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

**Case Study Questionnaire for Government Seed Rearing Farm**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **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** | **Profile of Seed Rearing Farm** | **1.0** |
| **A2** | **Infrastructure and Investments** | **2.0** |
| **A3** | **Production aspects** | **3.0** |
| **A4** | **Cost of production and economics** | **4.0** |
| **A5** | **Demand, Supply and Offtake** | **5.0** |
| **A6** | **Constraints and suggestions** | **6.0** |
| **A7** | **SWOT Analysis** | **7.0** |

**A1: Profile of Seed Rearing Farm (1.0)**

* 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**

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

* 1. **Establishment and track record**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.3.1 | | Year of Establishment |  | | | | | |
| 1.3.2 | | Total area (Ha)- |  | | | | | |
| 1.3.3 | | Water spread area(Ha) |  | | | | | |
| **1.3.4** | | **Production in the last five years** | **Year I** | **Year II** | **Year III** | **Year IV** | | **Year V** |
|  | |  |  |  |  |  | |  |
|  | |  |  |  |  |  | |  |
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|  | |  |  |  |  |  | |  |
|  | |  |  |  |  |  | |  |
| **1.3.5** | **Type of operations (✓)** | | | | | | | |
|  | * Spawn production | | | | | |  | |
|  | * Spawn to fry | | | | | |  | |
|  | * Fry to fingerlings | | | | | |  | |
|  | * Spawn fry - fingerlings | | | | | |  | |
|  | * Beyond fingerlings | | | | | |  | |
|  | * Spawn production | | | | | |  | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1.3.6** | **Source of seed** | **On farm** |  | **Outsourced** |  |
| * state farm |  |
| * Private farm |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1.3.7** | **Species reared** | **Year I** | **Year II** | **Year III** |
|  | * Indian Major carps |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  | * Exotic species |  |  |  |
|  | a. |  |  |  |
|  | b. |  |  |  |
|  | c. |  |  |  |
|  | Indigenous species |  |  |  |
|  | a. |  |  |  |
|  | b |  |  |  |
|  | c |  |  |  |

* 1. **Capacity utilisation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Year I** | **Year II** | **Year III** |
|  | Designed capacity |  |  |  |
|  | Utilized capacity |  |  |  |
|  | Utilization (%) |  |  |  |

**1.4.1 Reasons for low capacity utilization**

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

* 1. **Managerial aspects**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Name of the staff member** | **Designation** | **In charge since** | **Role/Responsibilities** |
|  |  |  |  |  |
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**1.5.1 Is there staff inadequacy and lack of support affecting the operations and how is it being addressed**

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

* + 1. **Trainings and capacity building programmes provided to staff members in seed rearing**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Name of the program** | **Duration** | **Conducted by** |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |
| 5. |  |  |  |

* + 1. **Have you identified any unfulfilled training needs if so details?**

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

**A2: Infrastructure and Investments (2.0)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **2.1** | **Investment item** | **At start** | **Later investment** | | | **As at present year \_\_\_** | **Original inv. Amount** |
| **Year ----** | **Year I--** | **Year II --** | **Year III --** |
| **2.1.1** | **Basic Infrastructure** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **2.12** | **Ponds and tanks** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **2.1.3** | **Machinery & equipment** |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| **2.1.4** | **Other items if any (specify)** |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
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* 1. **Furnish investment details like number of ponds, dimensions, size, volume and specifications and usage for above investments**
  2. **Indicate if any investments are defunct, not in use, under repair etc.,**

**A3: Production aspects (3.0)**

**3.1 Target vs. Achievement**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | **Year I** | **Year II** | **Year III** | **Year IV** | **Year V** |
| 3.1.1 | Target |  |  |  |  |  |
| 3.1.2 | Achievement |  |  |  |  |  |
| 3.1.3 | Short fall |  |  |  |  |  |

**3.2 Reasons for shortfall and corrective measures taken**

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**3.3 What are the steps in your production schedules to meet the seasonal demand?**

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

* 1. **Operational details** 
     1. **Pre Stocking,**

1. Pond preparation details- drying/weed removal
2. Liming- kg/ha
3. Manuring- Type- poultry manure/catle dung- kg/ha
4. Fertilizer applications – NPK, urea, super phospahte etc.
   * 1. **Stocking and post stocking practices**
   1. Stocking density/ha
   2. Feed type and feeding rate(quantity)
   3. Lime, Manure & fertilizer applications
   4. Water quality management
   5. Health care products used if any- type and quantity
      1. **Duration of rearing period**

|  |
| --- |
|  |

* + 1. **Number of crops taken in a year**

|  |
| --- |
|  |

* + 1. **Survival per crop (%)**

|  |
| --- |
|  |

* + 1. **Record keeping**

|  |
| --- |
|  |

Technical problems encountered during production- Diseases, water quality associated , others…..

