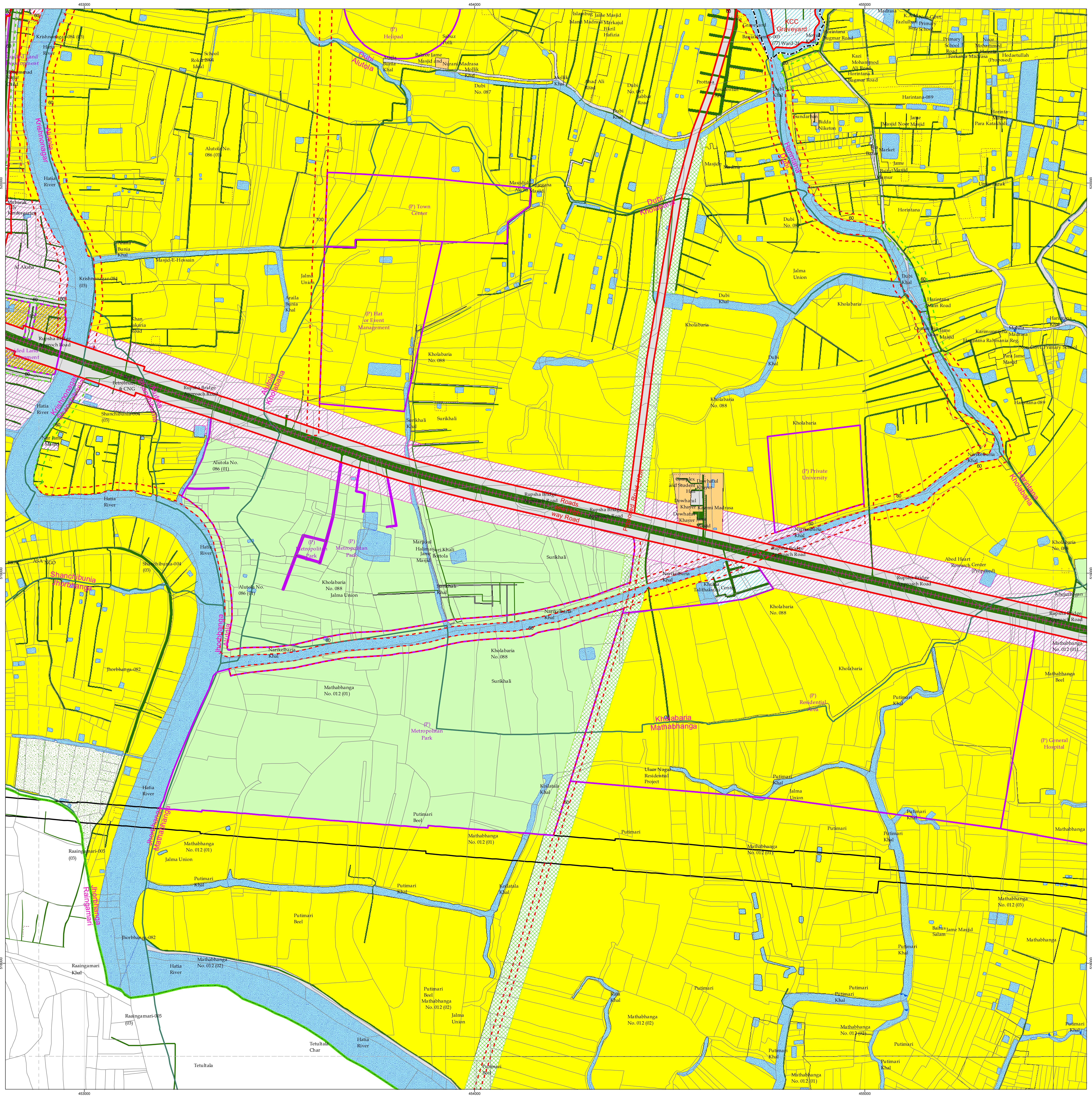
1:3960

# PROPOSED SERVICES FACILITIES MAP

Sheet No. **H02**




**CONSULTANTS**

**Development Design Consultants Limited**
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**Data Experts (Pvt.) Limited**
House No. 25/3, Road No. 15 (Old 28), Dhanmondi
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## Preparation of Detailed Area Development Plan for Khulna Master Plan (2001) Area

