



**URBAN DEVELOPMENT DIRECTORATE (UDD)  
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH**



**Mobilization Report  
on**

**Package-1:**

**Establishment of BM Pillars, Landuse & Topographic Survey of 313421 Acre Area in Galachipa & Rangabali Upazila Under Patuakhali District for Payra Kuakata Comprehensive Plan focusing Eco tourism.**

**September 2018**

**Consultant:**



[www.geomarkbd.com](http://www.geomarkbd.com)

**GEOMARK  
LIMITED**

**House 33 Road-12,  
Pisciculture Housing Society,  
Mohammadpur, Dhaka-1207  
Phone :8801716291050,  
[geomarkbd@gmail.com](mailto:geomarkbd@gmail.com)**

## TABLE OF CONTENTS

Contents No	Page
Consultant: .....	0
Package-1: .....	0
CHAPTER ONE .....	2
1. INTRODUCTION .....	2
1.1 Background .....	2
1.2 Description of the Project Area.....	3
1.2 The executing agency .....	5
1.3 The Consultant .....	5
CHAPTER TWO .....	8
2. MOBILIZATION AND ORIENTATION.....	8
2.1 Consultant's Organization .....	8
2.2 Mobilization of The Consultant's Team .....	9
2.3 INITIAL MEETINGS.....	11
2.3.1 Work Schedule.....	11
2.3.4 Inception Report Preparation .....	11
2.3.5 Survey Activities:.....	11
CHAPTER THREE .....	13
3. WORK PROGRAM.....	13
3.1 Overview .....	13
3.2 Work Plan: .....	13
3.4 Reconnaissance survey and activity.....	15
CHAPTER FOUR.....	16
4. CONCLUSION.....	16

## CHAPTER ONE

### 1. INTRODUCTION

#### 1.1 Background

Kuakata a scenic sea beach on the south of Bangladesh. The most important attraction of the beach is that one can see both sunrise and sunset from some of its locations. Situated 320 km from Dhaka and 70 km from the Patuakhali district headquarters, Kuakata is part of Latachapli and Dhulasar unions of Kalapara upazila. On the other hand, Amtali upazila of Barguna zila is on the way to Kuakata from Barisal. The only highway towards Kuakata from Barisal is running through Amtali upazila. Due to the reason, both Kalapara and Amtali upazila have been undertaken for “Payra-Kuakata Comprehensive Master Plan Focusing on Eco-Tourism” to develop tourism in the area in an integrated and comprehensive manner on a regional planning concept. The best way to reach Kuakata from Dhaka is to first travel to BARISAL by road, water, or air, and then to take the bus or boat/launch for the destination. The Bangladesh Road Transport Corporation introduced a direct bus service from Dhaka to Kuakata via Barisal. Besides, on the west of Kuakata, there is a reserve forest, Fatrar Char by name, which is part of Sundarbans and is a unique location for tourism development. Sonar char of Rangabali upazila is also a place of panoramic beauty. There is ample opportunity for tourism development in the area. Moreover, Payra Bandar, the third sea port is going to establish at Ravnabad Channel near Kuakata, which would act as catalyst for radical change in the overall urbanization in the area.

The project would be prepared on a regional development perspective considering the Kuakata sea beach region as a part of whole of Kalapara, Amtali, Taltali and Patharghata upazila. Amtali upazila would also be included in the development planning package since its location is strategically important from the regional context because Amtali upazila is situated on the way to Barisal-Kuakata highway as the highway runs through Amtali upazila.

Taltali and Pathargatha upazila is situated within the same ecological region with that of Kalapara and Amtali upazila. Besides Sonar char is located within Rangabali upazila, which was further a part of east while Galachipa upazila. Hence, Galachipa and Rangabali upazila are also included within the project area, to prepare the Eco Tourism Development Plan for Payra Kuakata Coastal Region in an integrated and Comprehensive development planning context.

Furthermore, the third sea port has been established at Kalapara upazila. This huge establishment would change existing land use pattern of the region abruptly. To forecast such probable changes in existing land use pattern, and to accommodate such massive

