



POLICY GUIDELINES FOR ENVIRONMENTAL SUSTAINABILITY

Kalinga University

(A State Private University established by the C.G. Private University Act. 2005)

Village Kotni, Near
Mantralaya Naya Nagar
Raipur – 492101,
Chhattisgarh India.



CONTENT

Sustainability

Energy Conservation

Water Conservation

Transportation

Recycling Of Waste



2

PREFACE

The indiscriminate utilization of natural resources for meeting development demands, rapid industrialization and unplanned urbanization are adversely impacting the environment. Dumping of wastes into our rivers and lakes, clearing forest land for cultivation and increased emission of harmful pollutants into the environment have all contributed to degrading our environment. Trends towards environmental degradation can, however, be slowed and even reversed by active governmental interventions. Over the last decade in India, there has been an increase in efforts in the area of conservation of the environment. Funds allocated for environmental programs have also been increasing.

Institutional self-inquiry is a natural and necessary outgrowth of quality of higher education. Concern about environmental degradation and realization of values of environment are logical consequences of scholarly research, teaching and learning process. In its pursuit for improving environmental quality and to maintain a pristine environment for the future generation of students, Kalinga University Management did a study on environmental quality of the campus with the following objectives:

- To establish a baseline of existing environmental conditions with focus on natural and physical environment;
- To understand the current practices of sustainability with regard to the use of water and energy, generation of wastes, purchase of goods, transportation, etc.;
- To promote environmental awareness through participatory auditing process;
- To create a report that document baseline data of good practices and provide future strategies and action plans towards improving environmental quality for future.

The committee has made short term and long-term suggestions to take environment protection to higher levels and it is hoped that this will receive due attention of University authorities and all stakeholders of the University.



A GLANCE AT UNIVERSITY PROFILE

Kalinga University, Raipur has emerged as a centre of excellence of higher education in Central India. Strategically located in the Smart City of New Raipur, this University has started carving a niche for itself in the education domain and is rising as a shining star on the horizon of quality education.

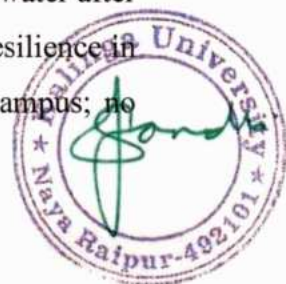
Established in 2013, this university has been able to win the confidence of over 7000 students. Meritorious students from all over the country and various 18 foreign countries have chosen this University for their education and career.

Our aim is to provide world class infrastructure, have renowned academicians on board and an ideal environment for Research, Innovation, Consultancy and Entrepreneurship. Engaging students as learners and groom them as professional leaders in an intellectually challenging and contemporarily diverse environment.

The Kalinga University is today recognized among the leading privately managed institutions of the country. The University offers various courses approved by various regulatory bodies like BCI, PCI, NCTE and AICTE. University has the best specialized academician fraternity drawn from top universities/Institutions nationally and internationally.

Kalinga University is in sprawling green campus in Kotni, Near Mantralaya, Naya Raipur, (C.G). Kalinga University is today recognized among the premier Universities imparting higher education of the country and the best of its kind in the central region of India. It is an example of pioneering experiment of imparting education between an Educational Institution and many corporate & educational entities.

Kalinga University's endeavor is to establish and maintain a green campus which provide a serene environment for study and work for the betterment of society. The aim is to provide a green campus, minimize wastes, recycle waste & used water after treatment and utilize the resources to a maximum level, while bringing resilience in the environment. Kalinga University is a no-smoking and smoke free campus; no open burning is allowed. At Kalinga University,¹⁷



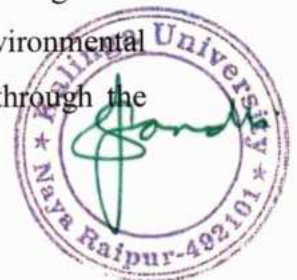
critical audits and inspections are done for each Department as far as campus environment maintenance is concerned.

SUSTAINABILITY

The Kalinga University is committed to maximizing its positive impact and minimizing its negative environmental impact to help develop a more sustainable world. Kalinga University have a healthy approach to sustainability, incorporating social economic and environmental principles that have been in place for nearly a decade. Kalinga University has short and long- term objectives for sustainability.

