Criterion 7- Institutional Values and Best Practices

Metric No.

7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the manual.

Best Practice- I

1. **Title of the Practice**: "Rain Water Conservation and Solar Energy."

2. Objective of the Practice: -

- To Conserve Rainwater and use for the Botanical Garden and college campus trees.
- Efficient use of the rain water for the college campus greenery.
- To develop botanical gardens and to grow various trees on the college campus.
- Adequate use of natural resources for the institutional needs.
- To generate the energy using the solar system to meet of the electricity needs.

3. The Context: The college campus is located in the rural area of Nashik District. The location of the college area where the supply of water is very less but water is provided by the scheme of 36 village water supply plans. The water is provided after 8 to 10 days with the help of this scheme. The college has to face the water scarcity problem for a couple of years due to the low rainfall in this area. So, there is too much need to save the water and to use the available water efficiently to the college campus and botanical garden for the growth of trees. The college has established the rainwater harvesting unit for the collection system of water and stored water used for the plants of the botanical garden and plants of the college campus area. This collected water is also used for the other purpose of college campus needs. The college has its own separately 4 buildings located Main building, Science Building, the Library building, and the girl's hostel. The electricity use of the institution is very high. Before installing solar panels in the institution, the electric bill was near about 50 thousand per month. To deal with high electricity bill issues, the institution has installed its own solar power plant in the college. So, after the installation of solar panels, the electricity bill of institutions has decreased.

4. The Practice: The institution has developed its own water conservation system in the college campus for the management of water in the college campus. The institution has developed a rainwater harvesting tank for the collection and storage of rainwater for the

further use of water on campus. It is also collected rainwater into the well for further use and solved the problem of water scarcity. The institution has developed a plan for the utilization of collected rainwater for trees planted in the college campus and the botanical garden. The collected water has been provided to trees through the drip irrigation system to every plant on a college campus. The institution has installed a solar panel system on the roof of the main building of the institution to overcome the electricity bill. The solar panel are used for energy generation & to use it for the energy needs of institutions. The capacity of a solar power plant is 60 units per day. About 48 solar panels of 320 watts have been installed on the roof of the main building of the institution. A capacity inverter has been installed to convert the electricity by solar array from direct current to alternating current to use it for the institution and it also measures the energy produced by the solar array. The electric bill of college is reduced by many folds due to installation of the solar panel in the College and provided to the electricity board.

5. Evidence of Success: College has collected nearly about 1000 liters of water from the rainwater harvesting system. The college planted 920 trees around the institution campus and made them survive with the help of a rainwater collection system. The college has made available about a 1493-meter drip line for watering to the trees planted in the campus of the institute. The electricity consumption of the institution was more than 2000 units per month before the installation of the solar panel system. After the installation of solar panels, the institution's electricity bill lowered to 5 to 10 thousand from 40-50 thousand per month. And now the institution is becoming self-sufficient in its own energy needs.

6. Problem encountered and resources required: The institution faces the problem while collecting rainwater due to the less rainfall in this area than the other area of the districts. The institution has a smaller number of units for rainwater collection in the college campus area. The temperature of an area is very high in the summer and caring for small trees in the summer is too difficult due to the scarcity of water. Solar power generation is less in the rainy season due to the lack of sun rays. Electricity bill slightly increases in the rainy season due to less power being generated in the rainy season.

Best Practice II

1. Title of the practice: "Coronavirus swab collection center at college and Girls Hostel Facility of college as a quarantine Center for Covid -19 Patients."

2. Objective of the Practice:

- To provide the coronavirus swab collection center at the College.
- To provide the girls hostel for Covid-19 patients as a quarantine centre
- To provide the other facilities for Covid-19 patients in the hostels.

3. The Context: The College is a part of parent Institution Maratha Vidya Prasarak Samaj, which has a vision of 'Bahujan Hitay, Bahujan Sukhay'. Covid -19 swab collection center was arranged by MVP's Dr. Vasantrao Pawar medical college, Nashik at the college canteen for the collection of swabs from Nandgaon Tehsil. During the lockdown period, the Tehsil office of Nandgaon dist. Nashik arranged the quarantine center at college from February 2021 to till date for quarantine of extra-terrestrial people in the girl's hostel.

4. The Practice: During this swab collection, most of the people includes college teaching and non-teaching staff's swabs were Collected and tested**.** The results of swab testing exhibited the positive and negative reports. The College has provided the 30 beds for the Covid-19 patients for isolation in the girl's hostel. The college has also provided the water facility, ground facility and other facilities for the patient for recovering from the disease as early as possible. This facility has provided due to the lockdown period so students were not present in the college.

5. Evidence of Success: During this collection, total 140 people's swabs were Collected and tested. One faculty member of our college has been found a positive report. Most of the patients were quarantined in girl's hostel for quarantine period and after recovered they released from the center after the negative reports of patients.

6. **Problems Encountered and Resources Required:** There was big problems due to the water scarcity and high temperature in the Nandgaon tehsil. So, it effects on the Covid 19 patient during quarantine period in the college girl's hostel. The reports of swab collection of people delayed due to long distance between swab collection centre and swab testing lab.