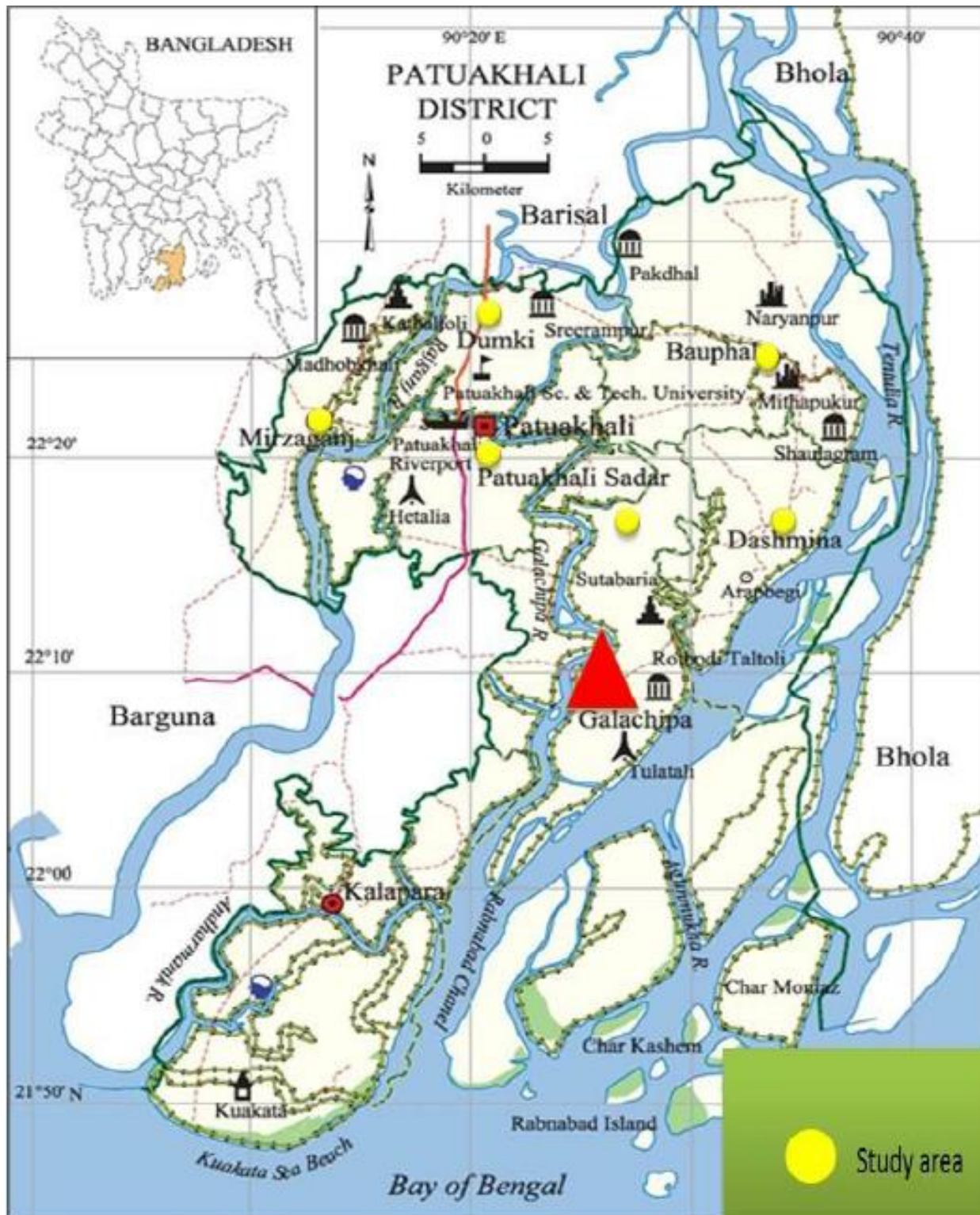
establishment and its related changes in existing land use pattern of the region, this development planning package is essential. The proposed project would also attempt to address the issue of impact of climate and would make recommendation on the possible adaptation strategies.

## 1.2 Description of the Project Area

This package (Galachipa Upazila-Including Rangabali Upazila) area is under Payra-Kuakata Comprehensive Plan Focusing on Eco-Tourism. The Total Study Area Kuakata a scenic sea beach on the south of Bangladesh. The most important attraction of the beach is that one can see both sunrise and sunset from some of its locations. Situated 320 km from Dhaka and 70 km from the Patuakhali district headquarters, Kuakata is part of Latachapli and Dhulasar unions of Kalapara upazila. On the other hand, Amtali upazila of Barguna zila is on the way to Kuakata from Barisal. The only highway towards Kuakata from Barisal is running through Amtali upazila. Due to the reason, both Kalapara and Amtali upazila have been undertaken for “Payra-Kuakata Comprehensive Master Plan Focusing on Eco-Tourism” to develop tourism in the area in an integrated and comprehensive manner on a regional planning concept. The best way to reach Kuakata from Dhaka is to first travel to Barisal by road, water, or air, and then to take the bus or boat/launch for the destination. The Bangladesh Road Transport Corporation introduced a direct bus service from Dhaka to Kuakata via Barisal. Besides, on the west of Kuakata, there is a reserve forest, Fatrar Char by name, which is part of Sundarbans and is a unique location for tourism development. Sonar char of Rangabali upazila is also a place of panoramic beauty. There is ample opportunity for tourism development in the area. Moreover, Payra Bandar, the third sea port is going to establish at Ravnabad Channel near Kuakata, which would act as catalyst for radical change in the overall urbanization in the area.