WE AIM To

- Integrate and implement the environmental management and promote sustainability practices into our day-to-day operations. Empower and motivate staff and students through environmental awareness and communication.
- Undertake academic research to benefit environmental sustainability. Implement a sustainable waste strategy to reduce volumes and divert from landfill.
- Develop sustainability within academic courses to benefit students in their future careers and life. Establish procedures to implement sustainable construction and green procurement.
- Increasing alternatives and opportunities for sustainable travel for commuting. Preserve and enhance the biodiversity of the estate and utilize sustainable design in construction and protect biodiversity in external spaces on campus.
- Minimize energy and water usage by implementing effective management and technology to reduce our carbon emissions. Develop our environmental management system as a mechanism for achieving the above through the adoption of formal objectives and targets



SUSTAINABILITY POLICY

- Embed sustainability into the campus, curriculum, community, and culture of the university through the establishment of good leadership and management practices.
- Raise sustainability and environmental awareness and promote sound environmentally and ethically responsible behaviors in all staff and students.
- Develop and maintain the premises, and the surrounding landscape, with due regard to environmental impact and social value.
- Develop and implement effective and efficient utility and procurement management measures, policies and procedures.
- Develop and implement waste management practices that prioritize disposal in line with the waste hierarchy to reduce the institutions waste output to landfill.

WATER MANAGEMENT

The Kalinga University has well defined policy and system in place for rainwater harvesting and its utilization doing both roof top and flood water harvesting. Water collected on roofs of all the buildings is used to recharge ground water. Water is filtered before it goes to aquifer. Water from roof top first comes to de silt chamber by solid PVC pipes. Sedimentation of fines take place in de silt chamber. This water then goes to recharge well which has filter material consisting of (40-60) mm coarse gravel at the bottom followed by 20mm coarse aggregate and finally has a sand layer at the top. This sand layer is replaced annually or as and when required. There is a perforated 5" dia pipe at the center of the recharge well. Roof top harvesting is almost maintenance free and has only initial cost on infrastructure.

Flood water harvesting needs continuous clearing of drains as water c and fine soil particles. These leaves and other insoluble impurities block filters and dissolved fine soil block sand filter. It requires monitoring clearing of blockages.



We have total four recharge wells. Two of these recharge wells are catering to roof top harvesting and one of them is harvesting rainwater falling in garden. We also have a policy of using interlocking tiles on footpaths and other spaces so that water can percolate through the joints in interlocking tiles. These tiles are laid on permeable sand bed so that the process of infiltration is unhindered due to paving of roads.

Wastewater from hostels and academic blocks is diverted towards drainage system with the help of pipes. These drainage systems channelize wastewater towards the inlet of sewage treatment plant. First debris are removed with the help of Screening.

After the removal of debris from wastewater, it accumulates in the collection tank. In sludge holding tank sludge is collected. Then water goes to aeration tank where the air is introduced into raw water to remove foul gases from the water. After aeration process water moves to tube settler tank and then to chlorine contact tank where chlorine is added to disinfect water. After disinfection water is filtered through sand filters and collected into treated water tank.

WE AIM TO

- Promote water efficiency practices to all the University's stakeholders.
- Monitor and minimize the University's water consumption.
- Plant indigenous flora to reduce water usage.
- Promotes planting indigenous trees in and around the university to reduce water usage.
- Sustain implementation of innovative water-efficient technologies such as rainwater harvesting, reuse of water etc.
- Introducing the students to the subject of 'Green Buildings' & University core subject Environment & Waste and Disaster management and elaborating on its scope.



WATER MANAGEMENT POLICY

- Monitor and minimize the University's water consumption. Plant indigenous flora to reduce water usage.
- Promote planting indigenous in and around the University to reduce water usage.
- Review opportunities for reducing the use of mains water and install alternative water systems on campus wherever feasible through installed rain water harvesting system.
- Campus should also maintain efforts of students, faculty and staff to implement sustainable water system on campuses Promote water efficiency practices to all the University's stakeholders.

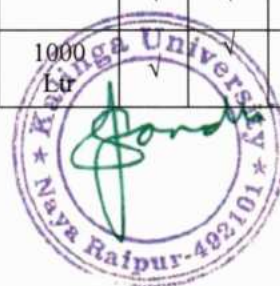
RAIN WATER HARVESTING POLICY

- In Kalinga University Rain Water Harvesting (KURWH) system will be installed on all building and is connected to the recharge well even though functional only for a brief duration in a year.
- Kalinga University will always adopt the right combination of superior state-of-the-art technologies and global best practices for water harvesting system.
- Promotion of KURWH through inclusiveness and regular knowledge sharing with concerned stakeholders will result in capturing of increased quantity of rainfall.



