



बिहार सरकार

Government of Bihar

Animal & Fisheries Resources Department

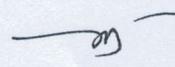
Directorate of Fisheries, Patna, Bihar

Expression of Interest

1. Directorate of Fisheries, Animal & Fisheries Resources Department, Govt. of Bihar seeks a proposal for selection of firms/agencies for "**Survey of water bodies/resources of Bihar and assessment of productivity from surveyed resources**" in Bihar with a vision to collect, process and access production and productivity of fish in the State by using **Catch Assessment Survey (CAS)** Software developed by CIFRI. DoF envisages to engage an agency/firm on outsourcing basis to provide competent manpower and subject matter experts.
2. The detailed terms and conditions for qualification of the firms/companies for the submission of their response, selection of the consultants, etc. are indicated in the document, which can be downloaded from department website - <https://state.bihar.gov.in/ahd>

Important dates

Ref No.	
Last Date for submission of queries/ Clarifications	11 th April, 2023
Pre-Proposal submission meeting regarding queries/clarifications and venue	12 th April, 2023 At Department's Meeting Hall on 2 nd Floor, New Secretariat, Bailey Road, Patna- 800 001.
Last Date and time for receipt of Proposal by Registered/Speed Post/Courier/Offline mode.	27 th April, 2023 till 4:00 PM
E-Mail ID	directorfisheries-bih@nic.in
Contact Details	Rashid Farooqui, Deputy Director Fisheries (Statistics and Marketing), Directorate of Fisheries, Vikas Bhawan, Bailey Road, Patna -1. Mob No. – 94731-91517
Any kind of amendment/corrigendum will be published at above web address.	


Director, Fisheries
Directorate of Fisheries
Animal & Fisheries Resource Department

Directorate of Fisheries
(Animal & Fisheries Resources Department, Govt. of Bihar)
New Secretariat, Bailey Road,
Patna- 800001, Ph # 0612-2535800/2535899

REQUEST FOR EXPRESSIONS OF INTEREST
“Survey of water bodies/resources of Bihar and assessment of productivity from surveyed resources”

Directorate of Fisheries, Animal & Fisheries Resources Department, Govt. of Bihar seeks a proposal for selection of firms/agencies for *“Survey of water bodies/resources of Bihar and assessment of productivity from surveyed resources”* in Bihar.

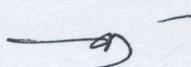
Directorate of Fisheries (DoF), Bihar, Patna, under the aegis of Animal & Fisheries Resources Department (AFRD), Govt. of Bihar has a vision to **collect, process and access** production and productivity of fish in the State by using Catch Assessment Survey (CAS) Software developed by CIFRI. DoF envisages to engage an agency/firm on outsourcing basis to provide competent manpower and subject matter experts.

DoF, AFRD, in pursuance to hire an Agency for *“Survey of water bodies/resources of Bihar and assessment of productivity from surveyed resources”*. The survey of water bodies is being conducted with a vision of having database of all types of water bodies like ponds, tanks, wetlands, ox-bow lakes, reservoirs, rivers etc. The Agency or the association of agencies will submit proposal in the closed envelope which will bear the name of the assignment for which EOI is being submitted.

The detailed terms and conditions for qualification of the firms/companies for the submission of their response, selection of the consultants, etc. are indicated in the document, which can be downloaded from department website- <https://state.bihar.gov.in/ahd>

Interested & competent agencies are requested to submit their proposal along with the supporting documents to “Director Fisheries, Bihar, Patna” till 27th April, 2023 till 4:00 PM by Registered/Speed Post/Courier/Offline mode.

The applications are to be addressed to the Office of Director Fisheries, Directorate of Fisheries, Vikas Bhawan, New Secretariat, Bailey Road, Patna-800001, Bihar. Applications should be submitted in the prescribed format in sealed envelope clearly labeled as *“Survey of water bodies/resources of Bihar and assessment of productivity from surveyed resources”*.


Director, Fisheries
Directorate of Fisheries
Animal & Fisheries Resource Department

Qualification criteria & Technical Evaluation

Pre-Qualification Criteria (proofs to be attached along with proposal)