**Project Area:** The project Area Galachipa and Rangabali Upazila, Patuakhali District (1268.37 Sq. km) and Establishment of BM Pillars, Landuse & Topographic Survey of 313421 Acre Area in Galachipa & Rangabali Upazila Under Patuakhali District for Payara Kuakata Comprehensive Plan focusing Eco tourism (PKCP)





## **1.2 The executing agency**

Urban Development Directorate (UDD) was established through a government order in 17th July 1965. This directorate is working under the Ministry of Housing and Public Works. Since its inception, UDD is contributing in developing Master Plan/Land Use Plan for small, medium and large town and cities of Bangladesh. Thus, it is contributing in development of the localities and lifestyle of peoples of Bangladesh in direct and indirect ways.

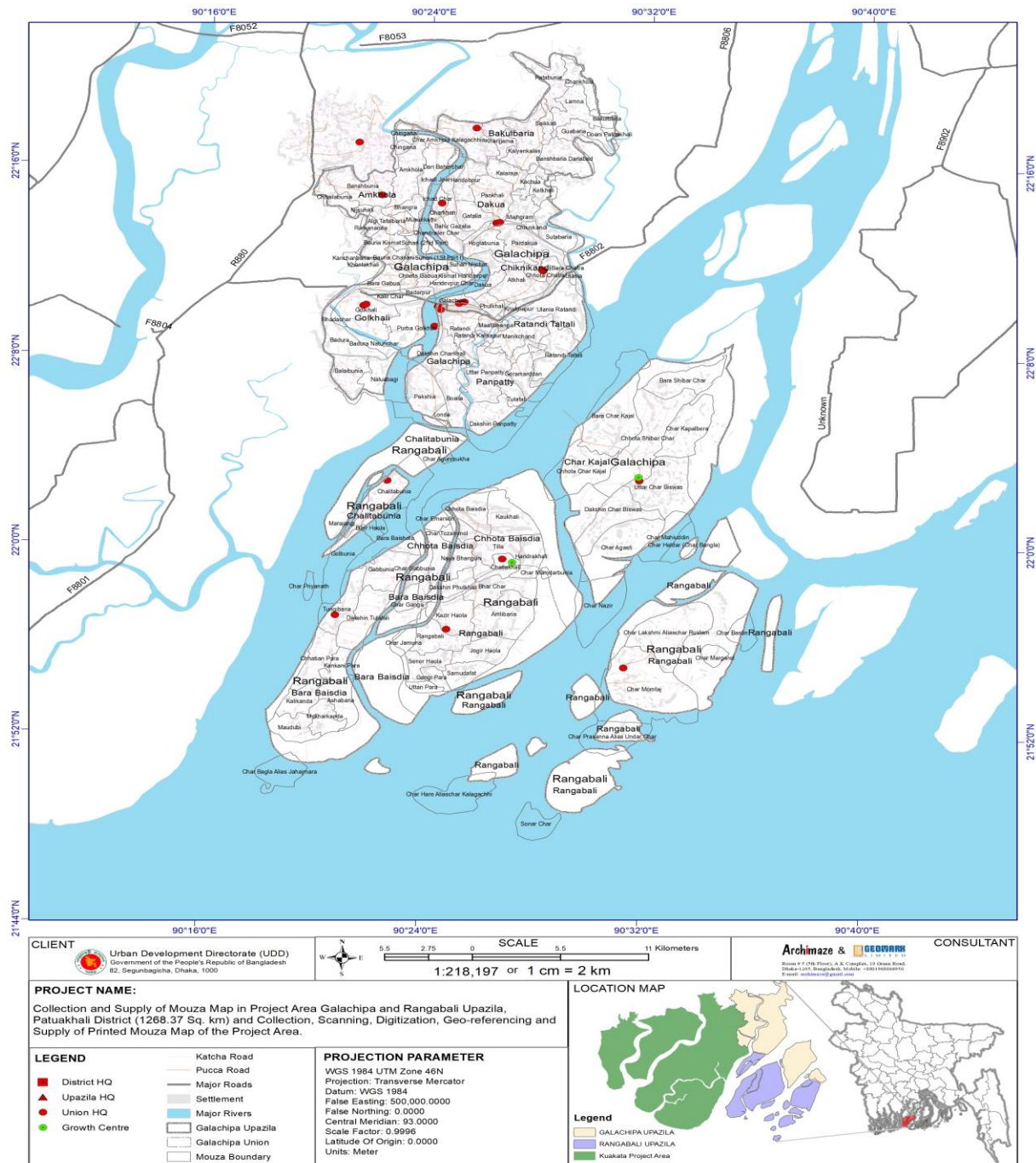
Vision of UDD is to augment the quality of life of the people by improving the environment through planned development activities for adequate infrastructure, services and utility provision, to make optimum utilization of resources especially land and to ensure a geographically balance urbanization. It also aims to reduce local and regional disparity by alleviating poverty and to create good governance in the country through people participation and empowering of woman. Urban Development Directorate would welcome any co-operation, assistance and patronage from national and international quarters.

