



GOVT. OF WEST BENGAL
OFFICE OF THE SUPERINTENDING ENGINEER
NORTH IRRIGATION CIRCLE-I
IRRIGATION AND WATERWAYS DIRECTORATE
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Memo No-3T-8/ 1506

Date-07/10/2021

Reference No: WBIW/SE/NIC-I/EOI-01/2021-22,

Date: 07.10.2021

REQUEST FOR EXPRESSION OF INTEREST (EOI)

Assignment Title: Engagement of a Consultant for preparation of a Detailed Project Report (DPR) for the remedial measures on “Ganga – Padma” erosion abatement in the districts of Malda, Murshidabad and Nadia in the State of West Bengal, India

Section 1. Brief about objectives and scope of work

1. Preamble:

Erosion along the bank of the Ganga – Padma River in the districts of Malda, Murshidabad and Nadia has been a pressing concern for the State of West Bengal. A team of delegation from the State Government has recently visited the Hon’ble Minister-in-Charge of Ministry of Jal Shakti, GOI and Niti Aayog in August, 2021, wherein the concern of Ganga – Padma erosion was discussed at length. Afterwards it was decided at the highest level of the Department to prepare a DPR on Ganga – Padma erosion abatement in the districts of Malda, Murshidabad and Nadia by engaging a Suitable Consultancy Firm to enable its submission to GFCC (Ganga Flood Control Commission) after clearance from State TAC.

2. Objectives:

Objectives of the present assignment are:

- (a) To undertake site visits, soil investigation & Survey (bathymetry by ADCP, DGPS & RTK), Total Station (TS) as found to be necessary.
- (b) To study the erosion problem in totality & identification of the causes of erosion & flood in the project area by analyzing various data available from various Central/State Government Departments / Organization viz. IMD, CWC, GFCC, CW & PRS, NWA of Pune, Government of

Bihar, Government of Jharkhand & Government of West Bengal. Remote sensing and GIS technique & mathematical Model study considering Farakka Barrage Gate operation schedule should be the main component for assessing the soil erosion & cause thereof. Minimum 25 years data to be analyzed to study the erosion problem of Ganga - Padma in its entirety.

- (c) Assessment of present structural conditions of the various existing damaged infrastructures, including embankment (both maintained by the I & W Department as well as Panchayat), bank protection works, inspection roads etc. through field verification & Survey, in consultation with the field level official of I & W Department.
- (d) Identification of critically vulnerable components of the existing erosion & flood control infrastructures and suggesting rehabilitation/ improvement measures by design and analysis.
- (e) Identification/Suggesting new structural interventions in the form of construction of new embankment lines, construction of new sluices/other hydraulic structure, new river training or bank protection works etc as well as various non-structural measures required for minimizing the impact of erosion and flood. The proposed remedial measures may be in the form of short term and long term protection works. While doing so, prevailing ground realities and difficulties associated with acquisition of land in large scale needs to be duly considered. Suggested new interventions should be implementable on the ground for all practical purposes with due importance of the environmental aspect.
- (f) Preparation of a “ Detail Project Report (DPR) for the proposed remedial measures on Ganga – Padma erosion abatement in the districts of Malda, Murshidabad and Nadia” for submission to GFCC after its clearance by the State Technical Advisory Committee (TAC) and preparation of subsequent reply to the observations of GFCC till finalization of acceptance, if required. The DPR should be prepared as per the norms and requirements of the GFCC.
- (g) Preparation of Rough cost estimate of the proposed measures for investment purposes.
- (h) Justification of the investment with regard to benefits likely to be derived in the post project implementation period by way of minimization of bank erosion and flood losses.

3. Scope of Services, Components & Deliverables and Timelines:

3.1 The assignment consists of the following tasks:

- Collection of chronological satellite maps/ rainfall and other hydrological/hydraulic/ erosion/flood related data, including gauge/ discharge from Central State Government(s) Departments/ Organizations like IMD, CWC, I&WD & Disaster management & Civil Defence Department under GoWB, (Department of Science & Technology) GoWB/ Farakka Barage Authority /GFCC/ CW & PRS/ NWA at Pune & relevant Departments under Government of Bihar, Jharkhand etc.

I&WD shall provide the data relating to the Government of West Bengal, so far available, while the Consultant will have to arrange for data from other sources. I&WD will issue letter(s) of introduction to the Consultant in processing such data, if asked for.

- Repaid assessment of the extent of damages chronologically occurred to the existing flood management infrastructure (such as spur, bed bars & embankment) to have a primary overview on the requirement of measures for reconstruction/ improvement of the

damaged infrastructure and also for new interventions, remedial measure for erosion control / Flood control management /River training works (using remote sensing and GIS technique and mathematical model study) followed by detailed assessment and subsequent field surveys/ soil investigations including cross sections surveys (bathymetry) at critical stretches of embankment, rivers and channels w.r.t. reference GTS Bench Mark and Investigation on conditions of existing hydraulic structures, requirement of new structural and non-structural interventions etc.. It may be clarified here that detailed contour survey of the entire project area is not envisaged.

- Bringing out a Preliminary Project Report in the form of a Concept Note highlighting.
 - Brief description of the problem and narrative of the challenges: Special attention to be given on the most vulnerable reaches in consultation with the officials of the I&W Department.
 - Suggested approach/ methodology towards preparation of the DPR; inconformity with the GFCC guide lines.
 - Compilation of preliminary data collected from various sources.
 - Broad description of remedial measures (short term & long term basis) suggested for reconstruction/ improvement of the existing infrastructures and new interventions/remedial measures for erosion control/flood control management/river training works, if required.
 - Rough assessment of cost for the above said measures, to be prepared on the basis of past references of similar works, executed by the client elsewhere, after due consultation with the field level officials of the I&W Department.
 - Broad description of the project benefits.

The Preliminary Project Report (PPR) will be required, primarily to have rough idea of the total financial involvement for seeking in-principle of the State Government to go-ahead with the execution of the project or for submission to GFCC.

- Holding workshops with local peoples' representatives and District Authorities to discuss the broad outlines of the PPR and to incorporate their suggestions, to the extent feasible, if required.
- Detailed design to be done in accordance with relevant BIS publications/CWC or GFCC Guidelines/ Standard and sound engineering practices adopted by the I & W Department as per prescribed guidelines, by analytical methods and also mathematical modelling, if required.
- Preparation of a Detailed Project Report as per guideline of GFCC containing relevant chapters/ topics included but may not be limited to the following.
 - Genesis of the problems;
 - Compilation and interpretation of various hydro-meteorological data, remote sensing and GIS data not less than 25 yrs.
 - A brief account of damages and shifting of bank line chronologically.
 - Comprehensive details of the preferred set of options including detailed justification; may be through mathematical model studies or adopting latest technology.

