

EXPRESSION OF INTEREST

**Development of Cage Aquaculture in
K R Sagara and Alamatti Reservoirs,
Karnataka**

September 2021



**Department of Fisheries
Government of Karnataka**

NOTICE INVITING EOI FOR SELECTION OF ENTITIES FOR DEVELOPING CAGE AQUACULTURE IN THE RESERVOIRS OF K R SAGARA AND ALAMATTI IN KARNATAKA ON LEASE-DEVELOP-OPERATE BASIS



DIRECTORATE OF FISHERIES,

3rd Floor, Podium Block, Visvesvaraya Centre, Dr. Ambedkar Veedhi,
Bengaluru – 560001, Ph: 080 22864681

The Director, on behalf of Department of Fisheries, Government of Karnataka invites submission of Expression of Interest from interested individuals/fish farmers/Fishing Co-operative Societies (FCS)/Self Help Groups (SHG)/ Farmer Producer organizations (FPOs), Firms/ Companies for **DEVELOPMENT OF CAGE AQUACULTURE IN THE RESERVOIRS OF K R SAGARA AND ALAMATTI IN KARNATAKA ON LEASE-DEVELOP-OPERATE BASIS**

EOI FEE	INR 2,000/- in the form of DD Payable to Director, Directorate of Fisheries at the time of submission of Application		
QUERIES	Applicants shall post queries by email to dfkarnataka@rediffmail.com Note: Please keep subject of the email as: “ Query for EOI – Development of Cage Aquaculture in the Reservoirs of K R Sagara and Alamatti in Karnataka on Lease-Develop-Operate Basis ”		
EOI SCHEDULE	IMPORTANT ACTIVITIES		DEADLINE
	Issue of EOI Document		27.09.2021 from 16.00 hrs onwards
	Last Date for sending queries or clarifications regarding EOI		21.10.2021 on or before 17.00 hrs
	Pre-bid meeting		25.10.2021 at 15.00 hrs
	Last date for EOI Submission		30.10.2021 on or before 17.00 hrs
ADDRESS OF DOF	Directorate of Fisheries, Podium Block, Vishweshwaraiah Center, Dr BR Ambedkar Road, Bangalore 560001, Ph: 080 2286461 Helpline Number: 8277200300		
OFFICERS INCHARGE	Head Office Shri. Mahadeva Deputy Director of, Fisheries, Bengaluru Ph: 080 22864681, 9986755434	Applicants who wish to visit the reservoirs may get in touch with the following officers	
		K R Sagara Shri. K. Narayana Joint Director of, Fisheries Mysore Ph: 9844367082	Alamatti Shri. Kulkarni S V Joint Director of Fisheries, Belagavi Ph: 9448907603
Helpline of Dept. of Fisheries		8277200300	
Website to download EOI	https://fisheries.karnataka.gov.in/page/Tenders+and+Notifications/en		
EMD	Rs 5,000/- per 0.25ha. To be paid at the time of submission of Application		
The right to accept/reject any or all EOI(s) received is reserved without assigning any reason thereof. Director, Department of Fisheries, Government of Karnataka			

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1. INTRODUCTION AND BACKGROUND

1.1 Cage Culture in Reservoirs

Cage culture is when fish are reared from fry to fingerling, fingerling to table size, or table size to marketable size while captive in an enclosed space that maintains free exchange of water with the surrounding water body. A cage is enclosed on all sides with mesh netting made from synthetic material that can resist decomposition in water for a long period of time. Cages are generally small, ranging in freshwater reservoirs from 1 m² to 500 m². Several small cages combined in a battery, are suited for even intensive culture.



Fig 1: HDPE Floating Pontoon Cubes used for suspending Nylon Net Cages for fish



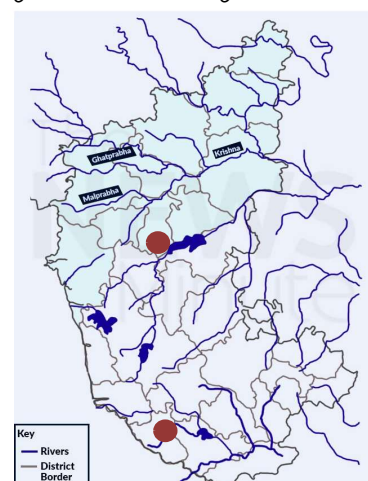
Fig 2: Circular fish cages

Cage culture is most suitable to a wide range of open freshwater ecosystems, especially reservoirs. It efficiently exploits water bodies, tapping their natural productivity and thereby reducing pressure on other resources. It uses simple technology and locally available resources for cage construction and operation, making it economically and socially sound. Cage culture eliminates losses to predation and facilitates prophylactic measures to contain any outbreak of disease, allowing very high fingerling survival rates. It makes effective use of manpower, as daily maintenance routines and monitoring are relatively simple, and harvesting is rapid, easy, sure and complete.

1.2 Inland Aquaculture in Karnataka

In India, Karnataka State is endowed with a vast inland water spread with rich potential for fish culture comprising reservoirs, major and minor tanks, rivers, canals besides innumerable perennial and seasonal tanks and ponds. It constitutes about 9.3% of inland water resources. It is estimated that the potential of inland fish production of the State is around 4.02 Lakh Metric Tons taking into account the full utilization of all inland water resources for fisheries. The eastern dry region of Karnataka State has very rich potential for inland fishery production. There are total of 5.65 lakh hectares

Fig 3: Location of KRSagara & Alamatti



water resources under the administrative control of Department of Fisheries, comprising 83 reservoirs having water spread area of 2.72 lakh ha, 3891 tanks having water spread area of 1.77 lakh ha tanks, Gram Panchayath tanks having water spread area of 1.25 lakh ha and 5853 km of rivers and creeks. This is about 48% total fish production of the State. Inland fish production in the State is expected to increase rapidly and there is possibility of major portion of fish produced is contributed through inland fish culture.

Most of the Inland water resources in the state depend upon rain for water, most tanks receive water to the full during monsoon, and some depend on post- monsoon season. So tanks that are perennial are very few. Majority of the tanks are short seasonal and possibly hold water for 4 to 5 months only.

There are about 6.46 lakh Inland fishermen in Karnataka, out of which about 1.41 lakh fishermen are actively involved in fishing. The overall development of these fishermen depends on integration of fisheries activities. The Department is working in this direction to produce good quality fish seed to distribute it in the right time.

There are 681 Fishermen Co-operative Societies in Karnataka off which 619 are active including marine and inland. One State Level Co-operative Fisheries Federation in inland is functioning to assist the activities of these Co-operative, share capital, fishery requisites loan and managerial subsidy are being provided. There are 2.04 lakh members in all FCS.

With respect to development of aquaculture in inland waters of Karnataka, the State Government has various schemes – (a) “Encouragement to inland fish culture” to increase the inland fish production through Fishermen Co-operative Societies free of cost, (b) “Assistance to Shrimp and brackish water fin fish culture through 50% subsidy for encouraging prawn and fish farming in inland and backwater resources, (c) Establishment of ‘Nija Sharana Ambigara Chowdaiah North Karnataka Fisheries Development Agency (NKFDA)’ to formulate local specific programmes for the integrated, (d) Scheme for “Supply of Fishery requisite Kit”, a kit consisting of fishing net and other fishery requisites and (e) Development of Inland Fisheries and Aquaculture under “Blue Revolution” an Integrated Development and management of Fisheries (f) PMMSY.