TABLE 1

S.NO	Department /Block	Wise Use Of Water	Water Leakage Repair	Use Of Water Purification	Rain Harvest	Use Of Water Cooler	Water Pollution Incidence	Water Use Per Day In Liters	Water Storage	Water Tank Cleaning	Water Management Practices
1	Arts & Humanities (New Building)	√	√	√	×	√	√	2500 Ltr	√	√	×
2	Pharmacy	√	√	√	×	√	√		√	√	×
3	Engineering & Technology (Main Building)	√	√	√	×	√	√	5000 Ltr	√	√	×
4	Commerce & Management	√	√	√	×	√	√		√	√	×
5	Science	√	√	√	×	√	√		√	√	×
6	Law	√	√	√	×	√	√		√	√	×
7	Education (Workshop Building)	√	√	√	×	√	√	1500 Ltr	√	√	×
8	Information Technology	√	√	√	×	√	√		√	√	×
9	Girls Hostel	√	√	√	×	√	√	6000 Ltr	√	√	×
10	Boys Hostel 1	√	√	√	×	√	√	5000 Ltr	√	√	×
11	Boys Hostel 2	√	√	√	×	√	√	6000 Ltr	√	√	×
12	Boys Hostel 3	√	√	√	×	√	√	3000 Ltr	√	√	×
13	Mini Market	√	√	√	×	√	√		√	√	×
14	Workshop	√	√	√	×	√	√		√	√	×
15	Canteen	√	√	√	×	√	√	1000 Ltr	√	√	×



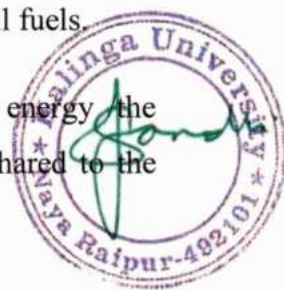
RAIN WATER HARVESTING (GEO TAGGED)



ENERGY MANAGEMENT

The Kalinga University is working hard to reduce energy consumption, increase efficiencies, use more renewable energy sources, and reduce its carbon footprint. We have ambitious targets to reduce our carbon emissions from our activities to reduce our impact on the natural environment to adequately address global warming. By taking action to reduce emissions of the greenhouse gas pollution that warms our planet, we can reduce the risks we will face from future climate change. Kalinga University has expanded the use of renewable energy and transform our energy system into one that is cleaner and less dependent on coal and other fossil fuels.

Energy Management for adopting the guidelines and use of renewal energy the solar panels are installed on the roof tops and excess power will be shared to the grid.



WE AIM TO:

- Reduce power consumption in the coming years by using more renewable energy.

ENERGY MANAGEMENT POLICY

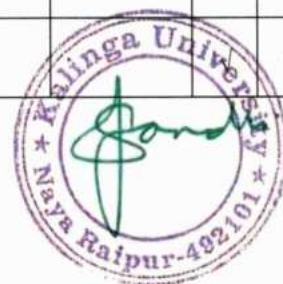
- Keep vigil at university's electricity consumption and minimize it.
- Implement the best available energy technology for all new buildings and in existing structures wherever possible.
- Promote electricity efficiency practices and reduction of the University's carbon footprint to all stakeholders.
- Conduct energy audits and monitoring of energy use at the campus.
- Create awareness among students, faculty members and all relevant stakeholders to efficiently use the energy (electricity) on campus.

SOLAR PANEL (GEO TAGGED)



TABLE 2

S.No	Department /Block	No. of tubes and bulbs	No. of A/C	No. of LCD Projector	No. of photocopier	Computers + printers	LEDs	Solar rating	Energy management Practices
1	Information Technology	1376	52 total	4	8	193+1	596	√	√
2	Pharmacy			1		6 +0		√	√
3	Engineering & Technology			2		7 +0		√	√
4	Science			2		10+2			
5	Law			1		3 +0		√	√
6	Education					1 + 0		√	√
7	Commerce & Management			2		1+1		√	√
8	Arts & Humanities					5+2		√	√
9	Girls Hostel	279						√	√
10	Boys Hostel 1	64						√	√
11	Boys Hostel 2	168						√	√
12	Boys Hostel 3	157				1+ 0		√	√
13	Mini Market	20						√	√
14	Workshop	40						√	√
15	Canteen	20							√



TRANSPORTATION

The university aims to facilitate staff, students and visitors to travel as sustainably as possible to and from campus, to help cut carbon emissions and pollution, and improve health and wellbeing. We particularly encourage to use of active travel such as walking and cycling, as well as public transport, car-sharing, e-vehicles, and avoiding the need to travel by using online meetings or conference calls.