- Typical detailed designs (including structural design, wherever necessary) of various components;
- Cost estimates, economic and financial analysis, identification of benefits, comparison of benefits with cost to justify the investment;
- Highlighting hazards and risks and identifying measures for mitigating environmental and social issues, including acquisition/ procurement of land and large scale resettlement, and incorporation of cost of such measures in the overall cost estimates;
- Suggesting for specific quality control measures for proper implementation of the project.

3.2 The Consultant will use available data and studies/ records, and will work in close consultation with the I&W Department and other associated institutions/ organizations. Necessary field survey and investigation, required for suggesting various measures will have to be done by the Consultant, which will include detailed assessment of requirement of additional land to be shown mouza-wise, for which details of land records are to be procured by the Consultant. However, the practical difficulties associated with large scale acquisition of land needs to be kept in view. The Consultant is encouraged to explore other options, e.g. direct purchase of land by the I & W Department through Panchayati Raj Institutions to the extent feasible, in accordance with prevailing policy of the State Government.

4. The Consultant will conduct regular meetings with I & W Department .

- (a) Seek various inputs, collection of reference GTS BM points.
- (b) Discuss the progress of the work and preliminary outputs.
- (c) Hold workshop meetings in association with the client.
- (d) Give the opportunity to the client to make comments and suggestions.
- (e) Resolve problems and issues that may be encountered.

5. Deliverables and timelines are shown below:

Deliverable	Timeline
Draft Preliminary Project Report	1 (One) month from Contract signing.
Final Preliminary Project Report	15 days after receipt of comments, to be communicated by the Client within 15 days from receipt of the Draft Report.
Workshops Report containing a) Power Point presentation summarizing the findings. b) Comprehensive details of identified measures (short term & long term). c) Minutes of meetings with peoples' representatives/ District Authorities. d) Detailed justification of selection of other preferred set of options. e) Technical consideration of design.	Within 3(Three) months of contract signing.
Draft Detailed Project Report	Within five (5) months of contract signing.
Final Detailed Project Report	Within 1(One) month after receipt of comments, to be communicated by the Client within 30 days from receipt of the Draft Report.

- Note:
1. Total time duration allowed for the assignment is seven (07) months.
 2. The Consultant shall review and modify the Feasibility Report, till it is fully cleared by the Client, without charging any extra cost; provided such modifications are suggested by the Client within 3 months of submission of the draft DPR and for this purpose, the contract would be deemed to have been extended for such period.
 3. Subsequent queries it arises out of the observations GFCC, the reply of the same have to be prepared by the Consultant on behalf of Client, if otherwise required.
 4. All deliverables in the draft and final form are to be provided in soft copies (Pen Drive--- ten (10) numbers in total, five (05) for each case. Deliverables in the draft form are to be provided in 10 (ten) hard copies and final forms in 14 (fourteen) hard copies.

6. Place of Execution of assignment

The work of execution of assignment will be in the districts of Malda , Murshidabad & Nadia in the State of West Bengal, India.

7. Engagement of experts and submission of work plan

The Consultant, shall provide a list of in-house personnel as well as outside experts, proposed to be engaged in connection with the assignment and a bar chart showing work plan, within 7 (Seven) working days of signing of the contract. It is desirable to have the following experts in the team of the Consultant.

Suggested key experts and their minimum qualification and experience are listed below:

#	Position	Minimum Qualification	Experience
K1	Team Leader	Graduation in Civil Engineering and Post Graduation in Hydrology/Water Resources/ Hydraulic Engineering.	At least 20 years of experience at National/State level in design, implementation and management of major Irrigation & Drainage/Flood Control projects; and team leadership in these types of projects, preferably funded by State/ Central Government.
K2	Dy. Team Leader	Graduation in Civil Engineering and preferably Post Graduation in Hydrology/Water Resources/ Hydraulic Engineering.	At least 15 years of experience at National/State level in design, implementation and management of major Irrigation & Drainage/Flood Control projects; and association as Consultant or otherwise in this types of project, funded by State/ Central Government, Preferably Government of West Bengal.
K3	Flood Management Expert	Graduation in Civil Engineering and preferably Post Graduation in Water	At least 10 years of experience in carrying out studies/ detailed design and management,

		Resources/ Hydraulic Engineering.	operation and maintenance for major flood management projects, preferably funded by State/Central Government, preferably Government of West Bengal.
K4	Hydraulic Structural Engineer	Graduation in Civil Engineering and preferably Post Graduation in Hydraulic Engineering / Water Resources.	At least 10 years of experience in detailed design of hydraulic structures for major Irrigation/Flood Management/ Water Resources Projects.
K5	Hydrologist/Hydraulic Modeller.	Graduation in Civil Engineering and Post Graduation in Hydrology/Water Resources.	At least 10 years of experience in the field of hydrological studies/mathematical modelling / mapping/designing for major Water Resources Projects, in Flood Management/Drainage Sector.

The Consultant shall submit CVs of these key experts along with the proposal.

Other Specialists (named as Non-Key or other personnel) listed below will also be required for the assignment but there is no need of submission of CVs of these persons. However, names of these experts in relevant fields need to be provided with the offer.

- _ AutoCAD and RS & GIS Expert.
- _ Geotechnical Specialist
- _ Environmental Specialist with experience in irrigation and flood management.
- _ Quality Control Specialist.
- _ Survey Expert (Specially in bathymetry, RTK, TS & DGPS)
- _ Support Engineer (Multipurpose).

8. Site Office of the Consultant and visit to sites

The Consultant will preferably have site offices at the relevant districts, at rented accommodation if required, and the Client may depute personnel at these offices for which suitable office space will have to be provided. The Consultant's team will also require to make field visits. The Consultant will duly consider expenditure on these accounts, within his offered rates.

9. Client's input

The following data sets/ reports are available for providing to the Consultant:

- Index Map of the proposed study area (Annex-1 &2).
- List of areas under erosion/subsidence of banks during monsoon period of 2021(Annex-3).
- River gauge & Rain gauge station of I & W D sites. (Annex-4).

10. Pre-bid Conference

The Consultant, within 15 (fifteen) days of issue of Request for Proposal (RFP) shall be required to hold a pre-bid meeting at 1st floor conference room of Jalasampad Bhavan Salt

Lake, head office of Irrigation & waterways Department, Govt of West Bengal, Kolkata-91.
Records of Discussions of pre-bid conference shall form part of the Contract Document.

