FE, Deptt. to review the progress of the scheme and operationalisation of all laboratories:

- Secretary, Agriculture & Farmers Empowerment Department
- Director, Agriculture & Food Production
- FA-cum-Additional Secretary to Govt. in A & FE, Deptt.
- Additional Director of Agriculture(Extension)
- HOD, Soil Science, OUAT
- Joint Director of Agriculture(QC & Enf)
- DDA (Fertiliser) and DDA (Quality Control)- Member Convenor

The Committee will meet once in a year to deliberate policy matters and smooth functioning of all laboratories.

State Level Monitoring Committee

- The State Level Monitoring Committee (SLMC) shall be formed under the Chairmanship of the Director of Agriculture & Food Production, Odisha to review the progress of the scheme and operationalisation of all laboratories.
- The Committee will be constituted with the following members:
 - Director of Agriculture & Food Production, Odisha Chairman
 - HOD, Soil Science, OUAT
 - Additional Director of Agriculture, Extension

- Joint Director of Agriculture (PP)
- Joint Director of Agriculture (F &S)
- Joint Director of Agriculture (SP &C)
- Joint Director of Agriculture(QC & Enf)
- CDAO, Khurda and Cuttack
- DDA (Fertiliser) and DDA (Quality Control)- Member Convenor
- SCO, SSTL, Bhubaneswar
- ADA, Soil Chemist/ADA, FQCL and ADA, ITL
 - The State Level Monitoring Committee shall meet quarterly to review the smooth operationalisation of all laboratories.

District Level Executive Committee (DLEC)

- The District Level Executive Committee for smooth functioning of all laboratories shall be formed under the Chairmanship of the Collectors and District Magistrate. The Chief District Agriculture Officer (CDAO) shall be the member convenor of the DLEC. The committee is constituted with the following members.
- Collectors and District Magistrate - Chairman
- Chief District Agriculture Officer(C.D.A.O) - Member Convenor
- KVK, Scientist- Member
- ADA, Soil Chemist/ Other lab heads- Representatives from Agencies to operationalise STL/MSTL/Other labs
- Concern Agril Engineers
- Agriculture District Officer
 - The objective of the committee is to identify the issues related to smooth operationalisation of all laboratories and intimate the headquarter. The Committee shall develop the Annual Action Plan for smooth functioning of all laboratories under their jurisdiction. The DLEC shall meet once in six months to review the above.
 - However, a Committee under Chairmanship of CDAO shall be convened once in a month to review the laboratories smooth operationalisation.
 - The committee shall meet once in a month for reviewing the physical and financial progress works under the scheme. A meeting under Collector & DM shall be made once in six months.
 - Any inter componential changes may be approved in the meeting under Collector & DM Chairmanship.

- The same shall be submitted to the JDA (QC & Enf) for the appraisal of the DA & FP (O) and Govt. in A&FE, Deptt.

ROLES AND RESPONSIBILITIES OF OFFICIALS/ AGENCY:

Directorate of Agriculture & Food Production, Odisha, Bhubaneswar –

- Directorate of Agriculture & Food Production, Odisha is the nodal agency for overseeing the monitoring and implementation of the scheme.
- It will approve the annual action plan for the scheme.
- Inter componential diversion of fund between different components shall be made with approval of Director, Agriculture & Food Production, Odisha.

The Chief District Agriculture Officer (CDAO)-

- CDAO is the nodal person for smooth functioning of all the laboratories under his jurisdiction.
- The concerned CDAO shall monitor the soil sample collection, registration, Analysis and distribution of Soil Health Card.
- CDAO to ensure smooth Operationalisation of all the laboratories. All necessary steps to be taken for functioning of all labs.
- CDAO to review the staffs engaged in Static STL and MSTL. The agreement made with them shall be reviewed by CDAO every month.
- The CDAO shall release funds as per agreement.
- The CDAO shall monitor the Enforcement activities in the districts.
- The ADA (Soil Chemist) and all lab. heads will assist the CDAO in all above activities.

5. Source of funding for the Scheme/ Project and fund flow mechanism –

Source of funding - State Plan Scheme under Department of Agriculture & Farmers' Empowerment, Odisha, Government of Odisha. The Budget Head shall be

Fund and Work flow mechanism-

Department of Agriculture & Farmers' Empowerment

Director of Agriculture & Food Production (O)

Deputy Director of Agriculture (Fertiliser) and Deputy Director of Agriculture (Quality Control)

CDAO and ADA, Soil Chemist/In charge, ADA, Soil Chemist/All Laboratory heads

Budget

The budget head shall be under State Plan Scheme "3714-Crop Production Management" under State Sector Scheme which will be implemented in all the districts of the State.

