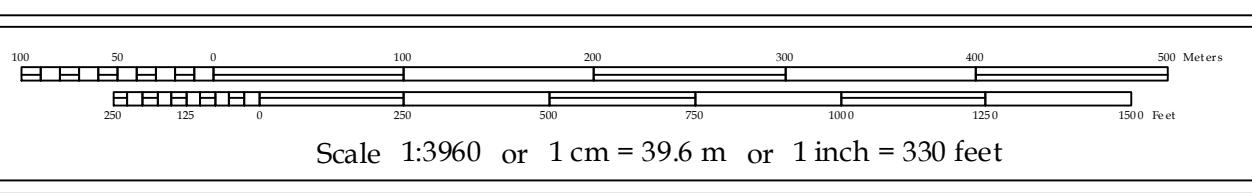


**CONSULTANTS**

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

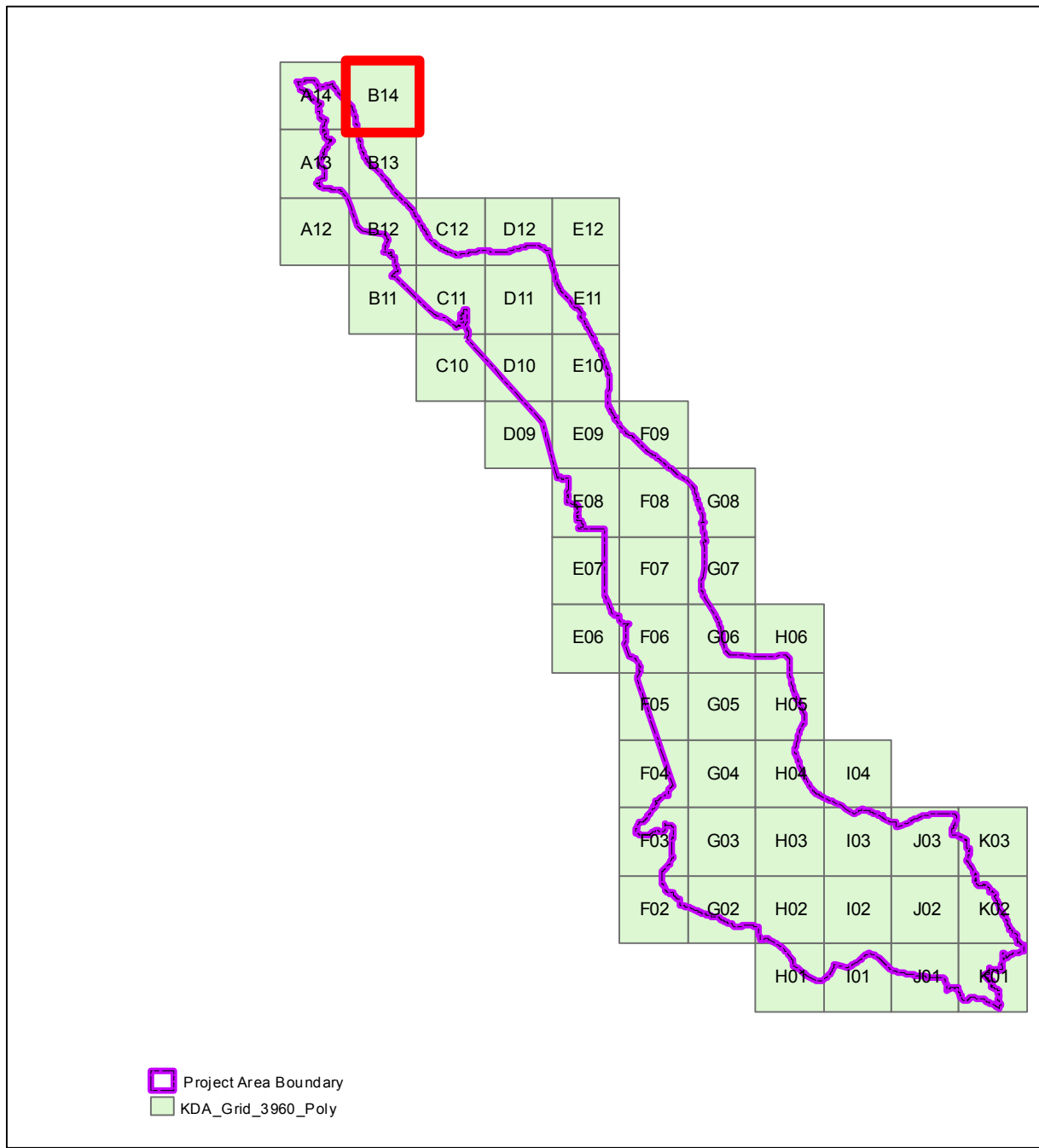
**Data Experts (Pvt.) Limited**  
House No. 25/A, Road No. 15 (3rd Flr), Dharmendi, Dhaka 1209, Bangladesh.