11. Offering proposal by the Consultant.

The Consultant shall quote its competitive price on lump sum basis for the whole within 10 (ten) days from the pre-bid conference in the 'Letter Comprising the Bid' and also in the 2nd Page of the contract document 2911(ii). It may be noted that this RFP document will also form a part of the contract agreement and will be appended to 2911(ii). The Consultant, while submitting the total rate, shall also furnish break down of the total cost, on the basis of estimated man-month of the key and other experts, inclusive of other charges and all sorts of direct and indirect tax liabilities. The Consultant will also furnish a list of assignments of similar nature completed during the last 5 years.

12. Evaluation of offer, further negotiation and acceptance of offer.

Offer of the Consultant will be evaluated by a Consultancy Tender Evaluation Committee (CTEC), for which case specific GO will be issued by the Department. The evaluation will be done on the basis of Combined Quality Cum Cost Based System (CQCCBS) method. The Committee may hold negotiation meetings with the Consultant for lowering down the rates, if these appear to be on the higher side, to the Committee. The Committee may also seek any other supporting documents from the Consultant or may also seek for change of key experts, at evaluation stage and these are to be complied by the Consultant. The Committee, after completion of negotiation, will recommend the rate and amount to the Finance Department for concurrence. Minutes of the negotiation meetings shall form part of contract agreement document.

Section 2. Instructions to Consultants (ITC)

A. Standard Information

1. Definitions

- (a) "Applicable Law" means the laws and any other instruments having the force of law in the Client's country as they may be issued and in force from time to time.
- (b) "Client" means the Superintending Engineer, North Irrigation Circle-I, and Irrigation & Waterways Directorate, who will sign the Contract for the Services with the selected Consultant, on behalf of Government of West Bengal, India.
- (c) "Consultant" means a legally-established professional

consulting firm or an entity that may provide or provides the Services to the Client under the Contract.

- (d) “Contract” means a legally binding written agreement signed between the Client and the Consultant and includes all the attached documents.
- (e) “Day” means a calendar day, unless otherwise specified as “Business Day”. A Business Day is any day that is an official working day of the client. It excludes the client’s official public holidays.
- (f) “Experts” means, collectively, Key Experts, Non-Key Experts, or any other personnel of the Consultant, Sub-consultant or Joint Venture member(s).
- (g) “Government” means the Government of West Bengal in Irrigation & Waterways Department.
- (h) “in writing” means communicated in written form (e.g. by mail, e-mail) with proof of receipt;
- (i) Consortium or Joint Venture or sub consultancy:- Consultants may associate with each other to form a consortium to complement their respective areas of expertise or for other reasons provided the service is of homogeneous discipline. The Consortium may take the form of a joint venture. In case of a joint venture all members of the joint venture shall sign the contract and shall be jointly and severally liable for the entire assignment. In case of a consortium one of the partners of the consortium must be the lead member and the client will only deal/correspond with the lead member for all the purposes. Bid proposal of the lead firm only will be evaluated and the lead firm should always be responsible for delivery of services. Experience of other members of the consortium will not be considered for bid evaluation. Sub consultancy is not allowed in this assignment.
- (j) “Key Expert(s)” means an individual professional whose skills, qualifications, knowledge and experience are critical to the performance of the Services under the Contract and whose CV is taken into account in the technical evaluation of the Consultant’s proposal.
- (k) “Non-Key Expert(s) or other personnel” means an individual professional provided by the Consultant and who is assigned to perform the Services or any part thereof under the Contract and who’s CVs are not evaluated individually.
- (l) “Proposal” means the Technical Proposal and the Financial Proposal of the Consultant.

- (m) “Services” means the work to be performed by the Consultant.
- (n) “CTEC” means Consultancy Tender Evaluation Committee constituted by Irrigation & Waterways Department, Government of West Bengal for carrying out the consultant selection procedure taking into account criteria as delineated in this EOI.
- (o) Contract Price means the financial rate quoted by the selected consultant in Indian Rupees, inclusive of all taxes applicable.
- (p) “Currency”- It means the currency to be adopted for this assignment. For this assignment the currency will be Indian rupees. All the consultants will quote their rate in financial bid in Indian Rupees. All the payments will be made to the consultant also in Indian Rupees. The Bank Guarantee will also be in Indian rupees.
- (q) “Bid Security”- It means the amount to be deposited by the successful bidder amounting to Rs. 1,50,000/- (Rupees one lakh fifty thousand) only in favour of Executive Engineer, Malda Irrigation Division in the form of Demand Draft from any scheduled bank will have to submit by the successful bidder at the time of signing of agreement. The deposited amount will be released after completion of one year from the date of signing of agreement.
- (r) “Bid processing fees”- It means the fees to be submitted with the proposal towards the cost of preparation of RFP documents. The Consultant will have to submit Rs. 10000/- (Rs Ten thousand (INR)) in the form of bank draft from any scheduled bank drawn in favour of the Executive Engineer, Malda Irrigation Division as bid processing fees along with the proposal.
- (s) “Defect Liability Period” - for the proposed work 275 days from the date of submission of approved final report.

2. Procedure for bid submission

- 2.1** The shortlisted consultants will have to submit the Technical and Financial proposal as per the schedule stated here in below at the two offices mentioned therein, physically or by shipping, in two separate sealed envelopes stating clearly “Technical Proposal” or “ financial Proposal” on the said envelopes.
- 2.2** Late bids that are bids received after the last date and time of submission of bid shall not be considered for Technical evaluation and shall be returned unopened.

2.3 Schedule of bidding process:

- 2.3.1** Last date of submission of application for EOI:-
01/11/2021
- 2.3.2** Date of issue of RFP to the shortlisted consultants:-
12/11/2021
- 2.3.3** Pre-bid meeting:- **26/11/2021** at 12:00 Noon at the 1st floor conference room of Jalasampad Bhavan Salt Lake, Kolkata-700091 head office of Irrigation & waterways Department, Govt Of West Bengal, Kolkata-91.
- 2.3.4** Issue of corrigendum to RFP, if any consequent to pre bid meeting to short listed consultants :-
30/11/2021
- 2.3.5** Last date and time of submission of Technical and Financial bids at the under mentioned offices of client:- **10/12/2021 at 5:00 P.M**
- 2.3.6** Evaluation of Technical bids by CTEC:- **13/12/2021**
- 2.3.7** Date of financial and combined evaluation:- to be notified by the client to technically qualified bidders, but is expected on **15/12/2021**
- 2.3.8** Expected date of negotiation if any:-The date will be notified by the client to the finally selected consultant. However the expected date of negotiation is **17/12/2021**.
- 2.3.9** Expected date of award of contract:- **22/12/2021**.