## **1.3 The Consultant**

GEOMARK LIMITED - having expertise on Physical Feature Survey and Scanning of Mouza Map, Digitization, Editing, Printing etc.

## Mobilisation Report on

### Establishment of BM Pillars, Landuse & Topographic Survey of 313421 Acre Area in Galachipa & Rangabali Upazila Under Patuakhali District for Payara Kuakata Comprehensive Plan focusing Eco tourism (PKCP)



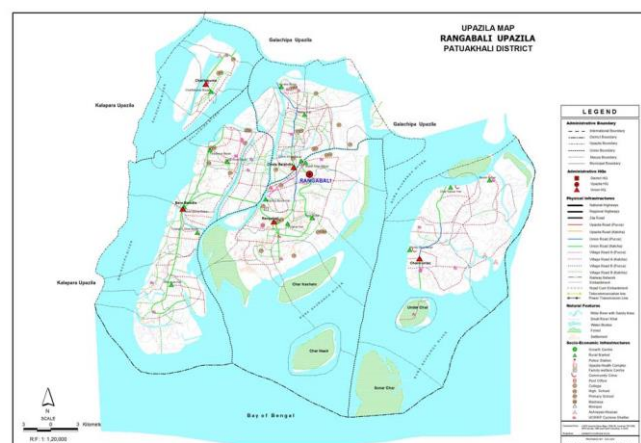
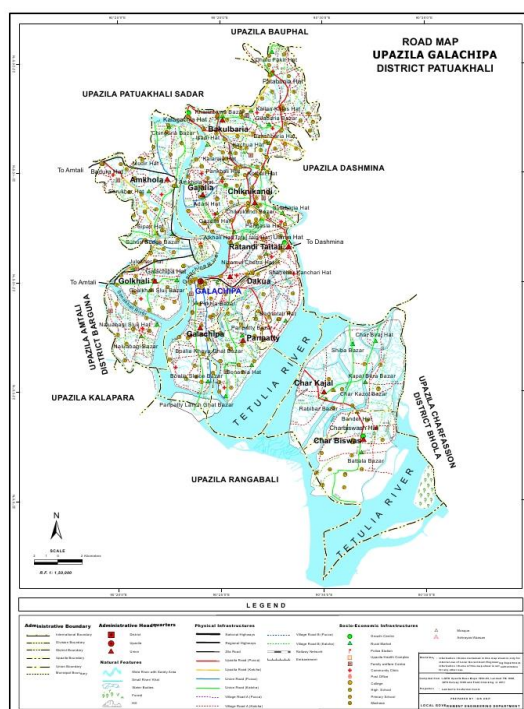
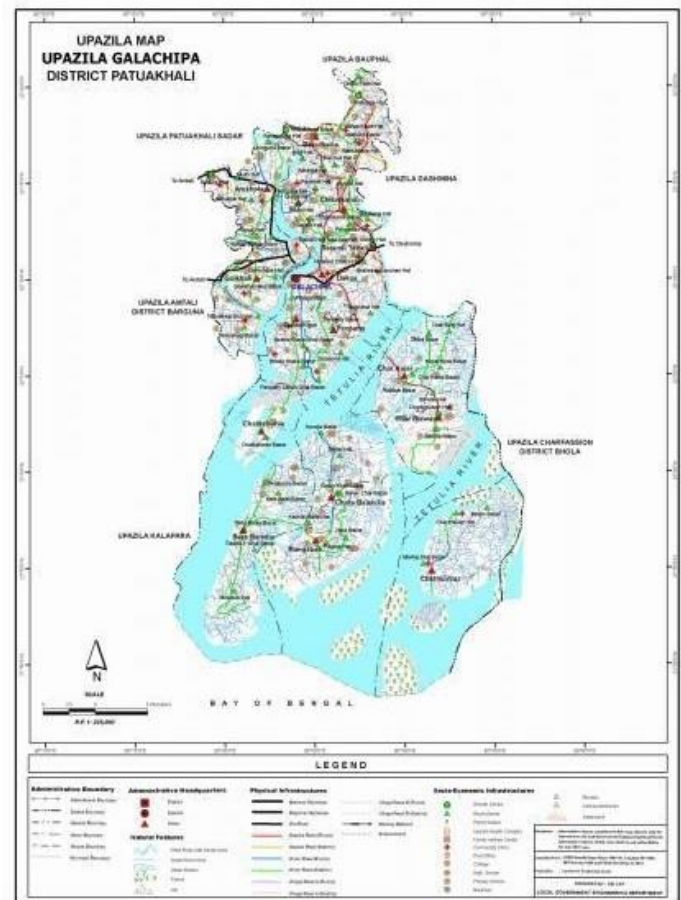
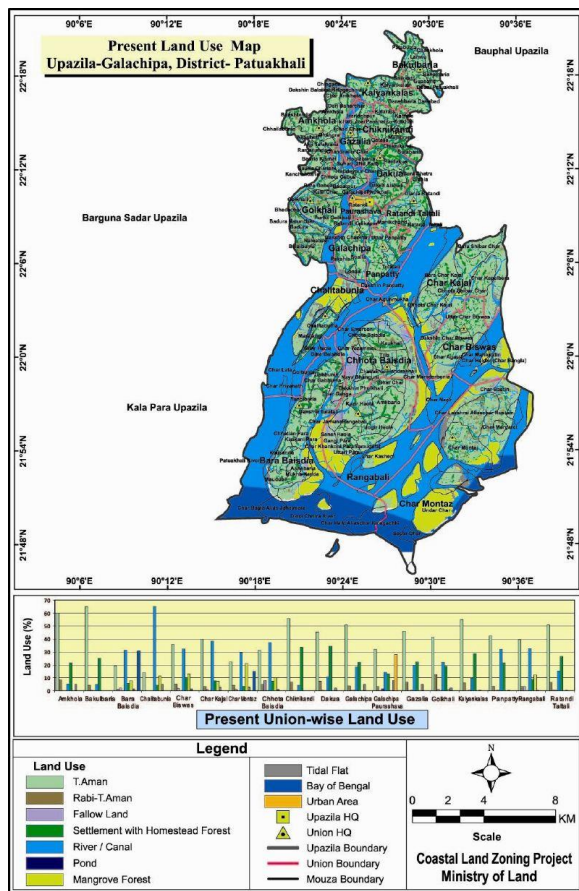
Source: Map Source: GIS section, GEOMARK Ltd.



