

## REQUEST FOR EXPRESSION OF INTEREST

(Consultancy Services-Firm selection)

**Consultancy services for "Management support to Mathematical Modelling Centre (MMC) under Water Resources Department, Government of Bihar"**

**INDIA**

**Bihar Water Security and Irrigation Modernization Project (BWSIMP)**

**Loan No.: P505190**

**Assignment Title:** Consultancy services for "Management support to Mathematical Modelling Centre (MMC) under Water Resources Department, Government of Bihar"

**Reference No: BIHAR/WRD/FMISC/MMC/MS/BWSIMP/EOI/02/2025    Dated:07/03/2025**

1. The Government of Bihar has applied for financing from the World Bank toward the cost of the Bihar Water Security and Irrigation Modernization Project (BWSIMP), and intends to apply part of the proceeds for consulting services.
2. The Mathematical Modelling Centre (MMC), established under the Water Resources Department (WRD) in Patna focuses on Flood forecasting and modelling activities across various river basins of Bihar. The objective of proposed consulting service is to review best practices of mathematical modelling related to water resources, update and improve existing models, develop drought forecasting model, flood and groundwater modelling, training and capacity building of MMC, support WRD in project planning implementation and river basin management. The duration of proposed consulting services would be time-based for 24 months duration. The duration of consultancy work can be extended as per the work interest and requirement of the client.
3. The Draft Terms of Reference (TOR) for the primary procurement stage for the assignment are attached to this request for expressions of interest. Please be advised that the final TOR will be provided to the shortlisted firms as part of Request for proposal (RFP).
4. The Director, Mathematical Modelling Centre, Patna (Water Resources Department), Govt. of Bihar now invites eligible consulting firms ("Consultants") to indicate their interest in providing the consultancy services for "Management support to Mathematical Modelling Centre (MMC) under Water Resources Department, Government of Bihar".
5. Interested Consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the Services.
6. Instructions To Consultants:
  - 6.1. The Expression of Interest is to be submitted in the manner prescribed below: -
    - a) Applicant's Expression of Interest as per Format-1.
    - b) Organizational Contact Details as per Format-2.
    - c) Experience of the organization as per Format-3.
    - d) Undertaking for permanent employees on payroll as per Format-4.
    - e) financial strength of the company as per Format-5.
    - f) Declaration as per Format-6 (Affidavit).
    - g) Power of Attorney in favor of authorized signatory with long and short signatures of authorized person.



7. The shortlisting criteria are:

Sl. No.	Mandatory Criteria	Supporting Compliance document
1	The firm must be a registered legal entity and should have been in existence for at least 15 years. The firm should have its registered office in India or furnish undertaking to establish an office in India before the contract is awarded. In case of Joint Venture (JV), any one member in the JV shall fulfil this criterion.	Copy of Certificate of registration issued by relevant authority in country of establishment.
2	The firm shall have a valid Permanent Account Number (PAN)/GST Registration certificate/ equivalent certificates. In case of Joint Venture (JV), all members in the JV shall fulfil this criteria.	Copy of Certificate to be enclosed.
3	The firm shall have a minimum of five (05) years of experience in Mathematical Modelling consultancy services as out of which at least two (02) years of experience is required in the field of water resources/irrigation projects on the due date of submission of EOI. In case of Joint Venture (JV), any one member of the JV shall fulfil this criteria.	Copy of Work Order/ Contract and its completion certificate from the client or payment certificate issued by client or payment certified by the statutory auditor of the firm/company with UDIN.
4	The firm shall have Average Annual Turnover of at least INR 20 crore (US\$ 2.308 million) or equivalent from consultancy services during the previous three years i.e. 2021-22, 2022-23 & 2023-24 calculated as average of total certified payments. In case of Joint Venture (JV), the lead partner should have a minimum turnover of 50%, while the turnover of the other member(s) should be a minimum of 25% of the required turnover.	The turnover shall be certified by Statutory Auditor of the firm/company. Any such certificate must carry UDIN (Unique document Identification number). <b>(Format-5)</b>
5	The firm must have more than thirty (30) full time employees on their payroll as on the due date of submission of EOI. In case of Joint Venture (JV), any one member of the JV shall fulfil this criteria.	The firm must have a certificate certified by the statutory auditor of the firm/company about the availability of experts as defined in the Format-4. Any such certificate must contain a UDIN (Unique Document Identification Number). <b>(Format-4)</b>