Measures adopted to overcome the problems

* 1. **Other aspects of production**

3.5.1 Information on stunted fingerling production if any-including pre stocking/stocking (size and age at stocking, stocking density (no./ha)/post stocking protocols followed (Feed type, feeding rate, feeding frequency/day), duration of rearing, weight at harvest, survival rate and economics

3.5.2 Information on seed rearing in pens/cages and *in situ* rearing peripheral ponds of reservoirs/large tanks and other water bodies in the district if yes, provide following details

* + - Location
    - Is it for rearing fry to fingerlings
    - Size of pen/cage/pond
    - Protocols followed – pre stocking, stocking (no./ha, size at stocking and post stocking practices followed- feeding type, quantity and water quality monitoring if any
    - Duration
    - Survival%

3.5.3 **Ornamental fish breeding -** Species normally bred, Purpose, Breeding protocols, Scope and prospects

**A4: Cost of production and economics (4.0)**

**4.1 Economics - Spawn to fry – targeted production ------------------ (lakh nos.)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Cost of production costs** | **Unit** | **Qty** | | **Rate** | **Cost (Rs.)** |
| **4.1.1** | **Pre-stocking inputs** |  |  | |  |  |
|  | * Lime |  |  | |  |  |
|  | * Manure |  |  | |  |  |
|  | * Labour |  |  | |  |  |
|  | * Other costs |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
| **4.1.2** | **Stocking and post-stocking inputs** |  |  | |  |  |
|  | * Spawn |  |  | |  |  |
|  | * Feed |  |  | |  |  |
|  | * 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.)** | | |  | | |

**4.2 Economics - fry to fingerlings – targeted production ------------------ (lakh nos.)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Cost of production costs** | **Unit** | **Qty** | | **Rate** | **Cost (Rs.)** |
| **4.2.1** | **Pre-stocking inputs** |  |  | |  |  |
|  | * Lime |  |  | |  |  |
|  | * Manure |  |  | |  |  |
|  | * Labour |  |  | |  |  |
|  | * Other costs |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
|  |  |  |  | |  |  |
| **4.2.2** | **Stocking and post-stocking inputs** |  |  | |  |  |
|  | * Fry |  |  | |  |  |
|  | * Feed |  |  | |  |  |
|  | * 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.)** | | |  | | |

**4.3 Economics – Spawn to fry to fingerlings – targeted production ------------------ (lakh nos.)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Cost of production costs** | **Unit** | **Qty** | | **Rate** | **Cost (Rs.)** |
| **4.3.1** | **Pre-stocking inputs** |  |  | |  |  |
|  | * Lime |  |  | |  |  |
|  | * Manure |  |  | |  |  |
|  | * 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.)** | | |  | | |

**A5: Demand, Supply and Offtake (5.0)**

**5.1 What is your service area- same districts/neighbouring districts**

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

**5.2 Have you estimated the total demand for your area of operation?**

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

**5.3 How much of the demand (%) you are able to meet**

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

**5.4 In your opinion how is the short fall being met and from which sources**

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

**5.5 How do you sell your seed- on prior indent /demand or first come first served basis**

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

**5.6 Who are your clients-other state farms/ private parties/agents/farmers**

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

**5.7 How do you fix your sale price-based on cost of production or as fixed by the govt?**

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

**5.8 How do you think you can meet at least your cost of production by adopting better management?**

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

**5.9 What are your suggestions on most appropriate fixing of sale price and what are the modalities?**

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

**A6: Constraints and suggestions (6.0)**

|  |  |  |
| --- | --- | --- |
| **Constraint related to** | **Diagnosis of the problem** | **Your suggestion/solution** |
| Water supply |  |  |
| Power supply |  |  |
| Input supply |  |  |
| Man power |  |  |
| Technical guidance |  |  |
| Infrastructure inadequacy |  |  |
| Lack of proper facilities |  |  |
| Climatic/Natural calamities |  |  |
| Any others (specify) |  |  |

**A7: SWOT Analysis (7.0)**

* 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. |  |