**METHODOLOGY**

**STEP 1:** At first we have downloaded two years LISS III images from BHUBAN geoportal (2012-24th February and 2018-4th February).

**STEP 2**: After downloading all the images are merged using QGIS software.

**STEP 3:**Compositing of all relevant bands are done.

**STEP 4:**Creation of shape file for coastline along East Midnapore district coastal line from ISRO provided data.

**STEP 5:**We have chosen three stretches of areas of A, B, C to show the changes of shoreline through drawing two polyline shape file for showing the shoreline of the year 2012 and 2018.

**STEP 6**: Finally we have created the shoreline changes map using QGIS software through fitting of two polyline shape file in one satellite image (2012) for showing the changes of shoreline between two years of 2012 and 2018.

* **RESULTs** : After the whole work we have found that at point A, the length of shoreline in the year 2012 was 2243.38 m, B was 9127.94 m and C was 2711.09 m. and the A point length of 2018 was 2319.15 m, B was 9272.08 m and C was 2962.90 m. After the calculation of shoreline length we understand that shoreline length increases from 2012 to 2018with an increased value of 75.77 m of A point, 144.14 m in B point and 251.81 m in C point.

**APPLICATION AND USES**

1. The shoreline change assessment/map is an important tool for planning and evaluation of coastline engineering project.
2. At present situation we should aware people for our environment condition.