

CENTRAL SANSKRIT UNIVERSITY

ESTABLISHED BY AN ACT OF PARLIAMENT, 2020

[UNDER MINISTRY OF EDUCATION, GOVT. OF INDIA]

NEW DELHI - 110058



GREEN CAMPUS POLICY



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डॉ. मंधा श्रीनिवास्/Dr. Mantha Srinivasu परियोजना अधिकारी/Project Officer केन्द्रीय संस्कृत विश्वविद्यालय Central Sanskrit University शिक्षा मन्मासम्, मारत सरकार के अधीम Under Ministry of Education, Govt, of India 56-57, संस्थापत सेन, जनकपुरी, मह दिल्ली - 110058 56-57, Institutional Area, Janakpun, New Delhi - 110058

Prof. Ranjit Kumar Barman Registrar (I/c)

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New Delhi – 110 058

GREEN CAMPUS POLICY

I. INTRODUCTION

Universities have long been agents of change – catalysts for social and political action as well as centres of learning. Universities not only educate most of the world's leaders, decision-makers and teachers and advance the boundaries of knowledge, but as major employers and consumers of goods and services they play a significant economic role nationally and globally.

Given the ascribed role of Universities in society, and the prevailing environmental and sustainability challenges, Universities are coming under increasing pressure to engage with and respond to climate change and other sustainable development issues and the associated risks and opportunities. They are expected to be the engines and innovation centres for sustainable development through teaching and learning, research, and knowledge transfer. Critically, universities' educational role does not end with undergraduate and postgraduate learning; it extends to the plethora of activities which support and extend the teaching and research core: campus management and operations; campus planning, design, construction and renovation; purchasing; transport; and engagement with the wider community. Awareness is also growing in the higher education sector that universities can teach and demonstrate the theory and practice of sustainability through taking action to understand and reduce the unsustainable impacts of their own activities. Linkage of curricula and campus operations under the aegis of sustainability can create a powerful "shadow curriculum" which emphasizes the nexus between theory and practice.

Education has been described as humanity's best hope and most effective means in the quest to achieve sustainable development. In this context, Central Sanskrit University has a special responsibility to help define and to exemplify best practices.

या आनिवास/Or Mantha Srinivasu परियोजना अधिकारी/Project Officer

केन्द्रीय संस्कृत विश्वविद्यालय Central Sanskrit University शिवा मन्वालय, पारत सरकार के अधीन Under Ministry of Education, Good, of India 6-57, संस्थानत क्षेत्र, जनसङ्ग्री, नई विस्ती - 110058 , Institutional Area, Janakpuri, New Delhi - 1100 Page 1 of 14

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Registrar (I/c)

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II. PREAMBLE

A Green Campus is a place where environmentally friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social, and economic needs of the mankind.

A green campus is a higher education community with optimum land use, environmental planning and resource management i.e., improving energy efficiency, conserving resources, enhancing environmental quality including habitat preservation, healthy living environment, use of renewable energy and management of wastes, water recycling etc. The buildings within the campus should be based on green building concepts to the extent possible.

Greening the campus is all about sweeping away wasteful inefficiencies and using conventional sources of energies for its daily power needs, correct disposal handling, purchase of environment friendly supplies and effective recycling program. Institute must work out the time bound strategies to implement green campus initiatives. These strategies need to be incorporated into the institutional planning and budgeting processes with the aim of developing a clean and green campus.

III. SCOPE OF THE POLICY

The Green Campus, Energy and Environment Policies will develop exciting new co-curricular and extracurricular practices that encourage students to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, administrative functions from the standpoints of energy efficiency, sustainability, and the environment.

The focus areas of this policy are:

- Clean Campus Initiatives
- > Landscaping Initiatives
- Clean Air Initiatives

• Smoking Free Campus

त. मंथा श्रीनिवास्/Dr Mantha Srinivasu

परियोजना अधिकारी/Project Officer केन्द्रीय संस्कृत विश्वविद्यालय Central Sanskrit University शिक्षा मन्त्रासय, भारत सरकार के अधीन Under Ministry of Education, Govt. of India 56-57, संस्थायत केन, जनकपुरी, नई दिल्ली - 110058 -67, Institutional Area, Janakpuri, New Deihi - 110058 Page 2 of 14

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Registrar (I/c)

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- ➤ Infrastructure
- > Solar Power Plant
- > Installation of Energy Efficiency Equipment
- ➤ Water Conservation through Rainwater Harvesting System
- Waste Management processes
 - Solid Waste Management
 - Liquid Waste Management
 - E-Waste Management
- > Awareness Initiatives
- > Environment-centric Student Societies and Department Activities
- > Green Audit
- > Energy Audit
- ➤ Plastic-Free Campus
- > Procurement

IV. OBJECTIVES OF THE POLICY

- > To protect and conserve ecological systems and resources within the campus.
- > To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- > To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
- ➤ To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
- ➤ To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- ➤ To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible. To make the campus plastic free.
- > To conduct environmental and energy audits from time to time.

