EXECUTIVE ENGINEER,
FLOOD CONTROL DIVISION-1, KHAGARIA
E-mail ID — eefcd1khg@gmail.com, Mobile No.-7463889810

Letter No- 1291 /Khagaria, Date- 05.10.2026

Notice Inviting Quotation
Notice No 01/2026-27

Quotation is invited in sealed envelop from empanelled firms/ consultants of WRD Bihar for the following type of work:-

Conducting Comprehensive LiDAR Drone Survey and Preparation of Hydraulic Model Input Data including high-resolution LiDAR survey of the river corridor and floodplain, Geo-referenced Orthomosaic, Classified Point Cloud (LAS/LAZ), DTM, DSM, River Cross Sections at 100 m, 200m, 250 m & 500 m interval with bed levels at 4-10 m spacing in water part, 25-50 m spacing in land parts, and Topographic Survey with UTM Coordinates (Easting, Northing, Bed RL & Chainage) in Excel format, Index Plan in AutoCAD showing river alignment, cross-sections, bridges, embankments and other hydraulic features, Bridge Inventory (pier, abutment, soffit level, road formation level, well cap level, span details), Contour Mapping, Longitudinal Profile, GIS/CAD Deliverables (DWG, SHP, KML), Raw Survey Data and Final Technical Report of River Ganga from **0.5 km upstream of Aguani Ghat Bridge to 25 km downstream of Aguani Ghat Bridge & 3 km upstream of Budhi Gandak Bridge at Khagaria to 8 km downstream of Bridge** complete as per Tentative Data required for the Model Studies by MMC, Patna for the construction of proposed ring bundh on the left bank of River Ganga and from River Budhi Gandak Related description is as follows:

Tentative Data required for the Model Studies by MMC,Patna is as follows:-

Location		Length (km)	Average Width (km)	Cross section interval (m)	Unit	Amount (Rs)	
						In figure	In word
1	Budhi Gandak	2.5	1	200	L.S		
		5	1.3	200			
		3.75	1	100			
	Ganga	5.6	0.5	250			
		13	0.7	250			
		23	3.2	500			
2	Topographic Survey in Ganga	Area 107 km^2	Points at an interval 25m to 50m		L.S		

1) Date of issue of notice inviting quotation :- Date-05.10.2026
2) Office inviting quotation :- Executive Engineer, Flood Control Division-1, Khagaria
3) Date Time and Place of pre-Bid meeting :- Date-14.10.2026 at 3:00 PM, Executive Engineer, Flood Control Division-1, Khagaria
4) Date time & Place of Receiving of Sealed Quotation (in Hard Copy):- UP to 26/10/2026 at 3:00 PM
   1. Executive Engineer, Flood Control Division-1, Khagaria
   2. Superintending Engineer, Flood Control Circle, Khagaria
   3. Chief Engineer, Flood Control & Drainage, WRD, Samastipur
5) Date time & Place of Opening of Sealed Quotation:- Date-27/10/2026 at 3:30 PM, Executive Engineer, Flood Control Division-1, Khagaria

Detailed quotation shall be seen on website https://wrd.bihar.gov.in

5/10/2026
Executive Engineer,
Flood Control Division-1, Khagaria

EXECUTIVE ENGINEER,
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Tentative Data required for the Model Studies by MMC,Patna is as follows:-

