

Title -- Production of Fish Seed through establishment of Hatchery complex,

Category –The Most significant achievement of the project belongs to Fisheries category for construction of three hatchery complexes, producing 906 lakh spawn fish seed and 271 lakhs standard fry seed have been established successfully in Government sector to meet the gap between demand and supply and to attain self-sufficiency in the sector of fish seed Production through RKVY Project.

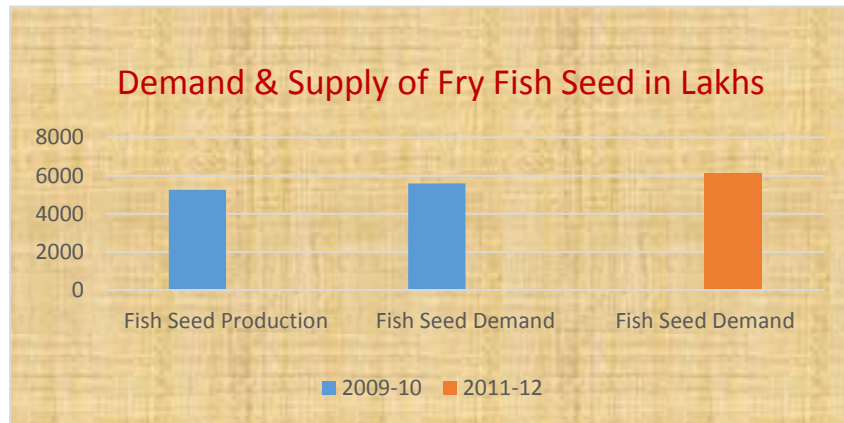
Challenge –

Main challenge before the Department is, to fill the gap between demand and supply & attain self-sufficiency in production of Spawn & standard fry fish seed during year 2009-10 & onwards. Fish seed is the most important input in fish culture. However, non- availability of it, is one of the limiting factor for aquaculture and is considered to be a potential source of employment for poor farmers and fishermen. Rapid development of fish culture has already generated considerable employment

through availability of marketable fish.

Simultaneously it plays a major

role to provide cheap animal protein food which help in eradication of malnutrition in the infants and lactating mothers.



Madhya Pradesh is one of the land locked state, blessed with vast potential of aquatic resources. In the year 2009-10 available water area was 3.23 lakh hector and till the end of 11th five year plan an additional 0.77 lakh hector would be available for fish culture.

During the year 2009-10, Fish seed production level was 5235 lakhs standard fry, as against the demand of 5600 lakh standard fry fish seed. Due to increase in the water area at the end of 11th five-year plan, the demand of fish seed would be 6100 lakhs standard fry.

To overcome the challenges, Department proposed to create the new facilities for fish seed production in public as well as in private sectors. All the established technologies, for enhancing fish seed production and rearing of fish seed will be applied in the three districts of the State, to make the best use of infrastructure. The fish seed required for stocking in ponds and reservoirs is key input for fish production. The fish production is largely dependent upon the stocking of genetically improved quality and quantity of fish seed.

Initiation: In the existing Fish Seed Farms, construction of hatchery complex including one Spawning pool, Four Incubation pool, one Spawn receiving pool, one Over-head tank and development of new rearing area was quite indispensable to fulfill the growing

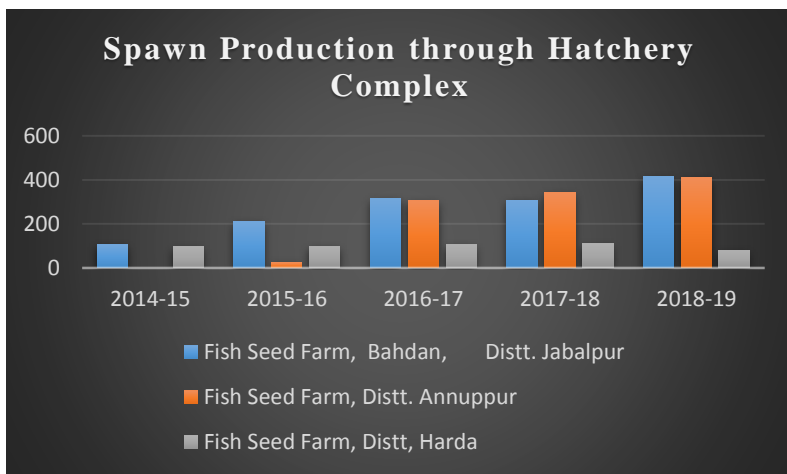


demand of fish seed. A project proposed in 2009-10 included construction of additional one hector rearing area and hatchery complex in Anuppur, construction of circular hatchery complex and electrification of fish seed farm Harda & construction of hatchery complex including Incubation pool and Over-head tank in Fish Seed Farm, Bahdan, District Jabalpur. The total proposed outlay completion of these activities was Rs. 85.00 Lakhs during the year 2009-10.

Key Results –

After completion of the proposed project with investment of Rs. 85.00 Lakhs, all three hatcheries started production successfully. During the year 2014-15 production from all the three hatcheries was 202 lakhs spawn, which gradually increased and is presently 906 lakhs spawn,

resulting in production of 271 lakhs standard fry. Hatchery wise and year wise progress is shown in the Graph. Presently water area of



ponds & reservoirs has been stocked with 271 lakhs standard fry Fish seed for production of fish.

Impact –

Presently production of spawn fish seed from newly constructed hatchery complexes is in full swing. Production of 906 lakhs spawn from these hatcheries and production from rearing areas of Government and Private

sector resulting in production of 271 lakhs standard fry, which is stocked in different ponds and reservoirs of the nearby areas of the concerning districts. Due to stocking of fish seed in ponds and reservoirs, concerning fish farmers were able to produce 2770 MT fish worth Rs. 27.70 crore.

Lesson –

Implementation of the projects was delayed since departmental officers and engineers had no powers to take up the work departmentally. Therefore, department had no option except to get construct the hatchery complex through other working agencies of the State, viz Public Health Engineering Department (PHED) or Rural Engineering Services (RES). However, due to lengthy process of deposit works and work pressure of their own, on the working agencies, were not able to complete the work within time schedule. On the basis of experience gained, the department had decided to approach the Government to delegate powers of taking up construction works departmentally. Now Government have delegated the powers to take up construction works departmentally to the engineers of the department to enable them to complete the construction works timely and to implement the project successfully.

Supporting Quotes and Imagess- Annuppur Hatchery complex situated in Fish Seed Farm Pushprajgarh, is the ideal structure most suitable for



HATCHERY COMPLEX PUSHPRAJGARH, AND REARIND PONDS

raising good quality spawn. This hatchery has facility of continuous flow of water by gravity required to breed the fish and hatch the eggs.



The hatchery system comprises of one Overhead tank; one Spawning pool; two Incubation & hatching pools and one spawn collection tank. All components have been constructed with R.C.C. & brick masonry well equipped with water supply line. Expected production through these



hatcheries is estimated to be 400 lakhs spawn during each breeding season. However, during the year 2018-19 upper limit of spawn production was crossed and the production was 410 lakhs spawn. The expenditure on the construction of Hatchery and other related works was Rs. 25.00 lakh.

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