Sl. No.	Evaluation Criteria	Supporting Compliance document
1	The firm shall have a minimum of five (05) years of experience in Mathematical modelling consultancy services as on the due date of submission of EOI, out of which at least two (2) years of experience is required in the field of water resources/irrigation projects. In case of Joint Venture (JV), any one member of the JV shall fulfil this criteria.	Copy of Work Order/ Contract and its completion certificate from the client or payment certificate issued by client or payment certified by the

	<table><tr><td>Years of experience in Mathematical Modelling consultancy services for water resources / irrigation projects.</td><td>20 Marks</td></tr><tr><td>Less than 2 years</td><td>Disqualified</td></tr><tr><td>2 years</td><td>15</td></tr><tr><td colspan="2">Additional 5 marks will be allocated proportionately to the firms having experience greater than 2 years.</td></tr></table>	Years of experience in Mathematical Modelling consultancy services for water resources / irrigation projects.	20 Marks	Less than 2 years	Disqualified	2 years	15	Additional 5 marks will be allocated proportionately to the firms having experience greater than 2 years.		statutory auditor of the firm/company with UDIN (Format-3)
Years of experience in Mathematical Modelling consultancy services for water resources / irrigation projects.	20 Marks									
Less than 2 years	Disqualified									
2 years	15									
Additional 5 marks will be allocated proportionately to the firms having experience greater than 2 years.										
2	<p>The firm shall have successfully completed at least one (1) Mathematical modelling consultancy services in an externally aided project as on due date of submission of EOI. In case of Joint Venture (JV), any one member of the JV shall fulfil this criteria.</p> <table><tr><td>Number of completed Mathematical modelling consultancy services in an externally aided project.</td><td>20 Marks</td></tr><tr><td>Less than 1 project</td><td>0</td></tr><tr><td>1 project</td><td>15</td></tr></table> <p>Additional 5 marks will be allocated proportionately to the firms having successfully completed more than 1 project management consultancy services in externally aided project.</p>	Number of completed Mathematical modelling consultancy services in an externally aided project.	20 Marks	Less than 1 project	0	1 project	15	Copy of Work Order/ Contract and its completion certificate from the client or payment certificate issued by the statutory auditor of the firm/company with UDIN. (Format-3)		
Number of completed Mathematical modelling consultancy services in an externally aided project.	20 Marks									
Less than 1 project	0									
1 project	15									
3	<p>The firm shall have successfully completed mathematical modeling consultancy services for at least one (1) project related to surface water/ groundwater/ drought costing not less than Indian National Rupees (INR) 20 crores (US\$ 2.32 million) or equivalent as on due date of submission of EOI. In the case of a Joint Venture (JV), any one member of the JV shall fulfill this criteria.</p> <table><tr><td>The firm shall have completed mathematical modeling consultancy services for at least one (1) engineering project related to surface water/groundwater/drought costing not less than Indian National Rupees (INR) 20 crores (US\$ 2.32 million) or equivalent.</td><td>15 Marks</td></tr><tr><td>Less than 1 project</td><td>0</td></tr><tr><td>1 project</td><td>12</td></tr></table> <p>An additional 3 marks will be allocated proportionately to firms that have completed more than one project in mathematical modeling consultancy services for projects related to surface water/groundwater/drought with each project costing not less than Indian National Rupees (INR) 20 crores (US\$ 2.32 million) or equivalent.</p>	The firm shall have completed mathematical modeling consultancy services for at least one (1) engineering project related to surface water/groundwater/drought costing not less than Indian National Rupees (INR) 20 crores (US\$ 2.32 million) or equivalent.	15 Marks	Less than 1 project	0	1 project	12	Copy of Work Order/ Contract and its completion certificate from the client or payment certificate issued by the statutory auditor of the firm/company with UDIN. (Format-3)		
The firm shall have completed mathematical modeling consultancy services for at least one (1) engineering project related to surface water/groundwater/drought costing not less than Indian National Rupees (INR) 20 crores (US\$ 2.32 million) or equivalent.	15 Marks									
Less than 1 project	0									
1 project	12									
4	<p>The firm shall have completed at least one project for the design, development and implementation of Decision Support System as on due date of submission of EOI. In case of Joint Venture (JV), any one member of the JV shall fulfil this criteria.</p>	Copy of Work Order/ Contract and its completion certificate from the client or payment certificate issued by the statutory auditor of the firm/company with UDIN. (Format-3)								

