

Guidelines for 'Establishment of Disease Diagnostic and Quality Testing Lab' under the component: Infrastructure and Post-Harvest Management of CS Scheme Pradhan Mantri Matsya Sampada Yojana (PMMSY)

1. BACKGROUND

Odisha has vast potential for both freshwater and brackish water aquaculture. In the state about 1.00 lakh ha of freshwater and 0.20 lakh ha of brackish water aquaculture are being taken up so far. Outbreak of diseases like White Spot Syndrome Virus, Early Mortality Syndrome in brackish water shrimp farming, Epizootic Ulcerative Syndrome and Red Spot Disease in freshwater fishes have been experienced in the past. It is highly essential to test the fish seeds to ascertain presence of various listed pathogens for prevention of outbreak of the diseases in aquaculture. Aqua farmers also need facilities for quality testing of soil, water, fish & shrimp feed and to ascertain cause of mortality of fish & shrimp through post-mortem procedures etc. To prevent diseases in aquaculture, it is envisaged to establish Disease Diagnostic and Quality Testing Mobile Labs/ Clinics in the state of Odisha under the CS Scheme PMMSY.

2. OBJECTIVES

- i. To provide timely technical advice to the farmers and aquaculture operators.
- ii. To control outbreak of diseases in fish/shrimp.
- iii. To provide soil and water testing facilities for effective use of aqua inputs.
- iv. To assess the nutrient level of the feed through its proximate composition analysis.
- v. To assure quality of the sea food for export promotion.

3. AREA OF OPERATION

The disease diagnostic and quality testing laboratories will be established in the state of Odisha.

4. ELIGIBILITY CRITERIA FOR BENEFICIARIES

The following are the eligibility criteria of the beneficiary

- i. Must be a permanent resident of Odisha and must possess identity and residential proof including Aadhar card.
- ii. Must have a bank account in his/her name in the State of Odisha.
- iii. Must be a young professional possessing a Degree in Fisheries Science /Life Sciences/ Marine Biology/ Microbiology/ Zoology/ Biochemistry. Preference will be given for higher qualifications in these areas.
- iv. Must not have availed assistance for similar project under any scheme of the State or Central Govt.



- v. Must have requisite space (owned / possessed on lease) admeasuring at least 1000 Sq. feet at a suitable location. In case of space taken on lease, the lease period should be at least 7 (seven) years from the date of submission of SCP and the registered lease document shall be furnished with SCP.

The beneficiary must have to provide documentary evidence in support of the space.

5. UNIT COST AND SUBSIDY ASSISTANCE

SL. No.	Item	Unit Cost (Rs. in Lakhs)	Government Assistance (Rs.in Lakhs)	
			General (40%)	SC/ST/Women (60%)
1	Disease Diagnostic and Quality Testing Laboratory	25.00	10.00	15.00

- As per the guidelines of PMMSY, 40% subsidy shall be provided to General Category and 60% to SC/ ST/ Woman Categories of beneficiaries.
- The proportionate subsidy shall be released after completion and verification of the Laboratory.

6. COMPONENT-WISE REQUISITES

- I. Establishment of disease diagnosis and quality control lab
 I. **Microbiology and PCR Lab facility**

Sl.No.	Component	Approximate Cost (Rs. Lakhs)
1.	PCR	3.50
2.	Refrigerator	0.20
3.	Table top centrifuge	0.50
4.	Water bath	0.20
5.	Freezer (-20 ⁰ C)	0.40
6.	Vertex Mixer	0.10



7.	Micropipette Set (1ml,10-200ml,2-20,0.1-2)	0.60
8.	Gel Electrophoresis with power pack	1.50
9.	Chemicals & Plastic ware	1.00
10.	Parasitology Binocular Compound Microscope Light Source-Halogen/LED (Objective-4X,10X,40X,100X Eye Piece- 10x)	1.00
11.	Soil and water testing Equipments Water Distillation Plant UV Spectrophotometer KEL Plus Nitrogen Distillation set pH meter Electronic Balance TDS Meter	4.00
12.	Glass ware	0.70
13.	Chemicals	1.30
14.	Laboratory furnishing	10.00
	Total	25.00

NB:- The cost of items mentioned above are indicative and may be allowed for variation. Need based items are allowed as per the DPR provided by the applicant.

7. **MODE OF FINANCING**

The scheme shall be implemented through bank finance or self-financing.

8. **IMPLEMENTATION PROCEDURE AND RELEASE OF SUBSIDY**

- i. The scheme shall be implemented by the Directorate of Fisheries, Odisha through the concerned District Fisheries Officers.