To minimize the use of paper in administration through having policy for E-governance.

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था श्रीनिवासु/Dr. Mantha Srinivasu परिनिजना आमकस्त्रामाः (अस्तिवना आमकस्त्रामाः) केन्द्रीय संस्कृत विश्वविद्यालय

Central Sanskrit University विद्या मन्त्रमण, मारत सरकार के अधीन Under Ministry of Education, Govt, of India 56-57, संस्थानत क्षेत्र, बामकपूरी, मई हिन्दी - 11005a 57, Institutional Area, Janakpuri, New Delhi - 11005a Page 3 of 14

Prof. Ranjit Kumar Barman

Registrar (I/c)

Central Sanskrit University

V. POLICY:

(A) CLEAN CAMPUS INITIATIVES:

CSU had pledged to actively coordinate cleanliness activities in the campuses/affiliated institutions and beyond the campus in accordance with the vision of 'Swachh Bharat Abhiyan'.

It commits to continue with this Programme. The broad vision is as follows:

- 1. Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives. The idea is to motivate them to contribute in a proactive manner.
- 2. Activities under 'Swachh Bharat Abhiyan' will be a key component of all the community work being done by NSS, NCC and Green Society volunteers of the university.
- 3. Staff Members will be encouraged to participate in the cleanliness drive in the campuses/affiliated institutions.
- 4. Events such as poster and slogan competitions, essay writing, spoken word poetry, speeches, skits on 'Swachh Bharat' will be organized.
- 5. Rallies on themes connected with 'Swachh Bharat Abhiyan' in and around the campus will be conducted to create mass awareness.
- 6. Remove all kinds of waste material like broken furniture, unusable equipment etc.
- 7. Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis.
- 8. Conduct workshops on the 'RRR': Reducing, Reusing and Recycling of waste.
- 9. Commit to manage waste and maintain clean campus especially during college events.

डॉ. मंथा श्रीनिवासुग्णा Mantha Srinivasu परियोजना अधिकारी/Project Officer केन्द्रीय संस्कृत विश्वविद्यालय

प्रगास अपनुष्ट स्वाचनार्याः Central Sanskrit University दिता बनावय, भारत सरकार के जपीन Under Ministry of Education, Govt. of India 3-57. संस्थागत केंद्र, जनकर्युं, मही हरत्ये - 110058 Institutional Area, Janakpuri, New Delhi - 110058

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(B) LANDSCAPING INITIATIVES:

The campus landscape, like its buildings, can be seen as the physical embodiment of universities values. It is a vital part of the life of a providing space for study, play, outdoor events, relaxation campus, and aesthetic appreciation. Green campus landscapes also manage groundwater, and clean and cool the air on runoff, help recharge campus. The landscape serves as a visual representation of campus community's commitment to sustainability. campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness around the environment.

The CSU commits to enriching of healthy habitat and maintaining the symbiotic relation of the university with nature by

- Organizing annual tree plantation drives
- Encouraging student societies to hold tree planting events

(C) CLEAN AIR INITIATIVES

CSU encourages the students and staff to use public transportation. CSU encourages carpooling to campus(es), an activity that will control air pollution and strengthen social interaction. The entry of automobiles inside the campus is restricted to discourage the use of private vehicles.

➤ SMOKING FREE CAMPUS:

In compliance with the framework provided by the National Tobacco Control Programme (NTCP) 2007-2008, the CSU prohibits smoking and the use of other tobacco products. CSU has partnered with *Police* at Campus levels and *World Lung Foundation-South Asia*, in promoting a tobacco free environment. As a step in this direction, smoking and use of tobacco in and around the campus is strictly prohibited. The antismoking committee of the college ensures enforcement of the antismoking policy.

डॉ. मंधा श्रीनिवासु/or. Mantha Srinivasu

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(D) INFRASTRUCTURAL INITIATIVES

RENEWABLE SOURCES OF ENERGY:

CSU is dedicated to minimizing and sustainably managing its use of electricity. The university believes in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy for purposes like lighting the campus.

