**Baseline study for Fisheries Development in Telangana State**

**Schedule for Reservoirs**

**District: …………………………………………………………….. Mandal: ………………………………………………………**

**Name of Reservoir: ………………………………………….. No. of villages\* :………………………………………………**

**(\*List of villages enclose)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Geo code** |  | **Res code** |  | **Resource type** |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Latitude** |  | **Longitude** |  |  |  |

* **Field survey team**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Name** | **Signature** | **Place** | **Date\*** |
| * **Enumerator** |  |  |  |  |
| * **Team Leader** |  |  |  |  |
| * **Expert** |  |  |  |  |

**\*Enumerator to record the date of collection of the data and team leader / expert to indicate the date of checking / validation of the questionnaire**

**A1: Resource Utilization and Activities (1.0)**

**1.1 Mode of getting fishing access right:**

1.1.1 Free fishing/ license/ allotment to FCS on lease / others------------------------------

1.1.2 What was the amount paid to the Govt.to have resource access in Rs. --------------/year

1.1.3 Amenability of reservoir for fishing: short duration/ one or two seasons/ throughout the year

**1.2 Fish & Fisheries**

**Fish seed stocking (3 to 5 years):**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Fish species stocked\*** | **No. stocked**  **(SD/ha)** | **Seed size at stocking** | **Stocked by** | | | **Remarks : No. of times stocked**  **Once/twice/multiple times** |
| **FCS**  **(% share)** | **DOF**  **(% share)** | **Both**  **(% share)** |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |

**\* IMC- Catla,rohu, mrigal, calbasu, Other indigenous fish spp, Exotic fish species : Silver carp, grass carp, common carp, Others if any**

**2.3 What was the system of annual fish seed stocking of reservoirs?**

By individual fisherman/ by FCS/ by DOF / other sources (specify) ---------

**A2: Operational aspects (2.0)**

**2.1 Who manages the routine management of reservoir fisheries?** Individual fishers/ FCS/DOF

2.1.1 How it is managed: Nominated fisher group / Watch ward appointed exclusively by FCS/ DOF + License/others

**2.2 Fishing Effort**

|  |  |
| --- | --- |
| **No. of Fishermen involved in fishing** | **Remarks** |
| * Active members : of PFCS |  |
| * Passive/ sporadic : members of PFCS |  |
| * Nonmembers: |  |

**2.3 Crafts and Gears employed**

|  |  |  |  |
| --- | --- | --- | --- |
| **Details of craft/ gears** | **No.** | **Size/specifications**  **(mesh bar size etc)** | **Remarks : (material used- wooden/FRP/mono filament nylon/ etc)** |
| * **Boat type** |  | | |
| Thermocoletheppam |  |  |  |
| Others |  |  |  |
| * **Nets used** |  | | |
| Gill nets |  |  |  |
| Drag nets / shore seines |  |  |  |
| Cast nets |  |  |  |
| Traps Others |  |  |  |

**2.4 Duration of fishing/ day**----------hrs. Quantity of net /boat used --------;

**2.5 No. of fishing days (season wise**) summer (Feb-May) ------------; Rainy days (June-Sept.) ---------Winter (Oct- Jan.)------------,

**A3: Production and Productivity (3.0)**

**3.1 Quantity of fish catch /season/year**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Fish variety** | **Season wise/ annual** | **Total quantity (Kg)** | **Value in Rs.** | **Fish size structure (Av. Size)** |
| * Commercial carps |  |  |  |  |
| * Local Catfish& others |  |  |  |  |
| * Local small indigenous fishes |  |  |  |  |
| * Prawn |  |  |  |  |
| * Exotic spp. |  |  |  |  |

**3.2 What was the variety wise av. sale price: Rs/kg: ………………………………………………….**

**3.3 Family labour (mandays/ year): ……………………………………………………**

**3.4 Hired labour (mandays/ year): ……………………………………………………..**

**3.5 Labour wage/ day in Rs.: …………………………………………………………..**

**3.6 Other Misc. expenditure (repairs /rentals for crafts and gears) Rs.: …………………………………………**

**3.7 What was the cost of fishing / annum? : Rs………………………………………………………**

**3.8 Annual income from the activity: Rs. -------------------------**

**A4: Landing centers and marketing aspects (4.0)**

**4.1 Number of Fish landing centers/points:**

|  |  |  |
| --- | --- | --- |
| **Names of landing centers /points** | **Major** | **Minor** |
|  |  |  |
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|  |  |  |
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**4.2 Village specific fishing locations:**