## Mobilisation Report on

### Establishment of BM Pillars, Landuse & Topographic Survey of 313421 Acre Area in Galachipa & Rangabali Upazila Under Patuakhali District for Payara Kuakata Comprehensive Plan focusing Eco tourism (PKCP)

we've collected some maps from different media as bellow,





## CHAPTER TWO

### 2. MOBILIZATION AND ORIENTATION

#### 2.1 Consultant's Organization

**Geomark Ltd.** is brand with specific focus to the emerging IT Enabled Services (ITES) specializing in the geospatial applications including consultancy on engineering & Architectural Design, Drawing, Supervision, planning GIS, LIS, MIS, AM/FM, processing of remote sensing data, digital mapping/surveying using GPS, geo-spatial and textual data conversion, application software and web page/solutions development and so forth. Apart from ITES, provides professional consulting services particularly for undertaking research and development studies/projects covering and not limited to land, natural resources, environment, urban/real estate development, infrastructure development, institution and organization studies, land related legislation study, human resources development studies, general education related studies, and so forth.

The agreement between Urban Development Directorate (UDD) and consultant Geomark Ltd.-has been held on 21<sup>st</sup> June, 2018 for Package-1.



Photograph: Patuakhali to Galachipa Road and starting point project area Shakharia mor

## 2.2 Mobilization of The Consultant's Team

The contract signed on 21<sup>st</sup> June, 2018 for Package-1, the Joint team of the Geomark- has initiated their project activities with immediate action. A progress line-up from the consulting team is being reported here on different components of work:

Mr. ANM Safiqul Alam Managing Director, GEOMARK, meet with PMO office Barisal Zone about some issue like questionnaire design, software platform design etc.



Pic: Meeting with Project Manager, Barisal Office



### Establishment of BM Pillars, Landuse & Topographic Survey of 313421 Acre Area in Galachipa & Rangabali Upazila Under Patuakhali District for Payara Kuakata Comprehensive Plan focusing Eco tourism (PKCP)

### 2.3.1 Work Schedule

•

For inception report preparation it has scheduled to submit within 1 week of the inception report.

Table: Land use survey attribute log sheet

# PHYSICAL FEATURE & LAND USE INFORMATION LOG SHEET

Mirchakal Upazila Development Plan (MUDP)  
Urban Development Directorate (UDD)  
Consultants: Geomark Ltd. and Tiller