The University is exceptionally cognizant towards safety of the earth. Know green and think green is promoted on the campus. The garden has palm trees, neem trees and different varieties of trees, which give shade and a wonderful feeling. Lawns and plants drastically reduce noise pollution in the University. The University buildings are designed in such a way that the daylight is commensurate with the required ventilation and sunlight, to save extra power for bulbs and fans. Implementation of energy saving techniques is ensured as lights and fans are switched off by students, peons and staff members after completion of their work. The University organizes different exercises through N.S.S. Students, for raising green awareness and helping to push the environmentally friendly agenda.

- **Internal Transport:** The University has a fleet of Electric Golf Carts for need based use by the Guests & Faculty.
- **Pedestrian Friendly Roads:** Campus has pedestrian paths with shady trees. Vehicles are generally not allowed inside the campus during working hours, therefore all roads are available for pedestrian

WE AIM TO

- To provide real and affordable travel choices for staff and students traveling to the university, and between university sites;
- To further reduce the number of cars arriving at the university;
- To manage the demand for car parking within current levels of
- To be a good neighbor to residents and the wider community



TRANSPORTATION POLICY

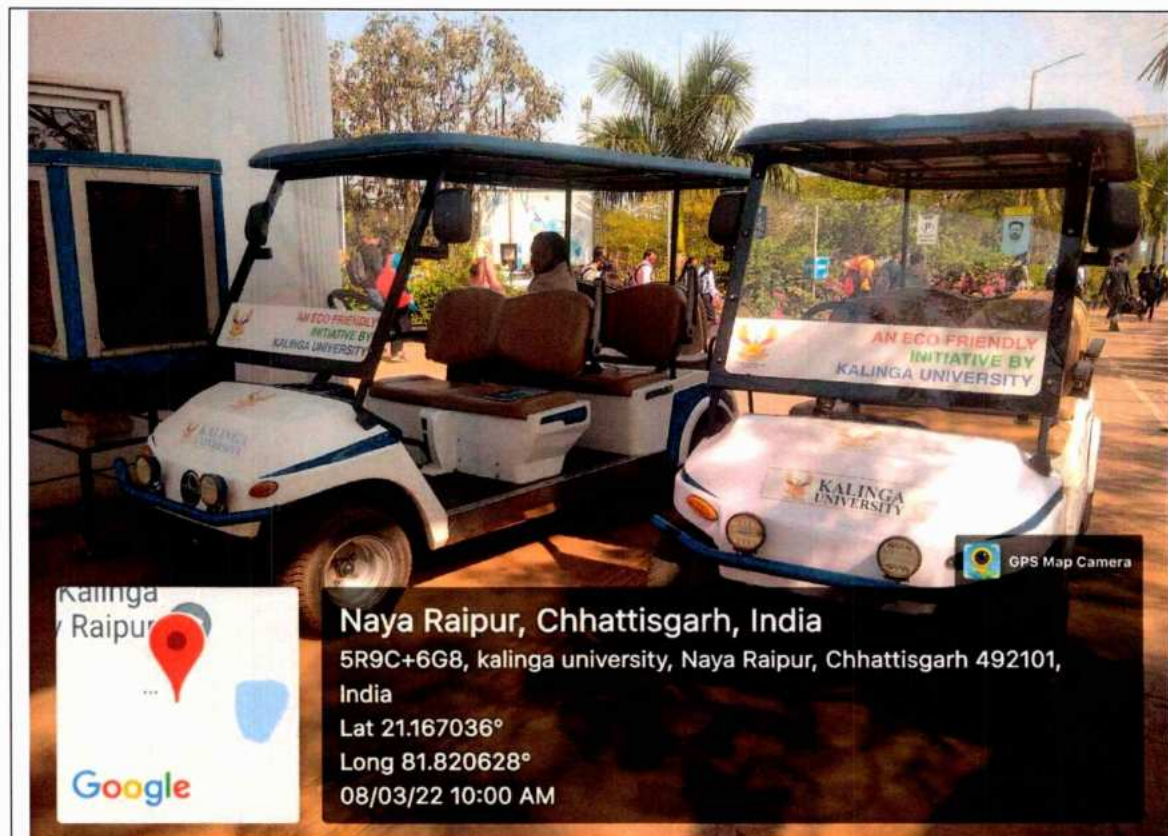
- Support the use, wherever possible of efficient public transport, walking, and car- sharing/pooling etc.
- Discourage unnecessary use of both private and university vehicles during the day to reduce traffic and parking issues on campus
- Liaise with the local administration with regard to shared public transport strategies.
- Promote sustainable practices and invest in technologies required for university stakeholders to engage in practices such as Skype meetings and video conferencing.

