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

**Questionnaire for Private Seed Growers**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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**

**⯀ Respondent**

|  |  |
| --- | --- |
|  |  |
| * **Name** |  |
| * **Designation** |  |
| * **Contact details** |  |

|  |  |  |
| --- | --- | --- |
| **A1** | **Respondents profile** | **1.0** |
| **A2** | **Profile of seed rearing farm** | **2.0** |
| **A3** | **Entrepreneurial aspects** | **3.0** |
| **A4** | **Size, capacity and investment** | **4.0** |
| **A5** | **Production aspects** | **5.0** |
| **A6** | **Costing and economics** | **6.0** |
| **A7** | **Marketing** | **7.0** |
| **A8** | **Feed back and perceptions** | **8.0** |
| **A9** | **Constraints and suggestions** | **9.0** |
| **A10** | **SWOT analysis** | **10.0** |

**A1 Respondents profile (1.0)**

**1.1 General information**

**Name: …………………………………………………………………. Age :………………………………………………………………**

**No. of family members ;**Male: ----------; female: -------------------- Children: -----------

**No. of family members involved in fisheries /related activities** : Male--------; Female----------- Total:-……………..

**Social category : BPL/APL; Caste status:** General/ OBC/ fisher community/ SC/ST/ Other minority/ tribal , others (specify): ----------------------

**General education background:** Illiterate/ primary/ secondary/ graduation / others

**Details of occupation and livelihood:**

Main source of livelihood: agriculture/ reservoir/tank fishing/ aquaculture activities/ business/others (specify)--------

**1.2 Experience in fishing/fisheries related activities**:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| (i) | <3 yrs |  | (ii) | 3-5 yrs |  | (iii) | 5-10 yrs |  | (iv) | 10-15 yrs |  | (V) | >15 yrs. |  |

**1.3 What are basis of choice for fisheries/ aquaculture activities:**

Availability of water bodies within vicinity/ Family occupation/ no other alternative activity sources

for livelihood /anticipation of better income / success of neighbors, fellow fishers in the region, business enterprise/ others (specify)------------

**1.4 What are assets owned : Boat/ nets/ fish ponds / agricultural land/ House/ vehicles/others (Specify)**

**1.5 What is the share of income from various sources:**

**1.6 What is the total Annual family income : Rs.**

**1.7 Are you a member of societies and other local/ state institutions :Yes or No.**

**If yes, specify :** PFCS/ SHG/others specify---------------

**1.8 Name of the PFSC/ institutions in which you have enrolled as member:**

**Since how long you are member of PFSC**

**1.9 Your involvement in the institutional activities : yes / no**

**If no, why you have not enrolled for membership:**

Not mandatory/ high membership cost/ not interested/ complexity in taking members ship/ any others (specify)------

**1.10 Any other details of respondents/ beneficiaries of activity**

**A2: Profile of seed rearing farm (2.0)**

* 1. **Locational aspects** 
     1. Name of the seed rearing farm

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Village |  | GP Village |  | Mandal |  | District |  |

* 1. **Locational suitability**(Scoring 1. Excellent 2. Satisfactory 3.Unstisfactory)
     1. **Amenities**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Scoring (✓)** | | |
| **1** | **2** | **3.** |
| * Road Access |  |  |  |
| * Water source |  |  |  |
| * Power Supply |  |  |  |
| * Labour Availability |  |  |  |
| * Transportation facilities |  |  |  |
|  |  |  |  |

* + 1. **Nearness/access to :**

|  |  |  |
| --- | --- | --- |
|  | **Distance kms** | **Remarks on nearness/access** |
| * Brood stock farm |  |  |
| * Feed supply |  |  |
| * Medication |  |  |
| * Fish seed hatchery |  |  |
| * Seed rearing farms |  |  |
| * Commercial fish farms |  |  |
| * Aquaculture unit |  |  |
| * District DOF office |  |  |
| * Mandal DOF office |  |  |
|  |  |  |