Structure ID	Owner Name	Ward/Village	Structure Name	Building Number	Structure Type (Permit Number if Govt, Industrial, Residential, Religious)	Structure Construction Year	Floor Number	Structure Use (Current Use)				FEMA										Number of Apartments (Total)	Household Number (Total Household)	Gas (1) Pipeline, 2) Cylinder, 3) Not a Function	Source of Drinking Water (1) Overhead tank, 2) Bore, 3) Well, 4) Canal, 5) Other, 6) Other	Other (1) Well, 2) Canal, 3) Other, 4) Other	Ridge (1) Ridge, 2) Ridge, 3) Ridge, 4) Ridge, 5) Ridge, 6) Ridge	Grid No:	Survey date:	Surveyor Name:
								Residential	Commercial	Industrial	Other	Structure Design Number	Structure Class (1) 1m, 2) 2m, 3) 3m, 4) 4m, 5) 5m, 6) 6m, 7) 7m, 8) 8m, 9) 9m, 10) 10m, 11) 11m, 12) 12m, 13) 13m, 14) 14m, 15) 15m, 16) 16m, 17) 17m, 18) 18m, 19) 19m, 20) 20m, 21) 21m, 22) 22m, 23) 23m, 24) 24m, 25) 25m, 26) 26m, 27) 27m, 28) 28m, 29) 29m, 30) 30m, 31) 31m, 32) 32m, 33) 33m, 34) 34m, 35) 35m, 36) 36m, 37) 37m, 38) 38m, 39) 39m, 40) 40m, 41) 41m, 42) 42m, 43) 43m, 44) 44m, 45) 45m, 46) 46m, 47) 47m, 48) 48m, 49) 49m, 50) 50m, 51) 51m, 52) 52m, 53) 53m, 54) 54m, 55) 55m, 56) 56m, 57) 57m, 58) 58m, 59) 59m, 60) 60m, 61) 61m, 62) 62m, 63) 63m, 64) 64m, 65) 65m, 66) 66m, 67) 67m, 68) 68m, 69) 69m, 70) 70m, 71) 71m, 72) 72m, 73) 73m, 74) 74m, 75) 75m, 76) 76m, 77) 77m, 78) 78m, 79) 79m, 80) 80m, 81) 81m, 82) 82m, 83) 83m, 84) 84m, 85) 85m, 86) 86m, 87) 87m, 88) 88m, 89) 89m, 90) 90m, 91) 91m, 92) 92m, 93) 93m, 94) 94m, 95) 95m, 96) 96m, 97) 97m, 98) 98m, 99) 99m, 100) 100m, 101) 101m, 102) 102m, 103) 103m, 104) 104m, 105) 105m, 106) 106m, 107) 107m, 108) 108m, 109) 109m, 110) 110m, 111) 111m, 112) 112m, 113) 113m, 114) 114m, 115) 115m, 116) 116m, 117) 117m, 118) 118m, 119) 119m, 120) 120m, 121) 121m, 122) 122m, 123) 123m, 124) 124m, 125) 125m, 126) 126m, 127) 127m, 128) 128m, 129) 129m, 130) 130m, 131) 131m, 132) 132m, 133) 133m, 134) 134m, 135) 135m, 136) 136m, 137) 137m, 138) 138m, 139) 139m, 140) 140m, 141) 141m, 142) 142m, 143) 143m, 144) 144m, 145) 145m, 146) 146m, 147) 147m, 148) 148m, 149) 149m, 150) 150m, 151) 151m, 152) 152m, 153) 153m, 154) 154m, 155) 155m, 156) 156m, 157) 157m, 158) 158m, 159) 159m, 160) 160m, 161) 161m, 162) 162m, 163) 163m, 164) 164m, 165) 165m, 166) 166m, 167) 167m, 168) 168m, 169) 169m, 170) 170m, 171) 171m, 172) 172m, 173) 173m, 174) 174m, 175) 175m, 176) 176m, 177) 177m, 178) 178m, 179) 179m, 180) 180m, 181) 181m, 182) 182m, 183) 183m, 184) 184m, 185) 185m, 186) 186m, 187) 187m, 188) 188m, 189) 189m, 190) 190m, 191) 191m, 192) 192m, 193) 193m, 194) 194m, 195) 195m, 196) 196m, 197) 197m, 198) 198m, 199) 199m, 200) 200m, 201) 201m, 202) 202m, 203) 203m, 204) 204m, 205) 205m, 206) 206m, 207) 207m, 208) 208m, 209) 209m, 210) 210m, 211) 211m, 212) 212m, 213) 213m, 214) 214m, 215) 215m, 216) 216m, 217) 217m, 218) 218m, 219) 219m, 220) 220m, 221) 221m, 222) 222m, 223) 223m, 224) 224m, 225) 225m, 226) 226m, 227) 227m, 228) 228m, 229) 229m, 230) 230m, 231) 231m, 232) 232m, 233) 233m, 234) 234m, 235) 235m, 236) 236m, 237) 237m, 238) 238m, 239) 239m, 240) 240m, 241) 241m, 242) 242m, 243) 243m, 244) 244m, 245) 245m, 246) 246m, 247) 247m, 248) 248m, 249) 249m, 250) 250m, 251) 251m, 252) 252m, 253) 253m, 254) 254m, 255) 255m, 256) 256m, 257) 257m, 258) 258m, 259) 259m, 260) 260m, 261) 261m, 262) 262m, 263) 263m, 264) 264m, 265) 265m, 266) 266m, 267) 267m, 268) 268m, 269) 269m, 270) 270m, 271) 271m, 272) 272m, 273) 273m, 274) 274m, 275) 275m, 276) 276m, 277) 277m, 278) 278m, 279) 279m, 280) 280m, 281) 281m, 282) 282m, 283) 283m, 284) 284m, 285) 285m, 286) 286m, 287) 287m, 288) 288m, 289) 289m, 290) 290m, 291) 291m, 292) 292m, 293) 293m, 294) 294m, 295) 295m, 296) 296m, 297) 297m, 298) 298m, 299) 299m, 300) 300m, 301) 301m, 302) 302m, 303) 303m, 304) 304m, 305) 305m, 306) 306m, 307) 307m, 308) 308m, 309) 309m, 310) 310m, 311) 311m, 312) 312m, 313) 313m, 314) 314m, 315) 315m, 316) 316m, 317) 317m, 318) 318m, 319) 319m, 320) 320m, 321) 321m, 322) 322m, 323) 323m, 324) 324m, 325) 325m, 326) 326m, 327) 327m, 328) 328m, 329) 329m, 330) 330m, 331) 331m, 332) 332m, 333) 333m, 334) 334m, 335) 335m, 336) 336m, 337) 337m, 338) 338m, 339) 339m, 340) 340m, 341) 341m, 342) 342m,																	