Table 3

S.No.	University Vehicle details	Number Of Vehicles	No. Of Staff Using Transport
1	Total number of private vehicles (Four-wheeler)	26	
2	Total number of private vehicles (Two-wheeler)	190	380
3	University Buses	27	1325 (1025 Students)
4	Total Number of University vehicles (Four-wheelers)	13	
5	E-Vehicles (Four-wheeler)	03	
Total		259	



ELECTRICAL VEHICLE (GOLF CART) (GEO TAGGED)



WASTE MANAGEMENT

Waste management is a collective activity involving collection, segregation, transportation, re- processing, recycling and disposal of various types of wastes. The University has proper management systems for Solid, Liquid and E-waste. The University is almost paperless as most of the documents, forms, payments, no dues have been shifted to an online mode and official communications are done via Kalinga University Information Management System. The waste in the campus is disposed of in an eco-friendly manner without polluting the environment. Separate Dustbins have been provided for recyclable and general waste collection.

- **SOLID WASTE MANAGEMENT:** The solid waste is categorized into Non- biodegradable and Biodegradable waste. The Non-biodegradable waste is separated in to recyclable and non-recyclable. The recyclable waste is sent to designated vendors on regular basis. Non-recyclable waste is sent to incinerator.



- **LIQUID WASTE MANAGEMENT:** Kalinga University is generating sewage waste daily. For managing this waste university has established STPs which supplies treated water from these STPs is used for dual plumbing for hostel flushes and irrigation in the university. The University adheres to a strict protocol of liquid waste disposal in its

laboratories. Any glassware used in the laboratory is rinsed with minimum water and placed in the liquid waste container. The liquid waste is segregated into organic and inorganic waste. Inorganic waste such as concentrated acidic or alkaline solutions is neutralized before disposal. Sodium bicarbonate or Calcium oxide (lime) is used for the neutralization process so that the neutralized liquid contains no harmful substance and pH is maintained. All empty glass bottles of Chemicals are rinsed by water before giving to waste collection vendors.

- **E-WASTE MANAGEMENT:** Kalinga University is committed to practicing sustainable development and the management of E-waste is an important aspect of the sustainability goal. E-Waste is collected and segregated in re-usable and non-usable items. The life of electronic equipment is extended by appropriate upkeep and minor repairs carried out by University's own technical experts. The life of PCs, Printers, Fax, photocopy machines etc. is maximized by annual maintenance contracts and proper upkeep. The previous models of these equipments are donated to schools and used for dismantling & learning. Non-usable are disposed of to designated vendors.

WE AIM TO:

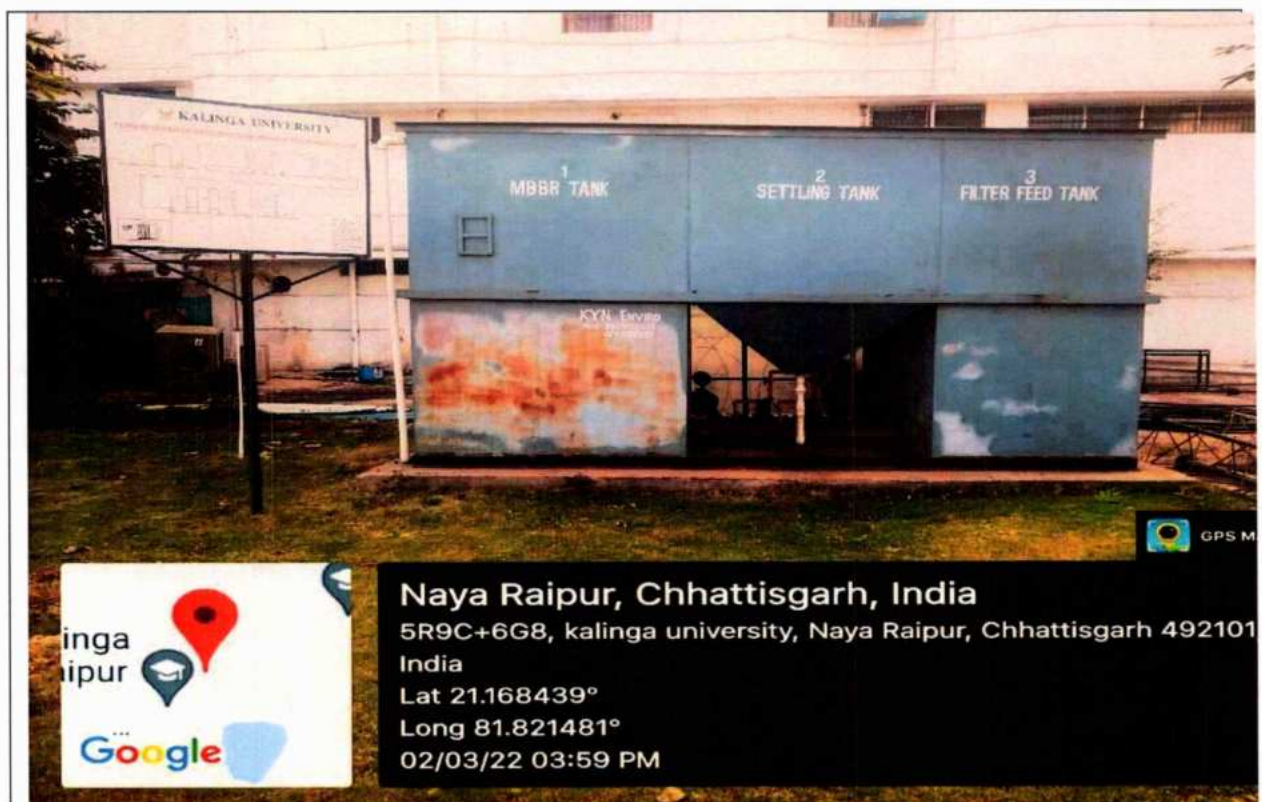
- Deliver reduction in solid waste every year.
- Recycle our waste.
- Compensate for remaining emissions by developing alternate solutions.



WASTE MANAGEMENT POLICY

- Ensuring that waste management is performed by all legislative waste requirements, including the duty of care, and to plan for future legislative changes and to mitigate their effects.
- To minimize waste generation at the source and facilitate repair, reuse and recycling over the disposal of wastes, where it is cost-effective.
- To provide clearly defined roles, responsibilities to identify, and coordinate each activity within the waste management chain.
- To promote environmental awareness to increase and encourage waste minimization, reuse and recycling.
- To secure where possible revenue for recyclable material to reinvest into the expansion of recycling opportunities on the campus and halls of residences. To ensure the safe handling and storage of wastes on campus and halls of residences.
- To provide appropriate training and organize awareness programs for staff, students and other stakeholders on waste management issues. To promote the use of recycled product.

SEWAGE TREATMENT PLANT



E-WASTE STORE







KALINGA UNIVERSITY

Established under Chhattisgarh Private Universities (Establishment and Operation) Act, 2005

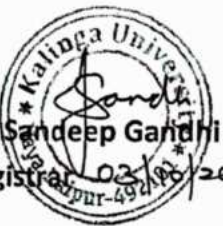
Kotni, Near Mantralaya, Naya Raipur, Chhattisgarh, INDIA – 492 101
Mob: 93030 97043, Email- registrar@kalingauniversity.ac.in

Ref. No-KU/NS/2017/

Date- 03/10/2017

NOTICE

This is to inform everyone that Kalinga University is totally plastic free Campus. Use of anything made of plastic is strictly prohibited.


Dr. Sandeep Gandhi
Registrar 03/10/2017

Copy To:-

- 1- Hon'ble Chairman
- 2- Hon'ble Chancellor
- 3- Hon'ble Vice- Chancellor
- 4- Ms. Lincy Roy, Deputy Registrar & Head HR
- 5- Mr. Kumar Shwetabh, Deputy Registrar- for sending SMS to all students.
- 6- University Coordinator- for announcing in classes & uploading on student logins.
- 7- Transport Incharge- For Kind Information
- 8- Mess Incharge – For Kind Information
- 9- Hostel Wardens- For kind information.