Pre-qualification criteria		
Sr. No.	Requirement Description	Supporting evidence required
1	<p>The bidder should be a Legal Business entity. (agency/firm), it may propose a Consortium/Joint Venture with other firms to enhance their candidature. However, evaluation will be done only for the lead bidding firm.</p> <p>Organization registered under Company Act, Society Registration Act or any other act of the land.</p> <p>Post Registration experience - The organization should be in existence for at least 5 years.</p>	<p>Incorporation / Registration Certificates are to be submitted.</p>
2	<p>PAN, GSTN & Udyog Aadhar (Udyog Aadhar is non-mandatory)</p>	<p>Certificates of each item are to be annexed.</p>
3	<p>The bidder should not have been blacklisted by any government agency/ organization for corrupt or fraudulent practices or deficiencies of services as on date of submitting the EoI documents along with declaration/certificate.</p> <p><i>(EoI will be rejected if failed to submit the document.)</i></p>	<p>An affidavit from Notary Public is to be submitted in this regard.</p>
4	<p>Bidder should not have any non-tax litigation pending in any court in India as on date of submission of EoI.</p>	<p>A self-declaration signed by the authorized signatory is to be submitted.</p>
5	<p>Bidder should have an Average Annual Turnover of not less than Rs. 2.00 Crores in the last three consecutive financial years.</p>	<p>Certified copies of Audited financial statement of last three consecutive financial years i.e., 2019-20, 2020-21 and 2021-22 are to be attached.</p>
6	<p>Empanelment with State/UT Fisheries Department or NFDB (non-mandatory)</p>	<p>Proof of the same issued by respective competent authority.</p>

Note: EMD exemption from those bidders who are Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME), Govt. of India.

Objective:

- To create database of all types of water bodies like ponds, tanks, wetlands, ox-bow lakes, reservoirs, rivers, canals etc.
- To access State's fish production and productivity through Catch Assessment Software (CAS) technology developed by the Central Inland Fisheries Research Institute (CIFRI), Barrackpore, Kolkata (W.B.)
- To identify key areas that can help in formulation, monitoring, supervision and evaluation etc. of plans for the enhancement of fish production and productivity of these water bodies in future.
- To provide analysed data and facilitate DoF to take data based informed decisions towards formulation, monitoring, supervision and evaluation etc. of plans for the enhancement of fish production and productivity of these water bodies in future.

Implementation Plan:

- For the estimation of water resources, and collection of water resources and its fish production data/statistics of the State, data assessment and analysis is to be done through Catch Assessment Software (CAS) developed by the Central Inland Fisheries Research Institute (CIFRI).
- For conducting this survey, service of manpower/subject experts will be required for survey of water resources data, online entry of surveyed data, analysis etc. for data collection and assessment of State's fish production. For this, it is proposed to get the services of necessary manpower/subject experts on contract through service provider organization through outsourcing.
- The scheme is to be implemented in **two phases**:
 - *First Phase (2 months / 60 man-days)*
 - *Second Phase (2 years)*

1. ***First Phase*** – It includes physical survey of water sources located in all the villages (45076 villages) of the State, online entry of the data of surveyed water sources, etc. will be done at the district level, for which a total of 451 Surveyors, 38 (one in each district) project coordinators and 38 (one in each district) will be appointed on contract basis. Data Entry Operator will be necessary in the district. There is total 45076 villages in the state. Physical survey of all types of water bodies located in and around 100 villages will be done by each surveyor.

The assignment of the first phase is to be completed in two months / 60 man-days duration. Under this, all the villages of the State will be surveyed and the surveyed water sources will be broadly classified into three major groups:

- ***Group-1*** (water bodies up to 10 hectares of water, such as ponds, tanks, etc.),

- **Group-2** (water bodies of more than 10 hectares, such as tanks, lakes, reservoirs, check dams, etc.)
- **Group-3** (large water bodies like rivers, canals, reservoirs etc.)

In the course of survey, detailed description of water sources like type of water body, location, area, water area, status of fisheries activities in the water resources, fish species cultured, fish production/catch etc. data collection and online entry of surveyed water sources will be done in the database. This work will be executed by the Surveyor. The Project Coordinator at the district level will resolve any technical difficulties faced in the online entry of the survey and database collection, compilation, entry and will be fully responsible for the quality of the work done by the surveyors themselves. Project coordinator will be assisted by data entry operator for matching/checking of online entries etc. Respective District Fisheries Offices will be the Headquarter for the survey work.

- **Manpower requirement in First Phase** – A total of 451 Surveyors, 38 (one in each district) Project Coordinators and 38 (one in each district) will be appointed purely on contract basis. Data Entry Operator will be necessary in the district. There is total 45076 villages in the State. Physical survey of water bodies located in about 100 villages will be done by each surveyor.

A. District-Level manpower required for preliminary survey of water resources in 45,076 villages of the State (@ 1 Surveyor per 100 villages) who will be engaged for 60 man-days.

