

Describe the facilities in the institution for the management of the following types of degradable and non-degradable waste (within a maximum of 200 words):

- Solid waste management
- Liquid waste management
- Biomedical waste management
- E-waste management
- Hazardous chemicals and radioactive waste management
- Waste recycling system

Response:

One of the objectives of waste management is to keep the campus clean, we at NRCM strongly believe waste management has a direct and indirect impact on Climate change. The production of Methane and Carbon Monoxide from organic decomposes has a significant impact on climate change, which is of major global concern in the current world. To effectively address both the issues, the college use the “Refuse, Reduce, Re-use, and Recycle” approach to handling various types of wastage's in the campus.

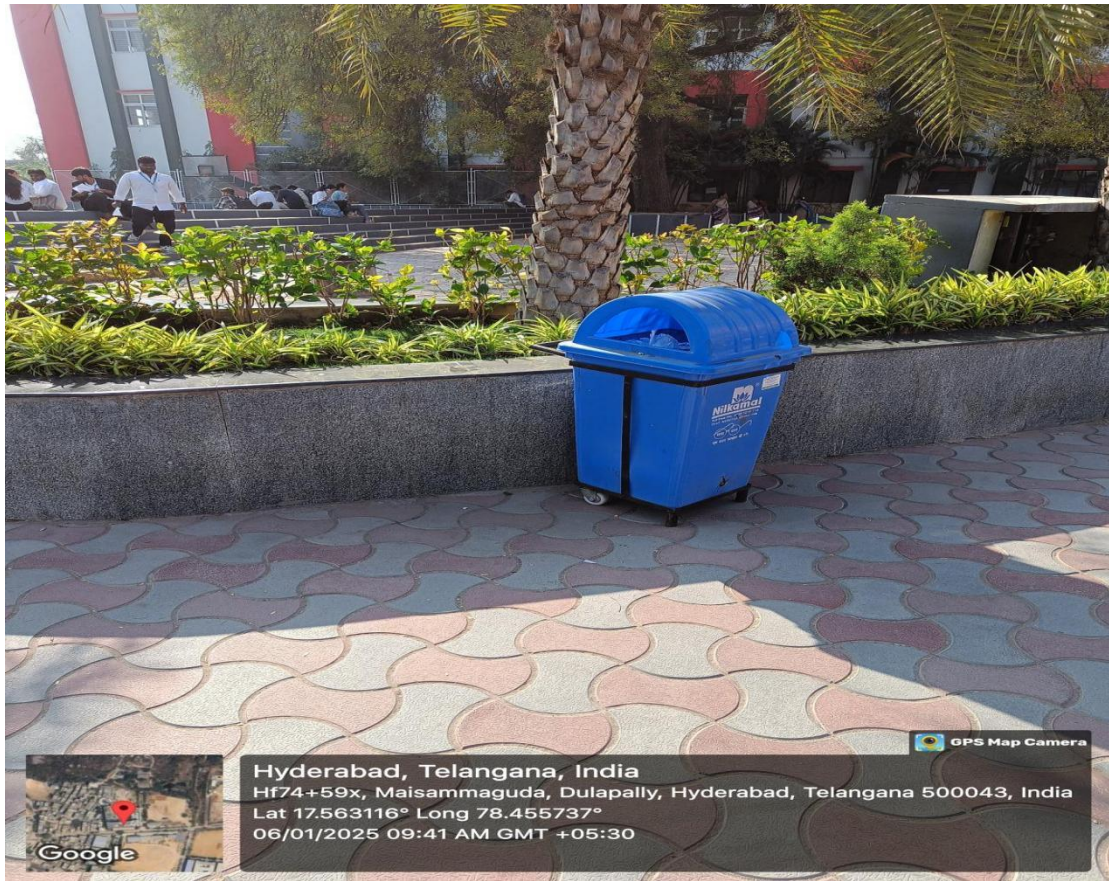
Solid Waste Management: The following are various sources of bio-degradable and non-degradable solid wastes on the campus and the mechanism to address them.