Description of work:-

1. Cross section data of river Ganga from 0.5 km upstream of Aguani Ghat Bridge to 25 km downstream of Aguani Ghat Bridge & 3 km upstream of Budhi Gandak Bridge at Khagaria to 8 km downstream of Bridge at an interval of 100 m, 200m, 250 m & 500 m as mentioned in Technical note attached (preferably through LiDAR Survey). This will help in simulating the realistic flood extent in the model and for model validation too. The bed levels at an interval of 4 to 10 m (bathymetric survey in water parts) and 25 m to 50 m in land parts along the cross section in UTM coordinates (Easting, Northing) required in the Microsoft excel format file (sample given below)
2. Topographic survey (preferably through LiDAR Survey) in Ganga at interval 25 m to 50 m as mentioned in technical note
3. The index plan preferably to a scale of 1 : 15000 in Auto Cad format. The plan shall indicate the cross-section alignment, the 'zero' chainage of the cross section, gauge discharge site, bridge/barrage/weir alignments, existing roads, etc. (s as per MMC, Patna requirement)
4. Details of the bridges like dimension of piers, number of spans, abutment details soffit level, road formation level, level of well cap, etc. (as per MMC, Patna requirement)
5. The observed high flood levels with corresponding discharge along the reach under consideration. The high flood levels that may be marked on the structures across the river like bridge piers, barrage/weir abutments, permanent structures, etc. with corresponding discharge values & velocity at interval of 15 days are necessary for validating/proving the model.
6. Design discharge for the proposed ring bundh may also be submitted.
7. Grain size distribution data or Lacey's silt factor of river in the deep channel and along the banks at an interval of 5 km along the reach under consideration or at least one number in the reach where length is less then 5km.

Sl. No.	Details of Work
01.	Conducting Comprehensive LiDAR Drone Survey and Preparation of Hydraulic Model Input Data including high-resolution LiDAR survey of the river corridor and floodplain, Geo-referenced Orthomosaic, Classified Point Cloud (LAS/LAZ), DTM, DSM, River Cross Sections at 100 m, 200m, 250 m & 500 m at an interval of 4 to 10 m (bathymetric survey in water parts) and 25 m to 50 m in land parts as per Details attached and Topographic survey interval with bed levels at 25-50 m spacing, UTM Coordinates (Easting, Northing, Bed RL & Chainage) in Excel format, Index Plan in AutoCAD showing river alignment, cross-sections, bridges, embankments and other hydraulic features, Bridge Inventory (pier, abutment, soffit level, road formation level, well cap level, span details), Contour Mapping, Longitudinal Profile, GIS/CAD Deliverables (DWG, SHP, KML), Raw Survey Data and Final Technical Report of River Ganga from 0.5 km upstream of Aguani Ghat Bridge to 25 km downstream of Aguani Ghat Bridge & 3 km upstream of Budhi Gandak Bridge at Khagaria to 8 km downstream of Bridge complete as per Tentative Data required for the Model Studies by MMC, Patna for the construction of proposed ring bundh on the left bank of River Ganga & Budhi Gandak.

Location		Length (km)	Average Width (km)	Cross section interval (m)	Unit	Amount (Rs)	
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2) Office inviting quotation :- Executive Engineer, Flood Control Division-1, Khagaria
3) Date Time and Place of pre-Bid meeting :- Date-14.10.2026 at 3:00 PM, Executive Engineer, Flood Control Division-1, Khagaria
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5) Date time & Place of Opening of Sealed Quotation:- Date-27/10/2026 at 3:30 PM, Executive Engineer, Flood Control Division-1, Khagaria