S. No.	Designation	No. of people required
1.	Surveyor	451
2.	District Coordinator	38
3.	Data Entry Operator	38
Total Manpower Required at district level		527

B. State-Level manpower required at Directorate Level in Patna in Technical Team

S. No.	Designation	No. of people required
1.	Software Engineer	1
2.	Data Entry Operator	2
3.	MIS Assistant	1
Total Manpower Required at State level		4

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C. State-Level manpower required at Directorate Level in Patna as Monitoring Team

S. No.	Designation	No. of people required
1.	Statistics Professional	1
2.	Fisheries Expert	1
3.	Assistant Survey Officer	6
4.	Data Entry Operator	2
5.	Multitasking Staff	1
Total Manpower Required at State level		11

**D. Equipments/Furniture etc. required for the Project
(to be provided by selected agency/ firm)**

S. No.	Designation	No. of units required
1.	Software Development	As per requirement
2.	Laptops	4
3.	Desktops	4
4.	Android Tablets	6
5.	Office Equipment(s)	As per requirement
6.	Furniture and Fixtures	As per requirement
7.	Stationery & another equipment(s)	As per requirement
8.	Training material (Manual, Brochure, Projector etc.)	As per requirement
9.	Expenses of Vehicle Hiring, TA/DA etc. (Including training sessions) (Maximum permissible limit or as per actual whichever is lower is permissible)	As per requirement
10.	Miscellaneous (as & if required)	As per requirement

- **Timeline of the First Phase** - The work proposed in First Phase is tentatively to be completed in duration of two months / 60 man-days.

2. Second Phase – In second phase, the work will be executed by two teams (on contract basis):

- Technical scrutiny of Database
- Monitoring Unit

Both the cell will work under the supervision of Nodal Officer namely Deputy Director Fisheries (Statistics & Marketing), DoF, Patna.

In the second phase, the whole State will be divided into three homogenous strata based on the basis of climate, rainfall, soil quality, water body density and based on preliminary survey data of first phase. Thereafter, two districts from each strata, i.e., a total of six districts will be selected.

After this, in the first phase of these six selected districts, on the basis of five villages per cluster (minimum one pond is mandatory in each village) of the water bodies of Group-1 (water bodies up to 10 hectares of water area, such as ponds, tanks, etc.) Clusters will be formed. After that, out of the total clusters formed, only nine clusters will be selected and the fish production etc. data will be estimated from the surveyed data of water bodies of these selected clusters.

In this way, a minimum total of 270 ponds (3 strata*2 district*9 cluster*5 ponds) will be selected for assessment/determination of fish production, productivity etc. data in the state.

In the first phase of these six selected districts, 25 to 30 percent of the total water sources of the surveyed group-2 (water sources of more than 10 hectares of water area such as ponds/tanks, lakes, reservoirs, check dams, etc.) The selection will be made for assessment of data related to productivity etc.

Therefore, on the basis of the surveyed data/database of the water sources of all the three selected groups, the data related to fish production/catch, productivity etc. will be assessed by the personnel of the cells formed at the Directorate level through CAS Software.

After assessing the database/data related to fish production/catch of the three groups of the six districts mentioned above, the Central Inland Fisheries Research Institute's CAS Software etc. can be determined.

All the three groups of these six selected districts are Group-1 (water bodies like ponds, tanks, etc. up to 10 hectares), Group-2 (water bodies more than 10 hectares like ponds/tanks, lakes, reservoirs, check dams, etc.) and Data related to fish production/catch, productivity etc. of water bodies of Group-3 (large water bodies like rivers, canals etc.) Every year, the Central Inland Fisheries Research Institute will be surveyed and updated in the light of the guidelines mentioned in the CAS Software. For this data collection and online entry of database of surveyed water sources and collection of fish production/catch data etc. of all the three groups Group-1, Group-2 and Group-3 water bodies of the six districts selected by the assistant surveyor officer of the monitoring cell constituted at the Directorate level.

With the use of CIFRI CAS Software, fish production of the State is to be accessed based on the preliminary survey of water bodies of the entire State executed in the first phase.

- **Manpower requirement (on contract basis) in Second Phase –**

- For technical scrutiny of Database –

S. No.	Designation	No. of people required
1.	Software Engineer	1
2.	Data Entry Operator	2
3.	MIS Assistant	1
Total Manpower Required		4

- Monitoring Unit –

S. No.	Designation	No. of people required
1.	Statistics Professional	1
2.	Fisheries Expert	1
3.	Assistant Survey Officer	6
4.	Data Entry Operator	2
5.	Multitasking Staff (will execute works entrusted by both the teams/cell)	1
Total Manpower Required		11

- **Timeline of Second Phase** - The work proposed in Second Phase is ongoing and tentatively will be continued for a duration of two years.