Source: Annual Report Annual Report 2019-20, Department of Fisheries, Government of Karnataka

1.3 Context of the Expression of Interest (EOI):

The Department of Animal Husbandry and Fisheries, Government of Karnataka has set for itself a target of achieving One Million Tons of fish production annually. One of the ways of achieving the target is through promotion of cage aquaculture in inland water bodies. As mentioned above, Karnataka is endowed with abundant water resources and man-made reservoirs which can be utilized for fisheries. The objective of developing cage aquaculture in the reservoir water bodies are;

- i. To augment fish production from reservoirs in a responsible manner, without affecting the livelihood of the traditional/local fishing communities;
- ii. To increase per capita fish protein availability in Karnataka;
- iii. To enhance the income and livelihood security of the fishers depending on inland fisheries resources; and
- i. To ensure that the growth of aquaculture is:
 - a. Inclusive and sustainable,
 - b. In harmony with principles of ecological integrity and natural resource conservation, and
 - c. Not in conflict with the genuine interests of other users of the water and land resources.

In this regard, Directorate of Fisheries, Government of Karnataka (DoF) invites submission of Expression of Interest from interested eligible applicants for the **Development of Cage-Culture Aquaculture in the Reservoirs of K R Sagara and Alamatti in Karnataka on Lease-Develop-Operate Basis** (The “Project”). DoF intends to call for Expression of Interest (EOI) for two reservoirs such as K R Sagara and Alamatti. Based on the response to this EOI, DoF will invite Applicants for some of the other reservoirs as well, in the State.

DoF, GoK encourages the participation of SC/ST and Women entrepreneurs. Applicants can avail benefits in accordance with the revised guidelines of PMMSY set-out in Annexure 7 – “Revisions in the existing Activities and amendment in the Operational Guidelines of Pradhan Mantri Matsya Sampada Yojana (PMMSY)”. The same is also available on the Government of India website.

The area for carrying-out cage aquaculture in the respective reservoirs of K R Sagara and Alamatti shall be given out on Lease-Develop-Operate basis to the successful Applicants. Under the PMMSY the Central Government assistance will be up to 40% of the unit/project cost for General Category and 60% for SC/ST/Women Category.

1.4 Description of the EOI Process:

DoF intends to encourage cage aquaculture in the reservoirs of K R Sagara and Alamatti with the objective of enhancing fish production in the State of Karnataka. In line with this objective, DoF has decided to invite suitable applicants to submit their proposals for developing the Project, in response to and in accordance with this EOI. The detailed description of site locations for Cage Culture at K R Sagara and Alamatti is set-out in Annexure 8.

1.5 Disclaimer

Information provided in this EOI to the Applicant(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be

regarded as a complete or authoritative statement of law. The Authority accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

Further, the information related to Project is being provided only as a preliminary reference by way of assistance to the Applicants who are expected to carry out their own surveys, investigations and other detailed examination of the Project before submitting their Applications. Nothing contained in this document shall be binding on the Authority nor confer any right on the Applicants, and the Authority shall have no liability whatsoever in relation to or arising out of any or all contents of this EOI document.

2. SCOPE OF WORK

2.1 Project Scope:

The selected Applicant will be responsible for Development, Operation and Maintenance of the Cage Culture in locations of Alamatti and K R Sagara. Hence the Applicant is expected to include the following details in the Technical Proposal which will form the basis for selection of the Applicant. The proposal should elaborate on:

I. Development Plan

a. Reconnaissance Survey and Site Selection:

The Applicant is expected to carry out a site survey with the support of DoF to identify the potential location for installation of cages. During the survey, the following points are required to be considered for the selection process – a) The depth of the water column, b) water quality and circulation free from local and industrial pollution, c) incase of large and medium-sized reservoirs, sites should be in sheltered bays for protection from strong winds. In small reservoirs, the cage should be anchored in the deeper lentic sector to avoid the current flow through sluice gates and irrigation channel, d) safety from frequent disturbance from local people and grazing animals, e) accessibility to land and water transportation, f) the site should be devoid of algal blooms to avoid fouling, aquatic macrophytes and high populations of wild fish, which can cause oxygen stress, g) cages to be placed where they will not hinder navigation. Applicant to refer “Guidelines for Cage Culture in Inland Open Water Bodies of India” – Page 6.

During Site Selection another important aspect is also to check the water quality, as the cage culture operations will tend to increase nutrient load, BOD and COD in the water bodies, care must be taken to pre-assess the water quality of the location. Therefore it's prudent to check the quality of water if it is oligotrophic (low nutrient content) or mesotrophic (moderate nutrient content) before starting

the cage culture. Applicant to refer “Guidelines for Cage Culture in Inland Open Water Bodies of India” – Page 6 & 7.

Note: The Applicant is expected to decide on the number of units that they can install as part of the Project based on its own Financial Capacity. Each Unit offered by DoF is 0.25 hectares. Considering the number of units that an Applicant will be able to Develop, Install, Operate and Maintain, the Detailed Project Report should comprehensively include all the details of the project from planning stage, implementation, operation and maintenance of the cages, harvesting and marketing

b. Evaluation of type of cages:

The type of cages and its size optimization has to be assessed by the Applicant in line with the prescribed “Guidelines for Cage Culture in Inland Open Water Bodies of India” (– Page 4). Cage for fish culture in reservoirs can vary, often multiple units are installed as a battery of cages with catwalks for easy access to the fish stock and floating huts. From operational and planning purposes, a cage with the dimensions: 6m (L) x 4m (W) x 4m (H) is considered as a standard unit and a battery comprising of 6, 12 or 24 cages can be designed as per requirement. The cages in a battery are arranged in caterpillar design for better exchange of water thereby facilitating relatively high dissolved oxygen.

c. Cage Design and Materials:

A cage comprises of hard frames as support and nylon nettings as cage body. It is desirable to have environment friendly, HACCP (Hazard Analysis and Critical Control Points) protocol compliant, rust-free materials for cage fabrication. Commonly used materials for cage frames are bamboos, mild steel (MS), galvanized iron (GI), poly-vinyl chloride (PVC) and virgin-grade HDPE (High Density Polyethylene) (for runner-based & pontoon-based frames). The bamboo-based frames are not recommended for commercial cage fish farming due to their poor longevity and strength to withstand turbulence. However, the design and cage net specifications will also depend upon the fish that will be cultured.

Output as part of the Detailed Project Report: Site Selection, Type of cage, number of units planned to be executed by the Applicant, details of cage design, size, number of cages, pattern of laying the cages, access to these cages on regular basis for operation and maintenance.

II. Implementation Plan with Timelines

d. Frame fabrication and Installation:

The material selection and fabrication should be such that it lasts for the lease period with minimum intervention in terms of wear and tear. The material used for floating above waters and submerged parts have to be inspected every quarterly and replace/repair as required to keep structure durable to protect

stocks. The Applicant should elaborate in the Detailed Project Report, the technical details and specification of the materials used, plan for installation, fitting of the catwalks if any etc. He should also account for the wear and tear of cage materials in part or in full during the lease period during estimation of the Project cost.

Output as part of the Detailed Project Report: The complete implementation timelines – for fabrication and implementation of cages, labour deployed, plan for daily feed, checking for repairs and wear and tear, etc

Note: DoF is expecting the Successful Applicant to complete installation and commence operations within 6 months from the time of signing of the Lease Agreement.