Solid Waste	Management
Leftover Food	Collected and Transferred to nearby cattle
Unused Vegetables	Collected daily and transferred to nearby cattle
Dry Leaves	Compost using compost yard placed in campus
Paper	Ship it to Recyclers
Student old project books	Collect and ship it to recyclers
Desks, benches	Ship it to Recyclers
Other Solid waste	Handover to municipal trash collection

Solid waste:The college collects solid waste on daily basis for segregation of solid waste in the campus and dispose it at the central place away from the main building

Adequate number of dustbins are provided as mentioned below to maintain cleanliness in the campus. The frequency of solid waste collection is twice in a week.

Small size dustbins are provided in class rooms, staff rooms and office rooms.



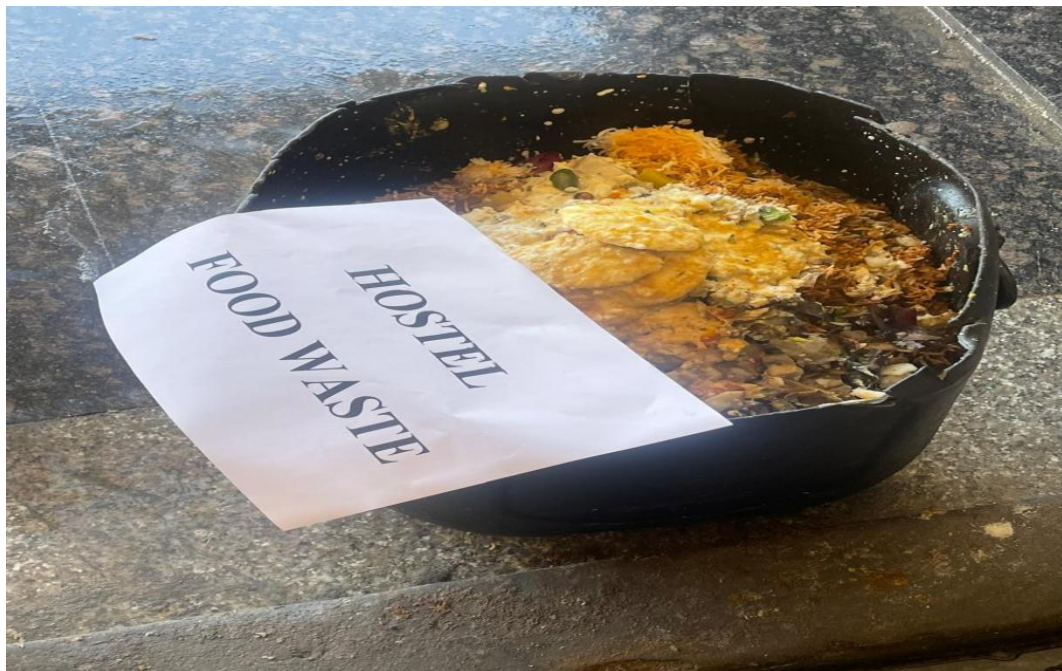
Dustbins along Roadside