2.4 The address and contact details of offices for submission of bids.

- a. Office of the Superintending Engineer,
North Irrigation Circle-I
Irrigation & Waterways Directorate
Government of West Bengal
Green Park, P.O.- Mokdumpur, Malda
Mobile No. 9434221179
Email: se.ncic2003@gmail.com
- b. Office of the Superintending Engineer,
North Irrigation Circle-II
Irrigation & Waterways Directorate
Government of West Bengal
Berhampore, Murshidabad
Mobile No. : 9874863405
Email: senic2iwd@gmail.com

2.5 The address and contact details of offices for opening of Technical & Financial bid & further negotiation

- a) Head Office of the Irrigation & Waterways Department
Government of West Bengal
1st floor conference Hall, Jalasampad
Bhavan, Salt Lake, Kolkata-700091

3. Pre-bid meeting

3.1 A pre bid meeting with the shortlisted intending bidders will be held as per schedule stated above.

3.2 During pre bid meeting the scope of assignment, responsibilities of either parties or other details included in the RFP, will be clearly explained to the participating bidders so that there is no ambiguity later on at the time of submission of bids. Where some significant changes are made in the terms/scope of RFP as a result of pre bid meeting or otherwise, considered necessary by the client, a formal corrigendum would be issued to all shortlisted consultants.

4. Conflict of Interest

4.1 The Consultant is required to provide professional, objective, and impartial advice, at all times holding the Client's interests paramount, strictly avoiding conflicts with other assignments or its own corporate interests, and acting without any consideration for future work.

4.2 The Consultant has an obligation to disclose to the Client any situation of actual or potential conflict that impacts its capacity to serve the best interest of its Client. Failure to disclose such situations may lead to the disqualification of the Consultant or the termination of its contract.

4.2.1 Without limitation on the generality of the foregoing, the Consultant shall not be hired under the circumstances set forth below:

- a) **Conflicting Activities** Conflict between consulting activities and procurement of goods, works or non-consulting services: a firm that has been engaged by the Client to provide goods, works, or non-consulting services for a project, or any of its Affiliates, shall be disqualified from providing consulting services resulting from or directly related to those goods, works, or non-consulting services. Conversely, a firm hired to provide consulting services for the preparation or implementation of a project, or any of its Affiliates, shall be disqualified from subsequently providing goods or works or non-consulting services resulting from or directly related to the consulting services for such preparation or implementation

- b) **Conflicting Assignments** Conflict among consulting assignments: a Consultant (including its Experts and Sub-consultants) or any of its Affiliates shall not be hired for any assignment that, by its nature, may be in conflict with another assignment of the Consultant for the same or for another Client

- c) **Conflicting Relationships** Relationship with the Client's staff: a Consultant (including its Experts and Sub-consultants) that has a close business or family relationship with a professional staff of the Client, who are directly or indirectly involved in any part of (i) the preparation of the Terms of Reference for the assignment, (ii) the selection process for the Contract, or (iii) the supervision of the Contract, may not be awarded a Contract, unless it is established to the complete satisfaction of the client, for the reason to be recorded in writing, that such relationship would not affect the aspects of fairness and transparency in the selection process and monitoring of consultant's work.

B. Assignment Specific Information

- 1. **General Considerations** 1.1 In preparing the Proposal, the Consultant is expected to examine the RFP in detail. Material deficiencies in providing the information requested in the RFP may result in rejection of the Proposal.

- 2. **Cost of Preparation of Proposal** 2.1 The Consultant shall bear all costs associated with the preparation and submission of its Proposal, and the Client shall not be responsible or liable for those costs, regardless of the conduct or outcome of the selection process. The Client is not bound to accept any proposal, and reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Consultant.

- 3. **Language** 3.1 The Proposal, as well as all correspondence and documents relating to the Proposal exchanged between the Consultant and the Client, shall be written in English only. The rates should be quoted in numbers as well as in words. In case any difference between that provided in number and in word, the value in word will be considered.

- 4. **Documents Comprising the Proposal** 4.1 The Proposals, both Technical and Financial should be prepared in the prescribed formats of RFP.

- 5. Only One Proposal**
- 5.1** The Consultant (individual or joint venture) shall submit only one Proposal. If a Consultant submits or participates in more than one proposal, all such proposals shall be disqualified and rejected. This does not, however, preclude a Sub-consultant, or the Consultant's staff from participating as Key Experts and Non-Key Experts in more than one Proposal when circumstances justify.
- 6. Proposal Validity**
- 6.1** Consultant's Proposal must remain valid for a period of **120 days** after the Proposal submission deadline.
- 6.2** During this period, the Consultant shall maintain its original Proposal without any change, including the availability of the Key Experts, the proposed rates and the total price.
- 6.3** If it is established that any Key Expert nominated in the Consultant's Proposal was not available at the time of Proposal submission or was included in the Proposal without his/her confirmation, such Proposal shall be disqualified and rejected for further evaluation.
- a. Extension of Validity Period**
- 6.4** The Client will make its best effort to complete the negotiations within the proposal's validity period. However, should the need arise, the Client may request, in writing, all Consultants who submitted Proposals prior to the submission deadline, to extend the Proposals' validity.
- 6.5** If the Consultant agrees to extend the validity of its Proposal, it shall be done without any change in the original Proposal and with the confirmation of the availability of the Key Experts.
- 6.6** The Consultant has the right to refuse to extend the validity of its Proposal in which case such Proposal will not be further evaluated.
- b. Substitution of Key Experts at Validity Extension**
- 6.7** If any of the Key Experts become unavailable for the extended proposal's validity period, the Consultant shall seek to substitute another Key Expert. The Consultant shall provide a written adequate justification and evidence satisfactory to the Client together with the substitution request. In such case, a substitute Key Expert shall have equal or better qualifications and experience than those of the originally proposed Key Expert. The technical evaluation score, however, will remain to be based on the evaluation of the CV of the original Key Expert.
- 6.8** If the Consultant fails to provide a substitute Key Expert with equal or better qualifications, or if the provided reasons for the replacement or justification are unacceptable to the Client, such Proposal will be rejected.
- c. Sub-Contracting**
- 6.9** The Consultant shall not subcontract the whole of the Services.
- 7. Expected date of commencement of the assignment**
- 7.1** The Consultant shall examine the RFP in detail to identify any material deficiencies in providing the information requested in the RFP by ~~27/12/2021~~ **27/12/2021**.

may result in rejection of the Proposal.

Section 3. Pre-qualification Criteria

1. Pre-qualification Criteria:

The Superintending Engineer, North Irrigation Circle-I of Irrigation & Waterways Directorate in the Government of West Bengal invites eligible consulting firms to indicate their interest in providing the Services. Interested Consulting firms should provide information demonstrating that they have the required qualifications and relevant experience to perform the services.

