

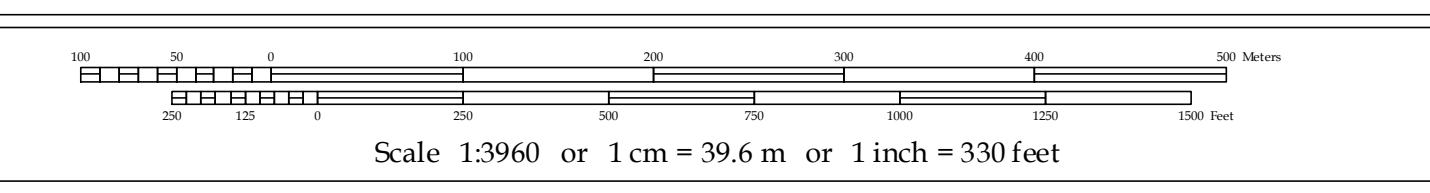


**CONSULTANTS**

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

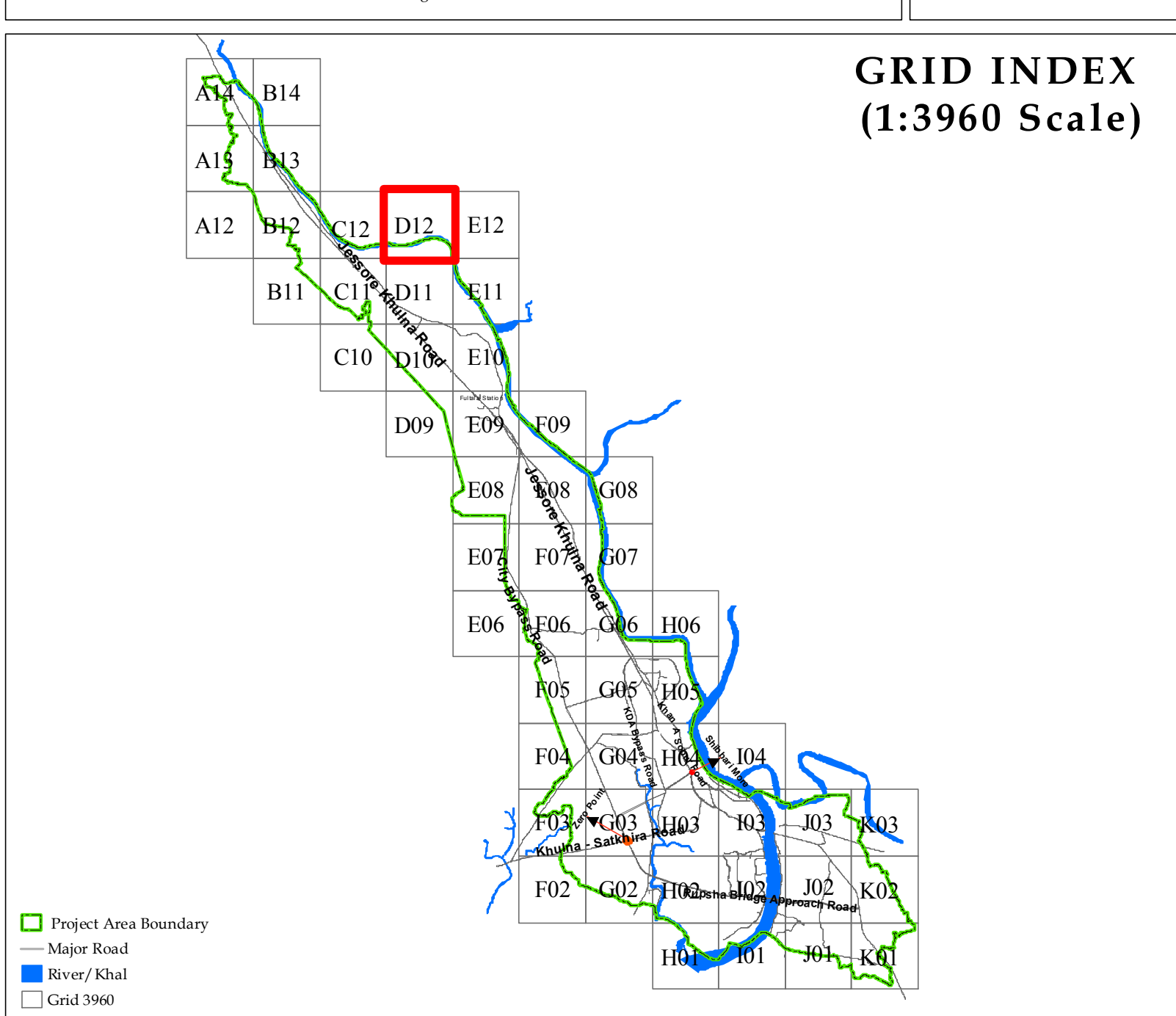
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House No. 25/3, Road No. 15 (Old 29), Dharmendi  
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## Preparation of Detailed Area Development Plan for Khulna Master Plan (2001) Area Khulna, Bangladesh



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

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



**Proposed Landuse**

Agriculture	Mixed Use
Transport (RoW)	Recreational Facility
Commercial	Residential
Education and Research	Restricted Area
Government Service	Transport Services
Industry	Service Activity
Urban Green	Waterbody

Study Area Boundary	Project Area Boundary
District Boundary	Mouza Boundary
Upazila Boundary	Circulation Network
Union Boundary	Land Acquisition
City Corporation/Paurashava Boundary	Industry NC
Ward Boundary	Proposed Services
Proposed Metro Rail	Property of Bangladesh Railway
Proposed Tramline	Khal/Canal
Proposed Tunnel	Plot Boundary (from Mouza Map)
Existing Railway	Proposed Foot Over Bridge
Proposed Road	Proposed Railway Bridge
Widened Road	Proposed River Bridge

**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 PMS 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 = 6,356,575.41111m  
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 : -282.729m  
Translation Y : -735.942m  
Translation Z : -281.345m  
Scale : 1:1 ppm

**Reference Bench Mark (BM)**  
*Horizontal (for Latitude & Longitude)*  
1. SW BM-502: South-west corner of the Nonpara College Playground, Avoyager, Nonpara, Jessore.  
2. SW BM-134: South-west corner of Bataghata Pilot High School (Playground). It is south-west corner of the Bazar and 20m 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, 1.5m east from north-east corner of the mosque, Rupia, Khulna.  
2. SW BM-1016: 15m 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

*Richardson*  
Team Leader

Project Director