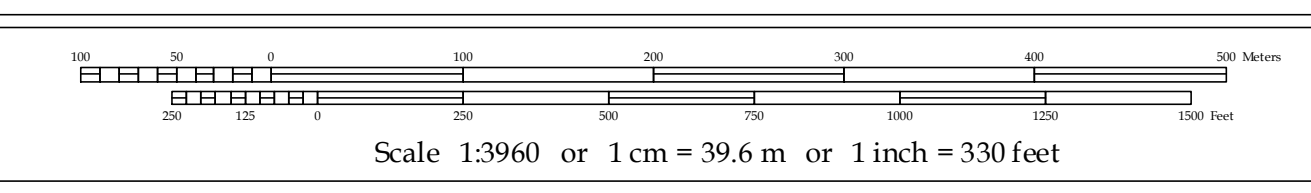


**CONSULTANTS**

**Development Design Consultants Limited**  
DDC Center, 47 Mohakhali C/A, Dhaka-1212, Bangladesh

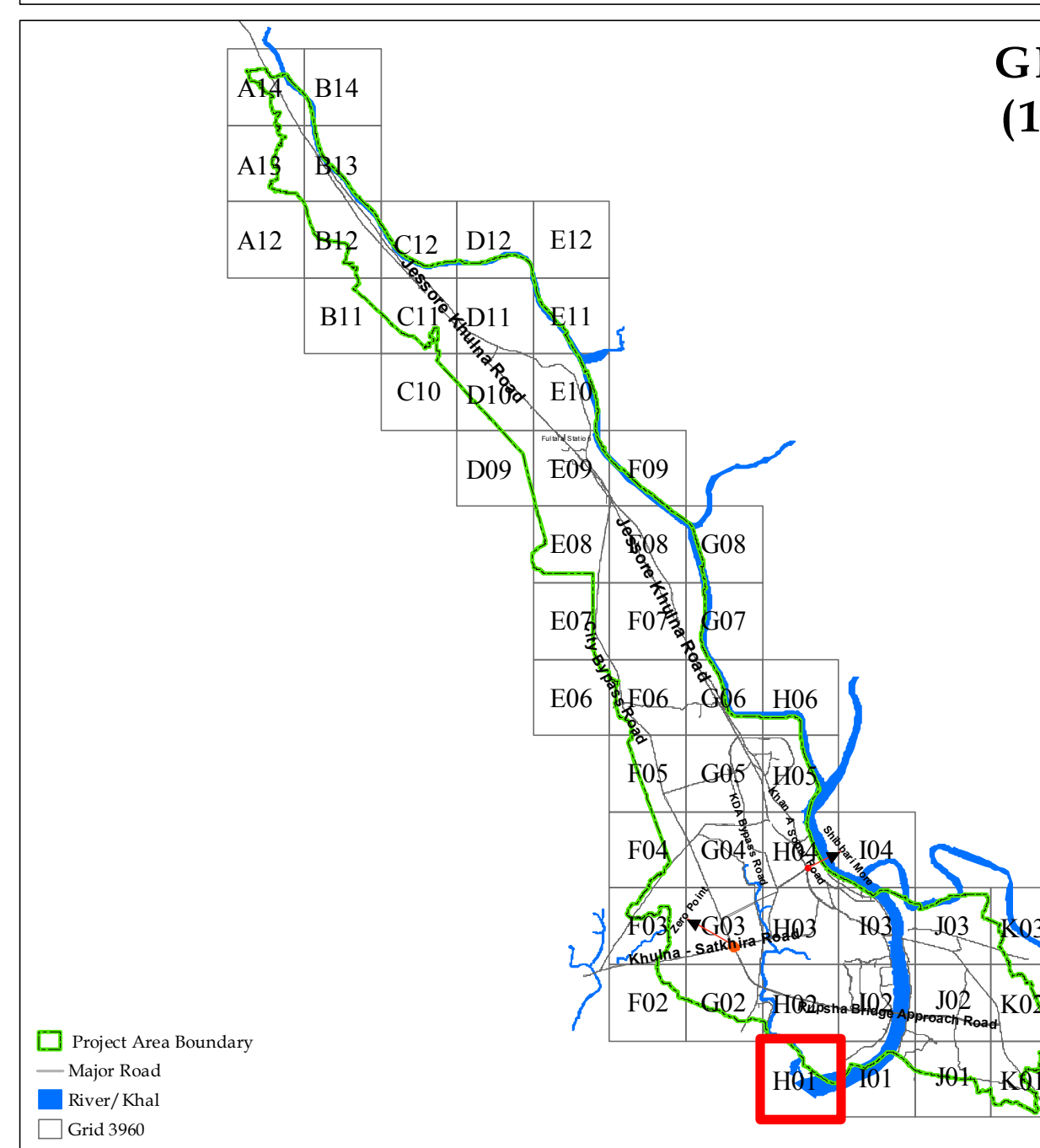
**Data Experts (Pvt.) Limited**  
House No. 25/3, Road No. 15 (Old 29), Shammendi  
Dhaka 1209, Bangladesh.

