

7.3.1 Institutional Distinctiveness (2019-20)

According to the report of Relief Rehabilitation, Revenue, Forests Department, Government of Maharashtra, 2003-04 Chandwad tehsil is declared permanent drought area of Nashik district. Onion is the main crop and main source of livelihood in the region. Looking into geographical needs, the College decided to establish automated weather station for the well-being of community. The automated weather station provides all the important surface weather information. It also offers accurate forecasting options. This station is better than traditional ones because it provides accurate and frequent readings, has low power requirements, and can operate practically anywhere. The measurements taken include temperature, atmospheric pressure, humidity, wind speed, wind direction, and precipitation amounts. Wind measurements are taken with as few other obstructions as possible, while temperature and humidity measurements are kept free from direct solar radiation, or isolation. Visibility sensors utilize an infrared light transmitter and receiver to measure the amount of light scattering caused by obscurations such as rain, fog, dust and haze. The visibility data presented in an automated METAR is averaged over the 10 minutes prior to the observation. An automatic weather station (AWS) is co-located with the manual rain gauge for recording minute values of rainfall, temperature, relative humidity, wind speed, and solar radiation. Remote sensors used in wireless weather stations are powered by one of two sources of energy batteries or solar power systems. The solar panels power the sensors during the hours of daylight and at the same time recharge an attached battery pack, which is then used for sensor power after the sun goes down. Weather Station consists of a Display Unit (A digital Coloured LCD in our case). Sensors collect data like temperature, rain, wind, humidity, atmospheric pressure etc. and show on display screen. Some Best Wireless Weather Stations can even connect to computer or mobile. Department of Geography of our college formed a whatsapp group of around 150 farmers in Chandwad tehsil. Weather forecast is circulated among all the farmers to protect their crops from any natural disaster. The weather station is in tune with the institute's mission of linking education with the society and it is significant with the fact that unseasonal rains have destroyed crops frequently in the last few years. With the help of Weather station, the department of Geography can give warnings about adverse climatic change and minimise the loss of the farmers. Automatic weather station thus has a social value.


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