	<table><tr><td>Number of completed project for design, development and implementation of Decision Support System.</td><td>10 Marks</td></tr><tr><td>Less than 1 project</td><td>0</td></tr><tr><td>1 project</td><td>7</td></tr></table> <p>Additional 3 marks will be allocated proportionately to the firms having completed more than 1 project for design, development and implementation of Decision Support System.</p>	Number of completed project for design, development and implementation of Decision Support System.	10 Marks	Less than 1 project	0	1 project	7	of the firm/ company with UDIN. (Format-3)
Number of completed project for design, development and implementation of Decision Support System.	10 Marks							
Less than 1 project	0							
1 project	7							
5	<p>The firm shall have completed at least one project in flood modelling as on due date of submission of EOI. In case of Joint Venture (JV), any one member of the JV shall fulfil this criteria.</p> <table><tr><td>Number of completed project for flood modelling.</td><td>15 Marks</td></tr><tr><td>Less than 1 project</td><td>0</td></tr><tr><td>1 project</td><td>12</td></tr></table> <p>Additional 3 marks will be allocated proportionately to the firms having completed more than 1 project in Flood modelling project.</p>	Number of completed project for flood modelling.	15 Marks	Less than 1 project	0	1 project	12	Copy of Work Order/ Contract and its completion certificate from the client or payment certificate issued by the statutory auditor of the firm/ company with UDIN. (Format-3)
Number of completed project for flood modelling.	15 Marks							
Less than 1 project	0							
1 project	12							
6	<p>The firm shall have completed at least one project in River Morphological modelling as on due date of submission of EOI. In case of Joint Venture (JV), any one member of the JV shall fulfil this criteria.</p> <table><tr><td>Number of completed project River Morphological modelling.</td><td>15 Marks</td></tr><tr><td>Less than 1 project</td><td>0</td></tr><tr><td>1 project</td><td>12</td></tr></table> <p>Additional 3 marks will be allocated proportionately to the firms having completed more than 1 project in River Morphological modelling.</p>	Number of completed project River Morphological modelling.	15 Marks	Less than 1 project	0	1 project	12	Copy of Work Order/ Contract and its completion certificate from the client or payment certificate issued by the statutory auditor of the firm/ company with UDIN. (Format-3)
Number of completed project River Morphological modelling.	15 Marks							
Less than 1 project	0							
1 project	12							
7	<p>The firm shall have completed at least one project in Drought modelling as on due date of submission of EOI. In case of Joint Venture (JV), any one member of the JV shall fulfil this criteria.</p> <table><tr><td>Number of completed project in Drought modelling.</td><td>15 Marks</td></tr><tr><td>Less than 1 project</td><td>0</td></tr><tr><td>1 project</td><td>12</td></tr></table> <p>Additional 3 marks will be allocated proportionately to the firms having completed more than 1 project in Drought modelling.</p>	Number of completed project in Drought modelling.	15 Marks	Less than 1 project	0	1 project	12	Copy of Work Order/ Contract and its completion certificate from the client or payment certificate issued by the statutory auditor of the firm/ company with UDIN. (Format-3)
Number of completed project in Drought modelling.	15 Marks							
Less than 1 project	0							
1 project	12							

Note: (i) A Consultant shall not submit more than one Proposal, either individually or as a joint venture partner in another Proposal. If a Consultant, including a joint venture

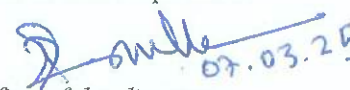
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partner, submits or participates in more than one Proposal, all such Proposals shall be disqualified.