III. Procurement & Management of Stocks

e. Selection of stocking

Stocking materials should be based on careful evaluation of the stocking species that are available in terms of survey of the locality and the DoF. If there is nothing satisfactory, advanced fingerlings must be transported from a reliable and authentic agency, where they are available and less expensive than in other parts of the State/Country. If transported, then the oxygen required for the advanced fingerlings are to be considered. The advanced fingerlings should be healthy when purchased and come from a clean water body with low eutrophication.

f. Stocking and Grow-out period

The stocking material is better transported to the cage site in water loaded open tank with frequent stirring. Stock maintenance involves periodic sampling to assess the growth and general health condition. The stocking density is in the range of 60 to 100 nos./m³ of fingerlings (50-60 mm size). According to one estimate, >3000 million fingerlings of size 80-100 mm are required annually to stock reservoirs alone. Separate cages are needed for nursery rearing and grow-outs. Normally, 30% of the cages in a battery are earmarked for in situ rearing of fingerlings (stocking materials); the rest being grow-out cages. The Applicant may consult DoF regarding stocking. For the Cage Net specifications refer “Guidelines for Cage Culture in Inland Open Water Bodies of India”.

g. Supplementary Feeding

The cage fish farming being purely based on supplementary feeding, selection of good/best fish feed and its application in right quantity is important to achieve desirable results. It is advised that only quality floating feed is selected. Sinking feed is totally unsuitable for cage fish farming as it accumulates at the base and fouls the cage/reservoir environment. The rate of feeding varies based on the species of fish to be harvested and the Applicant is required to refer the “Guidelines for Cage Culture in Inland Open Water Bodies of India” and also

discuss in detail with DoF.

Excessive feeding should be avoided in cages, as it may pollute the environment and hamper the growth rate of stocked fish. Feed usually comes in bulk, requiring proper storage to protect it from excess humidity and heat, insects, rodents, fungi, and contaminants. The spoiled feed can become less palatable and nutritious to fish, or even toxic. So, due care has to be taken to keep feeds properly and maintain their quality.

Output as part of the Detailed Project Report: The selection of stocks, size, quantity, stock procurement, required feed, stocking of feed, frequency of feeding, quality check of the growouts etc has to be elaborated in the Detailed Project Report.

IV. Operation and Maintenance

Anti-corrosive paint should be applied to GI/MS cages to prevent rusting. Cage should be cleaned at 15-days interval to avoid net clogging. After shifting the stock to another cage, each cage shall be taken out, sun-dried and cleaned thoroughly by scrubbing/water-jet wash to remove debris and fowling organisms. In situ cleaning using water jets is not permitted. Additional hapas/nets may be maintained for this purpose or to meet other emergency situation if any.

- Water Quality Check: Water quality parameters that must be monitored in the cages are dissolved oxygen, acidity, free ammonia, and phosphate. Check on algal bloom is necessary as it may rarely push some parameters to water quality to the point of threatening fish survival.
- Cleaning Netlon cages: Soft brush should be used to clean the cage fortnightly to remove algae, sponges and other organisms. Floating macrophytes that waves sometimes push against cages should also be removed. Any dead fish should be removed from cages immediately and disposed of in a pit. Covering dead fish with lime helps contain any disease. Deaths should be recorded to facilitate later analysis of disease outbreaks.
- Routine checking: Loose twine, mesh torn by predators, anchors and sinkers must be checked routinely and immediately mended or replaced as needed. Repair torn mesh with patches to keep fingerlings from escaping. With the onset of bad weather, anchors should be checked and fastened tightly.
- Fish stock monitoring: Routine checks of fish health help prevent massive loss. Fish health can be easily checked by monitoring fingerlings response when feed is applied. Signs of ill health include surfacing, lesions, rashes, spots, lumps, excessive mucus formation, woolly mat formation, bulging eyes, and fin and tail

erosion. Appropriate prophylactic measures should be applied as necessary and at least fortnightly.

- Monitoring of growth rate. Samples should be taken at a regular interval to assess fingerlings length and weight to monitor growth. This information is important for maintaining fish health and optimal feeding, as well as for scheduling the harvest.

Output as part of the Detailed Project Report: The detailed implementation plan covering the cage maintenance, stock quality maintenance, water quality, feeding stock, required stock of fingerlings, growth rate of the fish etc

V. Removal and Release

Fingerlings are removed and released in batches. As fingerlings grow at different rates, they must be segregated by size to prevent the slower growers from falling further behind. Fingerlings that reach the length of 70-80 mm should be harvested, thinning the cage population to allow the smaller fingerlings to grow more quickly. Harvesting generally occurs in three batches as fingerlings approach 80 mm in length. Records should be kept of the length and weight of harvested fingerling batches. Cage culture of fingerlings in the reservoir that is to be stocked saves transport costs and minimizes fingerling mortality. Using the procedure described above, should yield a fingerling recovery rate of at least 70%.

VI. Marketing of the Harvest

Marketing of the fish produced from cage culture project is the sole responsibility of Lessee. The feeding should be stopped 2 days prior to harvesting. It is advisable that the harvesting of stock may be done in phased manner like larger fish first, especially to avoid glut in the market, to avoid low price for the harvested fish and get a better market price. Records of harvest should be maintained at the site. Cage culture is a high-intensive culture practice that could result in harvest of large quantities of fish at a time. Growth of this segment of fish production without a planned link to a whole value chain approach, could result in marketing problems and post-harvest losses. It is essential to have a post-harvest and marketing strategy before launching cage culture ventures on a large-scale. The large-scale cage production centers should either have their own facilities or have linkages for:

- Proper harvesting gadgets
- Fish holding and storage
- Live fish transport Post-harvest processing centres like fillet plants
- Market chain including E-markets.

In any case, it is advisable for all cage units (including small units) to have a small ice-making device at each cage site for preservation of the harvest before being transported for storage or to the market. There should be at least one

insulated van at site for transportation of fish. Efforts may also be made to create live/preserved fish sale outlets at strategically important points in nearby cities for better return.

VII. Site Based Business Plan:

The Applicant shall also give a detailed proposal of its financial estimation and production cost analysis as part of the Detailed Project Report. This includes but not limited to:

The Capital Investment which includes both fixed and recurring cost - the site survey and planning process, setting up the cage system on site, stock purchase, transportation, labour cost, feeding, cleaning, harvesting, miscellaneous etc. The Applicant shall also estimate the production cost and profits through-out the lease period. This detailed documentation of the Cost from start of the Project to the harvesting shall be declared to the DoF as and when asked for or annually. This will help DoF assess the performance and evaluate the probable extension of the lease period from the initial 5 years to further 5 years.

2.2 Key Terms of Lease Agreement

1. The K R Sagara reservoir has 12924 hectares of water spread off which about 2% area i.e., 258.48 hectares is available for Cage Culture.
2. Alamatti reservoir has 48787 hectares of water spread off which about 2% area i.e., 975.74 hectares are available for Cage Culture.
3. DoF has earmarked an area of 0.25 hectares as 1 Unit. The Lease Period initially is for a period of 10 years subject to terms and conditions laid down in Government Order no: AHF e-38-mee-ee-2021Bengaluru dated 21-06-2021.
4. A **Lease Amount of Rs 20,000 per Unit per annum** has been fixed for 1st year. For the remaining years, Lease Amount shall be increased annually by **10%** of the lease amount of the previous year or as prescribed by Government of Karnataka.
5. Subleasing of the leased area by the Applicant is strictly prohibited.
6. Successful Applicant shall pay the first-year lease amount at the time of signing of Lease Agreement. Lease amount of the remaining years shall be paid in the beginning of the corresponding year and shall obtain renewal order from Department of Fisheries.
7. Department of Fisheries shall have the power to cancel the lease if the proposed activities cause any violation of Lease Agreement or due to changes in Government Regulations with respect to reservoir management or any other environmental concerns or public interest activities in the location.
8. The leased site shall be utilized for fish culture in cages only. It shall not be used for any other commercial purposes like tourism or sports Fisheries etc. In such case lease will be cancelled.
9. Dumping, throwing of any type of waste, dead fish or their viscera into the reservoirs which pollutes the quality of water shall not be allowed.
10. In case, any disease incidence is noticed in cages, all precautions should be

taken to prevent and control it and the dead fish shall be disposed safely burying/burning them at a far-away place from the reservoir so that disease does not spread to the other cages or fishes in the reservoirs.

