

Criterion: 7.1.3

DVV Input/ Comments:

- 1) Please submit action taken reports and achievement report as clear and green campus initiatives.
- 2) Certificate from the external accredited auditing agency (preferably government, concern department of the affiliating university) covering all years.

Response:

- 1) The institution has taken significant steps in alignment with Criterion 7.1.3 by implementing various Green Campus initiatives, which have been thoroughly documented in the Self-Study Report (SSR). An action taken report has also been submitted to highlight the outcomes of these measures. These achievements include, earning the "Maharashtra Harit Sena" member certificate from the Government of Maharashtra for planting 300 trees near Kalamba Lake, decrease in composition of plastic waste in dustbins from 41 % to 21 % and capture of 24,789 kg of CO₂ through plantation endeavors. Another noteworthy accomplishment is the increase in the number of Electrical Vehicle users. The institution has also garnered appreciation from Sun Software and Infinite IT Company for contributions in delivering e-scrap materials for eco-friendly recycling and repurposing. Additionally, the institution has saved approximately 315 lakh liters of water annually through gardening, which would otherwise have been wasted. The collection of 11 lakh liters of rainwater during the Year 2020 monsoon is a testament to their commitment to resource conservation. Notably, the per capita electricity consumption of a consumer has dropped from 41.3 kWh to 28.8 kWh over the past three years, reflecting the institution's dedication to sustainability and creating an environmentally friendly campus.

To provide more comprehensive understanding of each initiative, the corresponding action taken, and its impact, below response table has been created, offering a detailed overview of the institution's strides toward a sustainable and eco-friendly campus. These accomplishments underscore the institution's commitment to environmental responsibility and sustainability.

- 2) Regarding the request for a certificate from an external accredited auditing agency, we wish to inform the committee that an Energy and Green Audit was diligently carried out for the Academic Years 2018 to 2022. This comprehensive audit was conducted by "Environmental and Civil Engineering Solutions," an agency that holds prestigious certifications, including ISO 9001:2015, ISO 14001:2015, and ISO 17025:2017, showcasing their commitment to quality, environmental standards, and testing competence.

Furthermore, it's noteworthy that this agency possesses a government registration certificate (**Govt. Reg. No - MH-29-0021271**), underscoring their credibility and legitimacy in their field of expertise. We also want to reiterate that the certificates and audit reports pertaining to this Energy and Green Audit have already been submitted within the Self-Study Report (SSR). As a gesture of transparency and to provide the committee with easy access to this valuable information, we again have included a link for your reference.

Details	Proof
Audit Report and Certificates	View Document

We trust that this information validates the thoroughness and professionalism of the Energy and Green Audit, assuring the committee of the audit's accuracy and its contribution to our



institution's commitment to sustainability and environmental responsibility. We remain at your disposal for any further inquiries or clarifications.