2. The short – listing criteria are:

- a. The firms should have at least five (05) years experience in the business of providing consultancy services of similar nature at National level preferable in preparation of feasibility study, detailed engineering design, Cost estimate & DPR for erosion control & flood management in any State / Central /Multi-Lateral Financial Institution funded projects any where in India. Provide a brief description of the organization including ownership details, date and place of incorporation of the Firm, Objectives of the Firm and details of assignments undertaken during last five (05) English Financial Year. It is desirable at least one of the assignments during last five years should be in West Bengal. Total point under this criterion is 35; the firm with experience in maximum number of projects will get full marks, while marks to other firms will be assigned on pro-rata basis. 05 marks out of 35 is reserve for the work in West Bengal.
- b. The Firm should have completed at least two (02) similar nature projects in the last five financial years for Central/State Government projects having minimum awarded project cost of Rs. 4.00 (four) crore. (Provide letter of Award of Contract from the employer and documentary evidence of completion in last five English financial years. Total point for this criterion is 30; the firm with maximum number of completed and relevant project experience will get full marks, while marks to other firms will be assigned on pro-rata basis.
- c. The team leader of this assignment should be a Water Resources Expert having proven experience preferably of 20 (twenty) years in the field of Irrigation as well as erosion/Flood management. The Firm is also required to engage Erosion/Flood control Specialists, hydraulic and structural design engineers.
(The Firm shall provide a list of personnel having experience and expertise in the relevant field stated above to be deployed out of its pool of man power resources. Bio- data/ CV of individual experts need not be provided at this stage). Total point for this criterion is 20.
- d. The Firm must have achieved a minimum annual turnover of INR 500.00 lakh in any one of the last three completed financial year (Provide Audited & Financial Report of last three (03) completed final years). Total point for this criterion is 15, and the firm with highest average turnover will get the full marks, while marks to other firms will be assigned on pro-rata basis.
- e. The Firm should provide its self-Certified organizational Structure.

- f. The Firm may associate to enhance their qualification, but should mention whether the association is in the form of a “Joint – Venture” or of “Consortium”. In case of a Joint-venture, all members of the Joint Venture shall sign the contract and shall be jointly and severally liable for the entire assignment. In case of Consortium of consultants one of the partners of the Consortium must become the lead members of the consortium and client shall only deal with the lead member for all the purposes. It is preferable to limit the total number of firms including the associates to a maximum of four. This should be clearly stated in the Submission.

The short listing of consultants will be done, based on their relative ranking determined on the basis of the documents furnished with the Expression of Interest (EOI), following the above mentioned criterion. The minimum technical score required to be eligible for short listing of Firms is 75.

Further information can be obtained at the former address below from 10:30 pm up to 17:30 hrs. (IST) except on State Government declared holidays.

A Consultant will finally be selected in accordance with the combined Quality Cum Cost Based System (CQCCBS), where the technical proposals will be allotted weightages of 70% while the financial proposal will be allotted weightages of 30%. The Consultant with most advantageous proposal, which is the proposal that achieves the highest combined technical and financial scores, will be invited for negotiations.

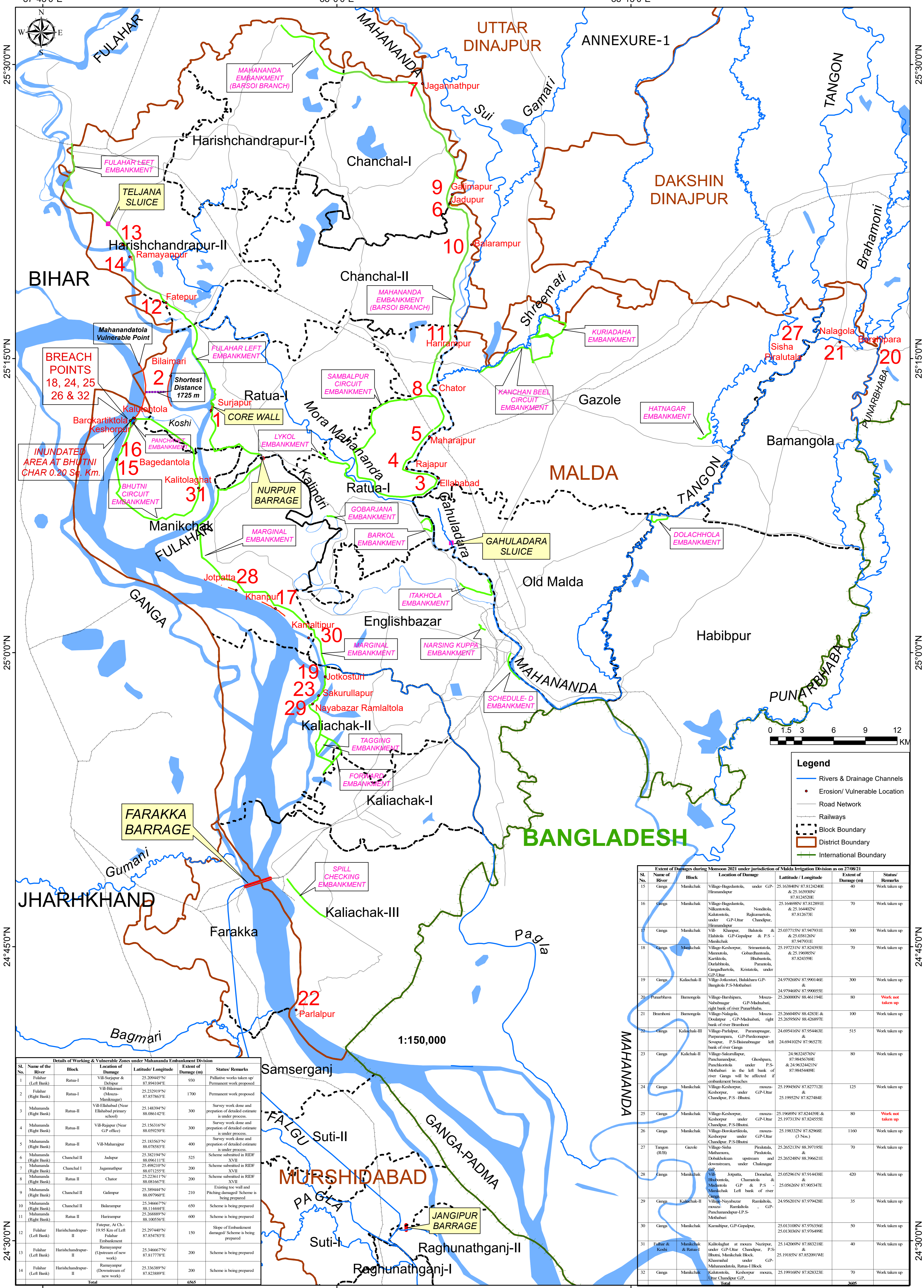
Expression of Interest (EOI) with the accompanying information must be delivered in the written form (with seven hard copies) in sealed envelope addressed to the Superintending Engineer, North Irrigation Circle-I, Irrigation & Waterways Directorate, Government of West Bengal, Green Park, P.O.- Mokdumpur, Malda in the designated tender box kept physically in any one of the two offices by **01/11/2021** in between 10:30 hrs (IST) to 17:30 hrs (IST) on working days.