**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 Bhavan, Khulna, Bangladesh



<ul style="list-style-type: none"> <li>--- BND_Study Area</li> <li>--- Upazila Boundary</li> <li>--- Union Boundary</li> <li>--- City Corporation/Thanshava Boundary</li> <li>--- Ward Boundary</li> <li>--- Boundary_Mosque Area; Area_Other Feature</li> <li>Proposed_Guide Wall(Nospura Area)</li> <li>Proposed_Guide Wall(KCC Area)</li> <li>Land Acquisition</li> <li>Kda_road_Poly</li> <li>Industry NC</li> <li>kda_Mosaza_EdgeMatch_for_Printing_LINE</li> <li>Proposed Toilet Facility</li> <li>Proposed Foot Over Bridge</li> <li>Proposed Railway_River_Bridge</li> <li>Proposed_Railway_Station</li> <li>Proposed Metro Rail</li> <li>Proposed Tannery</li> <li>Proposed Tunnel</li> <li>District Boundary</li> </ul>	<ul style="list-style-type: none"> <li>Proposed Road</li> <li>Widened Road</li> <li>Proposed_Services</li> <li>Proposed_Rail_Right of way</li> <li>Right_of_way_100_200_feet</li> <li>KDA_Grid_3960_Poly</li> <li>Project Area Boundary</li> <li>KDA_Mosaza</li> <li>Boundary Wall/Fence</li> <li>Railway</li> <li>Railway (Scale Line)</li> <li>High-Volt Electric Line</li> <li>Gas Pipeline</li> <li>Water Supply Line</li> <li>Floodwall/Embankment</li> <li>Coastline</li> <li>Kda_structure_poly_2111.2014</li> </ul>	<ul style="list-style-type: none"> <li>Circulation Network</li> <li>Agriculture</li> <li>Commercial</li> <li>Community Service</li> <li>Education and Research</li> <li>Future Mixed Use</li> <li>Government Land</li> <li>Government Service</li> <li>Industry</li> <li>Mixed Use</li> <li>Non Government Organisation</li> <li>Recreational Facility</li> <li>Residential</li> <li>Restricted Area</li> <li>Service Activity</li> <li>Transport and Communication</li> <li>Unclassified</li> <li>Urban Green</li> <li>Vacant</li> <li>Wapda</li> <li>Waterbody</li> </ul>
---	---	---

**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, Thanshava, 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 = 6,356,572.41311m  
Inverse flattening : 1/f = 300.8017

False Easting : 500,000m  
False Northing : 500,000m  
Latitude of Origin : 0° N  
Central Meridian : 90° E  
Scale Factor : 0.9996  
Datum Conversion Method : Seven Parameters  
WGS-84 to Everest 1830  
Rotation X : 0  
Rotation Y : 0  
Rotation Z : 0  
Translation X : -283.729m  
Translation Y : -753.942m  
Translation Z : -261.449m  
Scale : 1.0 ppm

**Reference Bench Mark (BM)**

**Horizontal (for Latitude & Longitude)**  
1. SOB GPS-002: Southwest corner of the Nowrap College Playground, Aoyograpa, Nowrapra, Barisal.  
2. SOB GPS-134: Southwest corner of Bangladesh Pilot High School (Hergovind), in southwest corner of the Bazar and 20m south of Bangladesh Uppala Parishad and College, Bangladesh, Khulna.

**Vertical (for Reduce Level adjustment)**  
1. SOB BM-105: Close to boundary wall of Rupia Railway mosque, 1km east from north-east corner of the mosque, Rupia, Khulna.  
2. SOB BM-016: 15m east from Gullamati Bridge around 2m south side of Khulna-Setubhira road.

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

**Survey Period** : February 2011 to June 2012  
**Date of Map Print** : 11 Dec. 2014

Checked By	Name	Designation	Signature	Date
Consultant: DDC-datfx	Md. Zinat Karim	GIS Specialist		
	Masud Hasan Chowdhury	GIS Specialist		
Client: KDA	Dr. Akhter Hossain Chaudhury	Team Leader		
		Draftsman/Surveyor		
	Planner Md. Tavvir Ahmed	Assistant Town Planner		
	Engr. Md. Majibur Rahman	Project Director		