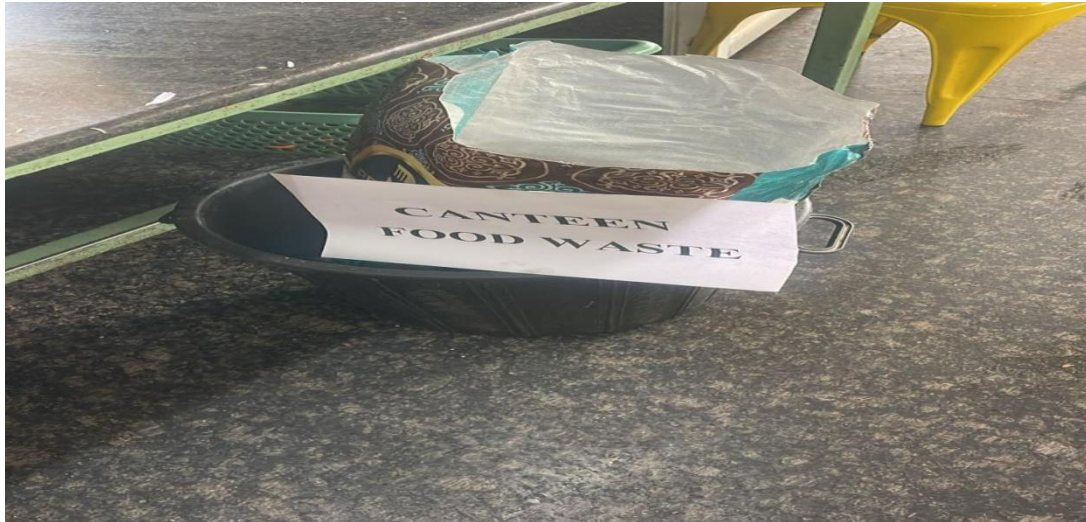
Dustbins along Roadside



Food Waste and Leftover vegetables: Food waste and leftover vegetables are collected daily in the large trash bins located in the hostels and canteens. The bins will be emptied after dinner and fed to cattle



Trash bins placed to collect food waste



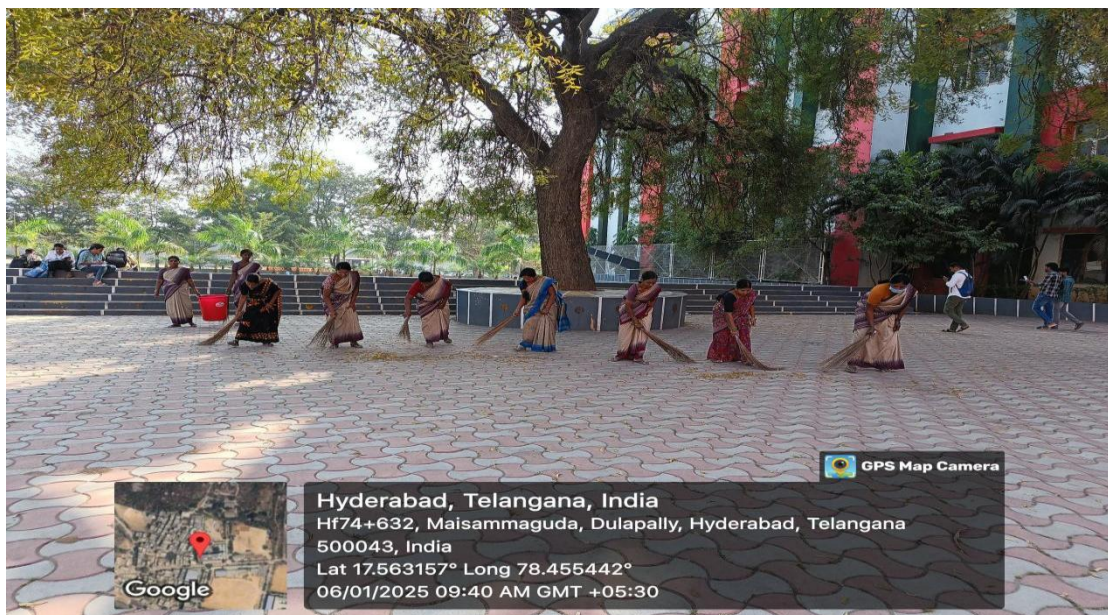
Trash bins placed to collect food waste



Collecting food waste by the cattle owner



Dried Leaves and dead vegetation: Dried leaves and dead vegetation are other major sources of solid waste in the campus. Power blowers and groom sticks are used to collect the dead leaves and they are converted into compost. Grass and bush cuttings and fallen leaves from trees and creepers are mixed with cow dung. It is converted into manure and used as organic fertilizer to the trees.