11. The species of fish permitted by the Government of Karnataka only shall be reared in cages. If any illegal varieties or culture of banned varieties is noticed in the cages, lease shall be cancelled with immediate effect and shall attract legal measures from the concerned Department.
12. Department of Fisheries shall not pay any compensation for any loss/damages caused due to any natural calamity or any other causes. The lessee alone will be responsible for any damage/loss incurred.
13. Financial assistance will be as per the PMMSY latest revised norms.
14. Fish culture shall be taken up within 6 months after obtaining the unit on lease, otherwise lease will be cancelled.
15. Marketing of the fish produced from the project is the sole responsibility of lessee.
16. Lessee shall provide information in stipulated format to Department of Fisheries regarding seed stocking, fish catch, marketing & income details of each crop.
17. Any issues arising during the Lease period shall be sorted out by mutual discussion. In case of any irreconcilable differences, the decision of the Secretary/Principal Secretary, Department of Animal Husbandry and Fisheries, Government of Karnataka shall be final and lessee shall abide by it.
18. Further disputes, if any arising out of the project will be settled within the jurisdiction of Bengaluru court only.
19. Officials of Department of Fisheries, Govt. Of Karnataka shall have the access to the Unit(s) whenever required.
20. Permission for cage aquaculture will not be granted in the reservoir area coming under reserve forest, Wildlife zone, national parks where public entrance is prohibited under any Government notifications or Law.
21. Successful Applicant shall execute an agreement on Rs.200/- judicial stamp paper with Department of Fisheries stating that he/she abide by the above said terms and conditions.
22. The Lessee may use craft for to and fro movement of staff, feed and harvested fish from bank to project site.
23. The lessee shall not interfere or come in the way of other activities implemented in the reservoir.
24. The State Government is in no way liable for the damages/compensation relief claimed by the individual /agency/firm/company to whom permission to install cages in the water body leased out is given.
25. The lessee is liable for payment of compensation to the reservoir fishermen in the event of indulgence in activities against to the interests of the reservoir fishermen.
26. The Lessee shall abide by the Terms and conditions stipulated periodically by the Central/State Government. The Lease Amount and Performance Security shall be forfeited in case the lessee decides to discontinue the lease before

completion of lease period.

27. The Applicant has to comply with all prevailing Government notifications and guidelines and those issued from time to time.

3. INSTRUCTION TO THE APPLICANTS

DoF on behalf of Govt. of Karnataka invites submission of Expression of Interest from interested eligible individuals'/fish farmers/Fishing Co-operative Societies (FCS/Self Help Groups (SHG)/Other Community Organizations, Farmer Producer organizations (FPOs), Firms/ Companies (The "Applicants") for **Development of Cage Aquaculture in the Reservoirs of K R Sagara and Alamatti in Karnataka on Lease-Develop-Operate Basis**, in accordance with conditions and manner prescribed in this Expression of Interest (EOI) document.

An Applicant may apply for Units in either or both reservoirs. If applicant is applying for Units in both reservoirs, then it shall submit SEPARATE DETAILED PROJECT REPORTS for each Reservoir. All other documents to be submitted shall be common for both reservoirs.

3.1 Important Dates & Information

S. No	Item	Details
1	Project Name	Development of Cage Aquaculture in the Reservoirs of K R Sagara and Alamatti in Karnataka on Lease-Develop-Operate Basis
2	Issue of EOI Document	27.09.2021 from 16.00 hrs onwards
3	Website to download EOI	https://fisheries.karnataka.gov.in/page/Tenders+and+Notifications/en
4	EOI Fee	INR 2,000/- in the form of DD Payable at Bangalore to Director, Directorate of Fisheries at the time of submission of Application
5	Queries by email	Applicants shall post queries by email to dfkarnatka@rediffmail.com Note: Please keep subject of the email as: “Query for EOI – Development of Cage Aquaculture in the Reservoirs of K R Sagara and Alamatti in Karnataka on Lease-Develop-Operate Basis
6	Last Date for sending queries or clarifications regarding EOI	21.10.2021 on or before 17.00 hrs
7	Pre-bid meeting	25.10.2021 on or 15.00 hrs. Note: Pre-bid meeting will be held ONLINE, at all District Offices of DoF. Applicants may choose to (i) attend the meeting online. The link will be posted on the website https://fisheries.karnataka.gov.in/page/Tenders+and+Notifications/en Or (ii) attend the meeting online from the nearest District Office of DoF. The Details of the District Offices, along with officer's incharge, address and phone number is attached as Annexure 10. Or (iii) attend the meeting physically at the office of DoF in Bengaluru at the address mentioned in (9) below. During the pre-bid meeting the Applicant can clarify any queries they have with regard to the EOI Document.
8	Last date for EOI Submission	Complete EOI with relevant details must be submitted on or before 30.10.2021 before 17.00 hrs by post or in person to Directorate of Fisheries, Podium Block, Vishweshwaraiah Center, Dr BR Ambedkar Road, Bangalore 560001, Ph: 080 22864681

9	Opening of EOIs received	The Authority will open all the EOIs in the presence of Applicant's representatives, who choose to attend at Directorate of Fisheries, Podium Block, Vishweshwaraiah Center, Dr BR Ambedkar Road, Bangalore 560001, Ph: 080 22864681 on 12.11.2021 at 3.30 pm IST.		
10	Helpline of Dept. of Fisheries	8277200300		
11	Contact Person for EOI & Site Visits to relevant Site	Head Office Shri. Mahadeva Deputy Director of, Fisheries, Bengaluru Ph: 080 22864681, 9986755434	Applicants who wish to visit the reservoirs may get in touch with the following officers	
			K R Sagara Shri. K. Narayana Joint Director of Fisheries, Mysore Ph: 9844367082	Alamatti Shri. Kulkarni S V Joint Director of Fisheries, Belagavi Ph: 9448907603

3.2 Eligibility Criteria

The submission of the EOI is open to individuals/fish farmers/ Fish Cooperative Societies/ FPOs/SHGs/ Companies which satisfies the following minimum criteria:

- Technical Capacity:** Should have minimum experience of at least 2 years in Cage Culture and/or minimum of 3 years in Fisheries based on any other technology or schemes of fisheries offered by Central/ any State Government, anywhere in India and preferably in the State of Karnataka.
- Financial Capacity:** The Applicant shall demonstrate sufficient financial capability to undertake the Project for which it is submitting the EOI. If Applicant is a Company, it shall demonstrate positive net-worth in each of the last three financial years.

Table 1: Documents to be submitted as part of the Application

Sl.no:	Category of Applicants	Documents to be submitted as part of the Application
1.	Individuals/ Fish Farmers	<ul style="list-style-type: none"> ○ Aadhar card duly attested by a notary. ○ Attested copy of Bank passbook of the individual /Fish Farmer to certify the financial position for last 3 years. ○ Demand Drafts for Eoi Fee, Lease Amount for Year 1, EMD to be submitted.
2.	FCS/FPO/SHG	<ul style="list-style-type: none"> ○ Registration Certificate, by law of society/organization ○ The audit report of last 3 years done by Cooperative Department / organization /company and its compliance report.