* + 1. **Problems/deficiencies, if any, in locational suitability**

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |

* 1. **Establishment and status**

|  |  |
| --- | --- |
| 2.3.1 | Year of Establishment |
| 2.3.2 | Ownership : own/ leased/ allotted by Govt/ allotted by FCS |
| 2.3.3 | Nature of water body : Govt. Tank/ponds : DOF/ GP ; other small water bodies (specify): ------- |
| 2.3.4 | How old is the rearing tanks; Newly constructed/ <1 year/ 1-3 years / 3-5 years |
| 2.3.5 | Private tanks /ponds : newly Constructed tanks/ponds / existing Renovated tanks |
| 2.3.6 | Area (ha)/ size of seed rearing tanks/ponds----------------------------- and Nos.----------------- |
| 2.3.7 | Water spread area(Ha)………………………and effective water spread area ……………………… |
| 2.3.8 | Source of water : Rain fed, River/canal/Tank/Bore well fed and others (specify): ----------- |
| 2.3.9 | Seasonality of water holding: Months ----------------------- and Duration: ------------------- |
| 2.3.10 | Water Usage pattern: Crops or agriculture/ live stock/ community usage/ multiple use/ exclusive for seed rearing/ fish culture |
| 2.3.11 | If leased, what is lease/ rent cost: Rs. |
| 2.3.12 | What is the production in the last 3 yrs? |
|  | * Year I |
|  | * Year II |
|  | * Year III |

**A3: Entrepreneurial aspects(3.0)**

**3.1 Were you engaged in fisheries activities earlier, if yes-**

|  |  |
| --- | --- |
| 1. Years of experience |  |
| 1. Nature of Activities |  |

**3.2 Is seed rearing your main activity or are you involved in other activities for the livelihood?, If so, pl. Mention the activities.**

**3.3 Did you get help in identifying location or self- who assisted- DOF/local/ other farmer**

**3.4 What led you to select this activity?**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Availability of own suitable water bodies |  | 1. high seed demand in the region |  |
| 1. Access to govt. Water bodies |  | 1. high income |  |
| 1. Water availability |  | 1. Got motivated seeing others |  |
| 1. short duration activity |  | 1. others (Specify) |  |

**3.5 Are you into other aquaculture activities, if so, mentionthe activities: ---------------**

**3.6 Are you rearing fish seed for your own activity use or for marketing or both?**

**3.7 What is your seed requirement to meet your own demand**

**3.8 Did you undergo any special training before starting seed rearing if yes , details**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of training** | **Duration** | **Self/sponsored** | **Subjects learnt** | **Remarks** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**A4: Size, capacity and investment(4.0)**

4.1 Designed capacity…………………….. In lakhs

4.2 Production target for fingerling ………………………..

4.3 Advanced fingerlings: In lakhs----

4.4 Total Farm area : -------------- in ha.

4.5 Cost of Construction/ renovation: Rs.

4.5.1 Source of funding: own/ fully funded by Govt./ partially funded by govt/ others (specify): -------;

4.6 Nature of support obtained

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.no** | **Particulars** | **Supporting agency** | | | |
| **DOF** | **Govt** | **Institution** | **others** |
| I | Pond construction |  |  |  |  |
| Ii | Seed procurement |  |  |  |  |
| iii | Feed |  |  |  |  |
| iv. | Nets |  |  |  |  |
| v. | Others |  |  |  |  |
| vi | Amount (Rs) |  |  |  |  |

4.7 Loans availed if any : Rs.---------------------------- and source:

4.8 Source for loan :

|  |  |  |  |
| --- | --- | --- | --- |
| 1. Friends and Relatives |  | 1. Commercial banks |  |
| 1. Money lenders |  | 1. Others (specify) |  |
| 1. Cooperative society |  |  |  |

**A5: Production aspects (5.0)**

**5.1 Basic details**

5.1.1 When did the operations started –year?: ------------------

5.1.2 What are the prioritized fish species for seed rearing ?and why ?

|  |  |  |
| --- | --- | --- |
| **Sl.no** | **Fish species** | **Reasons for choice** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