**4.3 Fish composition brought to landing centers /points**

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| --- | --- | --- | --- | --- | --- |
| **Fish categories (local names)** | **Quantity of**  **(in Kg)** | **Size structure**  **(Av. size)** | **% composition**  **to total** | **price/kg** | **Remarks**  **Fish catch data recording, etc.** |
| 1. Commercial carps |  |  |  |  |  |
| 1. Local Catfish& others |  |  |  |  |  |
| 1. Local small indigenous fishes |  |  | ` |  |  |
| 1. Prawn |  |  |  |  |  |
| 1. Exotic spp. |  |  |  |  |  |
| 1. Others |  |  |  |  |  |

**4.4 Mode of fish catch disposal:**

4.4.1 On-site sale / nearby market/ own marketing/ retail/whole sale market/through merchants/ other markets

4.4.2 Do you/ your group members supply fish catch to FCS/ federation/ others-------------?

**4.5 Consumer preference of fish species and their market price**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Fish species** | **Rating on Preference level** | | | **Remarks** |
| **High** | **Medium** | **Low** |
| 1. Commercial carps |  |  |  |  |
| 1. Local Catfish& others |  |  |  |  |
| 1. Local small indigenous fishes |  |  |  |  |
| 1. Prawn |  |  |  |  |
| 1. Exotic spp. |  |  |  |  |
| 1. Others |  |  |  |  |

**A5: Feedback, perceptions and suggestions (5.0)**

**5.1 Respondents Feedback**

5.1.1 What was the system of annual fish seed stocking of reservoirs before DOF took up exclusive stocking

By individual fisherman/ by FCS/ by DOF / other sources (specify) ---------

5.1.2 What is the source of fish seed used for stocking --------------------?

5.1.3 Mention cost of seed/ --------------------Rs. /1000 fingerlings

5.1.4 What per cent of seed stocked was outsourced when FCS was involved in stocking?

5.1.5 What percent of seed stocked by Govt. is being outsourced and from where?

5.1.6 Were you involved in fish seed stocking program yes/ no, if no, specify reasons

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If yes, what is your opinion on the:

1. seed quality (health, size)
2. specified quantity
3. species composition / ratio

5.1.7 Whether you / PFCS executives or its representatives were involved in participatory planning of reservoir fish seed stocking and in all the development process. Yes/ No

5.1.8 Are you aware under which developmental scheme/ s fish seed stocking of reservoirs is being undertaken / supported by DOF? If yes, name the scheme/ program: ------------------------

5.1.9 Are you aware on the process adopted/ in practice for seed procurement, supply and stocking? If yes, how:

Direct purchase from seed supplier/ Tender process/ quality check on set guideline/ involvement of FCS representatives while stocking/ transparency in procurement process, any others (specify)--------

If no, why: not involved in the process/ not aware of the provisions/ not interested/ others (specify)--------

5.1.10 what is the role play of the following agencies in the entire fish seed stocking process?

1. PFCS :
2. DOF:
3. Others

5.1.11 Have you/ your group /your Society members been trained / sensitized on Checking for seed quality? If yes, what are the indicators used for the quality check?

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5.1.12 has reservoir stocking by DOF enhanced fish availability/ given additional income to your family/ increased fish consumption of in family? Yes/No, if no, what are the reasons?

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If yes, how it has benefited?

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5.1.13 Do you participate in, management and other related issues of reservoir concerning fishery activities? : Yes/No

If No, why? Not interested/ not involved by the group/ other reasons

If yes, what is the nature of participation?

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5.1.14 You/how many of you have undergone fisheries/ aquaculture related trainings? If yes mention the details of training

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| --- | --- | --- | --- | --- |
| **Details of training program** | **No. Trained** | **Year and duration (days)** | **Location/venue** | **Organizing Institution** |
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5.1.15 How are you benefited by the Training program?

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If no, why you could not take fisheries related training/s?

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5.1.16 Are you aware of govt. schemes/ programs: Yes/No. If yes, what was the source?

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5.1.17 Have you/ how many of you received support of DOF / other institutions for stocking of fish seed. If yes, details of support

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5.1.18 Have you/your FCS/ Group received support of DOF / other institutions for fishing/ other fisheries related activities/ catching of fish etc. If yes, details of support (net, boat, accessories etc.)