		<ul style="list-style-type: none"> ○ Attested copy of Bank passbook of the society to certify the financial position for last 3 years. ○ Demand Drafts for Eol Fee, Lease Amount for Year 1, EMD to be submitted.
3.	Company	<ul style="list-style-type: none"> ○ Registration Certificate, by law society/organization/Company Registration certificate as per 1956 Companies Act or 2013 Companies Act ○ Audited financial statements of last 3 years ○ Positive Networth as on March 2021 ○ Demand Drafts for Eol Fee, Lease Amount for Year 1, EMD to be submitted.

NOTE:

- The Applicant must be incorporated under laws and policies of the country and such entity should be in operation for the last 3 years as on March 31, 2021.
- The Applicant should NOT have been blacklisted/debarred by any of the Central or State Governments /other government agencies.
- In case Applicant submits Proposal as a Consortium, the above-mentioned criteria shall be jointly met by the Consortium. The number of members in such Consortium shall not exceed 3 (three). A suitable letter of association shall be submitted along with this EOI accordingly for the lease period of 10 years.

3.3 Availing EOI Documents

The EOI document can be downloaded from the website [link https://fisheries.karnataka.gov.in/page/Tenders+and+Notifications/en](https://fisheries.karnataka.gov.in/page/Tenders+and+Notifications/en) up to the date and time mentioned in the EOI.

3.4 Completeness of the EOI Response

Applicants are advised to study all instructions, forms, terms, requirements and other information in the EOI documents carefully. Submission of EOI shall be deemed to have been done after careful study and examination of the EOI document with full understanding of its implications. The response to this EOI should be full and complete in all respects.

3.5 Cost Of EOI

The Cost of the EOI document is **INR 2,000/-**, and shall be payable at Bangalore on or before the due date of EOI submission, in the form of a Demand Draft issued by a Nationalized/Scheduled Bank in the favor of Director, Directorate of Fisheries,

Government of Karnataka.

3.6 EOI Preparation Cost

The Applicant is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of EOI, in providing any additional information required by DoF. DoF will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process. All materials submitted by the Applicant shall become the property of the DoF and may be returned at its sole discretion.

3.7 Earnest Money Deposit (EMD)

The Applicant shall pay **Rs 5000/- per Unit** as Earnest Money Deposit (EMD) in the form of DD payable to **Director, Directorate of Fisheries**, Government of Karnataka at Bangalore, acceptable to the DoF, from a Nationalised or Scheduled Bank in India.

The EMD of unsuccessful Applicants shall be returned to the Applicants within 30 days of signing of Lease Agreement with Successful Applicant(s). The validity period of EMD shall not be less than 180 days from the EOI Submission Date. The Application shall be summarily rejected if it is not accompanied by EMD.

The EMD of the successful Applicants would be returned upon submission of Performance Security. The Performance Security shall be an amount equal to 5% of total Project Cost furnished in the form of Bank Guarantee as per the format provided in Annexure 9 and shall be kept valid throughout the Lease Period.

3.8 Submission of EOI Queries

The following format is suggested for seeking queries.

Subject: Development of Cage Aquaculture in the Reservoirs of K R Sagara and Alamatti in Karnataka on Lease-Develop-Operate Basis		
Details of the query seeker	Name & Address of the Organization	
	Name & Position of the Person submitting query	
	Contact Details	Mobile: Telephone: Email:
Sl. No.	EOI Reference (Page/Section)	Points of clarification required

3.9 Amendment of EOI Document

At any time before the deadline for submission of EOI, DoF, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Applicant, modify the EOI Document by an amendment.

In order to afford prospective Applicants reasonable time in which to take the amendment into account in preparing their EOIs, DoF may, at its discretion, extend the last date for the receipt of EOIs. The Applicants are advised to visit the website <https://fisheries.karnataka.gov.in/page/Tenders+and+Notifications/en> on regular basis for checking necessary updates. DoF also reserves the rights to amend the dates mentioned in this EOI.

3.10 DOF's Rights to Terminate the Process

DoF reserves the right to terminate the EOI process at any time and without assigning any reason thereof. DoF makes no commitments, express or implied, that this process will result in a business transaction with anyone. This EOI does not constitute an offer by DoF.

3.11 Sealing, Marking and Submission of EOI

Documents Establishing Applicant's Qualification

The Applicant shall furnish, as part of its EOI documents establishing the Applicant's qualification in the formats provided in this EOI. The documentary evidence should be submitted by the Applicant as part of the response to the EOI. The documentary evidence of Applicant's qualification shall be as per Qualification Requirements specified in this EOI document.

Format and Signing of EOI

- i) The Applicant shall prepare one hard copy of the EOI.
- ii) The EOI document shall be signed, at the time of submission, by the Applicant or a person or persons duly authorized to bind the Applicant to the provisions of the EOI. The later authorization shall be indicated by a copy of written power-of-attorney accompanying the EOI. All the pages/ documents of the EOI that are to be uploaded shall be signed by the person authorized to sign the EOI.
- iii) **Submission of EOI:** Proposals not conforming to the eligibility criteria and non-submission of required documents as listed may lead to rejection of the Proposal. Submission of forged documents will also result in rejection of the Proposal. The

Applicant should submit the Proposal as per the requirement of EOI which should be received in the office of the **Director, Directorate of Fisheries, Government of Karnataka** with the proper postal **address of DoF** on or before due date and time as mentioned in the EOI. The postal cover should also highlight the: **Project Name: Development of Cage Aquaculture in K R SAGARA and Alamatti Reservoirs, Karnataka**". The Proposal received after due date and time will not be entertained. The department is not liable/ responsible for any delay in receipt of documents for the reason whatsoever. (iii) Each page of the Proposal should be numbered and in conformation to the eligibility qualifications and clearly indicated using an index page. The DoF will not consider any proposal that arrives after the deadline as prescribed in the EOI. Any Proposal received after the deadline will be out rightly rejected by the DoF.

3.12 Late Submission of EOI

EOI being submitted after the specified time limit and date will not be accepted.

3.13 Language of EOI

The responses prepared by the Applicant and all correspondence and documents relating to the documents exchanged by the Applicant and DoF, shall be written in English language. Any printed literature furnished by the Applicant in another language shall be accompanied by an English translation, in which case, for purposes of interpretation of the EOI, the English translation shall govern. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Applicant.

3.14 Evaluation of EOI submitted

- DoF shall establish an Evaluation Committee to evaluate the Applications submitted by the Applicants.
- The DoF will scrutinize the Applications received to determine whether they are complete in all respects as per the requirement of EOI and whether the documents have been properly signed as per EOI requirements.
- The evaluation of the information furnished by the Applicants relating to their eligible experience comprising Technical and Financial capability would be undertaken as per Clause 3.2 of this EOI. The Applicants shall be evaluated based on the technical capability, Financial capacity, all compliances as per the formats including payment of the EOI Fee and EMD.
- Applicants who meet the Eligibility Criteria would be considered as qualified applicants ("Qualified Applicants") for the next stage of Evaluation, which is the DPR evaluation.
- During the process of evaluation, the DoF may, at its discretion, seek clarifications from all or any of the Applicants in connection with their Application. The request for such clarification and the Applicants response

should necessarily be in English and in writing. Such responses should be submitted within the time stipulated by the DoF.

- The Applicants shall be evaluated based on the Detailed Project Report (DPR), that satisfies the Scope of Work as setout in Clause 2, 2.1, 2.2, 2.3. Post evaluation of the submission, the applicants may be invited to present their Detailed Project Report to the Evaluation Committee setup by the DoFs.
- The Applicants whose DPRs are also approved by the Evaluation Committee shall be declared as 'Successful Applicants' and shall be intimated for execution of the Lease Agreement.