> ENERGY SAVING AND ENERGY EFFICIENT EQUIPMENT:

We commit to install environment-friendly electrical appliances that save energy and reduce wasteful inefficiencies. The college believes in using cleaner energy such as LED lighting.

➤ WATER CONSERVATION THROUGH RAINWATER HARVESTING SYSTEM:

As the CSU campuses/affiliated institutions are located across the country, the area that has seen maximum fall of ground water levels, CSU has committed itself to this effort to replenish the groundwater table by practicing rainwater harvesting. This practice helps in the replenishment and recharge of the groundwater.

(E) WASTE MANAGEMENT PROCESSES

CSU strives to have a minimal impact on the environment and is dedicated to reducing and managing the waste generated in the campuses. The following specific procedures will be undertaken to ensure CSU's contribution in protecting the environment.

i. SOLID WASTE MANAGEMENT

With its aim to provide holistic education that also has a positive impact on the environment, the CSI will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

• Systematically engage with the 3Rs of environment friendliness (Reduce, Reuse and Recycle).

iधा श्रीनिवास्/pr. Mantha Srinivasu परियोजना अधिकारी/Project Officer केन्द्रीय संस्कृत विश्वविद्यालय

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- Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- Reduce solid waste by developing a technology-centric teaching and administrative model.
- Reduce use of paper by supporting digitization of attendance and internal assessment records.
- Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
- Encourage the students and teachers to use emails for assignment submissions.
- Take initiatives to spread awareness amongst students about Food wastage and ways of minimizing it
 - o Minimizing the use of packaged food.
 - The habit of reusing and recycling nonbiodegradable products.
 - Organizing workshops for students on solid waste management.

ii. LIQUID WASTE MANAGEMENT

- Maintain leak proof water fixtures.
- Minimize the use of water by constructing more Indian style toilets instead of western style toilets.
- Continued employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush etc.
- Prevention of release and mixing of oil from the college canteen liquid waste in the municipal drainage system by use of Grease trap mechanism. This way the Biochemical Oxygen Demand is reduced in the effluent waste water produced bin the canteens.
- Reuse of wastewater generated by the Reverse Osmosis (RO) system in washrooms.

iii. E-WASTE MANAGEMENT

CSU ensures that its usage of technology and generation of ewaste does not impact the environment. For this purpose, the college plans to strive towards:

डॉ. मंधा श्रीनिवासुग्ठाः Mantha Srinivasu परियोजना अधिकारीग्राञ्चल Officer

केन्द्रीय संस्कृत विश्वविद्यालय Central Sanskrit University क्रिका मन्त्रावम, भारत सरकार के अगीन Under Ministry of Education, Govt. of India 58-57, संस्थानत क्षेत्र, जनकपुरी, नई दिल्ही - 110058 8-57, Institutional Area, Janakpuri, New Delhi - 110058

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- More provisions for the disposal of the institutional e-waste.
- Collaboration with e-waste recycling companies to get electronic waste recycled.
- Awareness amongst students about reduction of e-waste and environment friendly disposal practices for e-waste.
- Encouraging department and society level activities pertaining to e-waste management.

(F) AWARENESS INITIATIVES

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. Therefore CSU supports and encourages awareness campaigns, seminars, workshops, conferences and other interactive sessions to facilitate effective implementation of the Green Campus, Energy and Environment policies.

i. ENVIRONMENT-CENTRIC STUDENT SOCIETIES AND DEPARTMENT ACTIVITIES

CSU encourages all the departments and specific student societies like Green society, NSS, NCC and others to organize events, competitions and training sessions that will bring about positive environmental changes at the grassroot level. The college supports departments and student societies in moulding the students into active agents of environment protection and conservation.

ii. GREEN SOCIETY

Institutional changes towards sustainability and eco-friendly practices have percolated down to the students which have led more and more students to join Green Society. Making the society a compulsory one will provide it a bigger platform to broadcast the institution's environmental values to raise awareness. Because compulsory societies expect the fulfillment of a specified number of hours of work and commitment, this will aid the green initiatives and practices that are a part of this policy to grow exponentially.