Expected Outcomes:

- Survey of all water and fisheries resources of the State – ponds, tanks, wetlands, lakes, reservoirs, rivers etc.
- Production and productivity of fish from different water resources.
- The assignment will be completed in two phases as mentioned above in the stipulated timeline.
- Post successful completion of the assignment in first phase, the extension and renewal of the services of resources/manpower as mentioned above, would entirely depend on the performance of the agency and their timely deliverable of the assignments.
- A committee will be formed by Directorate of Fisheries to review the progress and appraise the overall performance.

Qualification and engagement tenure of the required manpower in First & Second Phase

S. No.	Designation	Qualification and Experience	Nos	Months/Mandays	Location of Deployment
1.	Surveyor	10 + 2 pass / Intermediate pass	451	2/60 mandays	District Level
2.	District Co-ordinator	Graduate preferably BCA/ B.Tech/ MCA/ B.Sc IT with very good computer skill	38	2/60 mandays	District Level
3.	Data Entry Operator	10+2 pass with completion of atleast 1 year computer course with knowledge of Hindi/English typing	38	2/60 mandays	District Level
4.	Software Engineer	Full Time B. Tech/ B.E./MCA from a reputed institute Total Experience: At least 3 years in IT domain should have more than 2 Years of experience of handling such large projects as a project manager Languages known (Read, Write and Speak): Hindi, English Excellent writing, communication, time management and multi-tasking skills.	1	24 or as determined by DoF	Patna
5.	Data Entry Operator	10+2 pass with completion of atleast 1 year computer course with knowledge of Hindi / English typing	2	24 or as determined by DoF	Patna
6.	MIS Assistant	Graduate preferably BCA/ B.Tech/ MCA/ B.Sc IT with very good computer skill	1	24 or as determined by DoF	Patna
7.	Statistics Professional	Masters in Fisheries Statistics or Bachelor's	1	24 or as determined by DoF	Patna with extensive

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S. No.	Designation	Qualification and Experience	Nos	Months/Mandays	Location of Deployment
		degree in Mathematics, Statistics or related field, Strong math and analytical skills are essential to complete job requirements successfully, Able to compile and organize statistical information retrieved and present findings to management, Confident in decision making and the ability to explain processes or choices as and when needed, Strong computer skills and ability to use necessary databases and software/assessment software.			travelling across the operational districts of the State
8.	Fisheries Experts	BFSc / MFSc with one year of experience.	1	24 or as determined by DoF	Patna with extensive travelling across the operational districts of the State
9.	Data Entry Operator	10+2 pass with completion of atleast 1 year computer course with knowledge of Hindi/English typing	2	24 or as determined by DoF	Patna
10.	Assistant Survey Officer	Graduate in any discipline with Mathematics or Statistics as a subject in Graduation	6	24 or as determined by DoF	Patna with extensive travelling across the operational districts of the State
11.	Multitasking Staff	Must have passed matriculation or equivalent examination	1	24 or as determined by DoF	Patna

Format for short listing of firms/agencies

S. No.	Criteria	Supporting Document	Maximum Marks	Criteria for Marks Allotment
1.	At least 05 years of experience of conducting surveys for Government / Semi-Government Organisations / Agencies / Private Organisations.	Work order/s with completion certificate	20	More than 05 years = 20 marks 3 - 5 years = 10 marks 1 - 3 years = 05 marks
2.	Should have a minimum average annual turnover of Rs 2.00 crores in the last 3 consecutive financial years from consulting or advisory during last three years.	Certified turnover certificate and audited copy of the financial statements towards the same must be submitted.	20	More than 02 Crores – 20 marks Upto 02 Crores – 10 marks
3.	Should have experience of verification and inspection in Bihar	Work order/s with completion certificate	15	2 Projects – 15 Marks 1 Project – 10 Marks
4.	Should have experience of having assignments in agriculture and allied sectors in Government / Semi-Government Organisations / Private Organisations.		10	2 Projects – 10 Marks 1 Project – 05 Marks
5.	Startup recognized by State/Union Government working in the field of agriculture, animal husbandry and fisheries will be given preference	Recognition certificate or any other supporting document	05	05 Marks
6.	Preference will be given to the Agencies empaneled by NFDB/State/Union Governments	Supporting Document	05	05 Marks
7.	Experience of implementing IT/Software Project in Government / Semi-Government Organisations / Private Organisations	Work order/s with completion certificate	10	2 Projects – 10 Marks 1 Project – 05 Marks
8.	Approach & Methodology	Attach the same in maximum 5 pages	15	15 Marks

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Note:

Short Listing - Short listing will be made on above information and criteria only. All supporting documents are to be annexed with the proposal.

Association of Agencies - The Association of Agencies who have a joint venture or a sub consultancy agreement to complement their respective area of expertise, strengthen the technical responsiveness of their proposal and make available pool of experts.