4. FORMATS FOR EOI SUBMISSIONS

4.1 ANNEXURE 1: CHECKLIST FOR THE DOCUMENTS TO BE SUBMITTED IN EOI RESPONSE:

Sl. No.	Documents to be submitted	Suggested Format	Submitted (Y/N)	Documentary Proof (Page No.)
1	Covering Letter	Annexure 2		
2	Format to share the particulars of the Applicants	Annexure 3		
3	Financial Capability of the Applicant through a Statutory Auditor's Certification	Annexure 4		
4	Applicants declaration for not being blacklisted by Central Government or any State Government organization / department in India at the time of submission of the EOI	Annexure 5		
5	Format of DPR	Annexure 6		

4.1 ANNEXURE 2: COVERING LETTER

[On the Letter head of the Applicant]

Date:

To

The Director,

DIRECTORATE OF FISHERIES,

3rd Floor, Podium Block, Visvesvaraya Centre,

Dr. Ambedkar Veedhi,

Bengaluru – 560001, Ph: 080 22864681

Subject: Submission of EOI for Development of Cage Aquaculture in the Reservoirs of K. R .Sagara and Almatti in Karnataka on Lease-Develop-Operate Basis

Sir,

Being duly authorized to represent and act on behalf of(hereinafter referred to as “the Applicant”), and having physically inspected the site, fully understood the information provided, the undersigned hereby apply in response to the EOI document for “Development of Cage Aquaculture in the Reservoirs of K R Sagara and Almatti in Karnataka on Lease-Develop-Operate Basis”

We are enclosing our Expression of Interest with the details as per the requirements of the EOI document, for your evaluation.

Yours faithfully, _____

(Signature of Authorized Signatory)
(Name, Title and Address)

4.2 ANNEXURE 3: FORMAT TO SHARE PARTICULARS OF THE APPLICANTS

Sl. No.	Item	Details (to be filled by the Applicant in response to the EOI)	
1	Name of the Individual/Society/organization/company		
2	Registered Address for Communication:		
3	Phone no: Email: Mobile No:		
4	Site Chosen for Cage Culture/Name of the reservoir		
5	Website Address (If any)		
5	Attested copy of AADHAAR (as applicable)		
6	Details of Registration by Law of Society/Organisation/Company (Please enclose copy of the registration document)		
7	Registration Number and Year of Registration		
8	States where the Society/Organisation/Company operates		
9	Company's Turnover (Year wise)*	Year 1 (2018-17)	
		Year 2 (2019-18)	
		Year 3 (2020-19)	

Contact Details of officials for future correspondence regarding the bid process:

Details	Authorised Signatory
Name	
Designation	Years
Address	
Mobile	
Fax	
E-mail	

4.3 ANNEXURE 4: STATUTORY AUDITOR'S CERTIFICATION – FINANCIAL CAPABILITY*(On Statutory Auditor's letterhead)*

Date:

DD/MM/YYYY To

To

The Director,

DIRECTORATE OF FISHERIES,

3rd Floor, Podium Block, Visvesvaraya Centre,

Dr. Ambedkar Veedhi,

Bengaluru – 560001, Ph: 080 22864681

Subject: Submission of EOI for Development of Cage Aquaculture in the Reservoirs of K R Sagara and Alamatti in Karnataka on Lease-Develop-Operate Basis

Sir,

I, statutory auditor of M/s_____ hereby declare that I have scrutinized and audited the financial statement of M/s_____. The Turnover of the Applicant for last Three (3) financial years as per audited statement is as under:

Financial year	Net Worth(INR)	Turnover (INR)

Yours faithfully,

(Signed and sealed by the statutory
address) (Name, Title and Address)

4.4 ANNEXURE 5: APPLICANT'S DECLARATION FOR NOT BEING BLACKLISTED/ DEBARRED

(To be submitted on letter head of the Applicant)

Date: DD/MM/YYYY To
The Director,
DIRECTORATE OF FISHERIES,
3rd Floor, Podium Block, Visvesvaraya Centre,
Dr. Ambedkar Veedhi,
Bengaluru – 560001, Ph: 080 22864681

Subject: Submission of EOI for Development of Cage Aquaculture in the Reservoirs
of K R Sagara and Almatti in Karnataka on Lease-Develop-Operate Basis

Dear Sir,

I/We, the undersigned, herewith declare that myself/our society/our organization/company
_____ has not been
debarred / black-listed by Central / any State Government department in India as on the date of
submission of the EOI.

Yours faithfully,

(Signature of Authorized Signatory)
(Name, Title and Address)

4.5 **ANNEXURE 6: FORMAT FOR DETAILED PROJECT REPORT TO BE SUBMITTED BY THE APPLICANT**

S. No.	Contents
1	Project Name [Indicate name of Reservoir] If Applicant is applying for Units in both Reservoirs, then separate DPRs shall be submitted]
2	Site Chosen by the Applicant for Cage Culture (Area in Hectares)
3	Salient features of the Site
4	Cage Culture Design and Material Specifications with drawings: <ol style="list-style-type: none"> Details of the proposed construction works of cage farms. (Design details/engineering works to be submitted): Number of cage units as per the indicated model above: Dimensions of each cage: Maximum fish holding capacity in each cage: Details of other structures including floats, anchors, watch towers, light-buoys: Details of boats for transporting men and material to and fro. On-site facilities for the cage farm: Details of the area where the on-shore facility is proposed to be taken up Details of the proposed construction works of on-shore facility. (Design details/engineering works to be certified and approved by the Competent Authority):
5	Implementation Strategy <ol style="list-style-type: none"> Installation of cages Plans to reach the cages for feeding and maintenance Species to be harvested and source of fingerlings, details of holding facility for the fingerlings to grow outs, details of feed to be used, Storage facility for feed, Frozen / Chilled storage facility for harvested fish (if any): Procurement of fingerlings – Source Transportation Stocking plans
6	Operation and Maintenance Plan along with timelines: <ol style="list-style-type: none"> Routine checking Check on wear and tear of cage structure and its replacement Cleaning Netlon cages Water quality check: On-site laboratory for monitoring water quality parameters and disease diagnosis in the cage farm site (if any): Labour deployment - Source and number of labor employed for construction as well as day-to-day culture operations (man days per year): <ol style="list-style-type: none"> Feeding stock and feeding plan – Details of feed to be used, its quantity and cost, source of procurement of feed, transportation Monitoring plan for Grow outs Harvesting – number of culture cycles per year
7	Marketing and Selling Plan – tie-ups
8	Financials - capital cost, operation and maintenance cost - cost of salaries/wages, harvesting cost, operational cost for on shore facility, economics of the operation
9	Expected date of operation of the farm and tentative schedule of activities
10	Annexures/supporting documents as per clause – 3.2 of the EoI

4.6 ANNEXURE 7 – “REVISIONS IN THE EXISTING ACTIVITIES AND AMENDMENT IN THE OPERATIONAL GUIDELINES OF PRADHAN MANTRI MATSYA SAMPADA YOJANA (PMMSY)”

Revisions in the existing Activities and amendment in the Operational Guidelines of Pradhan Mantri Matsya Sampada Yojana (PMMSY)

1. Revisions in the Operational Guidelines

The following revisions in the operational Guidelines of the Pradhan Mantri Matsya Sampada Yojana (PMMSY) have been approved.

1.1 Open Sea Cage Culture;

- (a) To increase number of open sea cages for individual beneficiary from 5 cages to 10 cages per individual beneficiary under the Centrally Sponsored Scheme Component of the PMMSY.
- (b) To increase open sea cages in case of Groups of fishers and fish farmers i.e. fisher SHGs/Joint Liability Groups (JLGs)/Fisher Cooperatives etc. or those undertaken in a cluster/area approach from the current ceiling of 50 cages per group up to a ceiling of 60 cages per group at the rate of 4 cages per member of the group.