- ii. The scheme shall be advertised by the Directorate of Fisheries through the website and newspapers for wide publication.
- iii. The Applications received in the Directorate of Fisheries shall be entered into a register in order of receipt of the application along with the SCP/DPR.
- iv. The applicant shall submit Self Contained Proposal (SCP/ DPR) to the Director of Fisheries with justification, detailed cost estimate, recurring cost involved, source of funds to meet the beneficiary contribution, bank consent for providing loan (if the mode financing is through bank loan), undertaking to the effect that no other government assistance is availed for the proposed project, anticipated direct and indirect employment generation through the project etc.
- v. The SCP shall also include;
 - a. Location, Layout design of the proposed laboratory, details of the trained man power to be positioned for day-to-day operations.
 - b. Strength of farmers, quantum of farming areas (in ha) along with major species farmed/cultured nearer to the proposed laboratory that are likely to use the facility.
- vi. A State Level Technical Committee (SLTC) under Chairpersonship of the Director of Fisheries, Odisha shall be constituted for implementation of this scheme. The other members of the committee will include representative of Central Institute of Fresh Water Aquaculture (CIFA) and concerned Officers of the Directorate of Fisheries and Fishery Engineering Division (FED). The Technical Committee is empowered to invite additional experts or professionals to be a member of the committee.
- vii. The minimum lease period of the requisite space has been fixed at 7 years for this minor infrastructure activity in order to encourage and attract educated unemployed youth in taking up this activity. In deserving cases, the Director of Fisheries may relax the minimum lease period from 7 (seven) years to 5 (five) years with other conditions remaining the same.
- viii. The assistance will be provided for establishment and operationalization of the laboratory which includes minor civil and electrical works, procurement of lab equipments and machineries, testing kits, chemicals and consumables, furniture and fixtures and other need-based items etc.
- ix. A field Verification Committee comprising of Zonal DDF, District Fisheries Officer and AFO shall visit the site to ascertain the feasibility and suitability of the proposed project site and submit a report with detailed photo documentation.
- x. Thereafter, all the applications with the Self-Contained DPR along with the report of the Field Verification Committee shall be scrutinized by the State Level Technical Committee (SLTC) and the eligible applications will be approved.
- xi. The list of beneficiaries approved by the SLTC along with copy of the proposals and the recommendations of the SLTC shall be communicated to the respective District Fisheries Officer (DFO).



- xii. The finalized list of beneficiaries approved by the SLTC along with copy of the proposals and the recommendations of the SLTC shall be communicated to the respective District Fisheries Officer (DFO) for issue of go-ahead letter to the beneficiary. A copy of the go-ahead letter will also be marked to the concerned bank, if the mode financing is through bank loan.
- xiii. The DFO, Assistant Fisheries Officer and Junior Engineer shall visit the site and guide the beneficiary from time to time and render technical assistance.
- xiv. After completion of the Disease Diagnostic and Quality Testing Laboratory, the DFO shall inspect the facility and report to the Director of Fisheries.
- xv. The three stage geo-tagged photograph (before commencement, during construction work and after completion) with the beneficiary shall be recorded by the DFO.
- xvi. The Disease Diagnostic and Quality Testing Laboratory will be verified by a Field Verification Team constituted by the SLTC comprising of members of the STLC and DFO.
- xvii. The subsidy of the completed project shall be released within a fortnight after verification of the committee.
- xviii. A Sign board must be displayed at the project site with details of scheme, funding, subsidy, area, name & address of beneficiary, year of implementation etc.
- xix. The back ended subsidy shall be released directly to the account of the beneficiary on completion of the project through DBT/RTGS/NEFT.

9. TERMS AND CONDITIONS

- i. Cost estimates of the Disease Diagnostic and Quality Testing Laboratory will be based on the latest Scheduled of Rates/ prevailing market rates.
- ii. After completion of the project on setting up of the laboratory, the Beneficiary will submit the report on the number of samples tested under various categories, revenue generated and manpower in place, number of farmers benefitted etc. to NFDB/Directorate of Fisheries regularly on a quarterly basis.
- iii. The laboratory shall maintain proper registers/records pertaining to the details of the test reports.
- iv. Beneficiary will ensure that the technical staff employed in the laboratory shall be trained regularly.
- v. The laboratory shall adhere to the existing norms and guidelines prevalent in the state of Odisha.
- vi. The Beneficiary will maintain and operate the laboratory for a minimum period of 5 years from the date of its commissioning. The beneficiary will submit an undertaking to this effect.
- vii. Accreditation of the Laboratory will be part of the project estimates.
- viii. Identification of beneficiary must be made with Aadhar linking at the time of submission of application.



- ix. All the projects under the scheme must be Geo tagged and the list of beneficiaries is to be uploaded in the website of the Directorate of Fisheries for transparency.
- x. The District Fisheries Officers must ensure that the beneficiaries directly purchase items for establishment of the laboratory from genuine firms with GSTIN number. Only GST bills of beneficiaries are to be accepted by the Director of Fisheries and District Fisheries Officers for release of subsidy.
- xi. Subsidy shall be calculated and released to the beneficiary based on the actual unit cost incurred, subject to a maximum subsidy as specified under the scheme.
- xii. No additional manpower or Consultant shall be engaged for implementation of the scheme.

10. MONITORING AND SUPERVISION

- i. The District Fisheries Officers shall submit Monthly Progress Report (MPR) to the Zonal Deputy Director of Fisheries who will consolidate the MPRs at their level of their respective zones and submit it to the Director of Fisheries, Odisha, Cuttack. The State level consolidation will be undertaken at Directorate level for submission to F & ARD Deptt., Govt. of Odisha.
- ii. A committee shall be formed under Chairmanship of the Director of Fisheries to review the achievement of the scheme on quarterly basis.

DIRECTOR OF FISHERIES

ODISHA, CUTTACK