- i) Superintending Engineer / North Irrigation Circle-I, I & W Directorate, Govt. of West Bengal, Green Park, P.O.- Mokumpur, Malda
- ii) Superintending Engineer / North Irrigation Circle-II, I & W Directorate, Govt. of West Bengal, Berhampore, Murshidabad

Important Note: No proposals (Technical or Financial) are required now. On the basis of information provided by interested consulting Firms the Authority will prepare a short list of firms who will be invited to submit detailed proposals in the RFP.

**Superintending Engineer
North Irrigation Circle-I
Irrigation & Waterways Directorate
Government of West Bengal
Green Park, Malda**

INDEX MAP SHOWING LOCATION OF DAMAGES AND INUNDATION AREA UNDER THE JURISDICTION OF NORTH IRRIGATION CIRCLE-I DURING AUGUST 2021



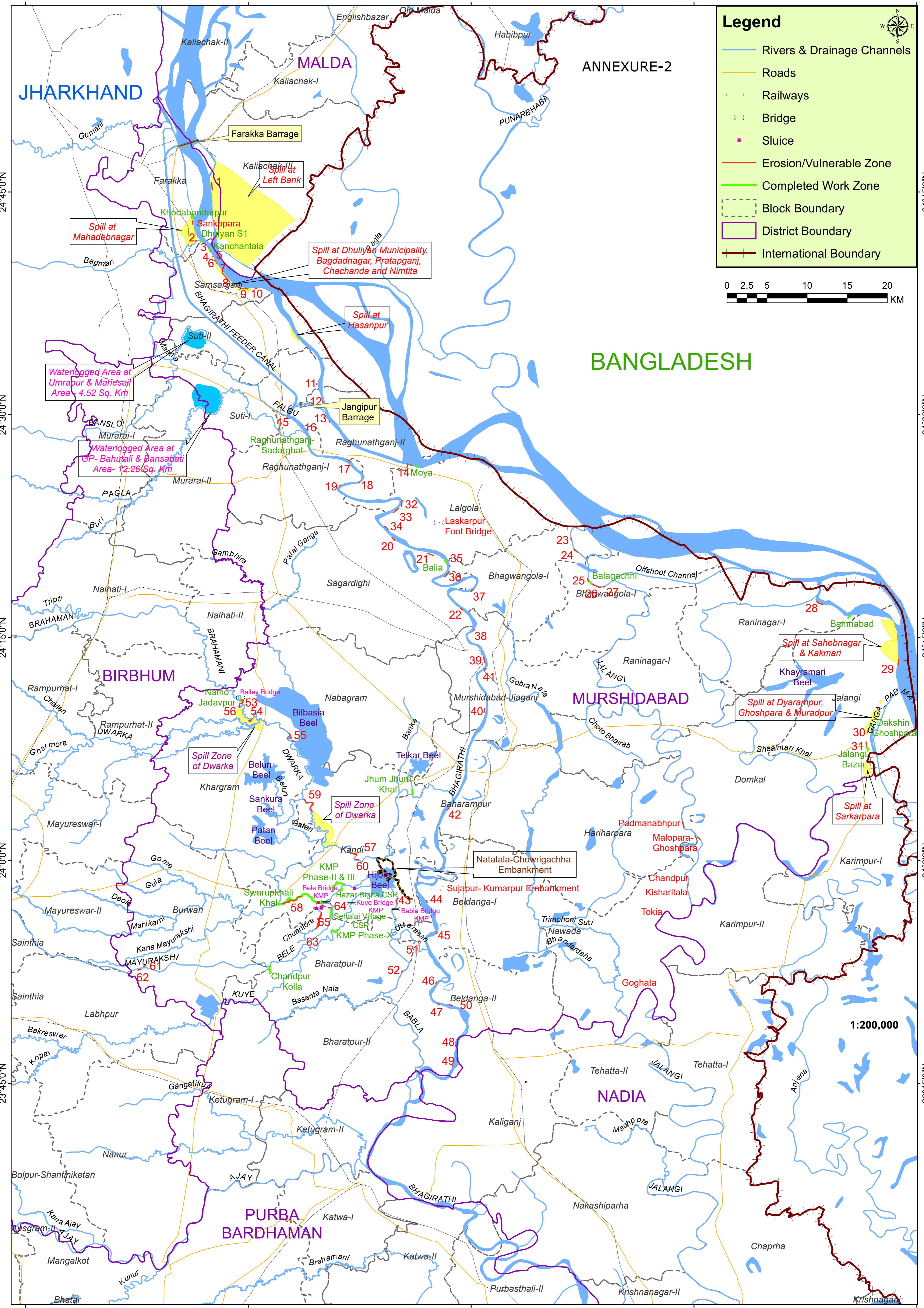
Details of Working & Vulnerable Zones under Mahananda Embankment Division

Sl. No.	Name of the River	Block	Location of Damage	Latitude/ Longitude	Extent of Damage (m)	Status/ Remarks
1	Fulahar (Left Bank)	Ratus-I	VII-Surjapur & Dehpar	25.209445°N 87.894104°E	930	Palliative works taken up/ Permanent work proposed
2	Fulahar (Right Bank)	Ratus-I	VIII-Bilaimari (Mouza-Mankhanga)	25.232919°N 87.857863°E	1700	Permanent work proposed
3	Mahananda (Right Bank)	Ratus-II	VIII-Elahabad (Near Elahabad primary school)	25.148594°N 88.086142°E	300	Survey work done and preparation of detailed estimate is under process.
4	Mahananda (Right Bank)	Ratus-II	VII-Rajapur (Near GP office)	25.156316°N 88.092509°E	300	Survey work done and preparation of detailed estimate is under process.
5	Mahananda (Right Bank)	Ratus-II	VII-Maharajpur	25.183563°N 88.078583°E	400	Survey work done and preparation of detailed estimate is under process.
6	Mahananda (Right Bank)	Chanchal II	Jadpur	25.382194°N 88.096111°E	525	Scheme submitted in RIDF XVII
7	Mahananda (Right Bank)	Chanchal I	Jaganathpur	25.498210°N 88.071255°E	200	Scheme submitted in RIDF XVII
8	Mahananda (Right Bank)	Ratus II	Chator	25.223611°N 88.081667°E	200	Scheme submitted in RIDF XVII
9	Mahananda (Right Bank)	Chanchal II	Galimapur	25.389444°N 88.097969°E	210	Existing toe wall and pitching damaged/ Scheme is being prepared
10	Mahananda (Right Bank)	Chanchal II	Balarampur	25.346667°N 88.114444°E	650	Scheme is being prepared
11	Mahananda (Right Bank)	Ratus II	Harirampur	25.268899°N 88.100556°E	600	Scheme is being prepared
12	Fulahar (Left Bank)	Harishchandrapur-II	Fatepur, At Ch-19.95 Km of Left Fulahar Embankment	25.297440°N 87.854783°E	150	Slips of Embankment damaged/ Scheme is being prepared
13	Fulahar (Left Bank)	Harishchandrapur-II	Ramayapur (Upstream of new work)	25.346667°N 87.817778°E	200	Scheme is being prepared
14	Fulahar (Left Bank)	Harishchandrapur-II	Ramayapur (Downstream of new work)	25.336389°N 87.823889°E	200	Scheme is being prepared
Total						6565