Accordingly the clause at Sl. No. 2.4 (iv) of Annexure II of the Operational Guidelines of PMMSY issued on 24.6.2020 now reads as below:

"The governmental assistance is restricted to (a) a maximum of 10 cages per individual beneficiary (b) In case of Groups of fishers and fish farmers i.e. fisher SHGs/Joint Liability Groups (JLGs)/Fisher Cooperatives etc. or those undertaken in a cluster/area approach, the number of cages for governmental assistance will be limited to 4 x number of members of such group with a ceiling of 60 cages per group".

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Department of Fisheries

1.2 Reservoir Cage Cultivation

- (a) To increase number of reservoir cages for each individual beneficiary from 5 cages to 18 cages per individual beneficiary under the Centrally Sponsored Scheme Component of the PMMSY.
- (b) To increase reservoir cages in case of Groups of fishers and fish farmers i.e. fisher SHGs/Joint Liability Groups (JLGs)/Fisher Cooperatives etc. or those undertaken in a cluster/area approach from the current ceiling of 20 cages per group up to a ceiling of 72 cages per group at the rate of 6 cages per member of the group.

Accordingly the clause at Sl. No. 5.5 (a) (v) of Annexure II of the Operational Guidelines of PMMSY issued on 24.6.2020 now reads as below:

“The governmental assistance is restricted to (a) a maximum of 18 cages per individual beneficiary (b) In case of Groups of fishers and fish farmers i.e. fisher SHGs/Joint Liability Groups (JLGs)/Fisher Cooperatives etc. or those undertaken in a cluster/area approach, the number of cages for governmental assistance will be limited to 6 x number of members of such group with a ceiling of 72 cages per group”.

1.3 Restriction of transfer of assets created under PMMSY

- (a) To insert a suitable additional stipulation in the Operational Guidelines of PMMSY indicating that assets created either on own or lease land/water body out of the assistance provided under PMMSY shall not be disposed off in any form including by way of sale, gift, transfer and lease for a minimum period of 7 years in case of non-infrastructure projects and 10 years in case of infrastructure projects from the date of sanction of project. In case, the project beneficiary disposes off the assets created out of the assistance of PMMSY within the restricted, the beneficiary shall return the entire central financial assistance availed till that point of time along with accrued interest, if any, on the central financial assistance. In addition, penal interest @ 12% per annum on the central financial assistance shall also be charged. The entire central financial assistance, accumulated interest including penal interest shall be paid to Government of India in a lump-sum single installment.

1.4 Project Appraisal Committee (PAC) of NFDB to appraise the Integrated Modern Coastal Fisher Villages (IMCFV) Proposals

- (a) The 'Para 6.1(iv) of the Operational Guidelines of PMMSY' relating to Integrated Modern Coastal Fisheries Villages (IMCFVs) as below:

"The Project Appraisal Committee (PAC) of PMMSY in the NFDB will select the villages for developing as Integrated Modern Coastal Fisher villages and towards this end the PAC may seek assistance of any Agency if considered necessary. The Villages would be ranked and selected on the basis of a set of criteria formulated by PAC of NFDB to enable inter-village comparison of the potential villages".

- (b) It is also approved that the activity of Integrated Modern Coastal Fisher Villages may be implemented in a cluster mode wherever feasible, as implementation on a cluster mode is one of the key features of PMMSY.

2. Inclusion of additional activities under PMMSY

2.1 Inclusion of the additional activities as below have been approved for taking up under the PMMSY:

- 2.1.1 Extension of cage cultivation in rivers, brackish water, lakes and estuaries under centrally sponsored scheme component of PMMSY with stipulation that the cost norms prescribed for reservoir cage cultivation under PMMSY may be followed in case of establishment of cage in suitable rivers, brackish water, lakes and estuaries under PMMSY.
- 2.1.2 Development of fishing harbours along the rivers wherever feasible to promote the inland fishing and post harvest activities, especially inland capture fisheries under the Centrally Sponsored Scheme (CSS) Component of the PMMSY. Development of inland fishing harbours is

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Department of Fisheries

in addition to the fishing harbours that would be developed in marine sector. The cost norms approved under CSS Component of PMMSY for development of fishing harbours would be applicable both for inland and marine fishing harbours. The Operational Guidelines of PMMSY for development of marine fishing harbours would also be applicable to the inland fishing harbours to the extent relevant.

- 2.1.3 To take up river ranching under Central Sector Scheme component of the PMMSY. The proposal would be considered on a DPR basis and the river ranching may be done with native species.

(Shankar L)
Joint Commissioner (Fisheries)
Tele : 011-23389212

4.7 **ANNEXURE 8 – DETAILED DESCRIPTION OF RESERVOIRS K R SAGARA AND ALAMATTI**

K R Sagara Reservoir: Krishna Raja Sagar (KRS) dam is spread across Mysore and Mandya District. K R Sagara dam was constructed during 1911 to 1932. The dam has maximum water spread area of 12924 Hectares with maximum depth of 124.8 feet. Minimum depth is of 60 feet. K R Sagara Dam has its water source from Rivers such as Cauvery, Hemavathi and Lakshmana Thirtha, The reservoir passes through villages in Talukas such as K.R.Nagara, Mysore, Srirangapatana, Pandavapura and K R Pete. The major fishing villages include: K R Sagara, North Bank, Kanambadi, Aayarahalli Barthi, Ramenahalli, Poonahalli, Tihippur, Hampapura, Hosaarkalahalli, Meenakshipura and others. K R Sagara is accessible by all transport means such as airways, train and buses. The approach road to all the villages through is good condition. The reservoir is just 30 kms away from Mysore and Mandya.

Off the 12924 Hectares at K R Sagara about 2% i.e., 258.48 hectares are available for Cage Culture through this Project. Major Fish Species in K R Sagara include - Catla catla, Labeo calbasu, Cirrhinus mrigala, Cyprinus carpio, Ompok pabda and Minor Fish Species Channa spp., Oreochromis niloticus Oreochromis mossambicus, Puntius ticto



Fig 4: View of K R Sagara Reservoir



Alamatti Reservoir: The Alamatti Dam is the main reservoir of the Upper Krishna Irrigation Project. The reservoir with multipurpose objectives of irrigation, hydropower and fishing was completed in the year 2005 across Krishna River in B. Bagewadi taluk of Bijapur District. The Dam is 66 kms from Bijapur and 38kms from Bagalkote. The maximum water spread area lies in Bagalkote District having 48787 hectares off which about 2% area i.e., 975.74 hectares are available for Cage Culture.



Fig 5: View of Alamatti

The catch composition is dominated by major carp (Catla, Rohu followed by Mrigal), L.calbasu, L.Fimbriatus, freshwater cat fish, Pabda, Wallago attu, Chitala, Freshwater Eel, Small food fishes and major portion of the catch consists of comparatively large sized individual of carps.