Sr. no	Details	Reference (Page Numbers)	Proof
1.	<p>1.Activity: Tree Plantation</p> <p>2. Action Taken: Regularly perform Tree Plantation Activity near Kalamba Lake and nearby places.</p> <p>3.Impact/ Achievement: Received “Maharashtra Haritsena” member certificate from the government of Maharashtra, upon planting 300 trees near Kalamba Lake.</p>	<p>1.Certificate Report Page No-1</p>	<p>Harith Sena Certificate</p>
2.	<p>1.Activity: Ban on Single-use Plastics:</p> <p>2. Action Taken: Implemented a ban on single-use plastics to reduce waste and environmental impact.</p> <p>3.Impact/ Achievement: The positive impact of the ban on single-use plastics is evident, as the composition of plastic waste found in dust bins for the year 2022-23 has significantly decreased to 21% (Environment Audit Report 2022-23), compared to the previous year 2021-22, where it stood at 41% (Environment Audit Report 2021-22). This substantial reduction underscores the success of our sustainability efforts in minimizing the presence of single-use plastics within our campus, promoting a cleaner and more eco-conscious environment.</p>	<p>1. Action Taken Report. Page No-03</p> <p>2. Single use plastic ban policy- Page No-2-4</p> <p>3.Audit Report 2021-22. Page No-19</p> <p>4.Audit Report 2022-23 Page No-20.</p>	<p>1.Action Taken Report.</p> <p>2. Single use plastic ban policy.</p> <p>3. Audit report- 2021-22</p> <p>4. Audit Report-22-23</p>
3	<p>1.Activity: Landscaping with trees and plants</p> <p>2. Action Taken: Enhanced campus greenery through landscaping efforts.</p> <p>3. Impact/ Achievement: A notable positive impact of our sustainability initiatives is the increase in tree planting from 2021-22 to 2022-23. For instance, in the case of Tecoma fulva chicklet plants, the count has risen from 28 to 30. This growth exemplifies our commitment to enhancing greenery within the campus and fostering a more environmentally friendly and sustainable environment for all. So, in the fiscal year 2021-22, our carbon sequestration efforts successfully captured 24,789 kg of CO₂, demonstrating our dedication to reducing carbon</p>	<p>1. Action Taken Report. Page No-04</p> <p>2.Audit Report 2021-22. Page No-37.</p> <p>3.Audit Report 2022-23 Page No-35.</p> <p>4. Green Campus Initiatives Report</p>	<p>1.Action Taken Report.</p> <p>2. Audit report- 2021-22</p> <p>3. Audit Report-22-23</p> <p>4. Green Campus Initiatives</p>



	emissions. Moreover, in the subsequent year, 2022-23, our impact has further improved, with a total of 26,140 kg of CO ₂ sequestered. These achievements showcase our continuous commitment to enhancing environmental sustainability and our positive contribution to mitigating climate change through increased carbon sequestration efforts.	Page No-23-26	
4	<p>1.Activity: "NO Vehicle Day"</p> <p>2. Action Taken: Observance of "No Vehicle Day": Promoted "NO Vehicle Day" on the second Saturday of each month to reduce carbon emissions.</p> <p>3.Impact/ Achievement: The institution has reduced its carbon footprint by implementing energy-efficient measures, promoting electric vehicle usage, and observing "No Vehicle Day."</p>	<p>1. Action Taken Report. Page No-02</p> <p>4. Green Campus Initiatives Report Page No-07-08</p>	<p>1.Action Taken Report.</p> <p>4. Green Campus Initiatives</p>
5	<p>1.Activity: Awareness Programs</p> <p>2. Action Taken:</p> <ul style="list-style-type: none"> • Street Play- "Plastic Free Campus Awareness" • World Bicycle Day Celebration • "Breathing Earth" Event. <p>3.Impact/ Achievement: Students have become more conscious of the harmful effects of plastic pollution on the environment, hence are conducted and participated in awareness programs like- Street play on "Plastic Free awareness Program and Breathing Earth. The engagement of students in these programs, has yielded significant positive outcomes. These initiatives have led to increased awareness of the harmful effects of plastic pollution among students, resulting in tangible changes in behavior, advocacy for sustainability, and a campus-wide impact.</p>	<p>1. Action Taken Report. Page No-02-03</p> <p>4. Green Campus Initiatives Report Page No-14-21</p>	<p>1.Action Taken Report.</p> <p>4. Green Campus Initiatives</p>
6	<p>1.Activity: Charging Points for Electric Vehicles</p> <p>2. Action Taken: Installed charging points to promote the use of electric vehicles.</p> <p>3.Impact/ Achievement: Staff members have been motivated to use electric vehicles, with the number of users increasing ,</p>	<p>1. Action Taken Report. Page No-02</p> <p>4. Green Campus Initiatives Report Page No-05-06</p>	<p>1.Action Taken Report.</p> <p>4. Green Campus Initiatives</p>



