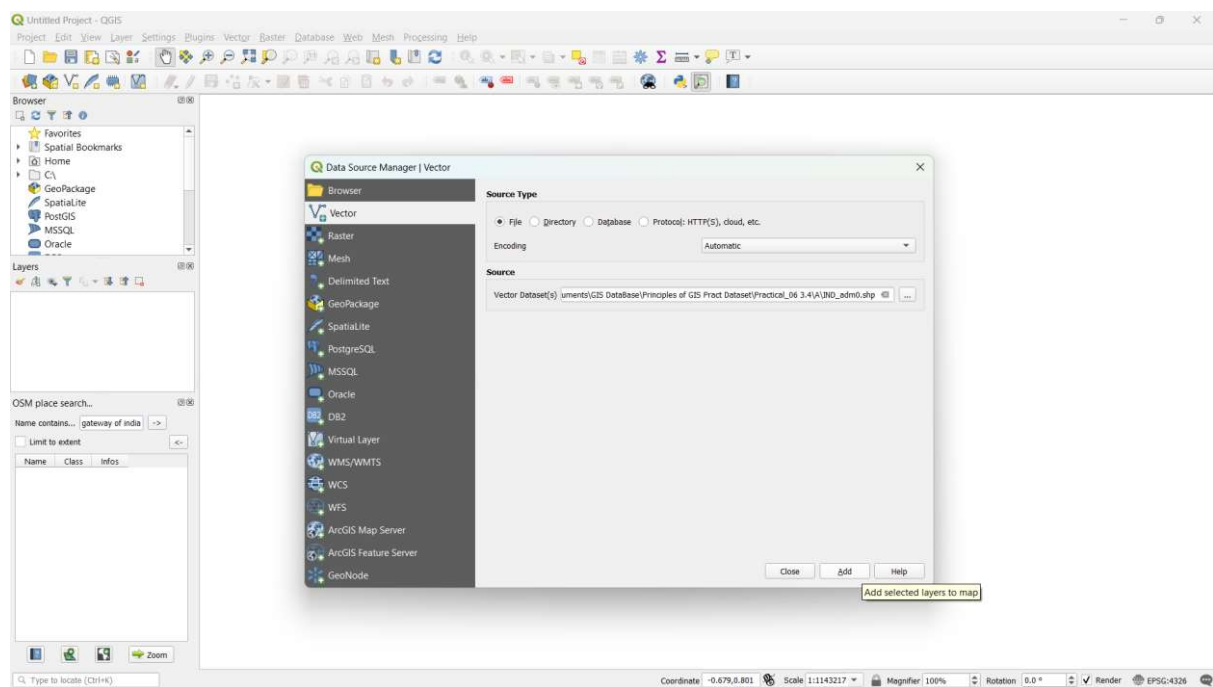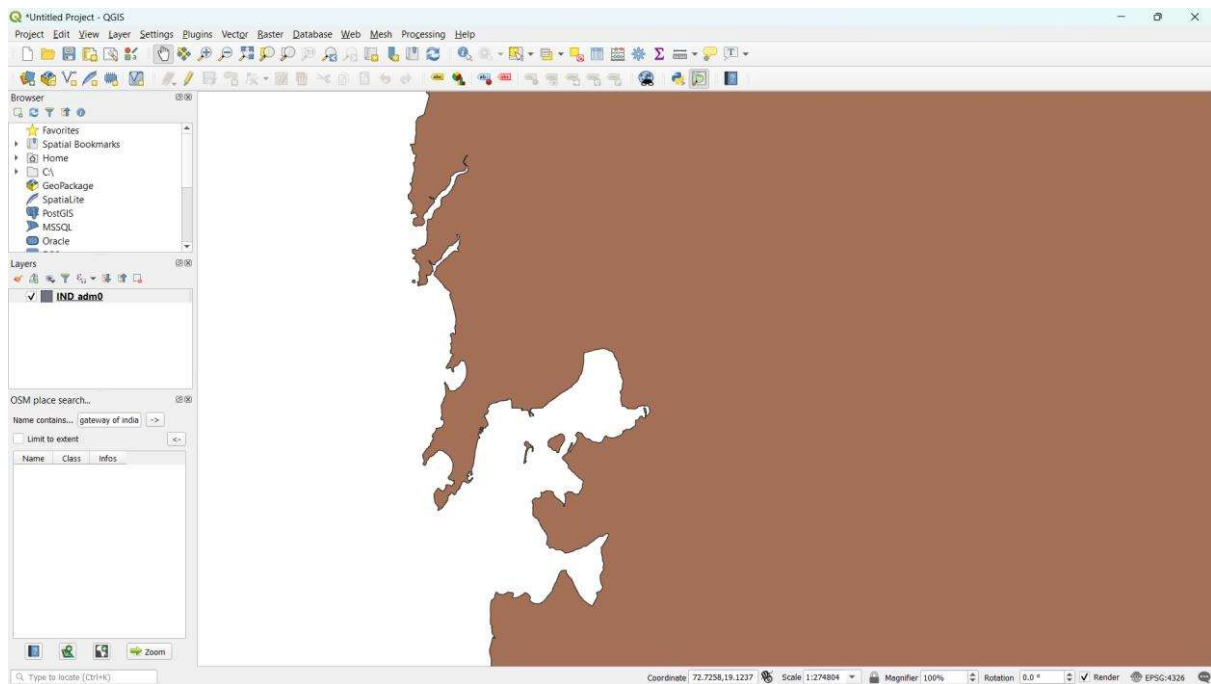# PRACTICAL - 6

Aim: Georeferencing Topo Sheets and Scanned Maps, Georeferencing Aerial Imagery and Digitizing Map Data.
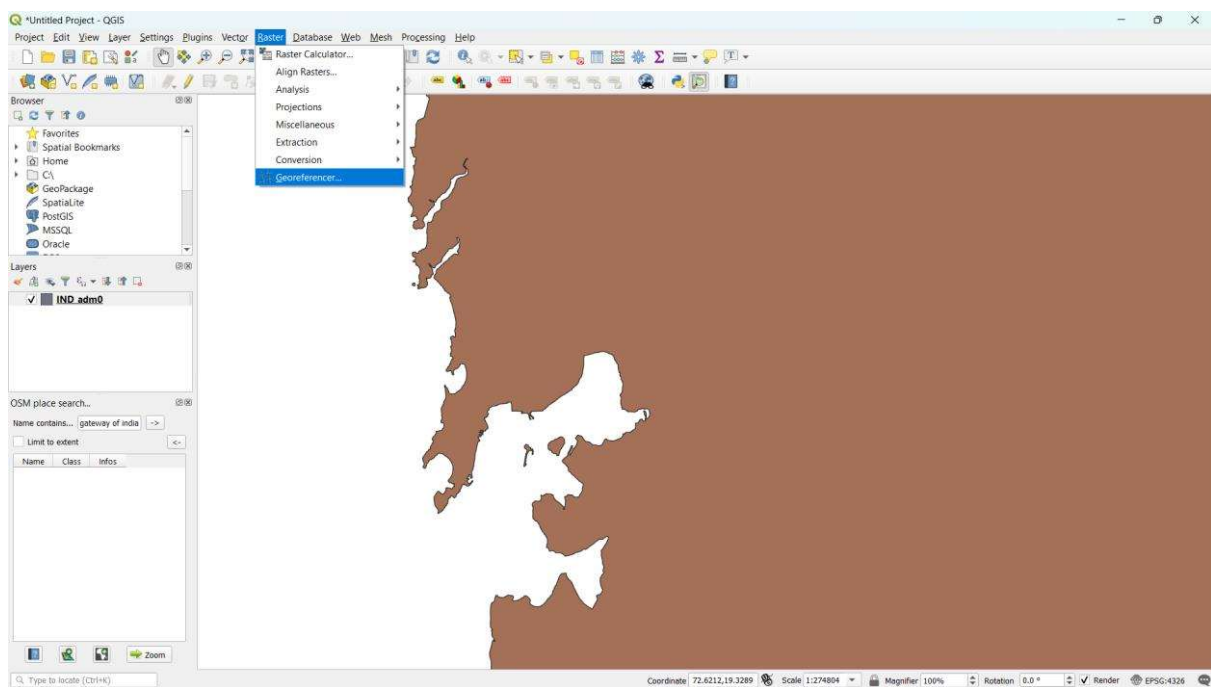
Steps:

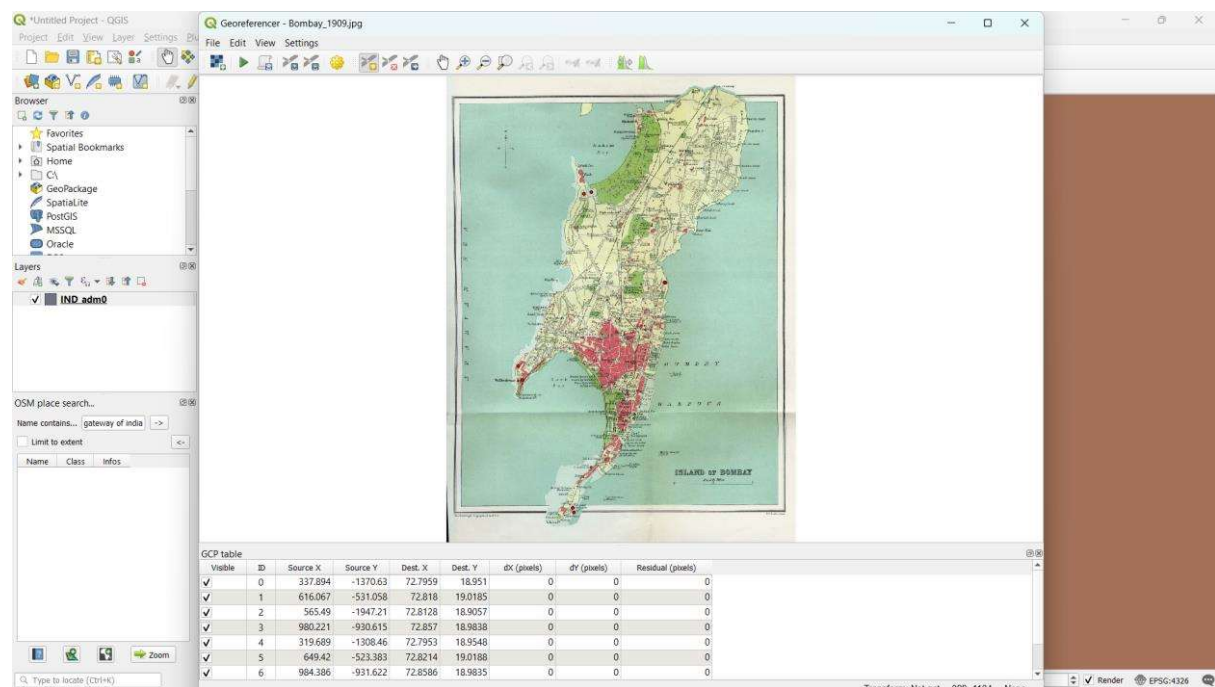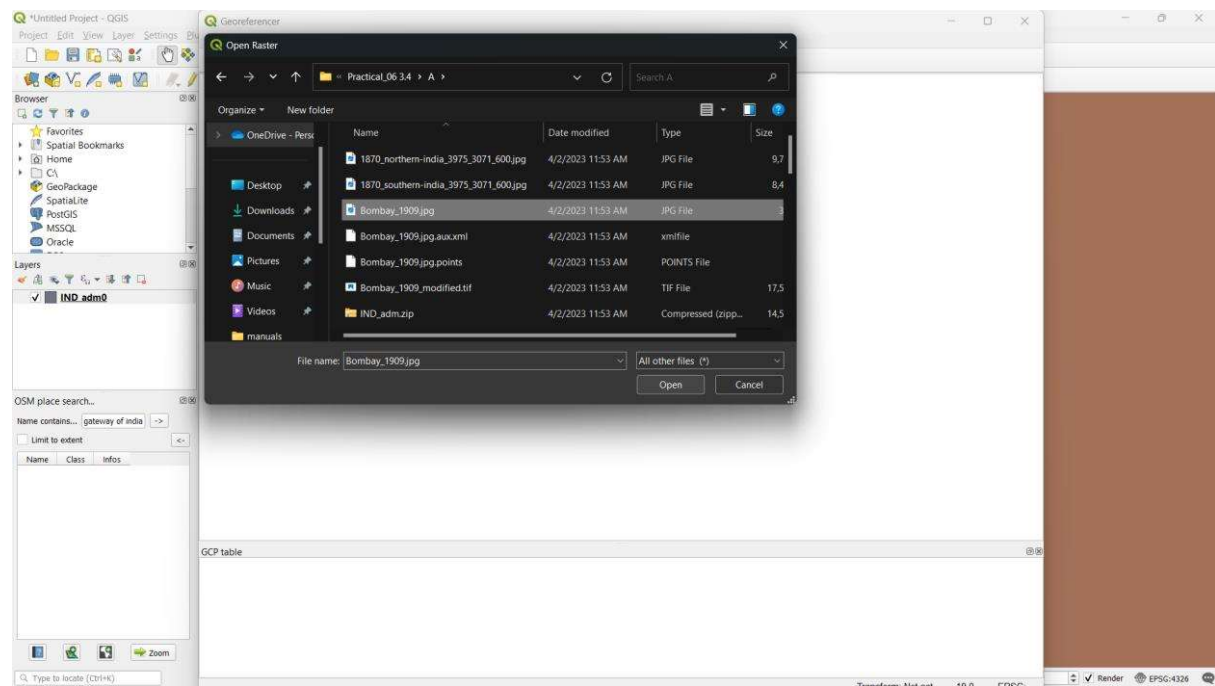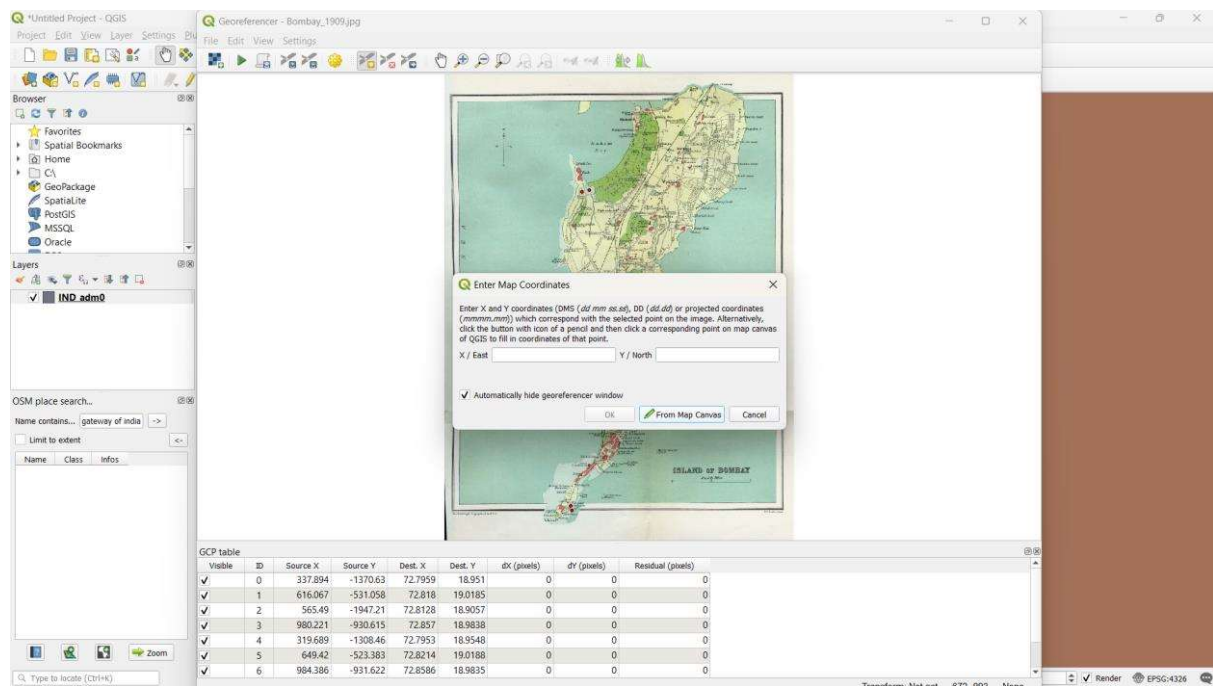Step 1 – Layer > Add Layer > Add Vector Layer. Select the following .shp file and hit add.

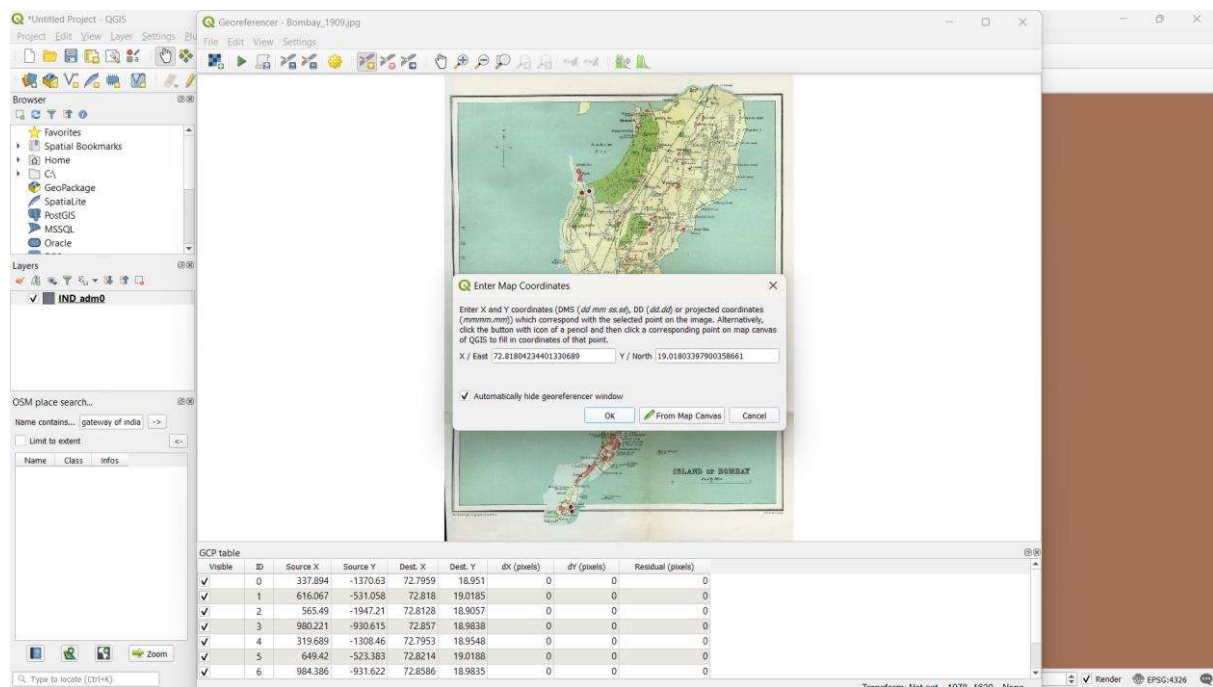Step 2 – Make sure that the georeferencer plugin is installed. Raster > Georeferencer.

Step 3 – File > Open Raster. Select the file you want to open and click open.
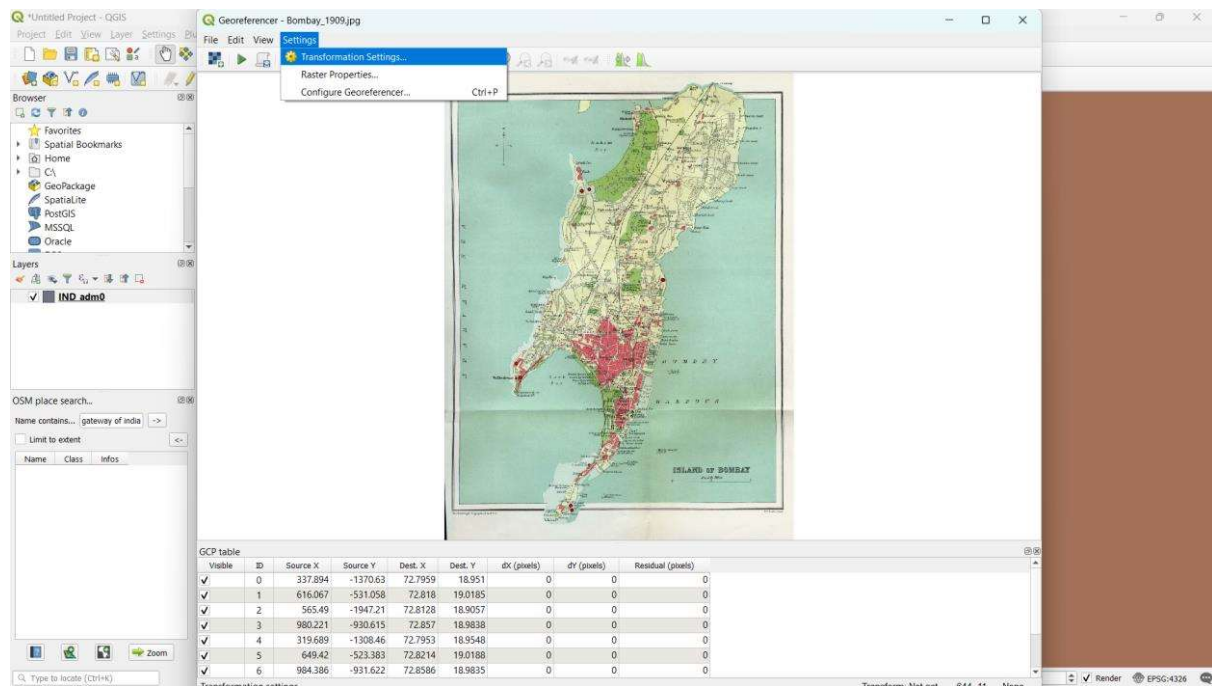
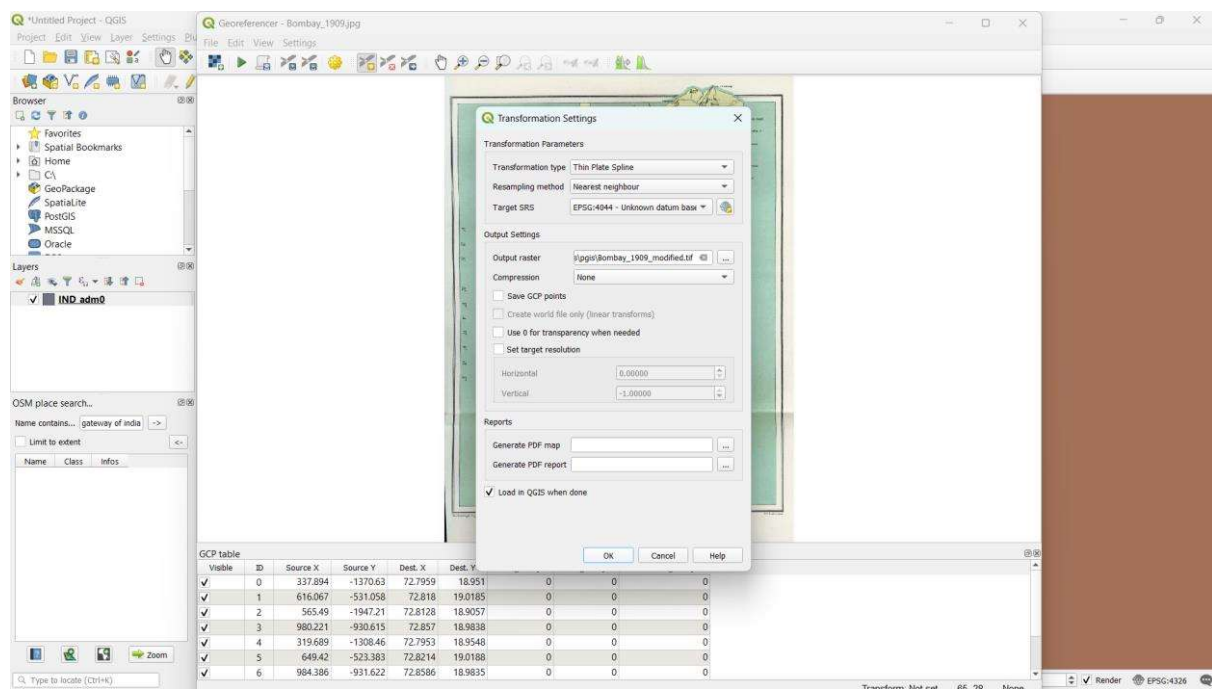Step 4 – Select any point on the map and then click on from map canvas.