The EFC is approved taking budget outlay for Five Years.

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**BUDGET OUTLAY -STATE PLAN -CROP PRODUCTION MANAGEMENT- SUB SCHEME-
MANAGEMENT OF SOIL HEALTH (2023-24 to 2027-28)**

(Figures in Lakh Rs.)

FY	Operation-alisation of all Soil Testing Laboartories (Static/Mobile/Village)	Operationalisation of all Quality Control Laboratories (Fertiliser/ Insecticide/ Bio-fertiliser/ Organic fert./ seed/ Bio control Field station	Soil Samples collection/ registration / analysis/ SHC distribution/ Fertiliser & Insecticide sample / Awareness through Training/Demonstartion/Mobility for enforcement etc	Reclamation of Acidic Soil	1% Admn. Charges	Proposed Budget Outlay
2023-24	365.00	320.00	200.00	600.00	15.00	1500.00
2024-25	380.00	320.00	200.00	700.00	16.00	1616.00
2025-26	400.00	0.00	220.00	1000.00	16.00	1636.00
2026-27	420.00	0.00	230.00	1000.00	17.00	1667.00
2027-28	430.00	0.00	240.00	1000.00	17.00	1687.00
Total	1995.00	640.00	1090.00	4300.00	81.00	8106.00

6. Intended Scheme/ Programme Outcome –

- Timely analysis of soil samples of the farmers within the district and also at the farmers' doorstep through Soil Testing Laboratories (Static/ Mobile/ Village) and provide them with a Soil Health Card.
- Recommendation of fertilizer doses based on soil test results for the crops that the farmers intend to cultivate. Judicious and balanced use of chemical fertilizers and their management thereby maintaining the status of soil health.
- Provide requisite ameliorants/ assistance towards using of soil ameliorants for problem soils that are acidic, alkaline or saline.
- Creation of awareness for field extension functionaries and farmers through Training and demonstration
- Quality control of chemical fertilizers, micronutrients and other inputs supplied to the farmers. Mobility at block level to be utilized for enforcement samples collection.
- Operationalising all Soil, Fertiliser, pesticide and other Quality Control Laboratories under the Directorate by providing manpower through Outsourcing, AMC of equipments wherever required and other requirements for smooth functioning of laboratories for achieving the target of analysis of soil, fertilizer, pesticide, bio-fertiliser, seed, organic fertilizers and other inputs.

7. Monitoring & Evaluation mechanism –

The monitoring framework of the scheme is as follows:-

The Directorate of Agriculture & Food Production (O), Bhubaneswar under the Department of Agriculture & Farmers' Empowerment is the nodal office for implanting the Scheme. The Nodal Officer and Scheme Officer of Soil Health monitor the scheme at State Level. Presently, in district level, the manpower are engaged through empanelled Outsourcing Agency of Department in 6 nos of Static Soil Testing laboratories and one Fertilizer Quality Control Laboratory which is monitored by the Chief District Agriculture Officers (CDAOs) and ADA, Soil Chemist. The audit procedure for the state govt. fund will be same for the project. The measurable parameters for evaluation shall be farmers provided with Soil Health Card and then subsequently the soil health maintenance in the districts.

Evaluation- A third party evaluation of the scheme will be done after approval. However, the project is evaluated by concerned CDAO on monthly/quarterly basis. Post Project evaluation may be done to assess the impact along with its spread effect. The funds for evaluation shall be met from the Administrative Cost

Approved comments of Principal Secretary to Govt, Finance Department, Odisha with following views:

1. The revised EFC proposal has been approved for 5 years (from 2023-24 to 2027-28) with financial outlay of Rs.81.06 Crore .
2. The component wise activities as in Annexure-III under the scheme were approved.
3. The AD may hire services for watch & ward/ attendants/ cleaning & sweeping as suggested by Finance Deptt. for operationalising all the laboratories of the State.
4. Recruitment against sanctioned strength and post creation in new laboratories to be mooted through Finance Deptt for approval in the Empowered Committee.
5. Acid Soil Management is to be implemented under this scheme only to avoid duplicity.
6. Soil Health Mission component to be taken up in the scheme after approval at appropriate forum.
7. Inter-component diversion of funds is allowed under the scheme with the approval of Administrative Department within the approved financial outlay of the scheme.

The Operational Guidelines is approved by the Principal Secretary to Govt, Deptt of Agril & FE, Odisha vide OSWAS File No-DAFP-FERT-MISC-0008-2023-Noting 59.

Approved

Director of Agriculture and

Food Production, Odisha