

National Mission for Clean Ganga (NMCG) Project:

This project is an integrated conservation mission, approved as flagship programme by the Union Government in June 2014 to accomplish the twin objectives of

- effective abatement of pollution
- conservation and rejuvenation of the national river Ganga.

Objective of the Project is to generate High Resolution DEM and GIS ready database for the part of River Ganga with latest technology. The mapping of main stream of river Ganga in five major states namely Uttarakhand, Uttar Pradesh, Jharkhand, Bihar and West Bengal has been proposed covering major towns and cities along the river Ganga and its tributaries in these states with an area of Two lakh fifty thousand square km. The project is under progress with various activities outsourced and procurement being made through Open e-tendering as per Government of India public procurement guidelines. To provide a major support to Ganga River basin Management by embedding GIS in different aspects of - planning and implementation at national/state/local levels; bringing GIS support in decision-making; enable a sound process of monitoring development and identifying critical hotspots. to make GIS data available at all levels and groups associated in this process – that helps bringing accountability and responsibility in policy decisions.

Survey of India has been tasked for generation of High Resolution Digital Elevation Model (DEM) of 0.5 metre resolution and GIS based for the part of River Ganga covering up to 10 km extent on both sides of the river using latest Technology

Deliverables of the Project:

- Ground control and reference points information
- LiDAR: Raw and processed data along with all associated files & Meta data
- Raw and Processed Orthophotos (12 cm GSD) & DEM (vertical accuracy better than 50 cm), contour of 0.5/1.0 m for the plain areas of Ganga basin
- Topographic map at 1:10,000 Scale with 0.5/1.0 m contour interval in digital form (.shp format) of the Plain areas of Ganga Basin
- Topographic map at 1:25,000 Scale with 10-20 m contour interval in digital form (.shp format) in the hilly terrain of Ganga Basin
- Outlet/vent of sewerage and other discharges from all dwelling units, industrial, commercial and all types of other institutions will be mapped, from the source outlet to the public drainage network.
- The entire public drainage network in the project area will be integrated with the present project mapping.
- River Bathymetry data along the river course.
- DTDB & DCDB of the area as per feature based Data Model of Sol.