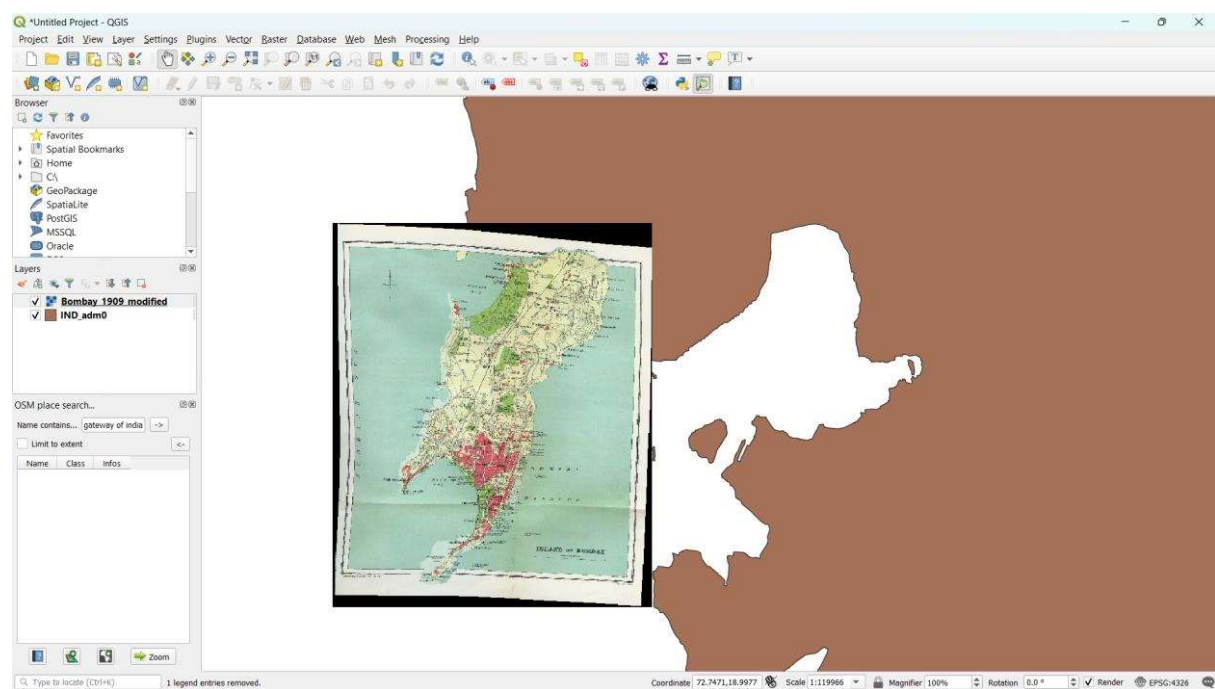Step 5 – Click the approximately at the same point from map canvas and then hit OK.
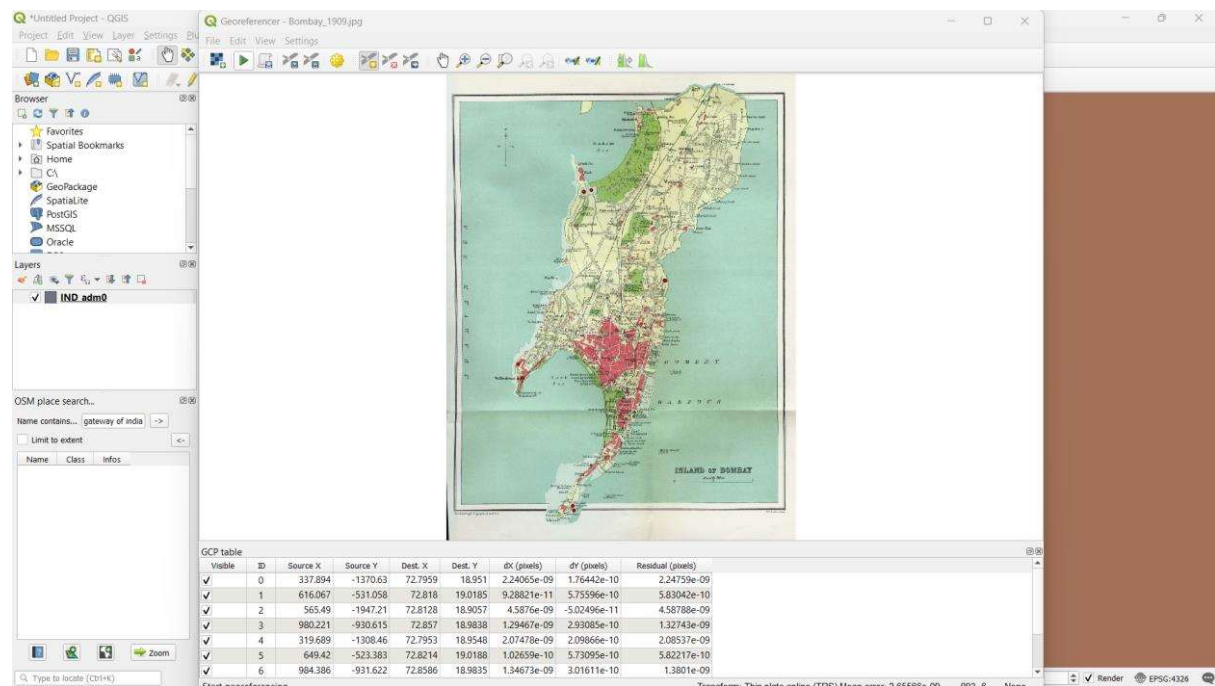
Step 6 – Similarly you can add as many points as you like. Once you are done click on settings > transform settings.
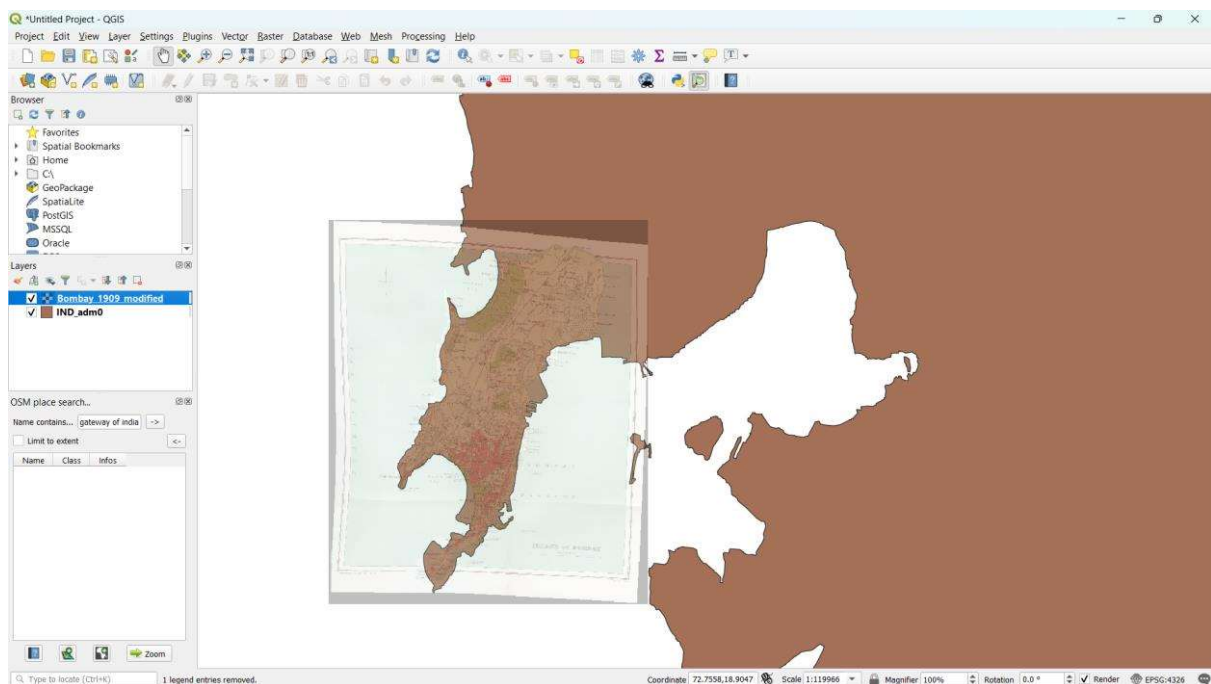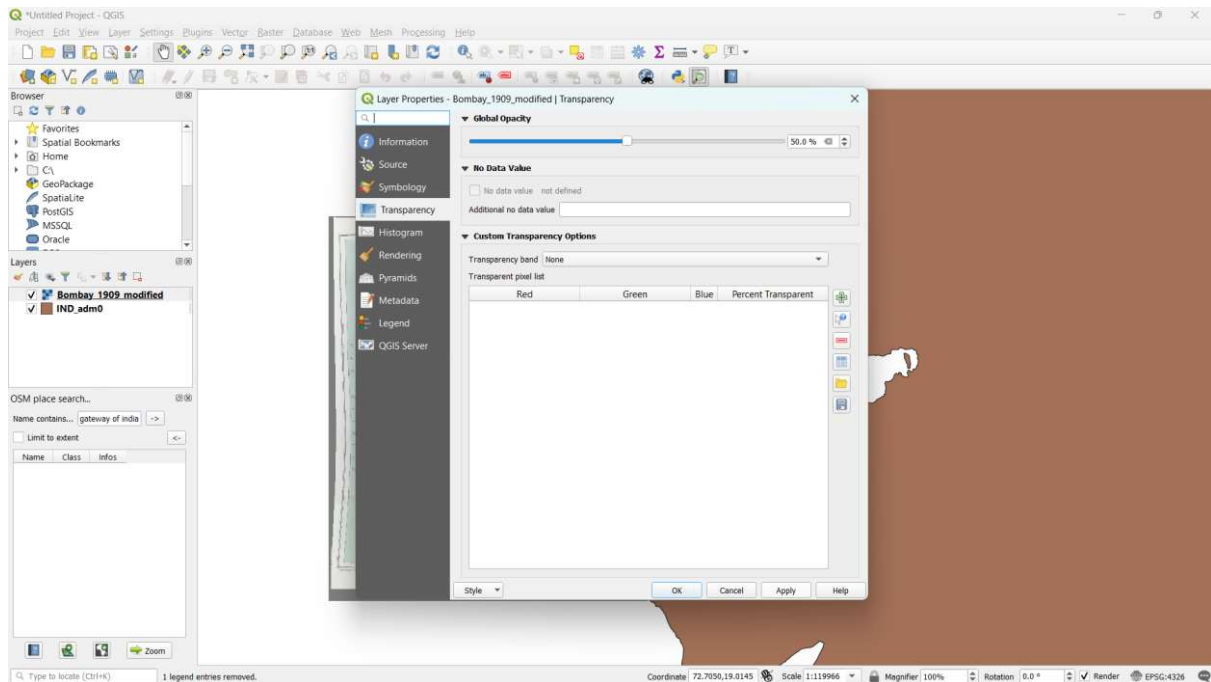