We are preparing the data information structure which would be collected from field ground truthing. The following table is showing different types of physical features with proper illustration.

Table: Physical feature illustrated.

Physical Infrastructure Survey		
	Physical features	Illustrated
a.	River	Indicate alignment, direction of flow & width
b.	Khal	Indicate alignment, direction & width
c.	Drainage Channels	Natural and improved (with flow direction & width)
d.	Ponds/Tanks/Ditches	Indicate them
e.	Marshlands/Flood Prone Area	Land liable to flooding during monsoon
f.	Building / Structures	Pucca / semi pucca structures & storey
g.	Roads	Pucca/HBB/Kutchra, earth etc.
h.	Bus/Trucks Terminals	Indicate right of way and any areas that are covered by the electricity system.
i.	Flood Works	Embankments, pumps stations, sluice gates length, width, condition of abutments and wing-walls.
j.	Bridge / Culverts	Indicate location, covered area, type of structure
k.	Utility Mains and Row	Electric, gas and telephone etc.
l.	Utility Substations	Electric, Water works, waste disposal and treatment, gas, telephone line etc.
m.	Deep Tube well Stations	R.C.C. DPHE and other deep tube well stations and output
n.	Mauza, Union/Ward, Thana and District Boundary	Administrative boundaries

## CHAPTER THREE

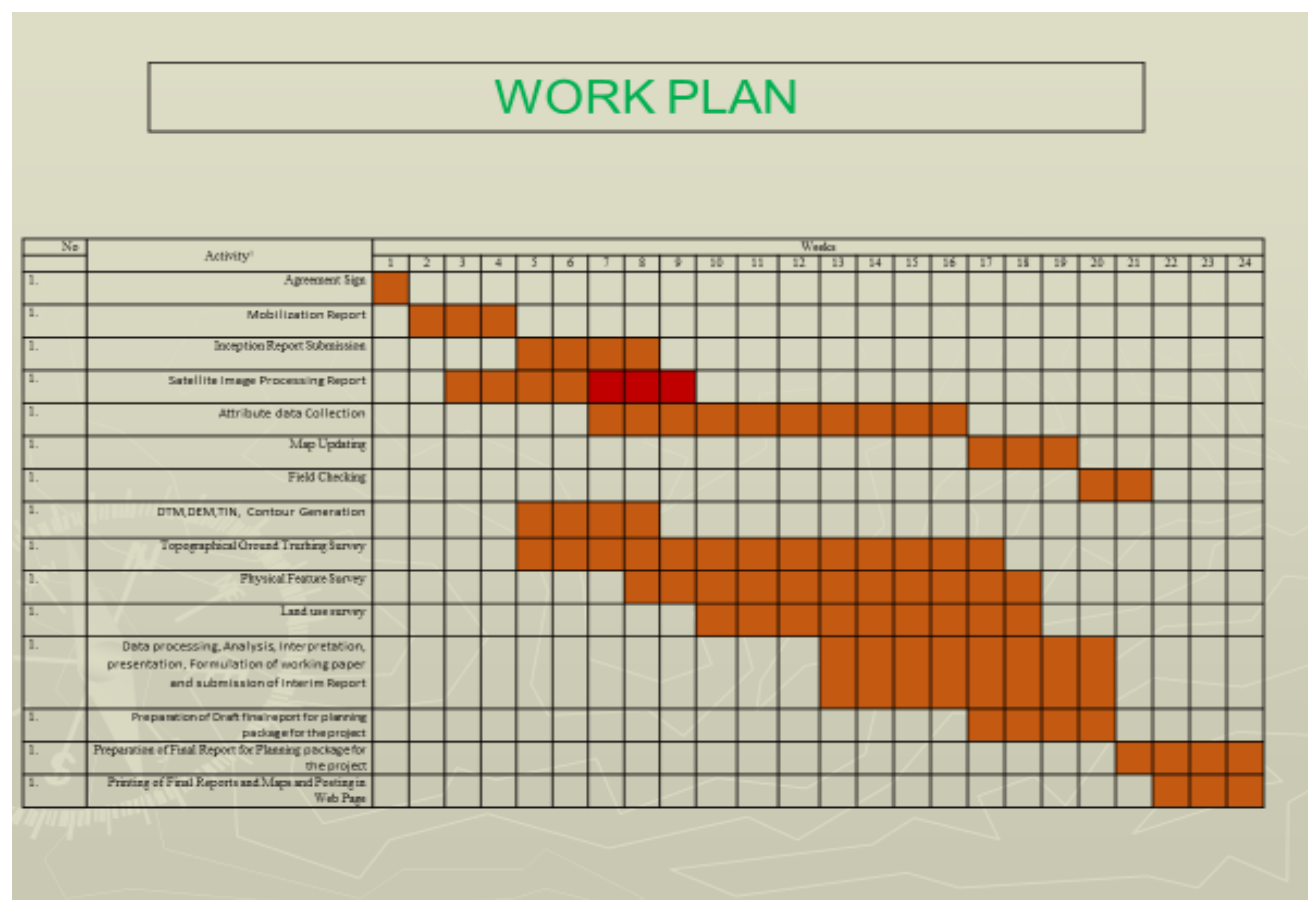
### 3. WORK PROGRAM

#### 3.1 Overview

The consultancy service would commence with the debriefing meeting. This meeting would help the consultant team to introduce themselves to the Counterpart with UDD, and would facilitate to delivery better working relation during the project works in performing the reconnaissance survey of MUDP project area. At the meeting the team would get in in-depth overviews of the relevant materials that MUDP have in their possession and share their experience in preparation an exhaustive list of collection of documents and drawings to be reviewed.

#### 3.2 Work Plan:

Table: Tentative work plan to complete the project.



