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

**Posers for DOF State Level Officers**

**⯀ Respondent**

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| * **Name** |  |
| * **Address** |  |
| * **Contact details** |  |

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| **1.0** | **Seed production centres (Hatcheries)** |
| **2.0** | **Seed rearing centres** |
| **3.0** | **Seed requirement – Demand & supply** |
| **4.0** | **Augmenting seed production** |
| **5.0** | **Seed procurement** |
| **6.0** | **Seed certification and seed quality** |
| **7.0** | **Fish species and varieties** |
| **8.0** | **Other aspects** |

1. **Seed production centres in the State (Hatchery)**

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| --- | --- | --- | --- | --- | --- | --- |
| **Sl.no** | **Ownership of hatchery** | **Total nos** | **Designed capacity (spawn)\*** | **Functionality of hatchery (🗸)** | | **Reasons for non functioning of hatcheries\*\*** |
| **Functional** | **Non functional** |
| **i** | **State owned** |  |  |  |  |  |
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| **ii** | **Private owned** |  |  |  |  |  |
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**\*crores/ season or year**

**\*\*Reasons for non functioning : a.** Water scarcity b. Condition of brood ponds/hatchery c. Lack of man power d. Lack of finance d. Timely availability of inputs e. Lack of demand for seed f. Others-specify

* 1. **Spawn production in the state**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.No** | **Location** | **Govt./ private** | **Area (ha)** | **Designed capacity** | **Present production** | **% acheivement** |
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**1.2 Species wise spawn production for previous 5 years (lakh)**

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| --- | --- | --- | --- | --- | --- |
| **Year** | **Species I** | **Species II** | **Species III** | **Species IV** | **Species V** |
| * 2016-17 |  |  |  |  |  |
| * 2015-16 |  |  |  |  |  |
| * 2014-15 |  |  |  |  |  |
| * 2013-14 |  |  |  |  |  |
| * 2012-13 |  |  |  |  |  |

1. **Seed rearing centres**
   1. **Number of seed production centres (Breeding farms in the district: ……………………………………………….**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.no** | **Ownership of hatchery** | **Total nos** | **Designed capacity (fry/ fingerlings)\*** | **Functionality of hatchery (🗸)** | | **Reasons for non functioning of hatcheries\*\*** |
| **Functional** | **Non functional** |
| **i** | **State owned** |  |  |  |  |  |
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| **ii** | **Private owned** |  |  |  |  |  |
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**\*crores/ season or year**

**\*\*Reasons for non functioning: a.** Water scarcity b. Condition of brood ponds/hatchery c. Lack of man power d. Lack of finance d. Timely availability of inputs e. Lack of demand for seed f. Others-specify

**2.2 Information on functional seed rearing centres in the district (both Govt. & private)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl.No** | **Location** | | **Total number** | **Designed capacity** | **Present production** | **% acheivement** |
| 1 |  |  | |  |  |  |
| 2 |  |  | |  |  |  |
| 3 |  |  | |  |  |  |

**2.3 Species wise seed reared during previous 5 years (lakh)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Species (1)** | | **Species (2)** | | **Species (3)** | | **Species (4)** | |
| **Fry** | **Fingerlings** | **Fry** | **Fingerlings** | **Fry** | **Fingerlings** | **Fry** | **Fingerlings** |
| 2016-17 |  |  |  |  |  |  |  |  |
| 2015-16 |  |  |  |  |  |  |  |  |
| 2014-15 |  |  |  |  |  |  |  |  |
| 2013-14 |  |  |  |  |  |  |  |  |
| 2012-13 |  |  |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |  |

**Species (1)………………………….. Species (2)……………………… Species (3)………………………. Species (4)……………………………..**

**2.5 What are the various non conventional resources that are being utilized for fish seed rearing in the state?**

|  |  |
| --- | --- |
| * Seed rearing in peripheral tanks/ reservoir shore |  |
| * Insitu seed rearing |  |
| * Seed rearing in small water bodies (seasonal) |  |
| * Resource tagging for seed rearing |  |
| * Seed rearing in pens/ cages |  |
| * Others, if any |  |

**3.0 Seed requirement – Demand & supply**

3.1 What is the total seed requirement of the state (fingerlings) :………………………………………….

3.2Any target fixed

3.3 How the seed requirement targets are estimated

3.4 How much is achieved: Percentage fulfilment

1. Internal production: …………………………….
2. Out sourcing: ………………………………………….

3.5 What are the sources?

3.6 What is the projected growth of sector in the state in terms of?

1. Area utilization
2. Expansion of fisheries and aquaculture activities
3. Vertical integration of activities
4. Change in farming systems
5. Intensification at farm level

3.7 Status of fish seed demand as fry/ fingerlings and advance fingerlings in the state

3.8 What is the existing gap in seed requirement?

3.9 What are the demand side constraints?

3.10 How the present demand is being met?

3.11 Do you have state plan for seed production, distribution and networks to address the seed supply -demand issues?

3.12 Do you assess district specific demand for fish seed? if so which are more potential districts in the state in terms of fisheries and aquaculture related activities?