Detailed quotation shall be seen on website https://wrd.bihar.gov.in

31/10/2026

Executive Engineer,
Flood Control Division-1, Khagaria

Terms and Conditions:-

1. Eligibility: The quotation will be accepted only from the empanelled consultants of Water Resources Department, Bihar vide letter no-I/PMC/Vividh/931/2013-48 dt 25.01.2022
2. Rates. The rates should be quoted in figure and in words as per unit mentioned in invited Quotation (LS) (No Cutting and No Overwriting)
3. The rates should be quoted inclusive of Service Tax, GST and other applicable taxes and liabilities of State/Central Government. Nothing extra shall be payable by the department.
   Payment shall be made after deducting income tax and other applicable tax as per prevailing rates.
4. No price escalation will be entertained.
5. The sealed quotation will be opened at 3.30 PM on 27th October 2026 in 0/0 Executive Engineer, Flood Control Division-1, Khagaria in presence of Consultant/their representative who wish to attend the quotation opening (Authorization letter from the competent authority in case of authorized representative is mandatory)
6. The Consultant quoting lowest rate will be selected by the depatrments competent authority. The agreement will be made after getting the administrative approval by the competent authority of WRD, Bihar.
7. The consultant will be expected to commence the survey work immediately after the award of work.
8. Vague and Conditional quotation shall outrightly be rejected.
9. The Executive Engineer, Flood Control Division-1, Khagaria reserves the right to postpone / cancel quotation anytime without any prior information .No bidder shall have any right to take any course of action or claim against the Executive Engineer,FCD-1, Khagaria for rejection of their bid.
10. In no case advance payment shall be made to the Consultant/Survey Agency. Payment shall be made after acceptance of final Survey report by MMC, Patna as per their requirements.
11. The duration of survey and other related works are proposed for 45 days after commencement of contract. The contract shall come in to force from the date of signing by both the parties.
12. The work order shall be issued after getting approval from the competent authority.
13. The Consultant/Survey Agency shall comply with labour laws and other relevant government regulations issued time to time.
14. The participating Consultant/Survey Agency is expected to visit the site before participating in this quotation. No additional claim/payment in terms of site condition shall be entertained after quoting rates by the consultant.
15. All drawing/documents shall be kept confidential and in no way, these are to be disclosed to any other person not concerned with this work.
16. Participating Consultant/Survey Agency may contact the undersigned for any query regarding this quotation.
17. Department office order no. 01/PMC/vividh/931/2013/51 Patna date 17.01.2023 is to be applicable and shall be followed by Quotationer.

18. Technical Eligibility Criteria Bidders must furnish Certified proof of the following minimum credentials:-

Experience: Completed at least two similar projects involving drone- based LiDAR topography combined with hydrographic bathymetry over large rivers within the last 5 years.

Equipment Ownership/Lease: Proof of access to multi-return drone LiDAR payloads, dual- frequency GNSS systems, and certified echo-sounders.

Regulatory Clearances: Valid remote pilot licenses and necessary statutory clearances from the Directorate General of Civil Aviation (DGCA) And local administration for flying drones along the River Ganga corridor.

19. Earnest Money:

The Consultant shall furnish Earnest Money @ 2% (Rounded in hundred rupees on higher side) of the amount quoted by the firm which must be pledged in favour of Executive Engineer, Flood Control Division-1, Khagaria (named as Employer and Engineer in charge) and shall be in any of the following forms or as mentioned in the Bihar Financial Rules:

a. Indian Post office issued Term Deposit 3 Year duly endorsed by the competent Postal authority of Bihar. And Fixed Deposit Receipt of any Schedule Bank within the State of Bihar and it should be valid at least for six months after last date of receipt of NIQ.

b. Un-conditional Bank Guarantee issued from any schedule Indian Bank for the work amount costing more than 1 crore.

20. Amount equivalent to 10% (Ten Percent) of the Bill shall be deducted by the Executive Engineer, Flood Control Division-1, Khagaria and kept in department as security deposit from each running account bill. This will be released after 6 month Of completion and after process of final bill of the aforesaid survey work.

21. Corrigendum/Addendum/Correction if any will be published on the departmental website only. The undersigned reserves the right to cancel/extend the bid without any prior information or assigning any reason.

22. (i) This quotation in not transferable.

(ii) The agency shall make adequate arrangements for the safety of the personnel during execution of the work and the agency will be solely responsible for any accident/mishap if it occurs.

5/10/2026

Executive Engineer,
Flood Control Division-1, Khagaria

Letter No- 1291 /Khagaria, Date:- 05/10/2026

Copy:- Superintending Engineer, Flood Control Circle, Khagaria/Chief Engineer, Flood Control & Drainage, WRD, Samastipur for information and necessary action.

5/10/2026

Executive Engineer,
Flood Control Division-1, Khagaria

Letter No- 1291 /Khagaria, Date:- 05/10 /2026

Copy:- Public Relation Officer, WRD, Bihar, Patna for information and publication in newspaper & uploading detailed quotation notice on departments website.