डॉ. मंथा श्रीनिवास/Dr. Mantha Srinivasu

केन्द्रीय संस्कृत विध्वविद्यालय Central Sanskrit University विश्वा मन्त्रालय, शारत सरकार के अधीन Under Ministry of Education, Govt, of India 8-57, संस्थानत क्षेत्र, नक्षपुरी, नव विस्ती - 110058 Institutional Area, Janakpurt, New Delhi - 110058

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(G) CONDUCT GREEN AUDIT

The CSU aims to regularly conduct a Green Audit of our college campus to assess our strengths and weaknesses to further our goals of long-term sustainability. A green audit is a useful tool to determine how and where most energy or water or resources are being used. The CSU can then consider how to implement changes and make savings. It can determine the type and volume of waste. Recycling projects or waste minimization plans can be adopted. It will create health consciousness and promote environmental values and ethics. It provides a better understanding of the impact of eco friendly practices on campus. Green auditing will promote financial savings through reduction of resource use. It is imperative that the college evaluate its own contributions toward a sustainable future.

(H) **CONDUCT ENERGY AUDIT**

An Energy Audit to be conducted as and when required to further reduce its carbon footprint. The importance of reducing energy consumption cannot be overstated. The energy audit, with its specialized tools will identify wastage of energy. Such an inspection often reveals several different flaws which cause a loss of significant amounts of energy which the college will not be able to detect. These flaws often have easy and affordable solutions and provide significant savings.

(I) PLASTIC-FREE CAMPUS

CSU has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a 'Plastic Free Campus'.

(J) PROCUREMENT

CSU adhere the Standard sustainability criteria for tender evaluation include or while procurement through Government e-Market (GeM):

Internal sustainability management practices ISO 14001(environmental) / 9000 (quality) certification; existence of signed sustainability policy; any actions or findings against the

supplier in past 2 years. डॉ. मंथा श्रीनिवासु/Dr Mantha Sriniva

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Sentral Sanskrit University तिका मनावार, मार्कित सरकार के अधीन ler Ministry of Education, Govt. of India संस्थात क्षेत्र, जनकपुरी, गई दिस्ती - 110058 autional Area, Janakpuri, New Delhi - 110058

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Services/goods sustainability attributes — certification to a robust environmental label; providers who offer eco-design/eco-manufacture in the use of recycled content, tight management of GHG emissions, design for disassembly and recycling, best practice e-waste management, product/packaging take-back, recyclable packaging.

(K) GREEN OFFICE (e-OFFICE)

Central Sanskrit University's Green Office is keen to deploy and integrate all its administration (daily) through paperless i.e. e-Office for this negotiations with NIC, Delhi are on the way. Also, Ministry of Education has supplied and directed for use of SAMARTH platform for e-Governance.

(L) GREEN IT

Information technology (IT) or more broadly, information and communication technology (ICT) is a pervasive element of Central Sanskrit University. IT integrates a spectrum of sustainability aspects – energy use, procurement, waste management, and even campus development (consideration of computer heat loads in building design). To address the impacts of information technology amalgamated into a separate "Green IT" plan.

VI. CSU, WHILE DEVELOPING THE GREEN CAMPUS(ES), STRICTLY ADHERING TO THE GUIDELINES BELOW:

(A) FOR DEVELOPMENT OF EXISTING CAMPUS AS GREEN CAMPUS

- i. The energy audit and water audit of the entire campus should be carried out through registered certified professionals and the base line for the energy and waterconsumption should be defined.
- ii. Energy efficient measures including energy efficient street lighting system with proper control, low energy fixtures, energy efficient pumping system, energy efficient motors and other equipment's, sensors for lighting, use of energy star rating equipments, improvement of power factor, use of variable frequency drive and other energy efficient technologies should be adopted and reflected

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- iii. Utilization of renewable energy system such as solar water heater, solar air conditioning, solar dryers, solar cookers, solar lantern, solar pumps, solar traffic signals, battery operated vehicle, hybrid systems etc. should be explored.
- iv. Solar cooking systems must be utilized for hostels/hospitals etc. All houses, hostels, kitchen must have solar water heaters (including multi-storied buildings).
- v. The buildings in the campus should have rooftop SPV systems preferably grid connected systems.
- vi. A master plan for the entire campus should be prepared keeping in view the overall reduction in fossil fuel-based energy by 25% within next 5 years by utilizing renewable energy applications and taking suitable measures for energy conservation and energy efficiency.
- vii. The master plan should be site specific and should have minimum 5 numbers of implementable a detailed project reports as per
 - guidelines of MNRE and BEE under various schemes. An audit report should be prepared and submitted along with the master plan.
- viii. An awareness/training workshop should be organized in the campus regarding renewable energy applications and taking suitable measures for energy conservation and energy efficiency.
 - ix. Suitable architectural retrofit options for building envelop (floor, roof, walls etc.) and energy efficient glasses for windows should be explored and included in the report.
 - x. The possibility of redesigning of exterior surfaces of the buildings with energy efficient material may be explored.
 - xi. Any other innovative actions/points to be taken for making existing green campus.