Dried leaves collected

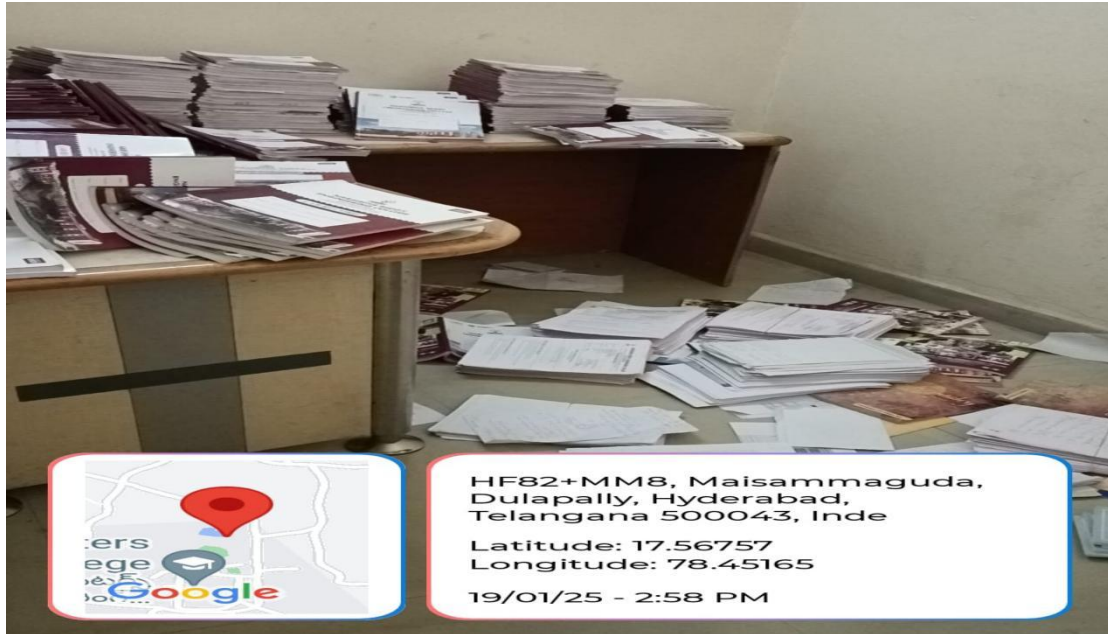


Storage and Drying Yard – Grass and Bush Trimmings, and Fallen Leaves



Composting Yard

Paper waste: Managing paper waste in a college is essential for promoting environmental sustainability and fostering responsible waste management practices among students and staff. Paper waste produced from classrooms, libraries, labs and administrative office are collected and stored for recycling purpose. Once in every 15 days it is sold to paper recycling vendors.



Usage of Building Construction and Demolished Materials: The building construction and demolished materials are used for filling low lying areas.



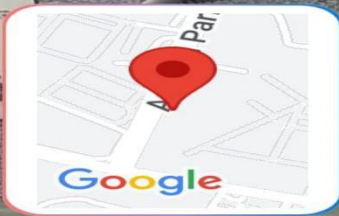
Construction waste



Filling up of Low Lying Area for providing Path

Recyclable Materials: The damaged students' desks, benches, tables and cupboards are repaired and unrepairable materials are stored and sold to vendors.





GFX6+PQ6, Apparel Park Rd,
Maisamma Gudem, Bhadurpalle,
Hyderabad, Kaziguda, Telangana...

Latitude: 17.54955
Longitude: 78.46274

19/01/25 - 1:37 PM

Recyclable Materials

Liquid Waste Management: The college has a well-designed drainage system to effectively use recycle and reuse wastewater. RO unit produced 40% purified water and 60% wastewater. It's a significant amount of water waste. The plumbing system in the college has been changed in such a way, the RO wastewater is collected in Syntax tanks and reused for toilets.