5.1.3 What is the source for spawn/ fry ?: -----------------------------

5.1.4 Do you have your own hatchery ?if so what is the designed capacity: ---

5.1.5 Are you outsourcing spawn/ fry, Yes/ No. If yes from which of the following sources :

|  |  |  |
| --- | --- | --- |
| **Sl.no** | **Source for procurement of spawn / fry** | **(🗸)** |
|  | Govt. Hatchery |  |
|  | Privatehatchery within district |  |
|  | Outside dist |  |
|  | Seed traders |  |
|  | others (specify |  |

5.1.6 So far How many crops of fry/ fingerlings/ advance fingerlings and beyond you have taken/ season/ year : ------ and in quantity : ----------------lakhs

5.1.7 What was your season wise and species wise production last year ?

5.1.8 What is the Technology package you are adopting for seed rearing?

* Spawn to fry rearing :
* Fry to fingerlings rearing:
* Fingerlings to advance fingerlings/ stunted yearlings / others :
* Pre stocking Management practices :
* Pond shaping/ strengthening of bunds/ modifications of water inlet/ out lets/ screening of spill way
* canals /fixing of bird scare nets/ dyke nets to protect from frogs and snakes/ removal of weeds/ harvest of predators/ aquatic insects/
* any others specify ----------------------------------------

**5.2 Input management and post stocking aspects**

**5.2.1 Use of lime if yes/no**

|  |  |  |
| --- | --- | --- |
|  | Quantity of application |  |
|  | Periodicity of application |  |
|  | Cost/kg |  |

**5.2.2 Application of manure/ fertilizers etc if yes,**

|  |  |  |  |
| --- | --- | --- | --- |
| Name of fertilizer | Quantity of application | Periodicity of application | Total Cost |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**5.2.3 Fish seed stocking**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Variety** | **Size** | **Stocking density** | **Spp. Combination** | **Stocking Ratio** |
|  |  |  |  |  |
|  |  |  |  |  |

**5.2.4 Post stocking practices adopted - Feed management and health care**

**5.2.5 What are the water quality management practices adopted during the rearing?**

**A6: Costing and economics(6.0)**

**6.1 Capital costs**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Particulars** | | | | **Total cost** | **Subsidy got** | **Own investment** |
| 6.1.1 | Fencing | | | |  |  |  |
| 6.1.2 | Water supply | | | |  |  |  |
| 6.1.3 | Power supply | | | |  |  |  |
| 6.1.4 | Sheds and constructions | | | |  |  |  |
| 6.1.5 | Pond construction | | | |  |  |  |
|  | Ponds | type | No. | dimension |  |  |  |
|  | 1. |  |  |  |  |  |  |
|  | 2 |  |  |  |  |  |  |
|  | 3 |  |  |  |  |  |  |
| 6.1.6 | Other Investments | | | |  |  |  |

**6.2 Production cost and income**

6.2.1 Spawn to fry – details as per Annexure 1

6.2.2 Fry to fingerlings – details as per Annexure 2

6.2.3 Spawn to fry to fingerlings – details as per Annexure 3

6.2.4 Production performance

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Qty in lakh nos.** | | |
| **Year I** | **Year II** | **Year III** |
| * Fry production |  |  |  |
| * Fingerling production |  |  |  |

**6.3 Points on operational issues**

6.3.1 What was the seed survival in different stages of seed rearing you could register

Spawn to fry----------%; Fry to fingerlings-------------%; spawn to fingerlings-----------------%

6.3.2 Did you observe variety wise difference in growth and survival of fish seed under different stages of rearing , if yes what are the differences :-------------

6.3.3 What was the crop duration:

spawn to fry-----------days; fry to fingerlings------------ days ; others (specify) --------------------days