Extent of Damages during Monsoon 2021 under jurisdiction of Malda Irrigation Division as on 27/08/21

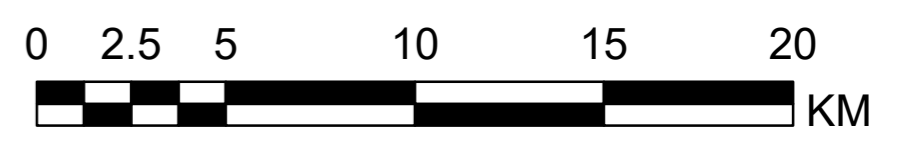
Sl. No.	Name of River	Block	Location of Damage	Latitude / Longitude	Extent of Damage (m)	Status/ Remarks
15	Ganga	Mankhach	Village-Bagedantola, under GP-Hiranandapur	25.163848°N 87.8124240E & 25.163930°N 87.8124250E	40	Work taken up
16	Ganga	Mankhach	Village-Bagedantola, Nikantola, Rajamantola, under GP-Uttar Chandpur, Hiranandapur	25.164698°N 87.812891E & 25.164402°N 87.812673E	70	Work taken up
17	Ganga	Mankhach	Village-Kharpur, Bahutola & Elahola GP-Gopalpur & P.S.-Mankhach	25.037715°N 87.947931E & 25.038126°N 87.947931E	300	Work taken up
18	Ganga	Mankhach	Village-Keshorpur, Sivanantola, Manantola, Karitola, Bhubantola, Durbhantola, Paramola, Ganga-Chutola, Kristola, under GP-Uttar Chandpur	25.197231°N 87.824393E & 25.196985°N 87.824359E	70	Work taken up
19	Ganga	Kaliachak-II	Village-Jotkosturi, Bahukham GP-Bangtola P.S-Mohabari	24.979288°N 87.990146E & 24.979488°N 87.990055E	300	Work taken up
20	Punarbhava	Bamangola	Village-Banshipara, Mouza-Nababnagar GP-Madrabati, right bank of river Punarbhava	25.260000°N 88.461194E	80	Work not taken up
21	Deurnhoi	Bamangola	Village-Nalagola, Mouza-Daulapur GP-Madrabati, right bank of river Deurnhoi	25.266048°N 88.4283E & 25.265950°N 88.428897E	100	Work taken up
22	Ganga	Kaliachak-III	Village-Parlapur, Parmanapur, Parmanapur, GP-Parmanapur, Soupara, P.S-Hatanabangur left bank of river Ganga	24.695416°N 87.954463E & 24.694102°N 87.96537E	515	Work taken up
23	Ganga	Kaliachak-II	Village-Sakurullapur, Panchantola, under P.S.-Mohabari in the left bank of river Ganga will be affected if embankment breaches	24.963245°N 87.98456799E & 24.96324421°N 87.98454499E	80	Work taken up
24	Ganga	Mankhach	Village-Keshorpur, mouza-Keshorpur, under GP-Uttar Chandpur, P.S.-Bhutni	25.199456°N 87.827712E & 25.199529°N 87.827484E	125	Work taken up
25	Ganga	Mankhach	Village-Keshorpur, mouza-Keshorpur under GP-Uttar Chandpur, P.S.-Bhutni	25.196899°N 87.824430E & 25.197313°N 87.824555E	80	Work not taken up
26	Ganga	Mankhach	Village-Borokantola, mouza-Keshorpur, under GP-Uttar Chandpur, P.S.-Bhutni	25.198332°N 87.82968E (3 Nos.)	1160	Work taken up
27	Tangon (RB)	Gazole	Village-Sisha, Piratola, Mathanora, Dabdhokan upstream and downstream under Chandraj GP.	25.262313°N 88.397195E & 25.262488°N 88.396621E	70	Work taken up
28	Ganga	Mankhach	Village-Jotpatta, Dornchat, Charnatola, under P.S.-Mankhach Left bank of river Ganga	25.052961°N 87.914438E & 25.052626°N 87.905347E	420	Work taken up
29	Ganga	Kaliachak-II	Village-Nayabazar, Ramkhal, mouza-Ramkhal, under GP-Panchantola-P.S.-Mohabari	24.956201°N 87.979428E	35	Work taken up
30	Ganga	Mankhach	Karnatpur, GP-Gopalpur,	25.01308°N 87.976356E & 25.013036°N 87.976499E	50	Work taken up
31	Fulahar & Koshi	Mankhach & Panchak	Kalitola at mouza Nazipur, under GP-Uttar Chandpur, P.S.-Bhutni, Mankhach block, Kharsahal under GP-Mahanandata, Ratus-I Block, Mahanandata, Keshorpur mouza, Uttar Chandpur GP.	25.142069°N 87.883218E & 25.19185°N 87.85209131E	40	Work taken up
32	Ganga	Mankhach	Total	25.199168°N 87.828323E	70	Work taken up
Total						3665

INDEX MAP SHOWING LOCATION OF DAMAGES AND INUNDATION AREA UNDER THE JURISDICTION OF NORTH IRRIGATION CIRCLE-II DURING AUGUST 2021



Legend

- Rivers & Drainage Channels
- Roads
- Railways
- = Bridge
- Sluice
- Erosion/Vulnerable Zone
- Completed Work Zone
- Block Boundary
- District Boundary
- International Boundary