5/10/2026

Executive Engineer,
Flood Control Division-1, Khagaria

Technical Note for Proposed 3 Ring Bunds

A) 2 ring bunds proposed near main River Ganga:

This is a very complex region to setup a morphological model and 2D hydrodynamic model. Even though the main river Ganga River is located far away from the proposed two ring bunds, but there are secondary spill channels along the proposed bunds which get inundated during the monsoon season. Hence the secondary spill channels, which might influence the hydrodynamics near the proposed ring bunds, is being proposed to be surveyed at 250m interval. However, the main channel of the Ganga River and rest of the secondary spill channel which is impacting the hydrodynamics near the proposed bunds, is being proposed to be surveyed at 500m interval. The map showing the data requirement is attached.

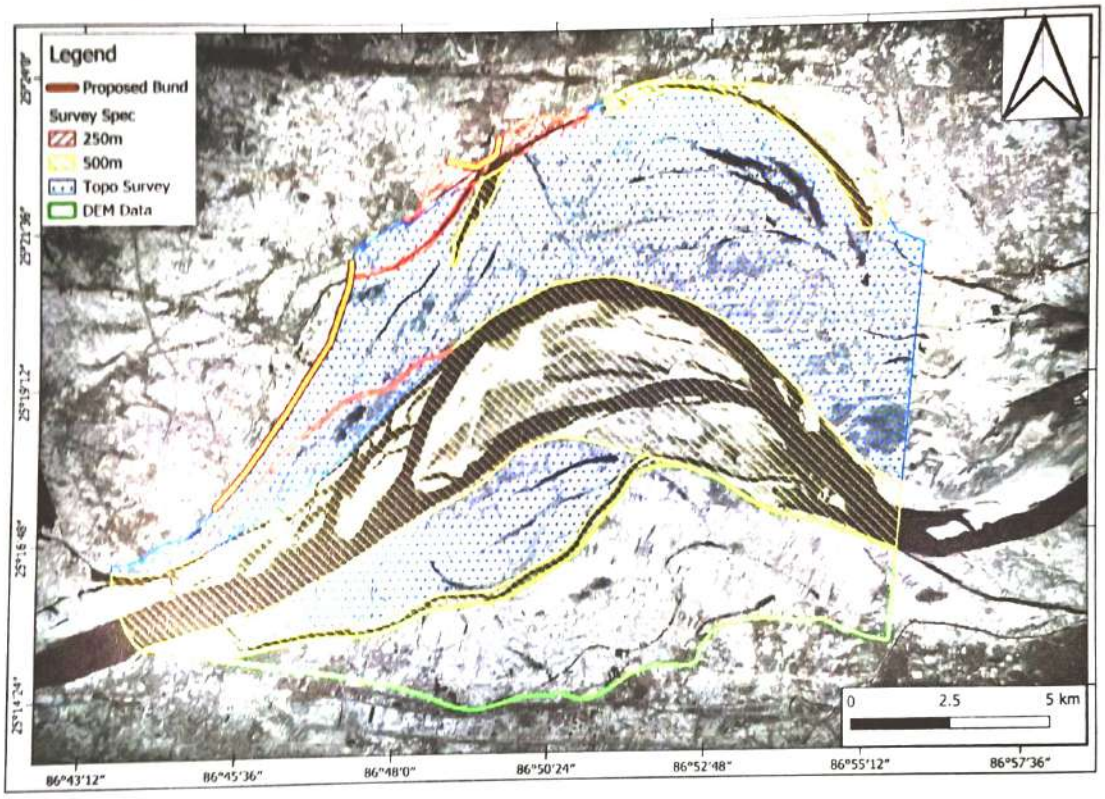


Fig. 1: Survey specification for prposed two ring bunds near River Ganga

Another important feature of the study is that, the main bund is being proposed over an active flood plain. Hence this active flood plain information is also required, where topographic survey would need to be carried out. However, if no data can be collected at that location at present, the DEM data could be used, but then the modelling accuracy would be compromised marginally. Finally, the floodplain which would have very minimal impact on the hydrodynamics near the proposed bund, would be directly taken from the DEM.

It is specifically highlighted that even though it may be possible to carry out the modelling studies on the basis of bathymetric survey of the main Ganga River and generate everything else from DEM data, but the modelling accuracy would be affected in that case. However, as the area of interest is located on the active floodplains, this option should be exercised as a last resort, only if the data collection of the secondary spill channels and the topo surveys are infeasible.

