

**CONSULTANTS**

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

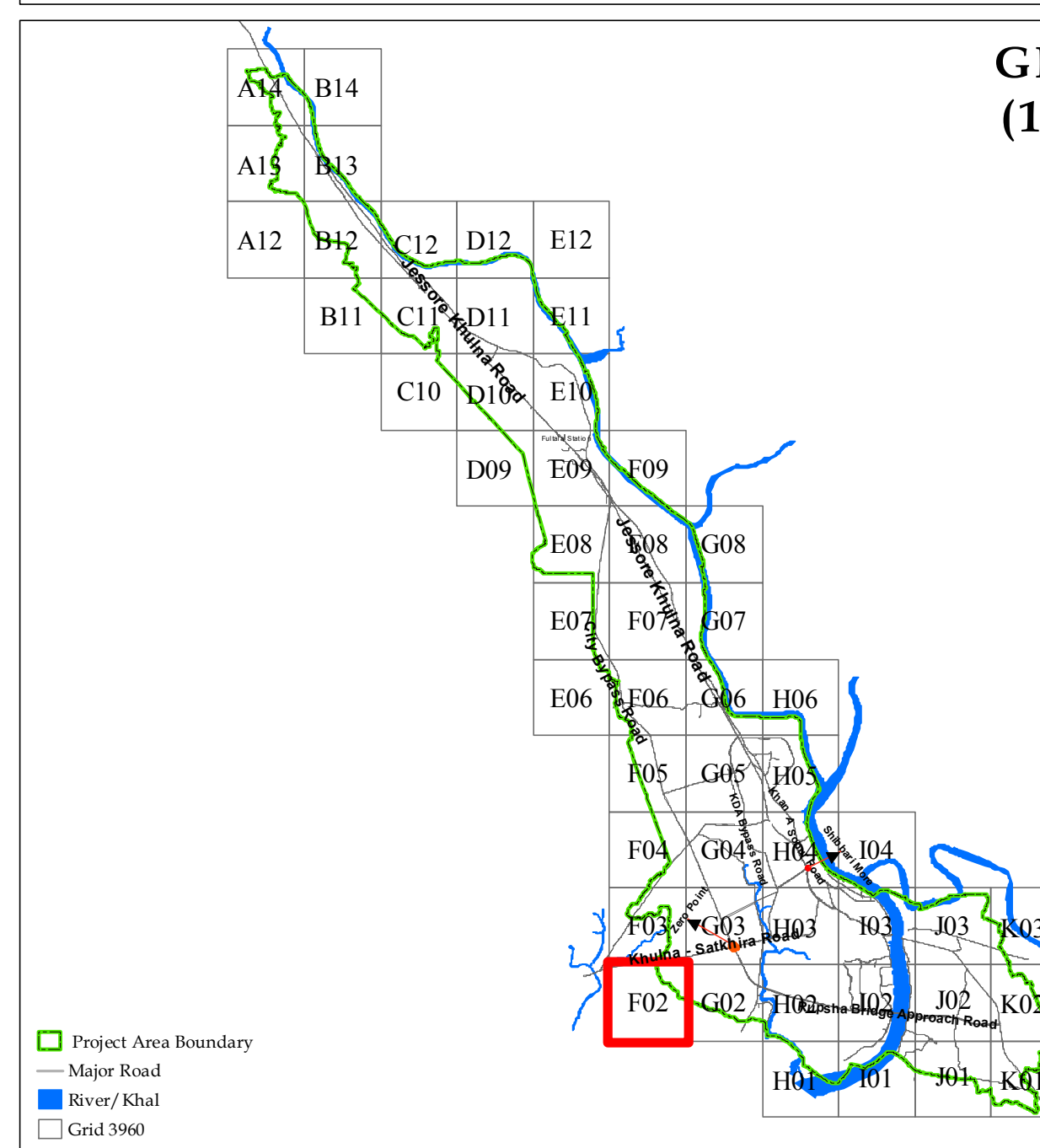
**Data Experts (Pvt.) Limited**  
House No. 25/3, Road No. 15 (Old 29), Shammeldi, Dhaka 1209, Bangladesh.

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

Scale 1:3960 or 1 cm = 39.6 m or 1 inch = 330 feet

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 staff survey team using RTK-GPS, Total Station and Optical Level under the supervision of PMO and Consultants 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 = 6,377,276.34519m  
Semi-minor axis: b = 6,356,575.41119m  
Inverse flattening: 1/f = 300,801.7  
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: -282.729m  
Translation Y: -735.942m  
Translation Z: -281.449m  
Scale: 1.0000

**Reference Bench Mark (BM)**  
**Horizontal (for Latitude & Longitude)**  
1. SWM 1015: South-west corner of the Nonapar College Playground, Avoytagar, Nonapar, Jessore.  
2. SWM 1015: South-west corner of the Bangladesh Pilot High School Playground. It is south-west corner of the Bazar and 200m south of Rangghata Upazila Parishad and College, Rangghata, Khulna.  
**Vertical (for Reduce Level adjustment)**  
1. SWM 1015: Close to boundary wall of Rupia Railway mosque, 1km east from north-east corner of the mosque, Rupia, Khulna.  
2. SWM 1016: 150m east from Gakamari Bridge around 2m south side of Khulna-Satkhira road.

**Vertical Datum:** National Datum i.e. MSL (Sea level reference datum)

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

Consultant: DDC-datEx Client: KDA

Team Leader: [Signature] Project Director