



ଓଡ଼ିଶା ओडिशा ODISHA MEMORANDUM OF UNDERSTANDING

P 854932

Date: 24.04.2023

This MEMORANDUM OF UNDERSTANDING is made on this 24th day of April 2023 by and between, **Nandankanan Zoological Park**, Barang, Bhubaneswar-754005 represented by its Deputy Director **Sanath Kumar N, IFS**. Nandankanan Zoological Park, which is hereinafter referred as NKZP (which expression shall where the context so admits include its successors and permitted assigns) of the ONE PART;

AND

Centurion University of Technology and Management Ramachandrapur P.O-Jatni, Bhubaneswar, Khordha-752050, Odisha, India, a state University, enacted by an Act of Odisha Legislative Assembly, represented by its **Vice-Chancellor, Prof. Supriya Pattanayak**. The University is hereinafter referred as CUTM (which expression shall where the context so admits include its successors and permitted assigns) of the OTHER PART;

Whereas CUTM is desirous to establish a long-term cooperation and strategic partnership aimed at improving the management and husbandry practices of wild animals in captivity and create a pool of human resource which will cater to the afore-cited objective, and to leverage the respective strengths of both organizations, both the parties agree to enter into this MoU. This MoU defines roles and responsibilities of both the parties and other related matters.



Role of CUTM

- To provide technical support for application of technological interventions in captive animal management.
- To develop devices for comfort conditioning of nocturnal animals. The device must keep the humidity and light under control and thwart cross infections.
- Controlling water hyacinth and develop ways to eliminate the same: any methods including biological.
- Enhancing the basket of items for zoo animal feed requirement. Focus must be on the type of feed for the animals which helps them to reproduce better. Also, to increase the range of feed available.
- Increase the basket of items in the captive fodder unit. Currently 75% of grass requirement is met by captive fodder unit. There should be intervention to increase its range.
- Finding an optimal way to track down wild animals (including aquatic) using GSM patches.
- Using GSM patches for nocturnal animal who burrows deep.
- To make NKZP Carbon neutral including transforming plastic waste to useful products like pavers or energy.
- Capacity building on scheduled and preventive maintenance of electrical appliances including lightening arrestors.
- CUTM will offer scholarships for Children of NKZP staff of all echelon in all its courses.

Role of NKZP

- To support CUTM for their academic activities which will add value to their curriculum.
- Internship for UG and PG students under supervision of university mentor and that of NKZP authority.
- Practising internship or House surgeon for veterinary students with proper University supervision and that of NKZP authority.
- PhD and other research students to undergo different case or pilot study.
- Exposure visits and internships for international students subject to relevant provisions as applicable to such students.



ACTIVITIES OF MUTUAL INTEREST

Sustainable Development Goals

Both the organisations will try to follow best practices in furthering SDGs and may conduct research in the same.

- A pilot study may be proposed along with students and faculty prioritizing SDG 13 (climate action), SDG 14 (Life below water) and 15 (Life on Land).

Infrastructure development and allied fields

NKZP may explore utilisation of following CUTM facilities to enhance its capabilities and infrastructure.

- Wood Engineering Learning Laboratory
- Concrete pavers manufacturing.
- Hybrid ESV manufacturing and maintenance unit.
- Apparel manufacturing unit.
- Souvenirs (ceramic, wood or other customised).

Investment model

- There shall be no financial implication on the part of NKZP in this collaboration. However, in case of beneficial projects under the purview of this MoU, which requires investment by both the parties, the same shall be subject to approval by the Society for Management and Development of Nandankanan Zoological Park (SMDNKZP)

Adherence to prevailing Acts, Rules and Guidelines.

- While implementing this MoU, all relevant provisions as per Wildlife Protection Act, 1972, as well as rules and regulations prescribed by the Central Zoo Authority shall be followed.
- In case of any study which require permission of PCCF(WL) & CWLW, Odisha, Bhubaneswar as per existing Acts & Rules, due permission/approvals need to be sought and obtained beforehand.

IN WITNESSES WHEREOF, the parties have signed this agreement on this 24th day of April, 2023 at Academic Building Boardroom of Centurion University of Technology and Management, Bhubaneswar Campus, Khordha (District).



Handwritten signature and date "24/4/23" in blue ink.

For and on behalf of

The First Party

Name: **Sanath Kumar N, IFS**
Deputy Director,
Nandankanan Zoological Park
Address: Barang, Bhubaneswar,
Khordha-754005

Sanath Kumar N

Dated: 24/4/23

WITNESSES

1. Signature: *[Signature]*
Name: *Dr. Rajesh K. Mahapatra*
Address: *Nandankanan Zoological Park*
Dated: *24.04.2023*

2. Signature: *[Signature]*
Name: *MILAN KUMAR PANDA*
Address: *NANDANKANAN ZOOLOGICAL PARK, BARANG*
Dated: *24.04.2023*



The Second Party

Name: **Prof. Supriya Pattanayak.**
Vice-Chancellor,
Centurion University of Technology
and Management
Ramachandrapur, P.O- Jatni,
Bhubaneswar, Khordha, Odisha-
752050,

[Signature]
Dated: *24/4/23*

Dated:

Signature: *S. Parida*
Name: *Dr. Siba Prasad Parida*
Address: *CU TM, BSR campus*
Dated: *24.04.2023*



Signature: *[Signature]*
Name: *Jaganath Panda*
Address: *Director CUOT*
Dated: *24th April 2023*