6.3.4 What was the quantity produced per cycle ( as fry/ as fingerlings / beyond)

* + 1. Cost involved in seed handling and package: Rs--------

6.3.6 Cost involved in seed transportation and related expenses.: Rs------

6.3.7 Other incidental expenses incurred / crop: Rs......

6.3.8 How many cycles of rearing you could take during the season/ year

**A7: Marketing (7.0)**

**7.1 Do you sell spawn locally Yes/No**

If no where do you sell, cost

**7.2 Do you sell all the fry produced Yes/No,**

if yes at what rate and income from sale

**7.3 Do you keep some for rearing up to fingerlings**

if yes, How much is stocked/ha: ----------

**7.4 How did you dispose of the seed**

Own use/ supply to govt./ fellow farmers/ PFCS/ Others (specify)-------

**A8: Feedback and perceptions (8.0)**

**8.1 What are the varieties of fish seed in demand in your locality/ region**

**8.2 Are you getting the supply of spawn/ fry of desired species for rearing on a regular basis in desired quantity**

**8.3 How are you meeting the input requirement for seed rearing**

**8.4 What is the extent of utilization of your seed rearing farm against designed capacity?**

<25%/ 25-50%/ 50-75%/ 75-100%

**8.5 If it is underutilized what are the likely reasons**

|  |  |  |
| --- | --- | --- |
| 8.5.1 | Water problem |  |
| 8.5.2 | Labour problem |  |
| 8.5.3 | Lack of skilled personnel |  |
| 8.5.4 | Power problem |  |
| 8.5.5 | Marketing problem |  |
| 8.5.6 | Others (specify) |  |

**8.6 Do you grow from spawn to fingerlings in the same pond, If yes, what was the duration of crop : one month/two months/three months**

**8.7 Are you getting technical handholding support on a regular basis?**

**8.8 Who is extending technology support**

**8.9 Do you find any problem in marketing?**

**8.10 Do you feel it is remunerative/profitable, Yes/No**

If no, what are the reasons?

1.

2.

If yes, in what way: increase in income/employment opportunity/additional income.

**8.11 Do you feel the present support provided by govt. is sufficient? Yes/No ; if no what is expected of the** Govt.

1.

2.

**8.12 Do you intend to continue and expand activities? If yes, Do you expect more support by govt. and in what way**

1.

2.

3.

**8.13 Will you be interested in taking over a govt seed farm if an offer is made-Yes/No**

If no what are the reasons

If Yes, What will be your conditions?

**8.14 Buy back of produced seed/ freedom in fixing price/ additional Technical support/ Govt. scheme support/ minimal Govt Interference others (specify):---------------**

**8.15 Do you require any hand holding/support from Govt.If so, how long and for what?**

1.

2.

3.

**8.16 Do you want the farm on rent basis/long term lease?**

8**.17 What is your perception on seed quality produced privately and will it have any impact on survival, growth and production**

**8.18 Do you have any suggestions to improve seed production both in terms quality and quantity in the region?**

**A9: Constraints and suggestions(9.0)**

**9.1 Constraint analysis**

|  |  |  |
| --- | --- | --- |
| **Constraint related to** | **Diagnosis of the problem** | **Your suggestion/solution** |
| Lack of availability of fish seed |  |  |
| Untimely supply |  |  |
| Lack of Institutional hand holding |  |  |
| Inadequate inbuilt market support |  |  |
| Any others (specify) |  |  |

* 1. **Your response on the following solutions** 
     1. Strengthening / promoting new seed production farms under private participation
     2. Development of seed villages, cluster seed rearing farms at Mandal levels
     3. Facilitation for Technical hand holding support
     4. Supportive Govt. schemes for inputs and infrastructure
     5. Any others (specify)

**A10: SWOT Analysis (10.0)**

* 1. **List the major strengths of your seed rearing unit on which you can consolidate your rearing operations?**

|  |  |
| --- | --- |
| a. |  |
| b. |  |
| c. |  |
| d. |  |

* 1. **Mention the weakness that needs to be addressed?**

|  |  |
| --- | --- |
| a. |  |
| b. |  |
| c. |  |
| d. |  |

* 1. **What are the opportunities that exist for betterment in seed rearing business?**