District	Taluk	Name of the Reservoir	Water Spread Area (in Hectares)	Area (in Hectares) for Cage Culture
Vijayapura	Basavanabagevadi	Lalbhadrur Shastri (Alamatti)	48787	975.74
Mandya	Srirangapatna	K.R.Sagar	12924	258.48

4.8 ANNEXURE 9 – FORMAT FOR SUBMISSION OF PERFORMANCE SECURITY

To
 Director, Directorate of Fisheries,
 3rd Floor, Podium Block,
 Visvesvaraya Centre, Dr. Ambedkar Veedhi,
 Bengaluru – 560001

WHEREAS

_____ (name and address of the Applicant) has undertaken to offer the services, in pursuance of EoI _____ dated _____, for “**Development of Cage-Culture Aquaculture in the Reservoirs of K R Sagara and Alamatti in Karnataka on Lease-Develop-Operate Basis**” (herein after called the Project). AND WHEREAS it has been stipulated by you in the said Proposal/Contract that the Applicant shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with and due performance of the contract; AND WHEREAS we have agreed to give the Applicant _____ such a bank guarantee; NOW, THEREFORE, we hereby affirm that we are guarantors and responsible to you, on behalf of the Applicant, up to a total of _____, and we hereby irrevocably and absolutely undertake to pay you immediately, upon your first written demand declaring the Applicant to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Applicant before presenting us with the demand. We further agree that no change or addition to or other modification of the terms of the contract to be performed thereunder or of any of the contract documents which may be made between you and the Applicant shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification. The Guarantor Bank represents that this Bank Guarantee has been established in such form and with such content that is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein. The Bank Guarantee shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank or the Applicant. Draft Page 50 of 107 The Bank further undertakes not to revoke this Guarantee during its currency except with the previous express consent of the Client in writing. The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorized and has full power to execute this Guarantee for and on behalf of the Bank.

This guarantee shall be valid upto and including the _____ day of _____, _____.

(Signature of the authorised officer of the Bank with date)

 Name and designation of the officer

 Seal, name & address of the Bank
 and address of the Branch.

4.9 **ANNEXURE 10 – LIST OF DISTRICT OFFICES, OFFICER'S INCHARGE AND CONTACT DETAILS TO ATTEND THE PRE-BID MEETING**

SL. No.	Name	Designation	Landline	District	Mobile	Address
1	Annappa Swamy	Deputy Director of Fisheries	08194-230004	Chitradurga	8147472440	Deputy Director of Fisheries, 2nd Floor, Jilla Panchayath, Chitradurga-577501
2	Vishwanath T S	Deputy Director of Fisheries	0816-2278126	Tumkur	9844466228	Deputy Director of Fisheries, Near Stadium, Tumakuru-572102
3	Babin Boppa K	Deputy Director of Fisheries	08232-220745	Mandya	9743451314	Deputy Director of Fisheries, Near DC Office Mandya-57140
4	Siddaiah D	Deputy Director of Fisheries	0821-2483533	Mysore	9880923401	Deputy Director of Fisheries, No.1226/1, "Bhavasampada", Kantaraje Urs Road, Krishnamurthypuram, Mysore
5	Shrishaila G.S (Incharge)	Deputy Director of Fisheries	08352-250734	Vijaypur	9845927110	Deputy Director of Fisheries, Near B.S.N.L., Vijayapura-586101
6	Vivek .R	Deputy Director of Fisheries	08172-268571	Hassan	8652552249	Deputy Director of Fisheries, Near District Jail, Santhepete, Hassan-573201.
7	Sri. Shripad V. Kulkarni	Deputy Director of Fisheries	0831-2407250	Belgaum	9632273708	Deputy Director of Fisheries, Matsya Bhavan Near Cricker Stadium, Kanabargi Road, Ramteerth Nagar Belagavi-590015
8	S.R. Nagaraj	Deputy Director of Fisheries	080-29787456	Bangalore Rural	9341347440	#10.GROUND FLOOR , Jilla bhavan , BEERA SANDRA ,DEVANAHALLI - 562 110
9	D. Jayaramaiah	Deputy Director of Fisheries	080-27275258	Ramanagar	9035598339	Deputy Director of Fisheries, Jilla Panchayathi Bhavan, Magadi Road, Ramnagara-571511.
10	Anand Theertha Puranik	Deputy Director of Fisheries	08472-274006	Kalburagi	8050971404	Deputy Director of Fisheries, Alanda Road, Opp to Nirmithi Kendra Kalaburagi-585101.
11	SHARANABASAV A	Deputy Director of Fisheries	08532-230352	Raichur	9886775415	Gola Market, Near Mavinakere, Raichur-583101.
12	Dr. Ananth C. S	Deputy Director of Fisheries	08152-222095	Kolar	9740138511	Matsya Bhavan, Near ETCM. Hospital, Bangarpet Road, Kolar-563101.
13	Venkataramana Hegde	Deputy Director of Fisheries	0836-2447416	Dharwad	8073214660	D.C. Office Compound, Dharwad-580 001
14	Basavanagouda	Deputy Director of Fisheries	0839-2242783	Bellary	9901244116	Hospete Road, Near Nagarakere, Bellary-583102.

SL. No.	Name	Designation	Landline	District	Mobile	Address
15	G.S. Shadakshari	Deputy Director of Fisheries	08182-222716	Shimoga	9448930021	Opp Harsha Complex, B H Road, Shivamogga-577201
16	Yashaswini .T.N	Deputy Director of Fisheries	08156-270438	Chikkaballapur	9108454111	SA- 5 , DC office, Chickballapura-562101
17	Rajanna	Deputy Director of Fisheries		Gadag	9972060470	Gangimadi,Amareshwara nagar 5th Cross ,Outer Ring Road, Gadag-582103
18	Girisha O	Deputy Director of Fisheries	08226-224555	Chamrajnagar	9448213726	District Administrative Bhavan, Chamaraajanagar
19	Shivakumar GM	Deputy Director of Fisheries	0820-2530444	Udupi	9880044919	Deputy Director of Fisheries, Radha Complex, 2nd Floor, Ajjarakadu, Udupi-576101.
20	Srinivas Kulakarni	Deputy Director of Fisheries	08473-253753	Yadgiri	9448023765	Jilla Panchayath, A.P.M.C.Yard, Yadagiri.
21	Irfan Bhangi	Deputy Director of Fisheries		Bagalkote	9986132717	District Administrative Bhavan, Bagalakote
22	Sri Ganesha .R	Deputy Director of Fisheries	08192-226173	Davanagere	9880749105	No.286/2-A, Sri.guru Renuka Building, 2nd Floor, C.J.Hospital Road, P.J. Extension, Davanagere-577002
23	Santosh Koppad	Deputy Director of Fisheries	08375-235856	Haveri	9480225514	Opp. SC/ST Ladies Hostel, P.B.Road, Haveri
24	Chandushekar Kademane	Deputy Director of Fisheries	08539-231352	koppala	8970754167	Jilla Adalitha Bhavana , Jymkhana Building Koppal (Tq and Dist)-583231
25	Chikkanna	Deputy Director of Fisheries	080-22350078	Bangalore Urban	9972189781	Above matsya darshini, 1st Floor, K.R Circle, Cubbon Park, Bangalore-560001
26	Ms.K.T. Darshan	Deputy Director of Fisheries	08272-228773	Kodagu	9483110593	ITI Junction, Madikeri-571201, Kodagu District
27	Guruchannabasavanna	Deputy Director of Fisheries	08262-220266	Chikkamagaluru	9242138516	Agasarakatte, K.M.Road, Jtyothi Nagar Post, Chikkamagaluru-577102.
28	Mallesha B	Deputy Director of Fisheries	08482-233145	Bidar	7676939316	Junglekoi area,opposite BVB College Bidar-585401

SL. No.	Name	Designation	Landline	District	Mobile	Address
29	Sushmita Rao	Deputy Director of Fisheries	0824-2493928	Mangalore	9449025680	Jilla Panchayath Building, Ashoknagar Post, Urva Stores, Mangaluru-575006
30	Kavitha R K	Deputy Director of Fisheries	08382-221281	karwar	9972830713	Habbuwada, Karwar-581301