3.13 How do you address district specific demand supply environment?

3.14 What is the present scenario of fish seed supply chain in operation in the state?

3.15 What are the internal net work arrangements made between seed production centers ( both govt. And private) for the seed flow within the state ?

3.16 What is the net work arrangement made between seed growers / seed rearing units to fishers?

3.17 Do you have any specific new innovative initiatives that are successful and can be replicated in other parts of the state/ country. If so pl. Provide details

1. **Augmenting seed production**

4.1 What are the key issues that are constraining the fish seed segment growth and that need attention?

4.2 According to you who holds monopoly in the seed supply chain? And how?

4.3 According to you what are the supply side constraints that need attention

4.4 What are your suggestions to address these distribution related bottlenecks

4.5 What are your suggestions to enhance performance of existing state/ private seed production centres? How do you go about in integrating the functionality and networks to harness their total potentials and also bring synergies and complementarities?

4.6 What is the present share of private players in internal seed production?

4.7 Why private participation in seed segment is limited, do you foresee better opportunity in this segment for entrepreneurs participation as business activity/ if so how?

4.8 Do you think privatisation of seed production will help in meeting the requirement? If yes, What should be the mechanism for involvement of private participation?

4.9 What could be the role play by private seed producers and growers in addressing the internal seed demand?

4.10 According to you what could be the better role play of private seed suppliers/traders to address the quality seed deficit gap?

4.11 How do you facilitate private players to take up the activities of seed production/ seed rearing on a business model?

4.12 What could be the role play of DOF in promoting private participation on a large scale?

4.13 What are the new strategies of DOF to enhance seed availability within state?

4.14 What is the scope for establishing new hatcheries, Seed production centers/ seed hubs/ seed villages/ seed holding centres under govt./private sector ? Which are the locations in the state where these establishments can be positioned?

4.15 Are the providers are registered with the DOF? If not do you feel it is required? If so why?

**5.0 Seed procurement**

5.1 What is the process involved in procurement: Tender/ Direct purchase from the seed producers/ others (specify)

5.2 Are you satisfied with the present mode of procurement in terms of purity, quantity, Size, health status, survival after arrival and overall performance of the seed?

5.3 Do you observe any difference in the performance (survival, growth and health status) between seed produced internally and out sourced?

5.4 Do you have monitoring system of recording fish seed inflow from outside sources

**6.0 Seed certification and seed quality**

6.1 What are your comments on present seed certification system?

6.2 Are you successful in meeting the growing demand for quality seed?

6.3 What are the limitations to have better access for the quality seed in the chain?

6.4 What are the system gaps in meeting the requirement of quality fish seed internally?

6.5 What are your suggestions for improving of seed quality?

6.6 Do you think establishment of following under govt./ private system will help in meeting the desired quality of seed and seed demand

1. Model hatchery, seed rearing units , seed holding facilities
2. Fish seed hubs at strategic locations
3. Establishment of related ancillary units

6.7 What are the monitoring instruments in practice to check seed quality, price, and associated services? If not what are your suggestions:

6.8 What is the key role played by DOF at state level and new initiatives to meet quality fish seed requirement of desirable variety, size, health etc.?

**7.0 Fish species and varieties**

7.1 What is your opinion on introduction of new/ improved variety of fishes?

7.2 Are there any new introductions- other than conventional carps? If yes, provide details

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl.no** | **Species** | **Year of introduction** | **Performance** |
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7.3 What are the local indigenous fish species of tanks and reservoirs in the state?

7.4 What is the present status of these species in natural water bodies?

7.5 What efforts are being made towards conservation of local/ indigenous fish species and what are the specific policy guide lines for the same

**8.0 Other aspects**

8.1 What are your views for strengthening capacity building of players involved in the entire fish seed supply chain including farmers and entrepreneurs

8.2 What is the institutional arrangement you have in support of technology handholding, training, consultancy services, diagnostic facilities etc.

8.3 What are your suggestions for establishment of brood stock banks, seed clusters and holding farms?

8.4 What are your comments on?

1. Regulated production and supply of seeds of carps, pangaseous, tilapia and other newly introduced cultivable fish species for different production systems
2. Promotion of Public-private partnership in the fish seed chain to encourage private investment & participation
3. Positioning of guide lines and policy support to promote green growth of fish seed segment

8.5 Do you think seed quality will have any bearing on aquaculture production? Yes/ No

If no, what are the options- encourage private participation in seed production/get it from out side

If encouraging private participation is answer, how do you think it can be implemented?

What is your opinion on encouraging privatisation of existing govt hatcheries?

8.6 Any special programmes for conservation, production and propagation of murrel now designated as state fish of Telangana