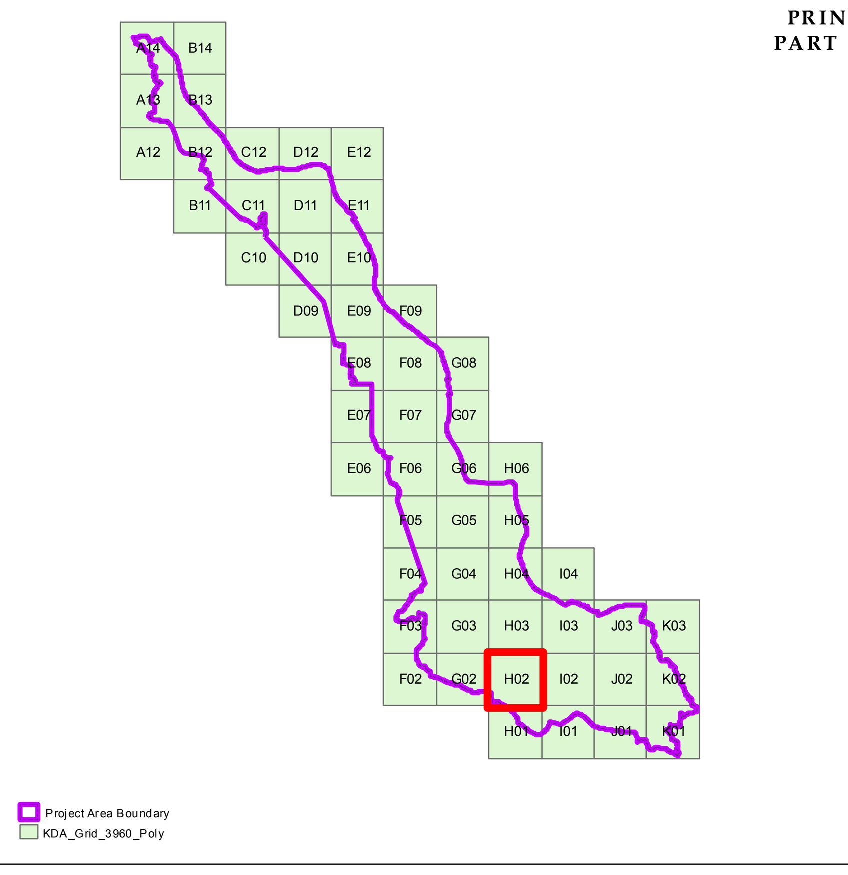
Khulna, Bangladesh

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

**PRINTING PART INDEX**




- BND_Study Area
- Upazila Boundary
- Union Boundary
- City Corporation/Pourashava Boundary
- Ward Boundary
- Boundary_Mosque Area; Area_Other Feature
- Proposed_Guide Wall(Noapara Area)
- Proposed_Guide Wall(KCC Area)
- Land Acquisition
- Kda_road_Poly
- Industry NC
- kda_Mouza_EdgeMatch_for_Printing_LINE
- Proposed Toilet Facilty
- Proposed Foot Over Bridge
- Proposed_Railway_River_Bridge
- Proposed_Railway_Station
- Proposed Metro Rail
- Proposed Tramline
- Proposed Tunnel
- District Boundary

- Proposed Road
- Widened Road
- Proposed_Services
- Proposed_Rail_Right of way
- Right_of_way_100_200_feet
- KDA_Grid_3960_Poly
- Project Area Boundary
- KDA_Mouza
- Boundary Wall/Fence
- Railway
- Railway (Scale Line)
- High-Volt Electric Line
- Gas Pipeline
- Water Supply Line
- Floodwall/Embankment
- Coastline
- Kda_structure_poly_21112014

- Circulation Network
- Agriculture
- Commercial
- Community Service
- Education and Research
- Future Mixed Use
- Government Land
- Government Service
- Industry
- Mixed Use
- Non Government Organization
- Recreational Facility
- Residential
- Restricted Area
- Service Activity
- Transport and Communication
- Unclassify
- Urban Green
- Vacant
- Wapda
- Waterbody

**Data Source**

Map contents mainly based on extensive field survey. Topographic, Physical Features and Landuse data as per field survey conducted by datEx survey 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 = 6,356,075.41511m |
| | 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 | : 0.9996 |
| Datum Conversion Method | : Seven Parameters |
| Datum Shift | : WGS-84 to Everest 1830 |
| | Rotation X : 0 |
| | Rotation Y : 0 |
| | Rotation Z : 0 |
| | Translation X : -283.729m |
| | Translation Y : -735.942m |
| | Translation Z : -261.143m |
| | Scale : 1 ppm |

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

**Reference Bench Mark (BM)**

*Horizontal ( for Latitude & Longitude)*

1. SOB GPS-502: South-west corner of the Nowapar College Playground, Avoynagar, Nowapara, Jessore.
2. SOB GPS-134: South-west corner of Batiaghata Pilot High School Playground. It is south-west corner of the Bazar and 200m south of Batiaghata Upazila Parishad and College, Batiaghata, Khulna.

*Vertical ( for Reduce Level/RL adjustment)*

1. SOB BM-1035: Close to boundary wall of Rupsa Railway mosque, 14m east from north-east corner of the mosque, Rupsa, Khulna.
2. SOB BM-1036: 335m east from Gallamari Bridge, around 2m south side of Khulna-Satkhira road.

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

| Checked By | Name | Designation | Signature | Date |
|---|---|---|---|---|
| Consultant: DDC-datEx | Md. Ziaul Karim | GIS Specialist | [signature] | |
| | Masud Hasan Chowdhury | GIS Specialist | [signature] | |
| | Dr. Akhter Husain Chaudhury | Team Leader | | |
| Client: KDA | | Draftsman/Surveyor | | |
| | Planner Md. Tanvir Ahmed | Assistant Town Planner | | |
| | Engr. Md. Majibur Rahman | Project Director | | |