- (ii) In case of getting equal marks after evaluation, the firm with more experience of Mathematical Modelling Consultancy Services in field of Water Resources/ Irrigation will be given preference.
8. The firm must have Key Experts on its payroll. In case of a Joint Venture, all partners must meet this condition.
  9. Key Experts will not be evaluated at the shortlisting stage.
  10. The attention of interested Consultants is drawn to Section III, paragraphs, 3.14, 3.16, and 3.17 of the World Bank's "Procurement Regulations for IPF Borrowers" Fifth Edition-September 2023 setting forth the World Bank's policy on conflict of interest.
  11. A consultant will be selected in accordance with the QCBS (Quality and Cost Based Selection) procedures set out in the World Bank's "Procurement Regulations for IPF Borrowers" Fifth Edition-September 2023. The Procurement regulations are available at <https://thedocs.worldbank.org/en/doc/6c0602876d68949e80820507d90a14ed-Procurement-Regulations-September-2023.pdf>
  12. Consultants may associate with other firms to enhance their qualifications, in the form of a joint venture. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected.
  13. A Consultant will be selected in accordance with the Framework Agreement arrangements described in the Procurement Regulations and to be specifically set out in the Request for Proposals.
  14. A pre bid meeting is Scheduled on 18 March 2025, 15:00 Hrs in the Office of Director, Mathematical Modelling Centre, 2nd Floor, Block-A, Jal Sansadhan, Bhawan, Anisabad, Patna-800002. The meeting will be conducted in Hybrid mode. To attend the meeting online, interested participants should request for the meeting link through email id: [mmcwrd@gmail.com](mailto:mmcwrd@gmail.com) on or before 18 March 2025, 12:00 Hrs IST.
  15. Further information can be obtained at the address below from 0930 hours to 1700 hours (IST) during office hours. This notice for Expression of interest has also been posted on website <http://wrd.bihar.gov.in/>, <http://www.fmiscwrdbihar.gov.in/fmis/> and <http://eprocure.gov.in/eprocure/app>.
  16. Expression of interest with all relevant information and documents must be uploaded on <http://eprocure.gov.in/erprocure/app> for "Management support to Mathematical Modelling Centre (MMC) under Water Resources Department, Government of Bihar" by not later than 28 of March 2025 time 15:00 Hrs server time. In the event, this last date being declared as holiday by the State Government, due date for submission of above EOI will be the next working day up till the same appointed time. The Expression of Interests received till the appointed time and date shall be opened same day at 15:30 Hrs Server time. The electronic bidding system will not allow any late submission of the REOIs after due date and time as per server time. Physical, Email, Telex, cable or facsimile submission of REOIs will be rejected as non-responsive.

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Office of the director,  
Mathematical Modelling Centre,  
2nd Floor, Block-A,  
Jal Sansadhan, Bhawan,  
Anisabad, Patna-800002  
E-mail: [mmcwrd@gmail.com](mailto:mmcwrd@gmail.com)



**FORMAT – 1**  
**APPLICANT'S EXPRESSION OF INTEREST**

(To be submitted as part of EOI)

To,

Director,

Mathematical modelling Centre,

Jal Sansadhan Bhawan, Block-A, 2<sup>nd</sup> Floor

Anisabad, Patna, Bihar – 800002

Sub: Submission of Expression of Interest to provide the Consultancy services for “Management support to Mathematical Modelling Centre (MMC) under Water Resources Department, Government of Bihar”.

Dear

In response to the Invitation for Expressions of Interest (EOI) published on <https://eprocure.gov.in/eprocure/app> for the above purpose, we would like to express interest to carry out the above proposed task. As instructed, we have uploaded Expression of Interest on portal in prescribed format containing following documents:

1. Organizational Details (Format-2)
2. Experience in related fields (Format-3)
3. Undertaking for permanent employees on payroll (Format-4)
4. Financial strength of the organization (Format-5)
5. Declaration (Format-6)- Affidavit
6. Power of Attorney in favor of authorized signatory with long and short signatures of authorized person.

Sincerely Yours,

..... (Signature with date)

.....(Name and designation)

Duly authorised to sign EOI for and on behalf of

.....Name, address, and seal of the Consultant]

**Note: This is to be furnished on the letter head of the organization.**



## FORMAT – 2

(To be submitted as part of EOI)

Sl. No	Organizational Contact Details
1.	Name of Organization
2.	Main areas of business
3.	Firm must be a registered legal entity and should have been in existence for at least 15 years.
4.	The firm shall have a valid Permanent Account Number (PAN)/GST Registration certificate/ equivalent certificates
5.	Address of registered office in India with telephone no. & fax OR Undertaking to establish an office in India before the contract is awarded.
6.	Address of offices in a) Bihar ii) All other State/UT's
7.	Power of Attorney in favor of Authorized Signatory with long and short signatures of Authorized person
8.	Contact Person with telephone no. & e-mail ID

### Enclose: -

1. Copy of Certificate of Incorporation issued by relevant authority in country of establishment.
2. Copy of Certificate in respect of Sl. No. 3 and 4 above.
3. Copy of Certificate of place of establishment certificate or undertaking to establish an office in India before the contract is awarded in respect of Sl. No. 5 above.
4. Copy of Power of Attorney in favor of Authorized Signatory with long and short signatures of Authorized person in respect of Sl. No. 7 above.