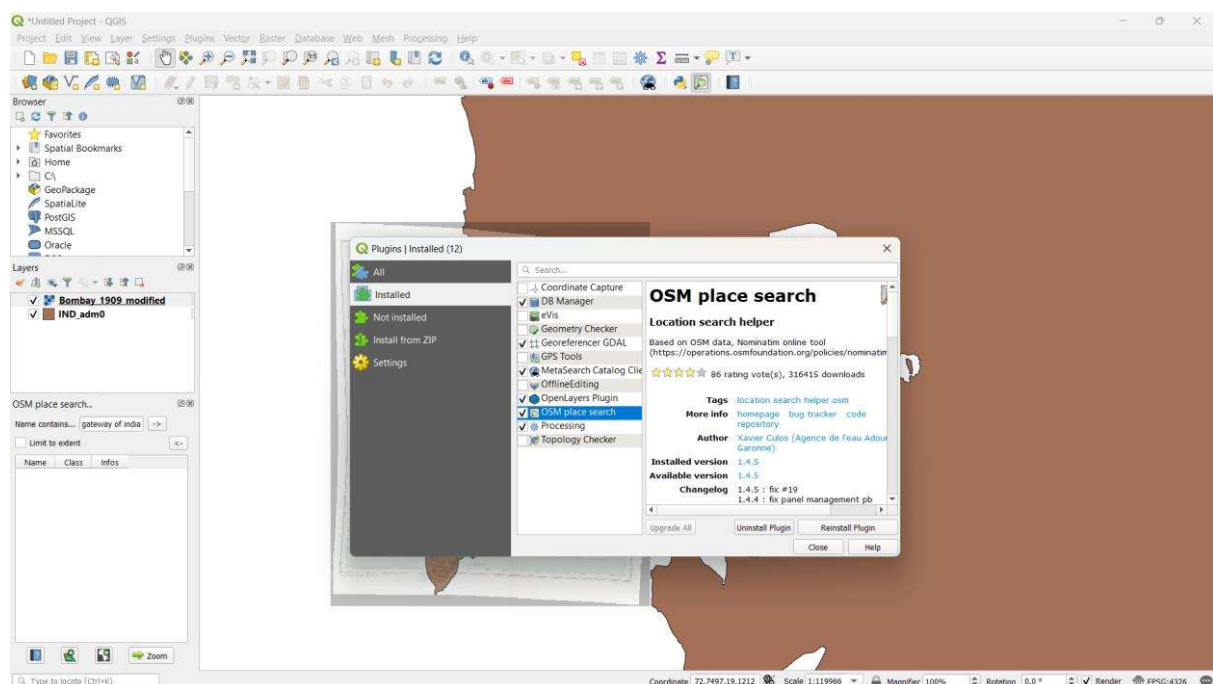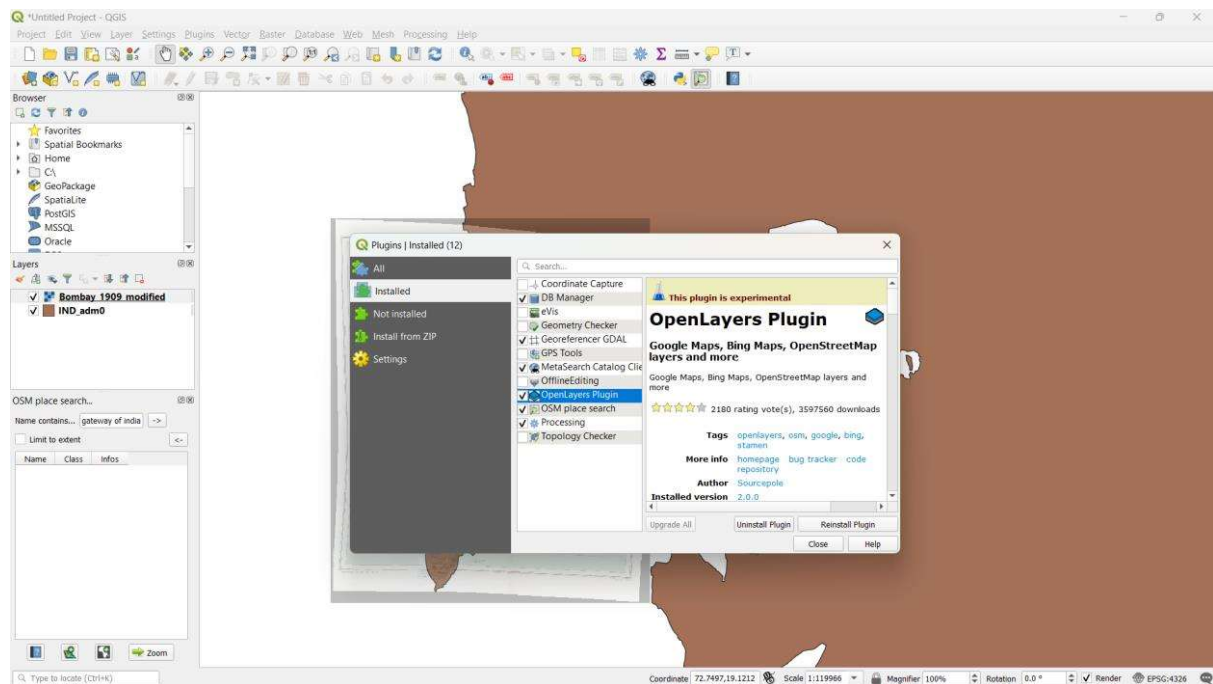Step 7 – Set the following parameters and then click OK.

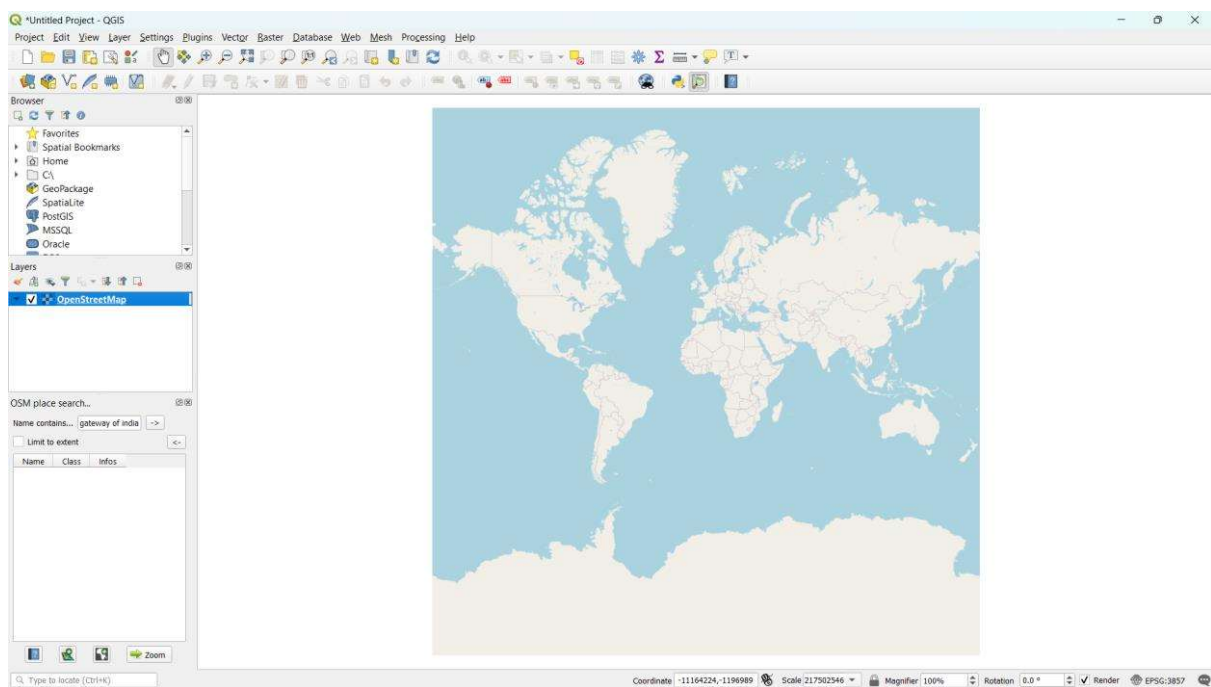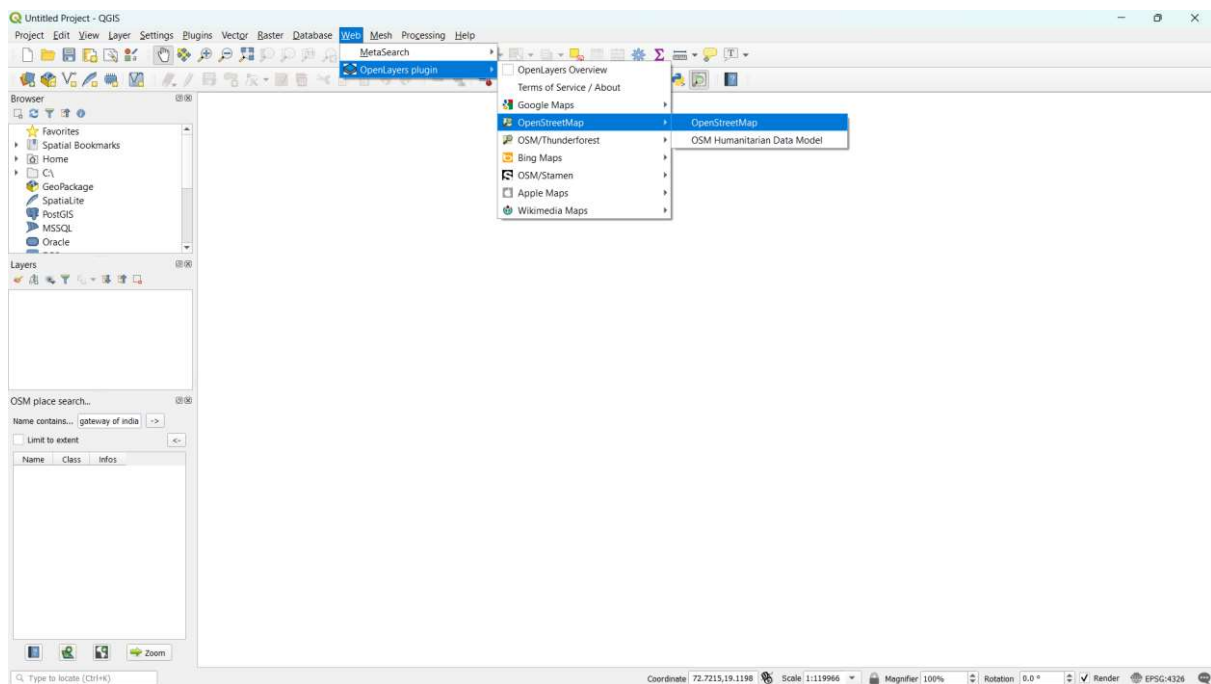Step 8 – Now click the start georeferencing button.