## Mobilisation Report on

Establishment of BM Pillars, Landuse & Topographic Survey of 313421 Acre Area in Galachipa & Rangabali Upazila Under Patuakhali District for Payara Kuakata Comprehensive Plan focusing Eco tourism (PKCP)



Photograph: Galachipa Rural Road and Galachipa launch ghat

### Team Experience Matrix

Position	Name	Education	Certification/ Diploma	Total Experience (years)
Coordinator	ANM Safiquil Alam	M. Phil in Geography	Yes	15
Survey Expert	Sheikh Yunus Ali	Diploma in Surveying and Bachelor in Civil Engineering	Yes	20
GIS expert	Md. Shahab Uddin	Master of Science in Geography & Environment, Jahangir Nagar University	Yes	12
Photogrammetric Expert	Sazid Ibna Zaman	Msc. in Geo Informatics, Dhaka University	Yes	8
Surveyor	Md. Jamal	Diploma in Surveying, Survey Polytechnic Institute Comilla	Yes	15
Surveyor	Md. Ibrahim Hossain	Diploma in Surveying, Barisal Polytechnic Institute	Yes	8
Surveyor	Md. Anis Hossain	Diploma in Surveying, Survey Polytechnic Institute Comilla	Yes	5
Surveyor	Md. Sarowar	Diploma in Surveying, Survey Polytechnic Institute Comilla	Yes	6
Surveyor	Abul Malek	Diploma in CSE, Magura Polytechnic Institute	Yes	4

### 3.3 Team composition

3.4 Key personal for this project:

ANM Safiqul Alam , Managing Director, GEOMAR LIITED

#### 3.4 Reconnaissance survey and activity.

In a meeting between Project Director (PD) and Project manager (PM) with the consultants on 8<sup>th</sup> July.

#### Team Member of the reconnaissance survey.

- a. ANM Safiqul Alam (Shaheen), Managing Director, Geomark Ltd.
- b. Md. Nahidul Islam
- c. Howlader Nazmul Huda, Planner
- d. Imran Hossain, Surveyor



Photograph: Reconnaissance survey



## **CHAPTER FOUR**

### **4. CONCLUSION**

This report is part of the project activities and progress of work. This will guide the future activities including field surveys, data collection, analysis, report preparation and map production. The primary profile of the project area based on secondary source and collection of data has been useful in understanding the characteristics of the project area.