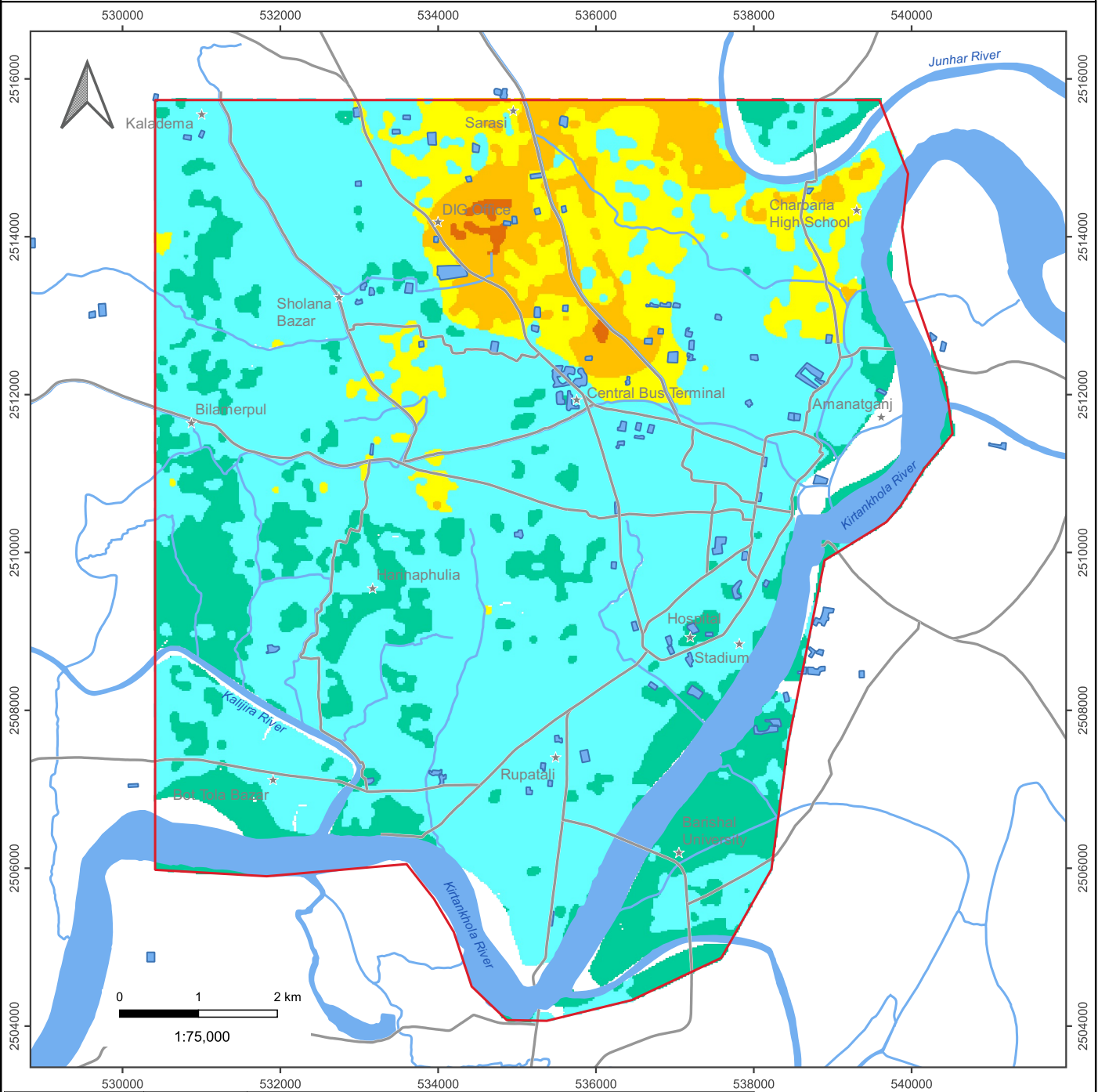


Building Ground Suitability of Barishal Town and Surroundings



| Suitability map class | Landuse | Infrastructure | |
|-----------------------|---|---|---|
| Class I | Industrial zone, Commercial area, Residential area | Suitable for all kind of infrastructures with low hazard potential and foundation costs. The area is free from eventual flooding. | * Landmark |
| Class II | Industrial zone, Commercial area, Residential area, Park and Recreation | Suitable for all kind of infrastructures with low hazard potential and foundation costs. During infrastructure planning and foundation design precautions must be taken as per on-site geotechnical investigations. Some parts of the area may be effected by eventual flooding. | — Primary road |
| Class III | Industrial zone, Residential area, Commercial area, Agricultural zone, Park and Recreation | Foundation conditions are heterogeneous. For construction of small and medium infrastructures precautions must be taken and evaluated per detailed on-site geotechnical investigations. Any ignorance of sub-surface conditions may create foundation failure. Parts of the area contains weak foundation layers which are can be affected by earthquake shaking and / or ground subsidence. For heavy infrastructure deep pile foundation is essential. The area is free from normal flooding but effected by eventual flooding. | ~ River |
| Class IV | Agricultural Zone, Flood flow zone, Flood proof Urban and Rural settlement, Park and Recreation | In general, the foundation conditions are weak. Any ignorance of the sub-surface conditions may create foundation failures. For construction of small and medium infrastructures, pile foundations are required, based on detailed on-site geotechnical investigations. This area is prone to normal flooding, seismic hazard and / or ground subsidence. For heavy infrastructures, deep pile foundations are essential. | — Canal |
| Class V | Agricultural Zone, Flood flow zone, Wetland, Park and Recreation | The foundation conditions are very weak. Any ignorance sub-surface conditions may create failure of infrastructure. For construction of small and medium infrastructures, deep pile foundations are required, based on detailed on-site geotechnical investigations. This area is regularly flooded and has a high potential of earthquake-induced hazards and / or ground subsidence. For the construction of heavy infrastructures, specialized foundation designs with very deep pile foundations are essential. | ■ Stagnant water > 4,000 m ² |
| | | | — Barisal study area |

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Map projection: BUTM2010, spheroid WGS84
Unit of Rectangular Grid Coordinate: Metre
Topographic base map: after SOB (2014) and OpenStreetMap (2019)