B) 1 ring bund proposed near River Burhi Gandak:

For the Ring Bund near Buri Gandhak, a separate model needs to be setup. The river here is pretty much attached to the proposed ring bund. The width of the Buri Gandhak River is also quite narrow and would therefore require a much finer model to resolve the hydraulic conditions of the river. Hence, a much finer data requirement for the region of interest is required. However, the total model length can be limited as compared to that of for the modelling study for 2 ring bunds near Ganga River (mentioned above), as the adaptation length of the model would be much shorter for the Buri Gandhak River. 100m interval bathymetric survey (about 3.75 km) has been proposed near the proposed bund. For the rest of the tentative model domain (about 7.2 km), bathymetric survey has been proposed at 200m interval.

Along with the bathymetric sections, the topographic data for this river with the same interval as the proposed bathymetric survey, within the attached polygon would be needed and the same procedure shall be adopted as suggested for the ring bunds near Ganga River. The .kmz file as well as a map showing the data requirement is attached.

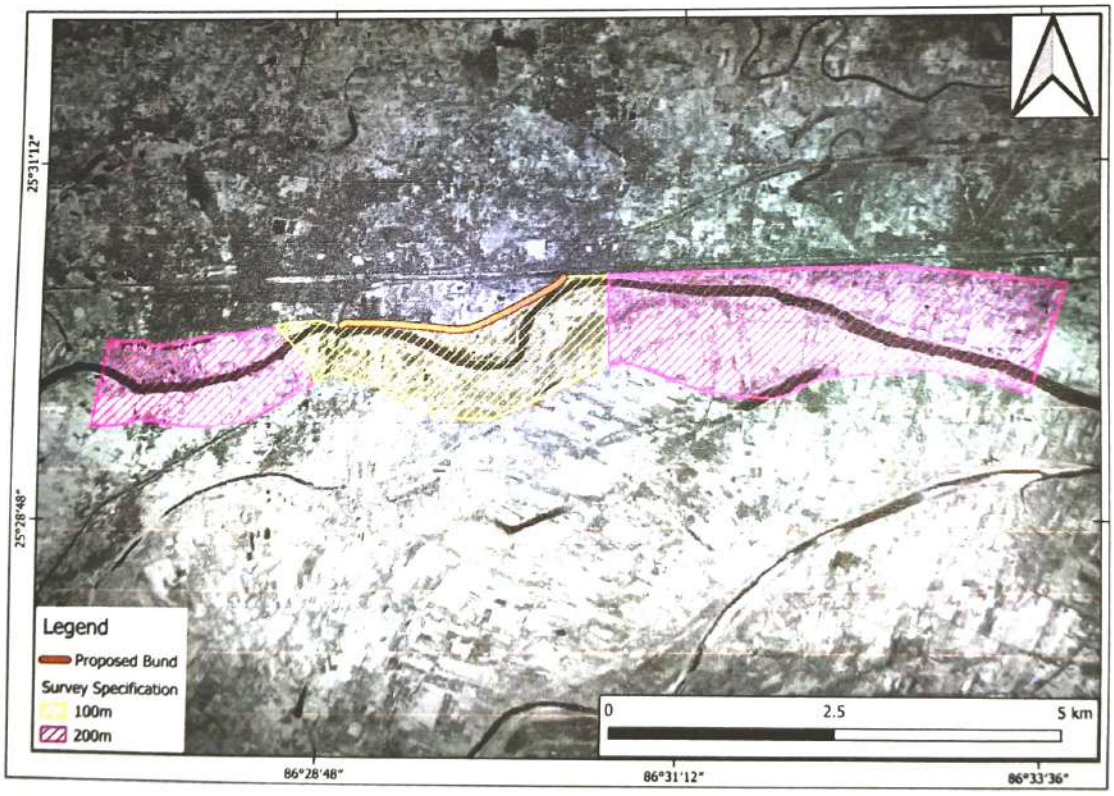


Fig. 2: Survey specification for proposed one ring bund near River Burhi Gandak