



Figure 14-9: Excavation Fields in Cimsa

14.4.1.2 Meteorological Condition

The proposed site is situated in a region with a typical Mediterranean climate. Wet and mild winters, combined with dry and hot summers are typical for the coastal zone around the Mediterranean Sea. This region can be regarded as one of the driest part of Turkey. The climatic variables such as, temperature, precipitation and relative humidity of the area were interpreted using long term records in Figure 14-10 to Figure 14-17.

The detailed information about the wind movements in the area has been illustrated in Figure 14-18.

The following results have been achieved by the discussion of the climatic graphics and maps.

Annual temperature average in the study area is 18.0 - 18.2 °C. The difference in temperatures between winter and summer is fairly small as a character of the Mediterranean climate in the region. Monthly average maximum temperature is 33 °C in August, average minimum temperature is about 5 °C in January. Monthly temperature average is about 28 °C during July and August , fallen to 25 °C in June and September. Monthly maximum average temperatures are consistent around 28 -33 °C specially in the summer months. To have a long period of high temperature values around the year may be considered as an catalyst to speed up the decomposition of the organic compounds in the open areas.

The average relative humidity in the region is 70-72%. This percentage is about 70-75% during winter , 68-70% during summer. To have that high and close relative humidity is because, the proposed site is in the marginal part. Together with the

relative humidity to have high temperature is a fact to decompose and decay inorganic disposal with the organic ones. Also this couple may lead to variety and overwhelming growth of micro and macrofauna of the region.

Yearly average of rain fall in the region is about 650 - 700 mm. Showers start by the end of October , and continue till mid April. Maximum rain fall is on December, January and February. We have the dry period between June and September.

Strong winds blow north northwest direction in winter , usually southwest direction in summer. North winds average speed in winter is 2.0 -2.5 m/sec. Summer winds do blow at 3.0 - 3.5 m/sec. There are about 6-7 days stormy per year. Very strong storms are rare. The proposed site is at northeast of Tekke village. Topographic structure in the north, north east and north west part of the site is more steep and has a wavy character. As emphasised before agriculturally rich fields are located mostly at southeast. When the winds in northeast - southwest axis are considered hole year around, there raises a risk of particulate matter on agricultural field and residential areas.

Annual mean of the clear (sunny) hours are 35% of the total day time. 15 % of the year is cloudy and 50% is partly cloudy. Sunny days are mostly in July, August and September and cloudy days are in December, January, February and March.