1:200,000

ANNEXURE-3

List of areas under erosion /subsidence of bank during monsoon period-2021:-

1	2	3
Name of the Block	Zone of erosion	Nature of erosion
Name of the District : <i>Malda</i>		
Manikchak	Bagedantola in left bank of river Ganga.	Bank erosion
Manikchak	Bagedantola, Nilkantatola, Nonditola, Kalutantola, Rajkumartola in left bank of river Ganga.	Bank erosion
Manikchak	Khanpur, Balutola&Elahitola in left bank of river Ganga.	Bank erosion
Manikchak	Keshorpur, Srimantatola, Mannutola, Gobardhantola, Kartiktola, Bhubantola, Durlavtola, Parantola, Gobardhantola, Kristtatola in left bank of river Ganga.	Bank erosion
Kaliachak-II	Jotkosturi, Balukhara in left bank of river Ganga.	Bank erosion
Bamongola	Nalagola in right bank of river Bramhoni.	Bank erosion
Kaliachak-III	Parlalpur, Paranupnagar, Parparanpara in left bank of river Ganga.	Bank erosion
Kaliachak-II	Sakurullapur, Panchandapur, Ghoshpara, Panchkoritola in left bank of river Ganga.	Bank erosion
Kaliachak-III	Parlalpur, Paranupnagar, Parparanpara in left bank of river Ganga.	Bank erosion
Manikchak	Keshorpur, in left bank of river Ganga.	Bank erosion
Manikchak	Keshorpur, in left bank of river Ganga.	Bank erosion
Manikchak	Borokartiktola in left bank of river Ganga.	Bank erosion
Gazole	SishaPiralutala, Mathamora, Piralutola, Dobakhoksan in the right bank of river Tangon	Bank erosion
Manikchak	Jotpatta, Domehat, Bhubantola, Chamatola&Madantola in left bank of river Ganga.	Bank erosion
Kaliachak-II	NayabazarRamlaltola in left bank of river Ganga.	Bank erosion
Manikchak	Kamaltipur in left bank of river Ganga.	Bank erosion
Manikchak	Borokartiktola&Basantatola in left bank of river Ganga.	Bank erosion
Manikchak & Ratua-I	Kalitolaghat&Khasmahal in the bank of river Fulahar &Koshi.	Bank erosion
Kaliachak-III	Paranupnagar, in left bank of river Ganga.	Bank erosion
Kaliachak-II	Sakurullapur in left bank of river Ganga.	Bank erosion

Manikchak	Kalutantola in left bank of river Ganga.	Bank erosion
Ratua-I	Surjapur in the left bank of river Fulahar	Bank erosion
Ratua-I	Surjapur &Laxmipur in the left bank of river Fulahar	Bank erosion
Ratua-I	Surjapur &Laxmipur in the left bank of river Fulahar	Bank erosion
Ratua-I	Surjapur &Laxmipur in the left bank of river Fulahar	Bank erosion
Name of the District : <i>Murshidabad</i>		
Farakka	Hossainpur to Khaspara, Kulidiar on left bank of river Ganga /Padma	Bank erosion
Dhuliyān Municipality	Lalpur, Dhuliyān town area on right bank of river Ganga /Padma	Bank erosion
Samsanganj	Dhangara, Sibpur, Dhuliyān town to Kamalpur on right bank of river Ganga /Padma	Bank erosion
Lalgola	Kantakhali on right bank of river Ganga /Padma	Bank erosion
Bhatwāngola-I & II	Laharamari, Khoribona, Laeangola BOP, Per sahib nagar, Balagachi on right bank of river Ganga /Padma	Bank erosion
Raninagar-II	Char Rajanagar, Char Munshipara, Char Rajapur on right bank of river Ganga /Padma	Bank erosion
Jalangi	Muradpur, Dakshin Ghoshpara, Joykrishnapur, Jalangi on right bank of river Ganga /Padma	Bank erosion
Name of the District : <i>Nadia</i>		
Karimpur-II	Bausmari&Madhugari	Bank erosion

ANNEXURE-4

River gauge and Rain gauge stations:-

RIVER GAUGE STATIONS			
Sl. No.	District	Name of River	Location
1	MALDA	Ganga	Manikchak
2		Fulahar	Teljana
3		Mahananda	English Bazar
4	NADIA	Bhagirathi	Swarupganj
5		Churni	Hanskhali
6		Churni	Majdia
7		Mathabanga	Majdia
8		Ichamati	Majdia
9	MURSHIDABAD	Bhagirathi	Berhampur
10		Bhagirathi	Jangipur
11		Dwarka	Sankoghat
12		Dwarka	Ranagram
13		Kuiye	Tarapur
14		Mayurakshi	Narayanpur
15		Jalangi	Damati
16		Ganga	Nimtita
17		Ganga	Nurpoor
18		Ganga	Geria
19		Bansholi	Bahutoli
20		Pagla	Banshbati
21		Babla	Bazarshaw

RAIN GAUGE STATIONS		
Sl. No.	District	Name of Station
1	MALDA	English Bazar
2	MURSHIDABAD	Berhampur
3		Kandi
4		Salar
5		Bharatpur
6	NADIA	Swarupganj

Copy forwarded for information and wide circulation through the Notice Board to the: ----

- 1) Secretary to the Govt. of West Bengal, Irrigation & Waterways Department.
- 2) Financial Adviser, Irrigation & Waterways Department.
- 3) Chief Engineer (North), Irrigation and Waterways Directorate, Govt. of W.B., Green Park, Malda.
- 4) Joint Secretary (Works), Irrigation & Waterways Department.
- 5) Superintending Engineer, North Irrigation Circle-II, Berhampur, Murshidabad.
- 6) District Magistrate, Malda
- 7) District Magistrate, Murshidabad.
- 8) District Magistrate, Nadia.
- 9) Deputy Secretary-II, Irrigation & Waterways Department.
- 10) Executive Engineer, Malda Irrigation Division, Green Park, Malda.
- 11) Executive Engineer, Mahananda Embankment Division, Green Park, Malda.
- 12) Executive Engineer, North Dinajpur Irrigation Division, Raiganj, Uttar Dinajpur.
- 13) Executive Engineer, South Dinajpur Irrigation Division, Beltala Park, Balurghat.
- 14) Executive Engineer, Ganga Anti-erosion Division-I, Jangaipur, Murshidabad.
- 15) Executive Engineer, Ganga Anti-erosion Division-II, Berhampore, Murshidabad.
- 16) Executive Engineer, Berhampore Irrigation Division, Berhampore, Murshidabad.
- 17) Executive Engineer, Nadia Irrigation Division, Krishnanagar, Nadia..
- 18) Notice Board, North Irrigation Circle-I, Green Park, Malda.

Superintending Engineer
North Irrigation Circle-I
Green Park, Malda