|  |  |
| --- | --- |
| a. |  |
| b. |  |
| c. |  |
| d. |  |

* 1. **What are the threats that need mitigation ?**

|  |  |
| --- | --- |
| a. |  |
| b. |  |
| c. |  |
| d. |  |

**Annexure -1**

**Cost of production and economics**

**Spawn to fry**

* **Targeted production ………..(lakh nos.)**
* **Crop duration …………………..days**
* **No.of crops per year……………..**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Cost of production costs** | **Unit** | **Qty** | | **Rate** | **Cost (Rs.)** |
| **4.1.1** | **Pre-stocking inputs** |  |  | |  |  |
|  | * Lime |  |  | |  |  |
|  | * Manure |  |  | |  |  |
|  | * Fertisilsers |  |  | |  |  |
|  | * Labour |  |  | |  |  |
|  | * Other costs |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
| **4.1.2** | **Stocking and post-stocking inputs** |  |  | |  |  |
|  | * Spawn |  |  | |  |  |
|  | * Feed |  |  | |  |  |
|  | * Health care |  |  | |  |  |
|  | * Labour |  |  | |  |  |
|  | * Other costs |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
| **4.1.3** | **Total production (qty in lakh nos.)** | | |  | | |
| **4.1.4** | **Survival (%)** | | |  | | |
| **4.1.5** | **Net saleable (qty in lakh nos.)** | | |  | | |
| **4.1.6** | **Cost of production (Rs. per unit)** | | |  | | |
| **4.1.7** | **Sale price (Rs. per unit)** | | |  | | |
| **4.1.8** | **Margin (Rs. per unit)** | | |  | | |
| **4.1.9** | **Total Income (Rs.)** | | |  | | |

**Annexure -2**

**Cost of production and economics**

**Fry to fingerlings**

* **Targeted production ………..(lakh nos.)**
* **Crop duration …………………..days**
* **No.of crops per year……………..**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Cost of production costs** | **Unit** | **Qty** | | **Rate** | **Cost (Rs.)** |
| **4.2.1** | **Pre-stocking inputs** |  |  | |  |  |
|  | * Lime |  |  | |  |  |
|  | * Manure |  |  | |  |  |
|  | * Fertisilsers |  |  | |  |  |
|  | * Labour |  |  | |  |  |
|  | * Other costs |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
| **4.2.2** | **Stocking and post-stocking inputs** |  |  | |  |  |
|  | * Fry |  |  | |  |  |
|  | * Feed |  |  | |  |  |
|  | * Health care |  |  | |  |  |
|  | * Labour |  |  | |  |  |
|  | * Other costs |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
| **4.2.3** | **Total production (qty in lakh nos.)** | | |  | | |
| **4.2.4** | **Survival (%)** | | |  | | |
| **4.2.5** | **Net saleable (qty in lakh nos.)** | | |  | | |
| **4.2.6** | **Cost of production (Rs. per unit)** | | |  | | |
| **4.2.7** | **Sale price (Rs. per unit)** | | |  | | |
| **4.2.8** | **Margin (Rs. per unit)** | | |  | | |
| **4.2.9** | **Total Income (Rs.)** | | |  | | |

**Annexure -3**

**Cost of production and economics**

**Spawn to fry to fingerlings**

* **Targeted production ………..(lakh nos.)**
* **Crop duration …………………..days**
* **No.of crops per year……………..**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Cost of production costs** | **Unit** | **Qty** | | **Rate** | **Cost (Rs.)** |
| **4.3.1** | **Pre-stocking inputs** |  |  | |  |  |
|  | * Lime |  |  | |  |  |
|  | * Manure |  |  | |  |  |
|  | * Fertisilsers |  |  | |  |  |
|  | * Labour |  |  | |  |  |
|  | * Other costs |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
| **4.3.2** | **Stocking and post-stocking inputs** |  |  | |  |  |
|  | * Spawn |  |  | |  |  |
|  | * Feed |  |  | |  |  |
|  | * Labour |  |  | |  |  |
|  | * Other costs |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
| **4.3.3** | **Total production (qty in lakh nos.)** | | |  | | |
| **4.3.4** | **Survival (%)** | | |  | | |
| **4.3.5** | **Net saleable (qty in lakh nos.)** | | |  | | |
| **4.3.6** | **Cost of production (Rs. per unit)** | | |  | | |
| **4.3.7** | **Sale price (Rs. per unit)** | | |  | | |
| **4.3.8** | **Margin (Rs. per unit)** | | |  | | |
| **4.3.9** | **Total Income (Rs.)** | | |  | | |