KALINGA UNIVERSITY

Established under Chhattisgarh Private Universities (Establishment and Operation) Act, 2005

Kotni, Near Mantralaya, Naya Raipur, Chhattisgarh, INDIA - 492 101
Mob: 93030 97043, Email- registrar@kalingauniversity.ac.in

Ref. No-KU/NS/2018/

Date- 01/07/2018

NOTICE

This is to inform to all concerned that Entry of vehicles inside the campus premise is not allowed. Please park your vehicles in designated parking space and walk inside the campus premise.

Dr. Sandeep Garghi
Registrar
01/07/2018

Copy To:-

- 1- Hon'ble Chairman
- 2- Hon'ble Chancellor
- 3- Hon'ble Vice- Chancellor
- 4- Ms. Lincy Roy, Deputy Registrar & Head HR
- 5- Mr. Kumar Shwetabh, Deputy Registrar- for sending SMS to all students.
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Tally.ERP 9

Accounting Voucher Alteration (Secondary)

Journal No T-20-211

16-Jun-2020
Tuesday

Particulars	Debit	Credit
By Purchase A/c	3,59,999.85	
Cur Bal. 3,59,55,161.99 Dr		
1 nos 1000000 3,42,857.00		
Actuals 1000000 (3,59,999.85)		
To Suttel Automation		3,59,999.85
Cur Bal. 7,46,162.90 Cr		

Narration
BEING MATERIEL REC'D FOR visit purpose

3,59,999.85 3,59,999.85

Quit Accept Delete Cancel

Tally MAIN --> Gateway of Tally --> Display Menu --> Account Books --> Ledger Vouchers --> Accounting Voucher Alteration ...

© Tally Solutions Pvt Ltd, 1988-2020 Wed, 9 Mar, 2022 12:24:05

Tally.ERP 9

Accounting Voucher Alteration (Secondary)

Purchase No S1031

Supplier invoice no. Date

2-Oct-2020
Friday

Party A/c name : S.P. TRADERS
Current balance : 91,301.49 Cr
Purchase ledger : Purchase A/c

Name of Item	Quantity	Rate	per	Dac %	Amount
Cycle	6 nos	4,955.58	nos		29,733.48
CGST				12 %	3,568.02

Narration
BEING MATERIEL RECEIVED BY DOP CYCLE HERO COWBOY 26T

6 nos 31,301.50

Quit Accept Delete Cancel

Tally MAIN --> Gateway of Tally --> Display Menu --> Inventory Books --> Stock Item Monthly Summary --> Stock Vouchers --> ...

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Tally.ERP 9

P:Print E:Export M:E-Mail O:Upload S:TallyShop G:Language K:Keyboard C:Control Centre H:Support Centre H:Help

Accounting Voucher Alteration (Secondary) Kalinga University Ctrl + M

Purchase No S1031 21-Sep-2020 Monday

Supplier invoice no. Date :

Party A/c name : S.P.TRADERS
Current balance : 93,301.49 Cr
Purchase ledger : Purchase A/c

Name of Item	Quantity	Rate per	Disc %	Amount
Cycle	5 nos	4,928.57	nos	24,642.84
CGST			12 %	2,957.14
	5 nos			27,599.98

Narration
BEING MATERIEL RECEIVED BY DOP CYCLE HERO MISS INDIA GOLD 26T

Q:Quit A:Accept D:Delete X:Cancel Ctrl + N

Tally MAIN --> Gateway of Tally --> Display Menu --> Inventory Books --> Stock Item Monthly Summary --> Stock Vouchers --> ...

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P:Print E:Export M:E-Mail O:Upload S:TallyShop G:Language K:Keyboard C:Control Centre H:Support Centre H:Help

Accounting Voucher Alteration (Secondary) Kalinga University Ctrl + M

Journal No 10018/S1093 16-Oct-2020 Friday

Particulars	Debit	Credit
By Purchase A/c Cur Bal 3,69,65,161.99 Dr	32,400.01	
Cycle 5 nos 4,928.57 24,642.84 Actuals 5,483.00 (32,400.01)		32,400.01
To S.P.TRADERS Cur Bal 93,301.49 Cr		32,400.01
	32,400.01	32,400.01

Narration
BEING MATERIAL RCD B y CASH BY ASH SIR MAIN GATE PARKING WORK

Q:Quit A:Accept D:Delete X:Cancel Ctrl + N

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