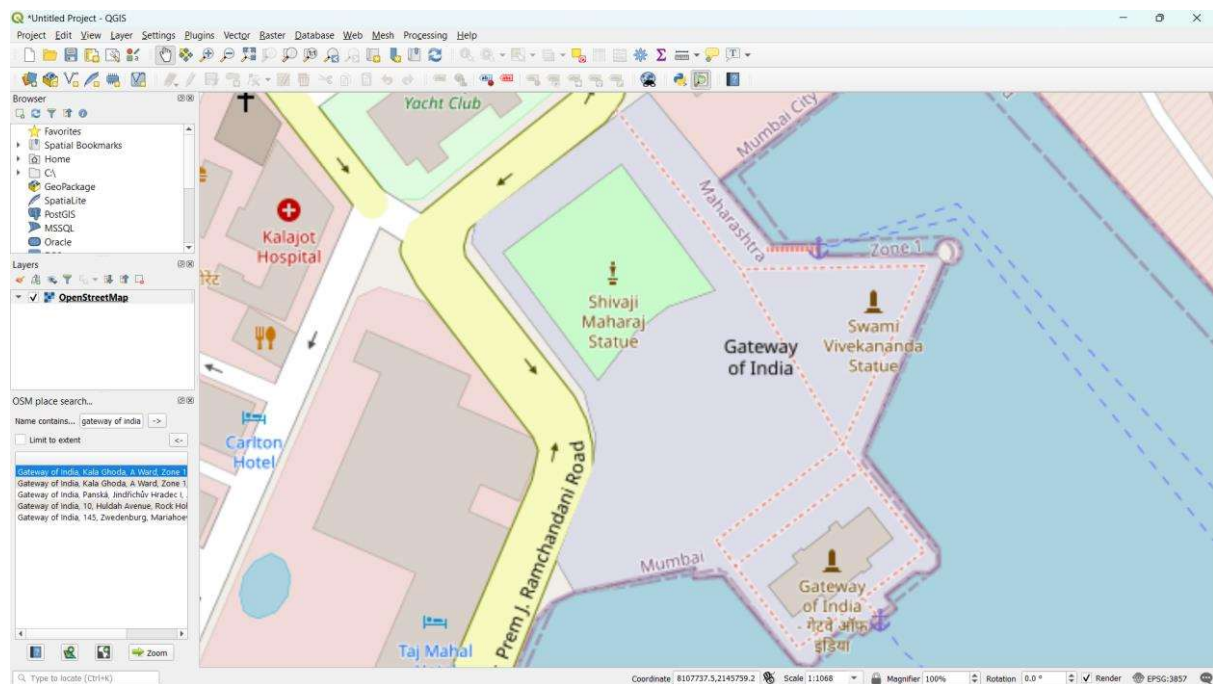Step 9 – You can reduce the transparency from layer properties to see is georeferencing is done properly.

Step 10 – Now open a new project. And install the open layers and OSM place search plugin plugin.
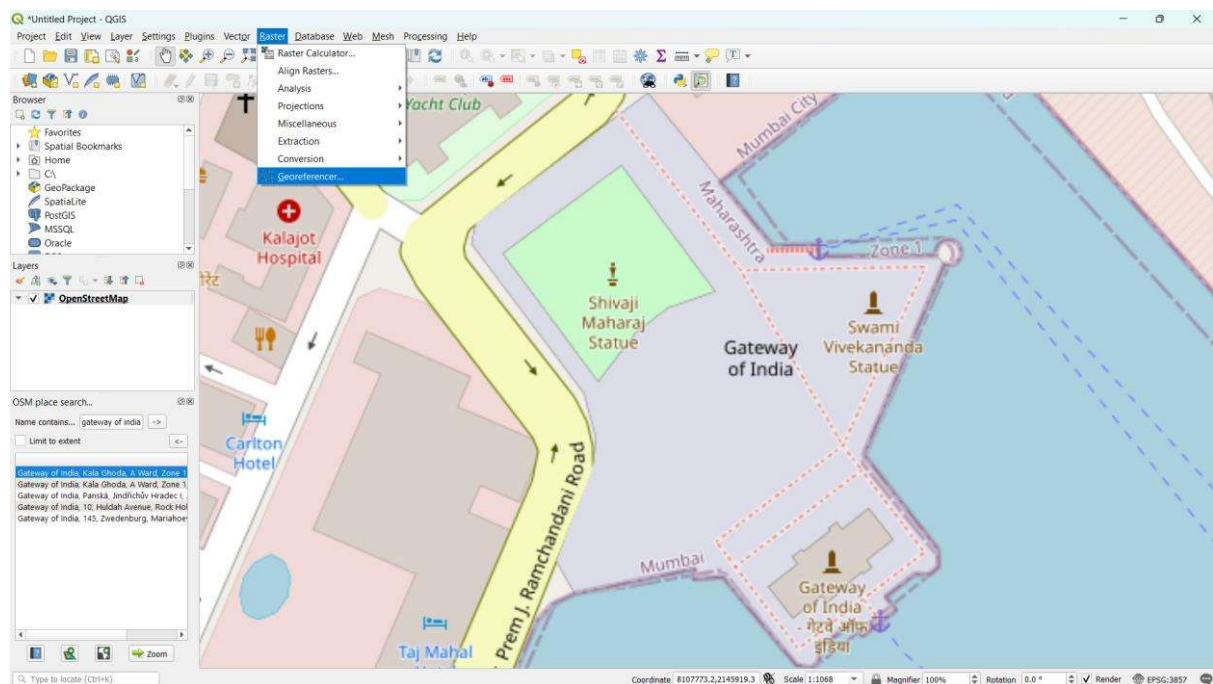
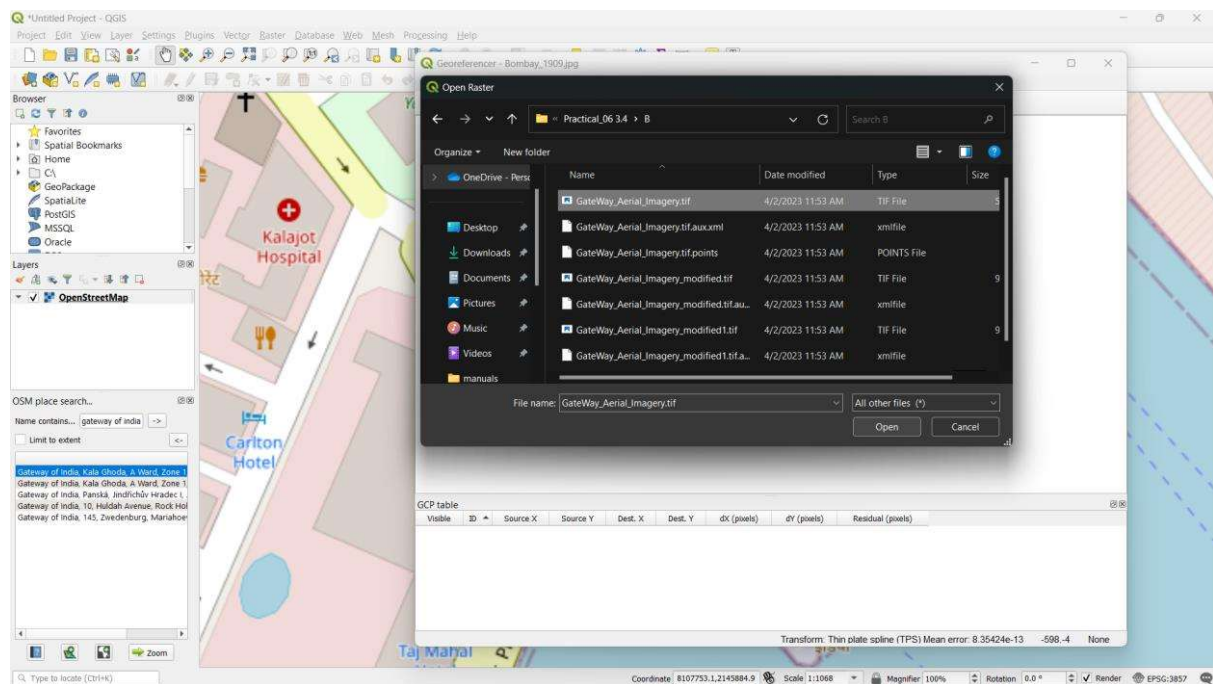Step 11 – Web > OpenLayers plugin > OpenStreetMap.