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5.1.19 Have you /how many of you received support of DOF / other institutions for marketing of fish. If yes, details of support

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5.1.20 Have you/your society/group received support of infrastructure facilities: landing centers, Ice plant/ transport vehicle/ others

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5.1.21 Have you / how many of youreceived support for other reservoir- based aquaculture activities ( pen/ cage culture, fish seed rearing , fish fattening etc).If yes, details of support

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5.1.22 did your /your society/ groupreceive support underany of thewelfare schemes. If yes, details of support

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5.1.23 Do you feel that the reservoir is being regularly stocked annually as per recommendations with fish seed of quality and numbers?

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5.1.24 Do you feel that the number ofmembers involved in reservoir fishing is increasing over the period of 3-5 years? If so,

Earlier no: ------------ and Present no -----------

5.1.25 Are you/your group members getting regular income throughout the year from the activity. If yes, how much? In Rs. ---------------------------------

5.1.26 Are you witnessing progressive increase in your fish catch compared to past 3-5 yrs: yes/ no

If yes, to what per cent: 25%/ 50%/ 75%/ 100% / >100%

If no, indicate if there is any decline in fish catch

5.1.27 Do you wish to attribute this increase in fish catch to:

Regular Fish seed stocking/improved management/ change in craft and gear/ increased fishing effort/ any other (specify)

5.1.28 Do you feel that the activity has also facilitated fishers for asset building, if so list the assets acquired by you over the period of 3-5 years

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5.1.29 Do you feel that due to the increased activity, availability of fish in the region and per capita fish consumption has increased over the period of 3-5 years. If yes to what an extent?

10%/ 20%, 30%, 40% -----------------------

5.1.30 Do you feel that your family fish consumption has increased over the period of 3-5 years. If yes, to what an extent?

10%/ 20%, 30%, 40% -----------------------

5.1.31 Do you feel that the activity is ensuring you economic security? if so, how

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5.1.32 any others (Specify)

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**5.2 Perception of Respondents**

5.2.1 How do you rank the following key issues constraining development of reservoirs?

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| --- | --- |
| **Constraints** | **Ranking from 1 to 6** |
| * Resource access |  |
| * Equity in allotment of water bodies |  |
| * Availability of quality fish seed for timely stocking |  |
| * Inadequate institutional support including marketing |  |
| * Governance- mesh size regulation etc |  |
| * Any others ( specify) |  |

5.2.2 What are the likely causes for these issues?

1. Inadequacy in code of conduct for leasing of water bodies
2. Inequality in benefit accruals to the community
3. Seed deficit and dependence on outsourced seed
4. lack of knowledge on resource management
5. Exclusive dependence on the resource for livelihood
6. Poor literacy and socio economics of fishers
7. weak PFCS and lack of participatory management
8. Any others ( specify)

5.2.3 What could be possible solutions/suggestions for improvement?

1. Positioning better code of conduct for leasing of water bodies
2. Strengthening seed production in local vicinity
3. Effective governance, participatory collective action
4. Improving functioning of PFCS and other local institutions
5. Strengthening institutional arrangement and net work
6. Improvement of landing centers and marketing channels
7. Any others ( specify)

5.2.4 in your opinion who has to address the above solutions

1. DOF
2. FCS
3. Other institutions
4. Any others (Specify)

5.2.5 What are your roles and responsibilities in finding these solutions?

1. Participation and support in development process of Integrated Reservoir Development
2. Compliance to the COC
3. Play active role in community participation and overall governance
4. Involvement in sector related activities and institutional collective action
5. Others (specify)

5.2.6 What are your/groupexpectations from the DOF /other stake holders?

1. DOF:
2. Federation:
3. PFCS:
4. Research and Extension institutions:
5. Seed supplier:
6. Input dealers (net, craft, other accessories):
7. Financial institutions:
8. Insurance:
9. Community welfare Depts.:
10. Any others (specify):

**5.3 Suggestions from respondents**

**What are your specific suggestions on the following?**

5.3.1 Further scope to increase reservoir productivity and daily fish harvest

5.3.2 Changes required for the existing annual licensing system to long term leasing system

5.3.3 Any other type of fishing access right system for better management of reservoir fisheries

5.3.4 Fishing by non-members affecting your livelihood and the way out

5.3.5 Forward price fixing for fish to ensure better sale price and minimize exploitation of fishers by market intermediaries

5.3.6 Managing the reservoirs to improve the governance with better community participation

5.3.7 The overall integrated development of reservoir fisheries