डॉ. मंधा श्रीनिवास/Dr. Mantha Srinivasu

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Registrar (I/c)

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(B) FOR DEVELOPMENT OF NEW CAMPUS AS GREEN CAMPUS

- i. Simply making green buildings would not create a green campus; however, it should be sustainable also. A green campus should follow the optimum path for:
 - ➤ land use vis-à-vis population density
 - > Vertical or horizontal growth
 - > Infrastructure including pitched roads
 - > Transport (more walkability & less use of vehicles)
 - Renewable energy use and Energy conservation,
 - > Waste management and water conservation
- ii. All buildings in the campus may be green buildings preferably rated with rating systems in vogue i.e. GRIHA, LEED India, ECBC compliant buildings etc.
- iii. A master plan for the entire campus should be prepared keeping in view the overall reduction in fossil fuel-based energy by 25% within in next 5 years by utilizing renewable energy applications and taking suitable measures for energy conservation and energy efficiency.
- iv. The master plan should be site specific and should have minimum 5 numbers of implementable a detailed project reports as per guidelines of MNRE and BEE under various schemes.
- v. The master plan of the campus should follow optimum floor area ratio, controlling of soil erosion, avoiding contamination of air and natural water bodies. The natural water bodies and trees should be protected accordingly the layout plan should be prepared.
- vi. Dense planning may be preferred over dispersed layout to avoid use of excessive motorized transport and land use and unnecessary construction of infrastructure like sewerage/water lines, roads, and electricity cables.

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- vii. Major portion of land should be planned as green belt as per prevalent bye laws. This should include tree and water bodies' preservation, natural topography conservation and tree plantation, restoring and reuse of contaminated sites, farming of different crops, fruits, vegetables etc. for internal use.
- viii. Encourage the use of public transportation with better road planning to reduce fossil fuel consumption, use of alternate fuel vehicles such as CNG, biofuels, electric vehicles, solar vehicles with charging station, bicycles. Infact, fossil fuel vehicles should not be allowed in campus and parked at entry gate to the extent possible.
- ix. The layout plan should be such that each point should be reached from any other by walking to the extent possible. This would also require shading for footpaths and pathways through tree cover and proper streetlight designing for optimum lux level in the night.
- x. Optimize parking with underground parking systems preferably near gate should be considered and the cycle path should be given preference to the extent possible.
- xi. Water conservation through rainwater harvesting, use of efficient water fixtures, wastewater recycling should be an integral part of the building designs and layout.
- xii. Energy efficient measures including energy efficient street lighting system with proper control, low energy fixtures, energy efficient pumping system, energy efficient motors and other equipment should be taken.
- xiii. Use of renewable energy system such as solar water heater, solar rooftop, solar dryers, solar cookers, solar lantern, solar traffic signals, and battery-operated vehicle, solar air conditioning etc. should be made to the extent possible. Solar cooking systems and solar water heaters must be utilized for hostels/hospitals etc. The maximum houses, hostels, kitchen must have solar water heaters (including multi-storied buildings) in the campus.

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The kitchen waste generated within the campus should be treated with biogas generation technology and the generated biogas may be utilized for cooking or electricity generation purpose.

- xiv. The common lights, interior, exterior or streetlights should be preferably through Renewable Energy Technologies particularly solar.
- xv. Use of solar passive architecture for buildings with minimum air-conditioned load and optimum ventilations with efficient HVAC systems should be ensured.
- xvi. Waste management with an aim to zero waste institutions should be carried out e.g. all waste in the campus (hostels, kitchens, households and markets etc.) should be treated for useful applications within the campus itself through waste to energy technologies. This biogas can be used for hostels, kitchen or for powering water system.
- xvii. The eco friendly and recycled material and certified green building materials should be used for construction purpose.
- xviii. An awareness/training workshop should be organized in the campus regarding renewable energy applications and taking suitable measures for energy conservation and energy efficiency.
 - xix. Any other innovative actions/ points to be taken for making existing green campus.

डॉ. मंधा श्रीनिवास/Dr. Mantha Srinivasi

केन्द्रीय संस्कृत विश्वविद्यालय Central Sanskrit University शिक्षा मन्त्रावय, भारत सरकार के अधीय Under Ministry of Education, Govt. of India 56-57, संस्थानत बेंग्न, जनकार्युण, नई बिल्ली - 110058 Page **14** of **14**

Prof. Ranjit Kumar Barman Registrar (I/c)

Central Sanskrit University