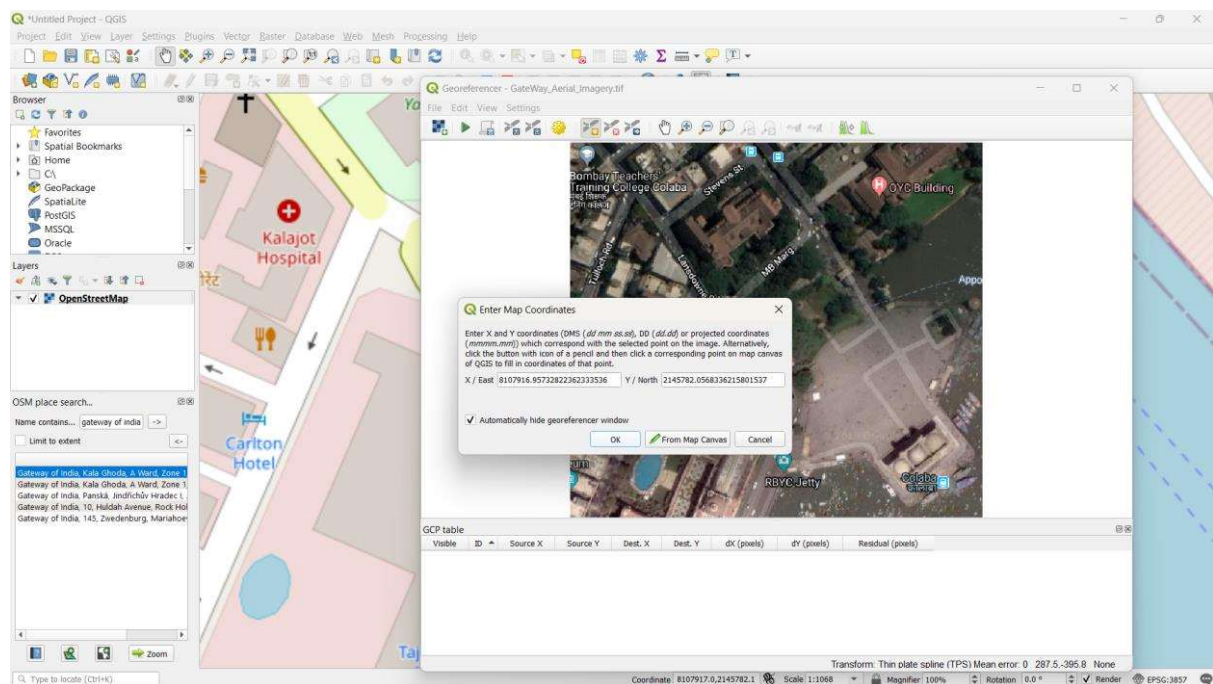Step 12 – Find the gateway of India using OSM place search.
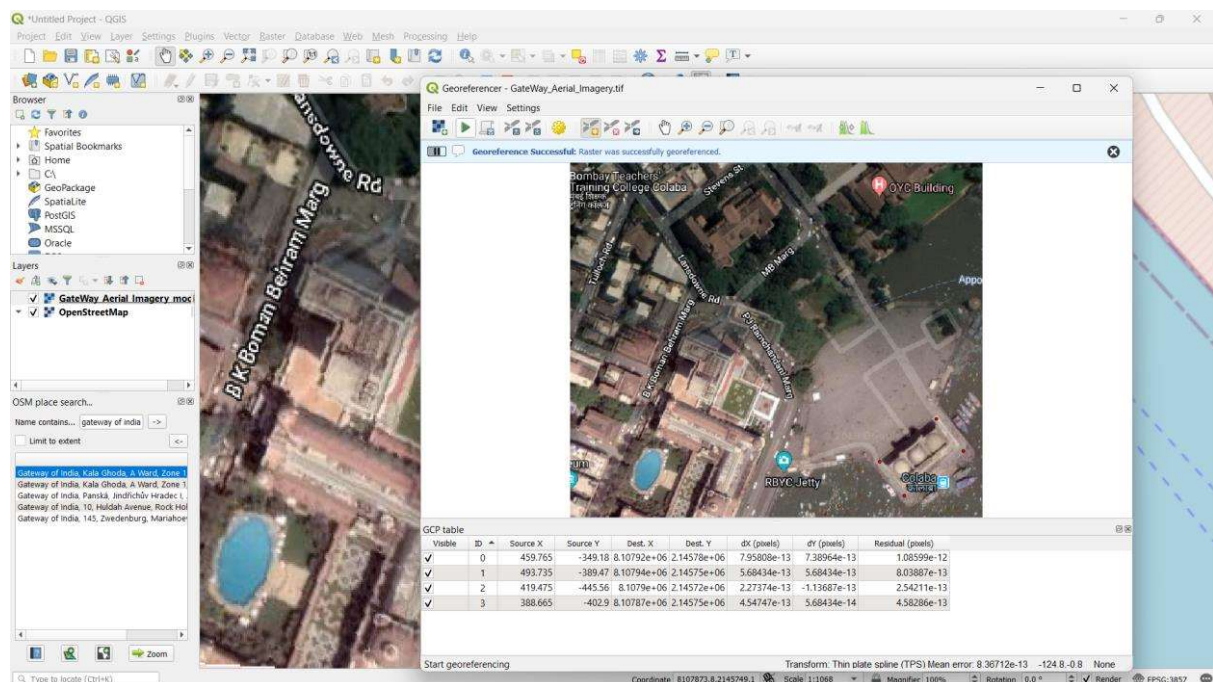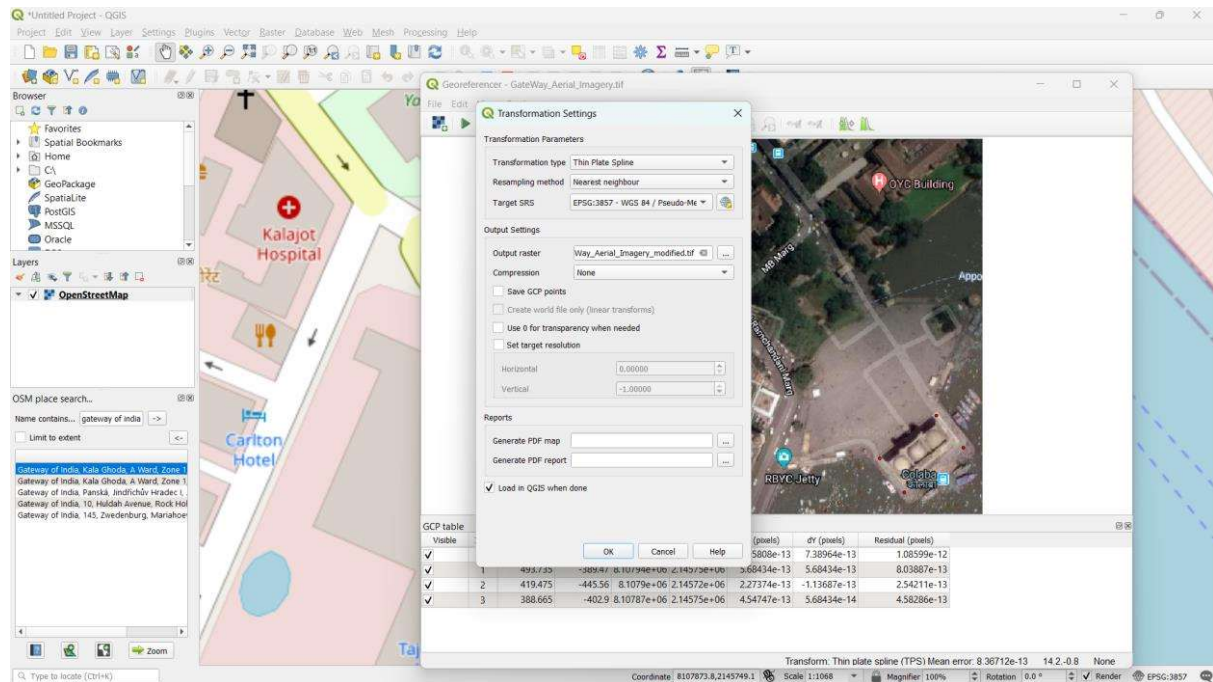

Step 13 – Raster > Georeferencer.

Step 14 – Using the open raster tool open the following .tif file.
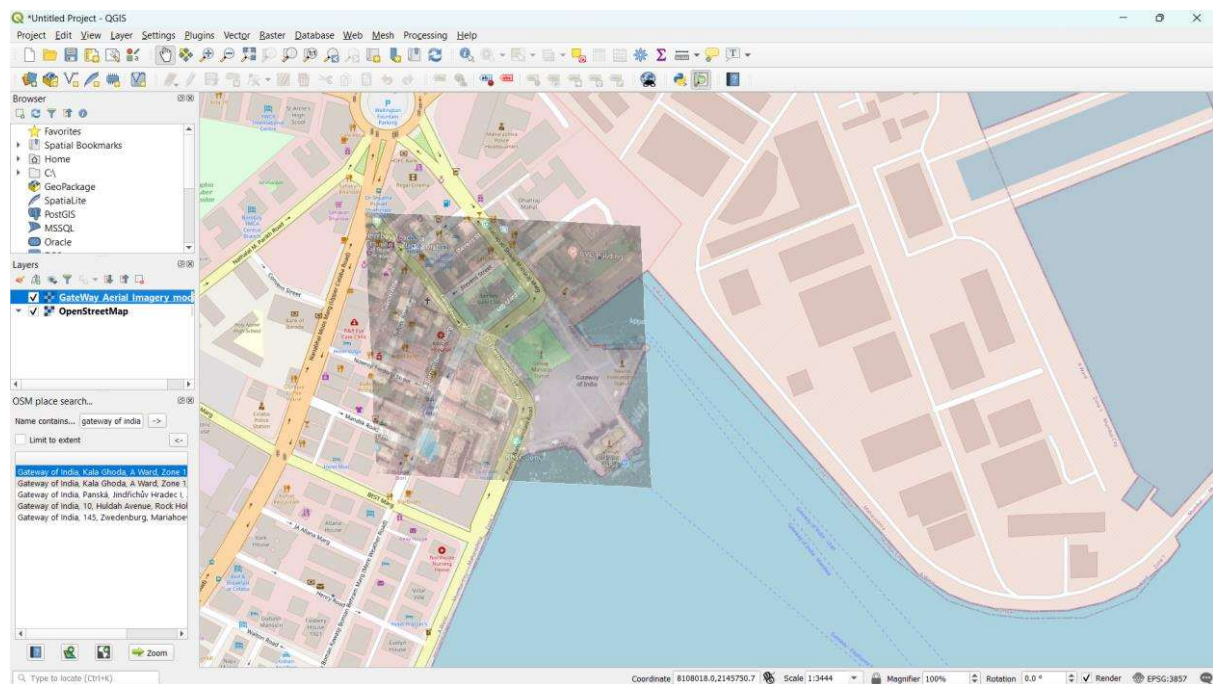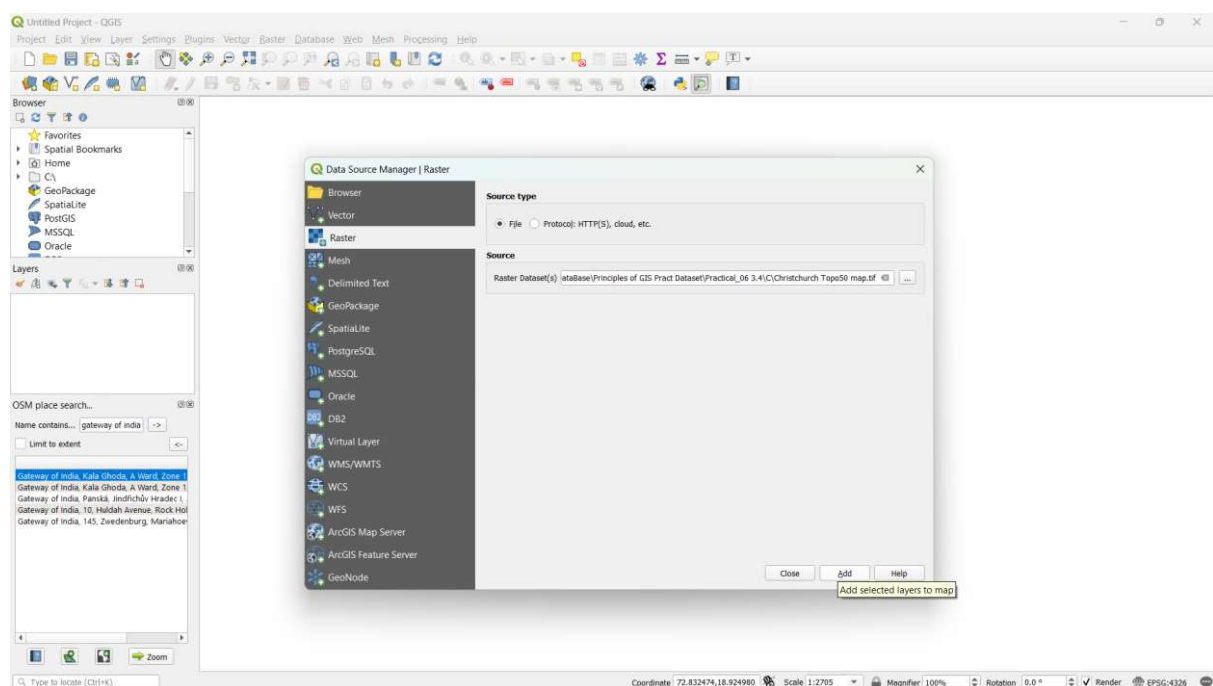

Step 15 – Add points as done before.

