



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

Phone & Fax-03564-255305  
e-mail Id: [eeapdid@gmail.com](mailto:eeapdid@gmail.com)

Memo. No-

Dated -

**N.I.Q. NO.05 OF 2016-17 OF Executive Engineer, Alipurduar Irrigation Division**

Sealed quotation in plain paper as per annexure-I are hereby invited by the undersigned for the following work from the bonafide agencies having experience in such type of works which will be received up to 3.00 p.m. on 17.03.17 and the same will be opened at 3.30 p.m. on same day in presence of the participating agencies who will present at the time.

**Name of the work- Comprehensive management plan and details project report on prevention of erosion of river Torsa, exploration of drinking water sources in the Bhutan foot hills & related issues in the area of Dalsingpara T.G. within Kalchini block in P.S. Kalchini Dist. Alipurduar.**

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. Mapping part of the said project should be done using Remote Sensing –GIS-GPS Technology.
3. Latest Satellite Imageries / data should be procured by the agencies.
3. All the instruments to be used for the survey works should be provided by the agencies.
4. Time to time report should be submitted to the undersigned documenting the progress of work.
6. 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
					<b>Total</b>	<b>1982.20</b>

**3. Scope of the work:**



Scope of the work:

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 1 mouza (1982.20 ha area)

b. Land Survey Part

SL NO.	PROPERTIES
1	Measuring the width of river Torsa at about 100m interval.
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



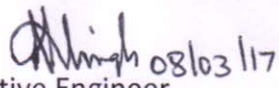
### Report Preparation Part

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, exploration of drinking water sources in the Bhutan foot hills & 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 intending quotationers will have to quote their rates both in figure & word for the specified item of work in accordance with the specification, terms & conditions given above. The acceptance of the quotation will rest upon the competency of the Superintending Engineer, North East Irrigation Circle-I, Debibari, Coochbehar.

The lowest quotationer whose quotation is accepted will have to execute an agreement in triplicate with the undersigned in W.B. Form No-2911(i) of the accepting the terms and conditions.

  
Executive Engineer  
Alipurduar Irrigation Division  
Alipurduar

## Annexure-I

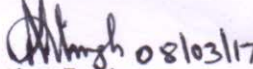
Description of item	Qty	Unit	Rate including all taxes (If any)	Amount including all taxes (If any)
Map preparation part at Dalsingpara T.G.	1982.20 Hectare	Hectare		
Field survey part at Dalsingpara T.G.	1982.20 Hectare	Hectare		
3 Report preparation part at Dalsingpara T.G.	1 item	Item		
			Total	

*Alipurduar* 03/03/17  
Executive Engineer  
Alipurduar Irrigation Division  
Alipurduar

## Forwarded for information &amp; necessary action to:

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, Jalsampad 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-Bihar
6. The Executive Engineer, D.V.C Study Cell, Jalsampad Bhawan , Kolkata-91. He is requested to publish the same in the Departmental Website.
- 7-9. S.D.O, Alipurduar/ Kamakhyaguri Sub-Division and Alipurduar Investigation Sub-Division.
10. The Senior Divisional Accounts Officer, Alipurduar Irrigation Division

  
Executive Engineer  
Alipurduar Irrigation Division  
Alipurduar