## Preparation of Detailed Area Development Plan for Khulna Master Plan (2001) Area Khulna, Bangladesh



Government of the People's Republic of Bangladesh  
Ministry of Housing and Public Works

**KHULNA DEVELOPMENT AUTHORITY (KDA)**  
KDA Bhaban, Khulna, Bangladesh



<ul style="list-style-type: none"> <li>Study Area Boundary</li> <li>District Boundary</li> <li>Upazila Boundary</li> <li>Union Boundary</li> <li>City Corporation/Paurashava Boundary</li> <li>Ward Boundary</li> <li>Proposed Metro Rail</li> <li>Proposed Tramline</li> <li>Proposed Tunnel</li> <li>Plot Boundary (from Mouza Map)</li> <li>Existing Railway</li> <li>Proposed Road</li> <li>Widened Road</li> </ul>	<ul style="list-style-type: none"> <li>Project Area Boundary</li> <li>Mouza Boundary</li> <li>Circulation Network</li> <li>Land Acquisition</li> <li>Industry NC</li> <li>Proposed Services</li> <li>Property of Bangladesh Railway</li> <li>Khal/Canal</li> <li>Proposed Foot Over Bridge</li> <li>Proposed Railway Bridge</li> <li>Proposed River Bridge</li> </ul>	<p><b>Proposed Landuse</b></p> <ul style="list-style-type: none"> <li>Agriculture</li> <li>Transport (RoW)</li> <li>Commercial</li> <li>Education and Research</li> <li>Government Service</li> <li>Industry</li> <li>Urban Green</li> <li>Mixed Use</li> <li>Recreational Facility</li> <li>Residential</li> <li>Restricted Area</li> <li>Transport Services</li> <li>Service Activity</li> <li>Waterbody</li> </ul>
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**Data Source**  
Map contents mainly based on extensive field survey. Topographic, Physical Features and Landuse data as per field survey conducted by data experts team using RTK GPS, Total Station and Optical Level under the supervision of PMO and Consultant's Team Members. City Corporation, Paurashava, Ward and Union boundaries have been derived from the secondary source maps of concern authorities.

**Projection System: Bangladesh Transverse Mercator (BTM)**  
Spheroid : Everest 1830  
Semi-major axis : a = 6,377,276.34518m  
Semi-minor axis : b = 6,356,575.41111m  
Inverse flattening : 1/f = 300.8017  
False Easting : 500,000m  
False Northing : 2,000,000m  
Latitude of Origin : 0°N  
Central Meridian : 90°E  
Scale Factor : 0.9998  
Datum Conversion Method : Seven Parameters  
Datum Shift : WGS-84 to Everest 1830  
Rotation X : 0  
Rotation Y : 0  
Rotation Z : 0  
Translation X : -287.229m  
Translation Y : -735.942m  
Translation Z : -261.348m  
Scale : 1:3960  
Vertical Datum : National Datum i.e. MSL (Sea level reference datum)

**Reference Bench Mark (BM)**  
**Horizontal (for Latitude & Longitude)**  
1. SW BM-002: South-west corner of the Newspaper College Playground, Aoyapagar, Nowapara, Jessore.  
2. SW BM-134: South-west corner of Bataghata Pilot High School Playground. It is south-west corner of the Bazar and 200m south of Bataghata Upazila Parishad and College, Bataghata, Khulna.  
**Vertical (for Reduce Level/RL adjustment)**  
1. SW BM-1015: Close to boundary wall of Rupia Railway mosque, 1km east from north-east corner of the mosque, Rupia, Khulna.  
2. SW BM-016: 150m east from Gakamari Bridge around 2m south side of Khulna-Satkhira road.

**Survey Period** : February 2011 to June 2012  
**Date of Map Print** : 14 May, 2014

Consultant: DDC-datEx  
Client: KDA

Team Leader: *Richardson*  
Project Director: