



सत्यमेव जयते

Government of West Bengal
Irrigation and Waterways Directorate
Alipurduar Irrigation Division
Alipurduar

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Memo. No. 31

Dated 05/01/2017

N.I.Q. NO.03 OF 2016-17 OF Executive Engineer, Alipurduar Irrigation Division

Sealed Quotation are invited from interested Agencies for the preparation of Comprehensive Management Plan and **Detail Project Report on Prevention of Erosion of Torsa River, Drinking Water & Related Issues in the area of Bhutan Foot Hills in Alipurduar District, West Bengal.**

Interested agencies may quote their rate both in words & figure within 20/01/2017 on or before 3.00 p.m. in the office of the undersigned, which will be opened on the same day at 4.00 p.m. in presence of officials or authorized representative of the agencies who remains present. Quotation must be submitted with self attested Xerox copy of PAN, Professional Tax, Trade license, VAT registration certificate, Experience certificate etc.

Please note that 1. The Agencies should have prior experience in executing DPRs related to Resource Management Works with the Govt. Departments. 2. The submitted Quotation should be under two heads (Technical & Financial). 3. Acceptance of Technical Quotation will only lead to the opening of the financial part. 4. Mapping part of the said project should be done using Remote Sensing –GIS-GPS Technology. 5. Latest Satellite Imageries / data should be procured by the agencies. 6. All the instruments to be used for the survey works should be provided by the agencies. 7. Time to time report should be submitted to the undersigned documenting the progress of work. 8. Prior intimation to be given by the agency if there is any delay regarding the execution of the work.

1. Duration of submission of the Report: Three months from the date of issuing of Approval

2. Geographical Area & Location:

SL. No.	Name of the Mouzas	District	Block	JL. No.	Police Station	Area in HA
1.	Dalsingpara Tea Garden (TG)	Alipurduar	Kalchini	23	Jaigaon	1982.20
2.	Torsa T.G.			24	--Do--	1347.40
3.	Mechiabasty			25	--Do--	198.30
4.	Gopimohan T.G.			26	--Do--	367.61
5.	Jaigaon			27	--Do--	167.89
6.	Chota Jaigaon			28	--Do--	40.21
		Total				4103.61

3. Scope of the work:

a. Map Preparation Part (Theme Maps to be prepared)

SL NO	THEME MAPS
1	Location Map of the Study area
2	High Resolution Satellite Image of the Present Study area
3	Multi Temporal Satellite Images for extracting the changing configuration of the landscape (1987-2016)
4	Slope Map of the area
5	Contour Map of the area
6	Present Detail Landuse Land cover Map (present scenario after ground truth verification)
7	Changing pattern of Landuse Land cover
8	Drainage & Waterbody Map
9	Infrastructure Map
10	Changing course of River Torsa over a period of time (1987 & 2016)
11	Proposed Action Plan Map
12	Present population status of 6 mouzas (4103 ha area)

b. Land Survey Part

SL NO.	PROPERTIES
1	Measuring the width of river Torsa at about 100m interval upto Dalsingpara
2	Depth of water of river Torsa at about 100m interval
3	Seasonal & Present Suspended sediment movement into river <i>Torsa</i> (Seasonal for last 3 years taking the information from line departments)
4	Distance between river bank and Natural Levee (interval of 200m apart)
5	Height of the Natural Levee from the Torsa river bank (interval of 200m apart)
6	Level of Maximum and Minimum water into the river Torsa (Seasonal for last 3 years taking the information from line departments)
7	Present location, length and width of the Bank Protection works along river Torsa
8	Collection of sediments from different pockets of Torsa river bank (both sides, (interval of 200m apart)
9	Collection of Soil samples from the Agricultural Land adjacent to the river Torsa (random samples of about 30 locations)
10	The other sources of water into the river Torsa (location)
11	Status of river Goburjitia: Flow of water, chocking at different sections, sources & location of wastes & quality of water
12	Landslide affected area (if any within the Geographical area)
13	Zone & occurrence of Flash flood (if any within the Geographical area)
14	Present Water level of Wells, Tube wells (about 30 nos. surrounding the area)
15	Quality of Drinking water (random collection of about 30 points)
16	Sources of Irrigation (location)
17	Ground Truth Verification of different Landuse Land cover units
18	Land ownership verification (consulting Cadastral maps)
19	Road Condition: Affected area (location)
20	Facility & Amenities assessment

c. Report Preparation Part

Considering the Thematic Map Preparation database and intense field survey a report has to be prepared containing and covering the following aspects:

- Identification of Physical Problems related to Torsa river bank erosion, Drinking water & Irrigation works.
- Identification of Socio-economic problems in details
- Identification of Zone of Problem areas (spatial areas)
- Identification of areas where future development plan can be executed (spatial areas)
- Identification of location or sites of river bank protection scheme
- Type and configuration of different land management schemes with structural drawings and estimated cost
- Methodology and source of Map preparation works
- Tabular and Statistical Representation of Map and Field based database
- GPS generated Co-ordinates for different locations / sites
- Four number of Hard copies with binding along with Soft copy CD (2 nos.) to be submitted.

The undersigned reserves the right to accept or reject any one or all the agencies without assigning any reason thereof.

Executive Engineer
Alipurduar Irrigation Division
Alipurduar

Memo. No. _____

Dated _____

Copy forwarded for information & necessary action to:

1. **Shri Mihir Goswami, Hon'ble Chairman of the Expert Committee ON Prevention of Erosion of Torsa River, Drinking Water & related issues in the area of Bhutan Foothills in Alipurduar District.**
2. **The Sabhadhipati, Alipurduar Zilla Parishad, Alipurduar & Member Secretary of the said Committee**
3. **The Deputy Secretary, Works-I, Irrigation and Waterways Department, Jalasampad Bhawan , Salt Lake, Kolkata- 91**
4. **The Chief Engineer, North East, Irrigation & Waterways Directorate & Member Secretary of the said Committee, Club Road, Jalpaiguri.**
5. **The Superintending Engineer, North East Irrigation Circle-I, Debibari, Cooch-Behar**
6. **The Executive Engineer, D.V.C Study Cell, Jalasampad Bhawan , Kolkata-91. He is requested to publish the same in the Departmental Website.**
7. **The Senior Divisional Accounts Officer, Alipurduar Irrigation Division**

Executive Engineer
Alipurduar Irrigation Division
Alipurduar