Step 16 – Set the following parameters in Transformation settings and then click run
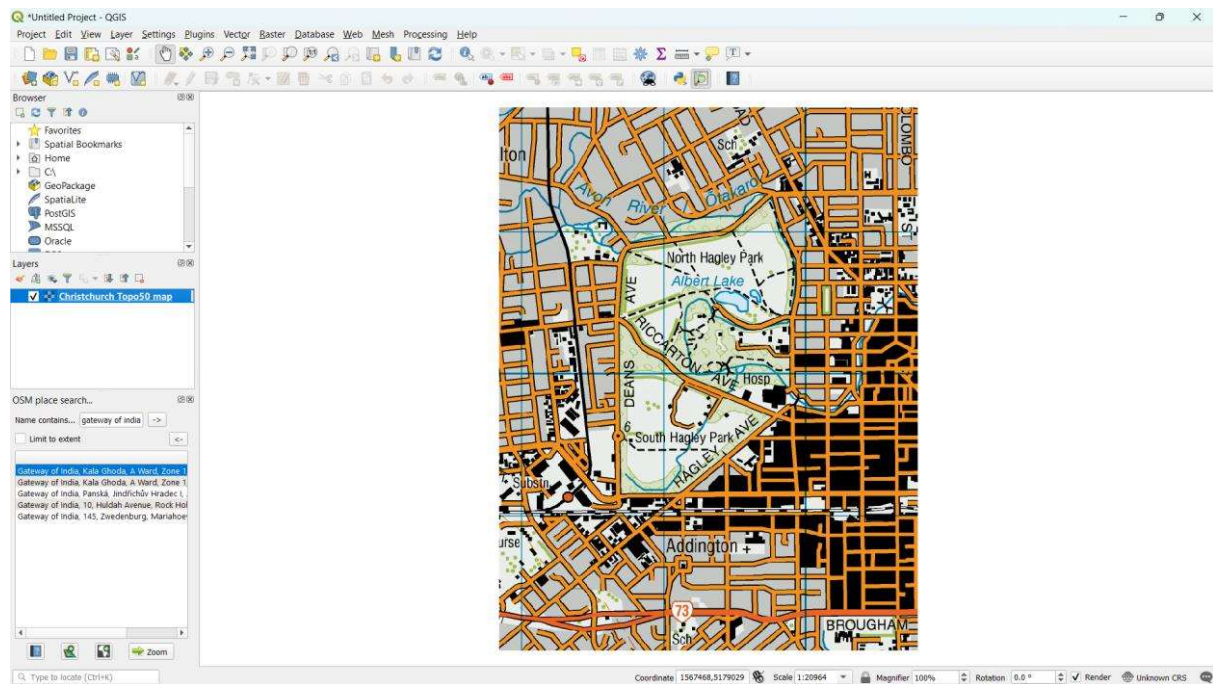
Georeferencing.

You can reduce the transparency to make sure that georeferencing is done properly.
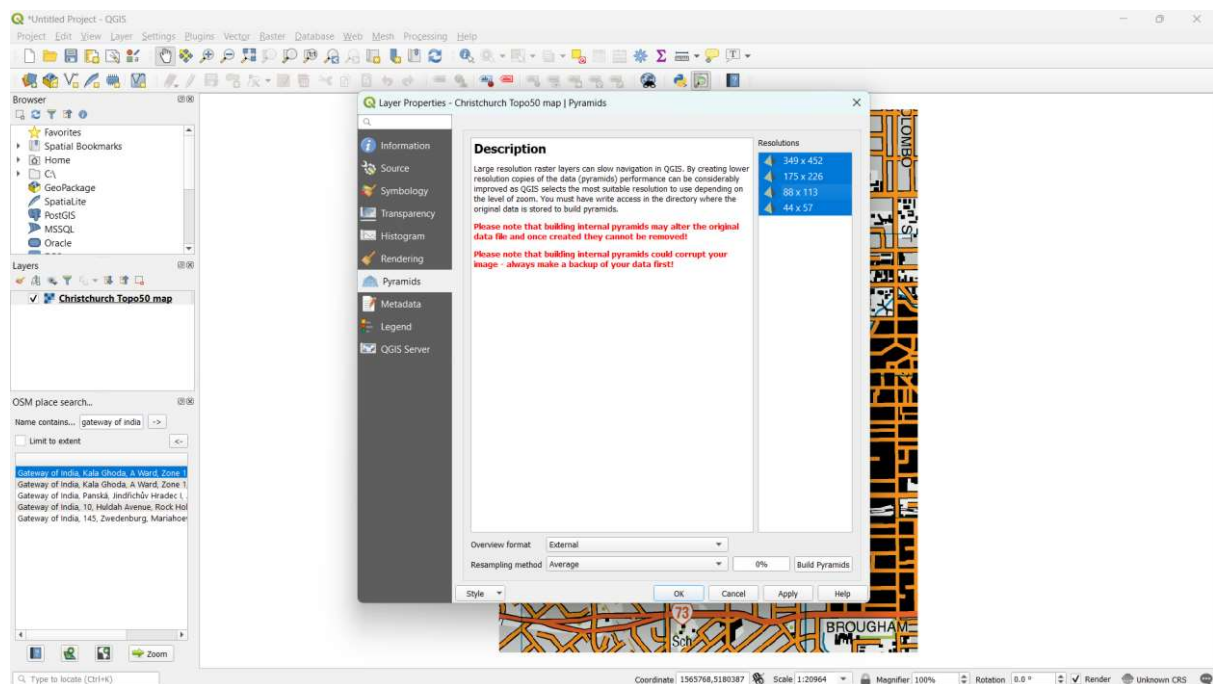