	contributing to reduced emissions		
7	<p>1.Activity: E- Waste Management</p> <p>2. Action Taken: We annually deliver e-scrap materials (monitors, keyboards, mice, cables, etc.) to authorized agencies for eco-friendly recycling and repurposing. This minimizes the environmental impact of electronic waste, promoting sustainability.</p> <p>3.Impact/ Achievement: The institution's commitment to E-Waste Management is commendable. By annually delivering e-scrap materials such as monitors, keyboards, mice, and cables to authorized agencies for eco-friendly recycling and repurposing, the institution has made a significant impact on environmental sustainability. This proactive approach has not only minimized the adverse environmental effects of electronic waste but has also garnered recognition and appreciation from industry leaders such as Sun Software's and Infinite IT Company. Their acknowledgment in the form of appreciation letters speaks volumes about the institution's dedication to responsible environmental practices. Moreover, this recognition has paved the way for the institution to expand its e-waste recycling efforts, ensuring that electronic materials are managed and processed in an eco-friendly manner.</p>	E- Waste Management Report Page No-04-10	E- Waste Management Report
8	<p>1.Activity: Water Conservation Measures</p> <p>2. Action Taken: Treated Supernatant Water used for Gardening.</p> <p>3.Impact/ Achievement: In implementing this water conservation and waste water management initiative, the campus has effectively saved approximately 31536000 liters of water annually from gardening which would have otherwise gone to waste. This effort not only promotes responsible resource management but also significantly contributes to the reduction of water wastage in the surrounding environment.</p>	Water Conservation Measures Report Page No-06	Waste Water Management
9	<p>1.Activity: Water Conservation Measures</p> <p>2. Action Taken: Rain Water Harvesting</p>	Water Conservation Measures Report Page No-12	Waste Water Management



	<p>3.Impact/ Achievement: The institution has taken significant steps towards water conservation through the implementation of Rain Water Harvesting measures. Covering a total area of 12,000 square feet (approximately 1115 square meters) of rooftop, this initiative has proven to be highly effective. In the year 2020, with an average rainfall of 995.3 millimeters in Kolhapur City, a remarkable 1,109,759.5 liters of rainwater was successfully collected throughout the entire rainy season. This achievement underscores the institution's commitment to sustainable practices and its contribution to alleviating water scarcity concerns in the region, making a substantial impact on local water resources preservation.</p>		
10	<p>1.Activity: Energy Conservation Measures 2. Action Taken:</p> <ul style="list-style-type: none"> ● Sensor-based Solar Street Lamps ● Sensor-Based Lighting-Utilization of Passive Infrared Sensor (PIR) ● Use of LED Tube lights/bulbs. ● Star Ratings Air Conditioners ● Brushless Direct-Current (BLDC) Motor Fans. <p>3. Impact/ Achievement: The institute has been experiencing remarkable growth, with the student population surging from 565 in 2018 to 1185 in 2022-23. This expansion has posed a significant challenge for energy consumption. However, the institute has demonstrated a proactive commitment to sustainability through the installation of various energy conservation measures. These measures include the adoption of LED lights, BLDC fans, solar street lamps, sensor-based lighting systems, and high-efficiency air conditioners. Despite the growing infrastructure required to meet the demands of the increased student body, the institute has effectively managed its electricity consumption. This is evident in the electricity bills, which reveal a noteworthy reduction in per capita electricity consumption of a consumer, dropping from 41.3 kWh to 28.8 kWh over the past three years. This achievement reflects the institute's dedication to energy efficiency, cost savings, and a greener, more sustainable future.</p>		<p>View Document</p>



A.Y	Approximate Consumers (Students, Staff & Visitors)	Average Energy Consumed Annually	Per Capita Energy Consumption		
2020-21	935	38628 kWh	41.3 kWh		
2021-22	1166	43380 kWh	37.2 kWh		
2022-23	1284	36984 kWh	28.8 kWh		