..... (Signature with date)

..... (Name and designation)

Duly authorised to sign EOI for and on behalf of

.....Name, address, and seal of the Consultant]


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**FORMAT – 3**  
(To be submitted as part of EOI)

		Experience in Related Fields				
		Overview of the past experience of the Organization in all aspects as per shortlisting criteria.				
S. No	Items	Project Name and duration. (with Project start and end date)	Nature of project. (Description of work relevance to this consultancy)	Order Value of each assignment in Lakhs of Rs. (Enclose copy of each order)	Client/ Organization details (Enclosed completion certificates)	Remarks (If any)
1	Experience in Mathematical modelling consultancy services as on due date of submission of EOI.					
2	Experience in Mathematical modelling consultancy services in the field of water resources/irrigation as on due date of submission of EOI.					
3	Experience in Mathematical modelling consultancy services in externally aided project as on due date of submission of EOI.					
4	Experience in Mathematical modeling consultancy services in projects related to surface water/groundwater/drought with each project costing not less than Indian National Rupees (INR) 20 crores (US\$ 2.32 million) or equivalent as on due date of submission of EOI.					
5	Experience in design, development and implementation of Decision Support System as on due date of submission of EOI.					
7	Experience in project for flood modelling as on due date of submission of EOI.					



8	Experience in project for River Morphological Modelling as on due date of submission of EOI.					
9	Experience in project for drought modelling as on due date of submission of EOI.					
<p>Decision of Evaluating Committee in ascertaining “similar nature” and “similar assignment” shall be final and bound to the bidders.</p> <p style="text-align: right;"> ..... (Signature with date)  .....(Name and designation)  Duly authorised to sign EOI for and on behalf of  .....Name, address, and seal of the Consultant] </p>						

B/ 

**FORMAT – 4 (Certificate)**

(To be submitted as part of EOI)

**TO WHOM IT MAY CONCERN**

I/we have verified the Provident Fund (PF) & Employees' State Insurance Corporation (ESIC) return of.....(**name of the Consultant Firm**), having PAN No.....and having registered office at .....(**Address of Consultant Firm**) do hereby confirm that the .....(No. of employee) are on payroll as on date of EOI submission.

..... (*Signature with date*)

.....(*Name*)

*Statutory Auditor of the firm/company*

.....*Unique Document Identification Number*]

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**FORMAT – 5**

**Average Annual Turnover**

(To be submitted as part of EOI)

**TO WHOM IT MAY CONCERN**

I/We have verified the the Books of accounts of .....(name of the Consultant Firm) having PAN No..... and having Registered office at .....(Address of Consultant Firm), as produced to us for our verification.

Based on such verification we report the following financial details of the company as given below -

*Note: Each Consultant or member of a Joint Venture/Consortium making up a consultant must fill in these forms.*

Annual Turnover Data (Rs Crores) for the Last Three (3) Years	
Year	Total Turnover Amount
2021-22	
2022-23	
2023-24	
Average Annual Turnover	

..... (Signature with date)

.....(Name)

**Statutory Auditor of the firm/company**

.....[Unique Document Identification Number]

**Note: Audited Balance Sheet for last 3 (Three) financial years are to be enclosed. The turnover shall be certified by Statutory Auditor of the firm/company. Any such certificate must carry UDIN (Unique document Identification number).**

**FORMAT -6 (Affidavit)**

(To be submitted as part of EOI)

**Declaration**

I/we hereby confirm our interest in undertaking the task defined under Consultancy services for “Management support to Mathematical Modelling Centre (MMC) under Water Resources Department, Government of Bihar”. We also express our willingness to participate in the subsequent Request for Proposal (RFP) stage for the same.

We hereby confirm that all information provided here is genuine and correct.

..... (Signature with date)

.....(Name and designation)

Duly authorised to sign EOI for and on behalf of

.....Name, address, and seal of the Consultant]

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