Step 17 – Now open a new project. Layer > Add new layer > Add Raster Layer. Select the following .tif file and hit add.
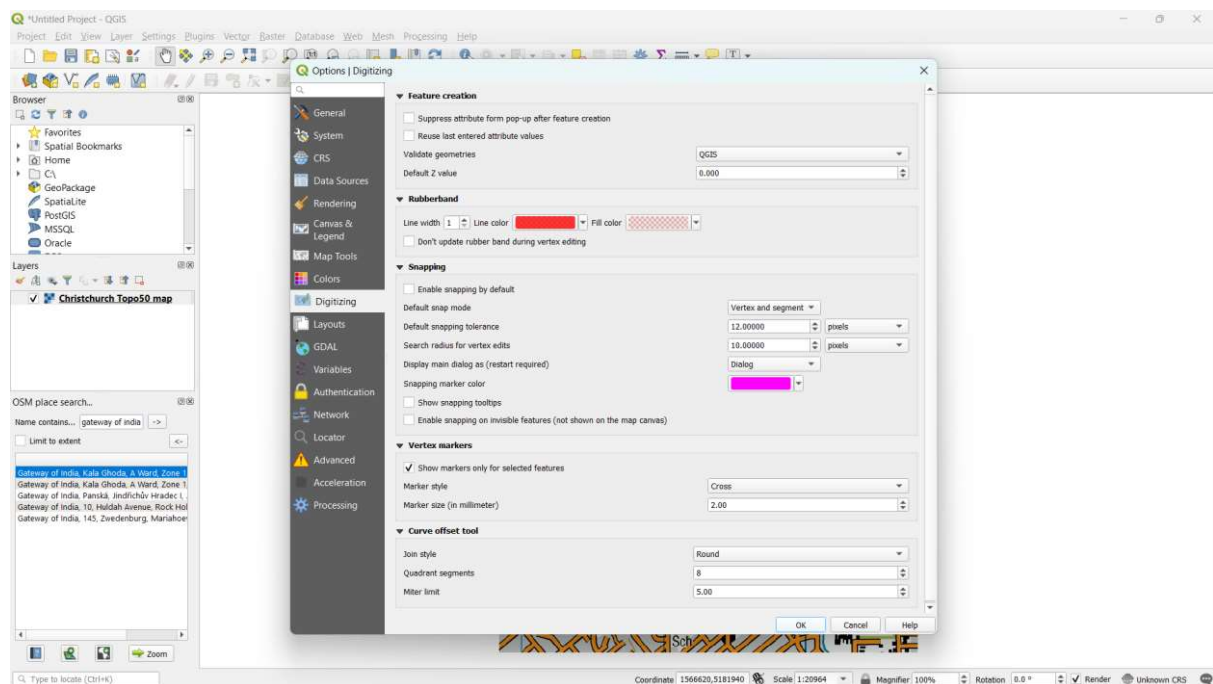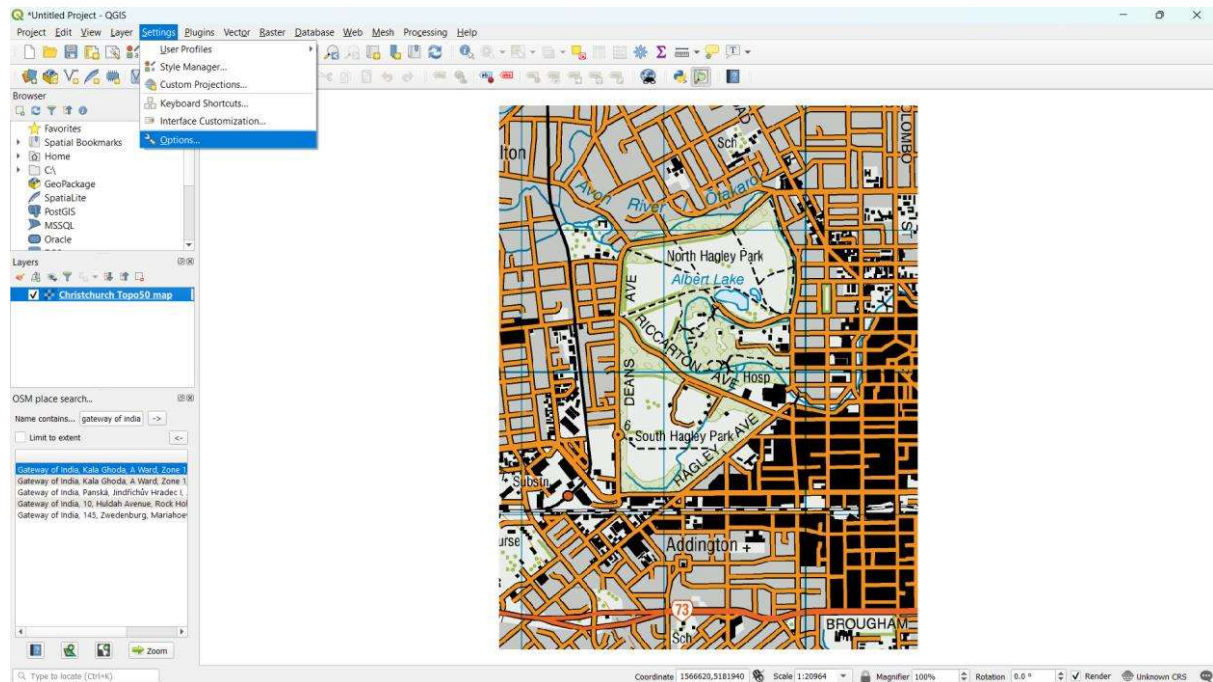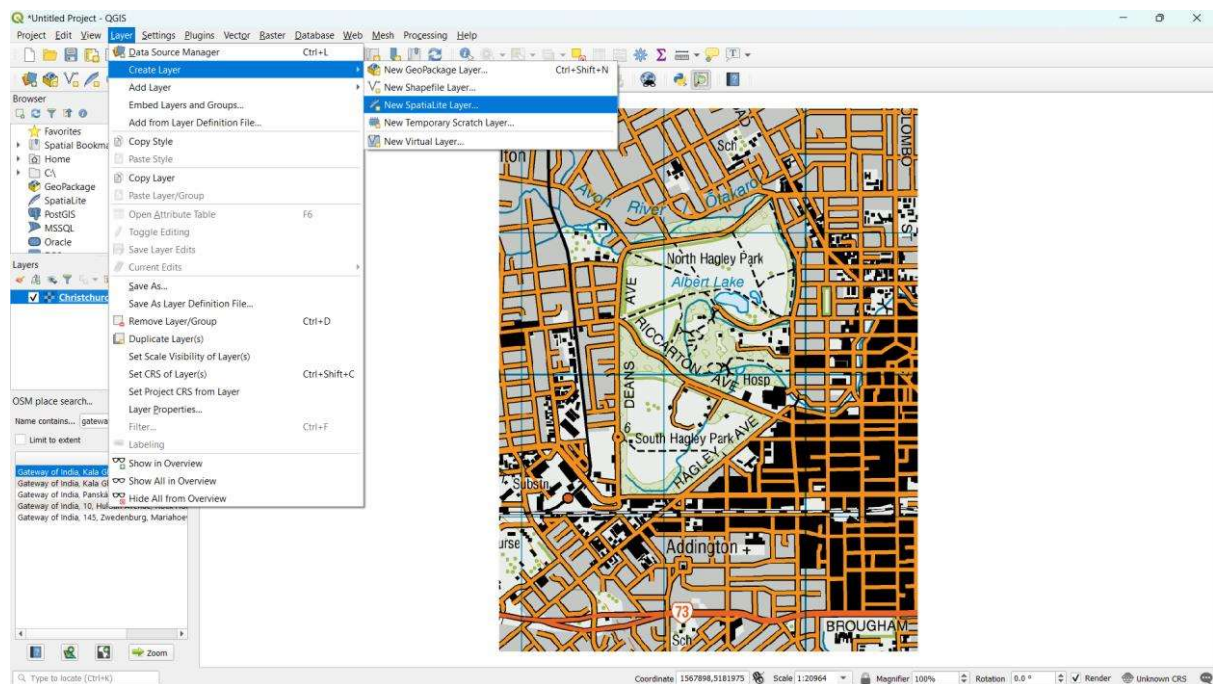
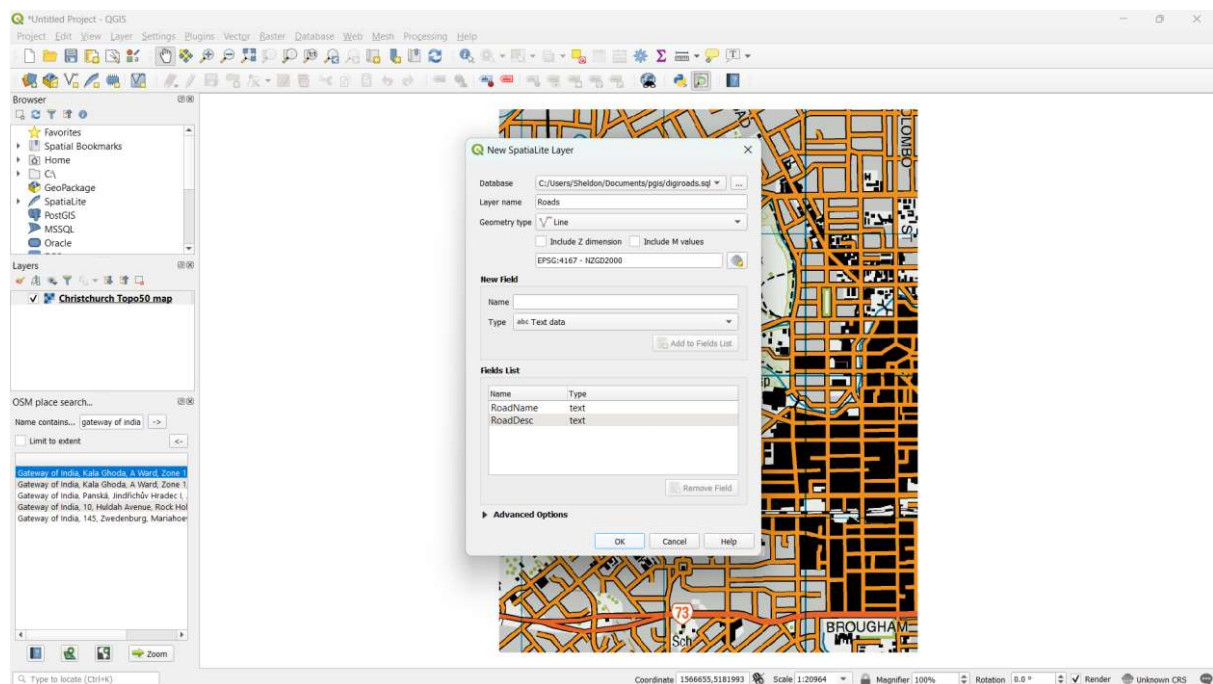Step 18 – Open leyer properties go to the pyramids tab, select all the pyramids and click build pyramids.

Step 19 – Settings > Option. Go to the digitizing tab and set the following parameters and click OK.
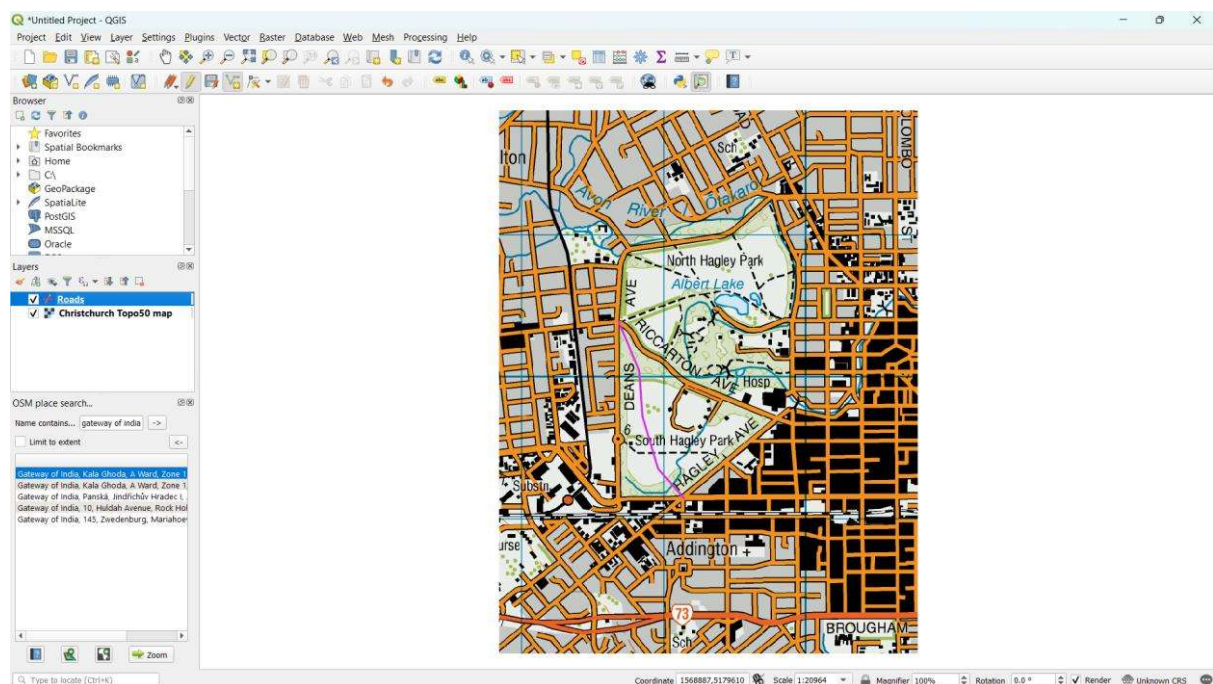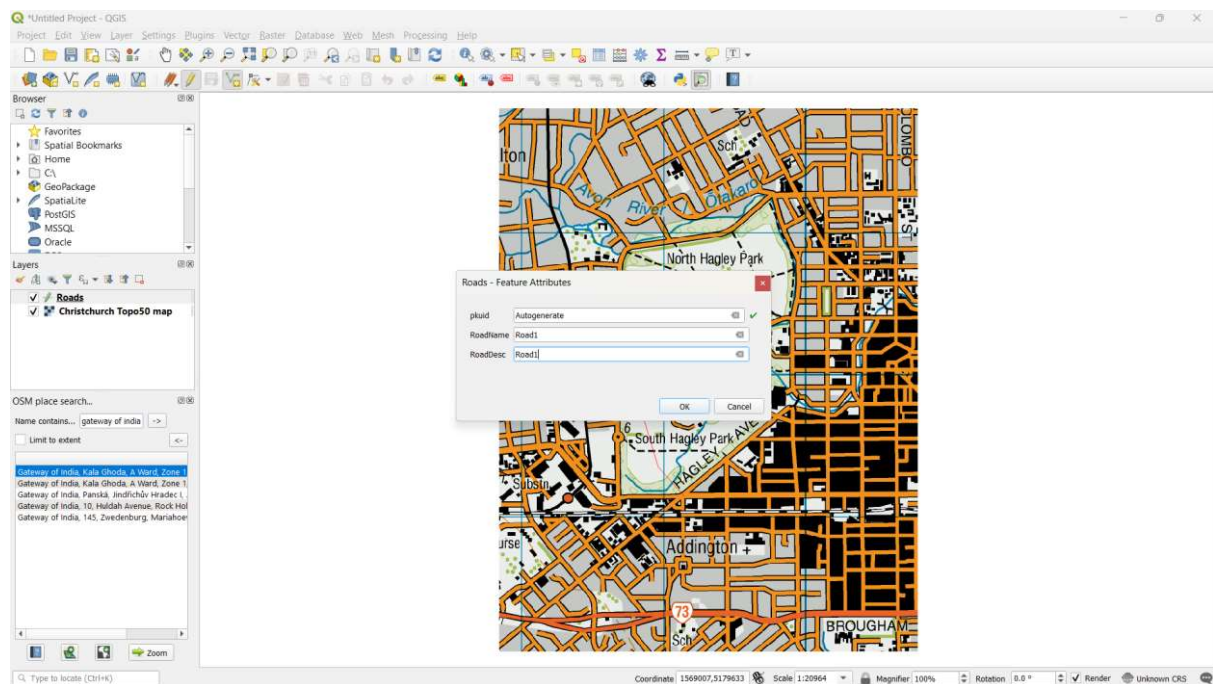
Step 20 – Layers > New Layer > New SpatialLite layer.

Step 21 – Set the following parameters and click OK.

Step 22 – Add roads as you like and change their properties.

Similarly you can add polygons, points, etc and even change their properties.