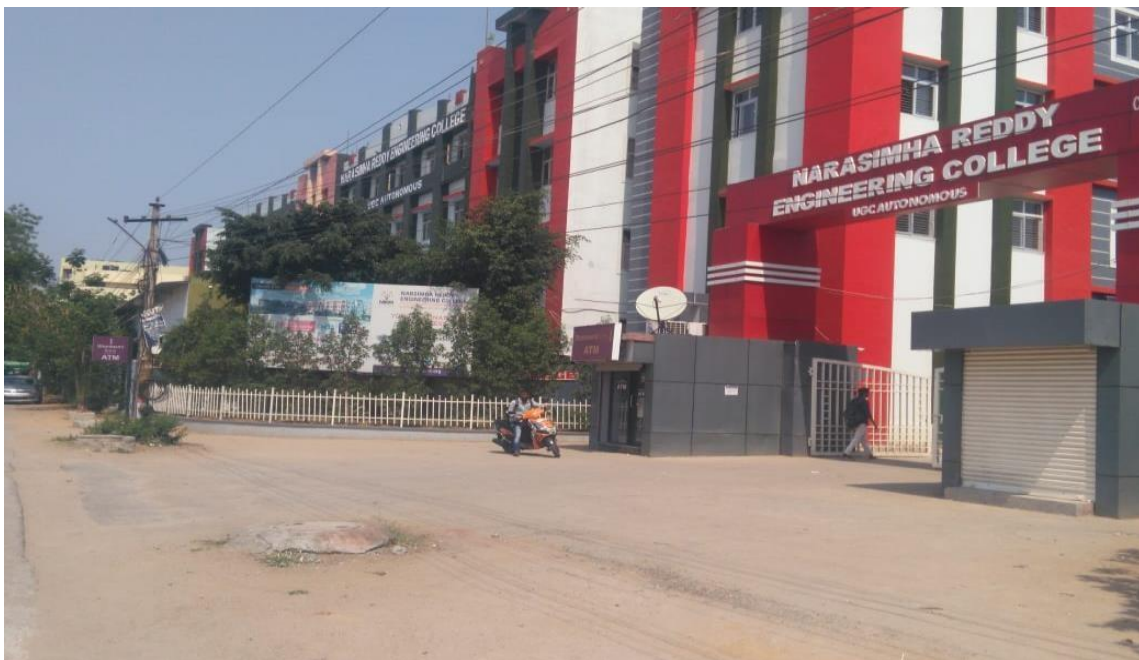
RO Water Plant



RO Waste Water Collected in Tanks

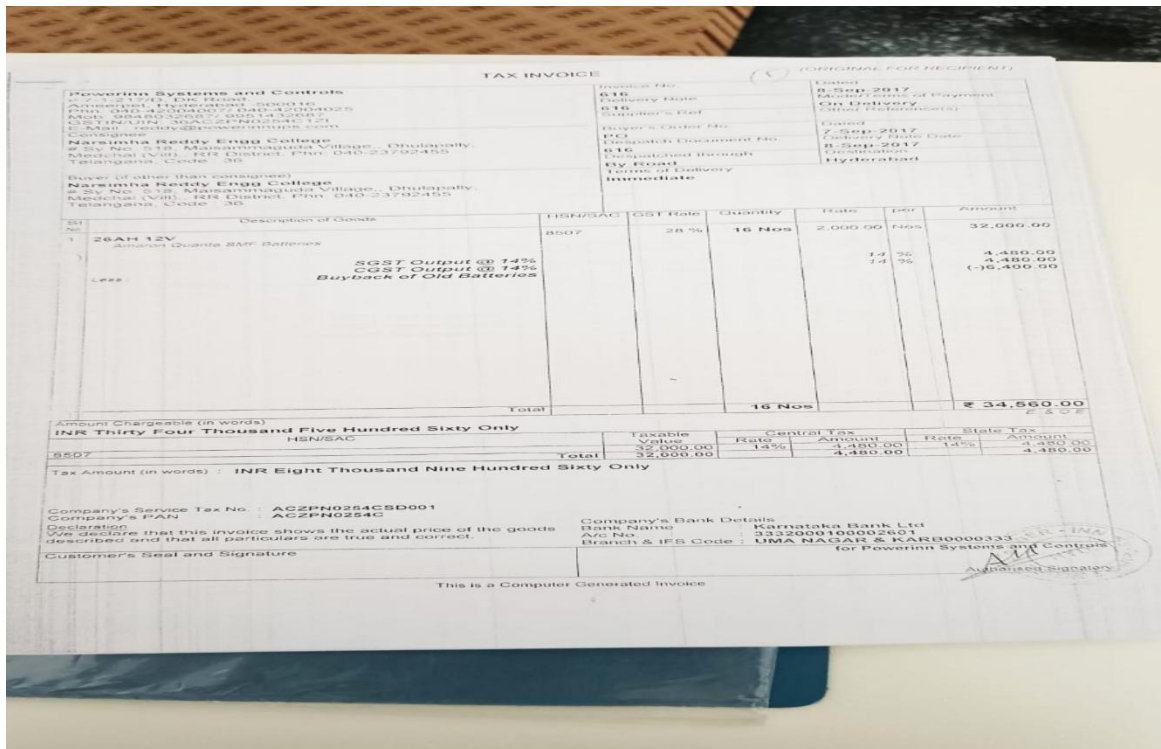
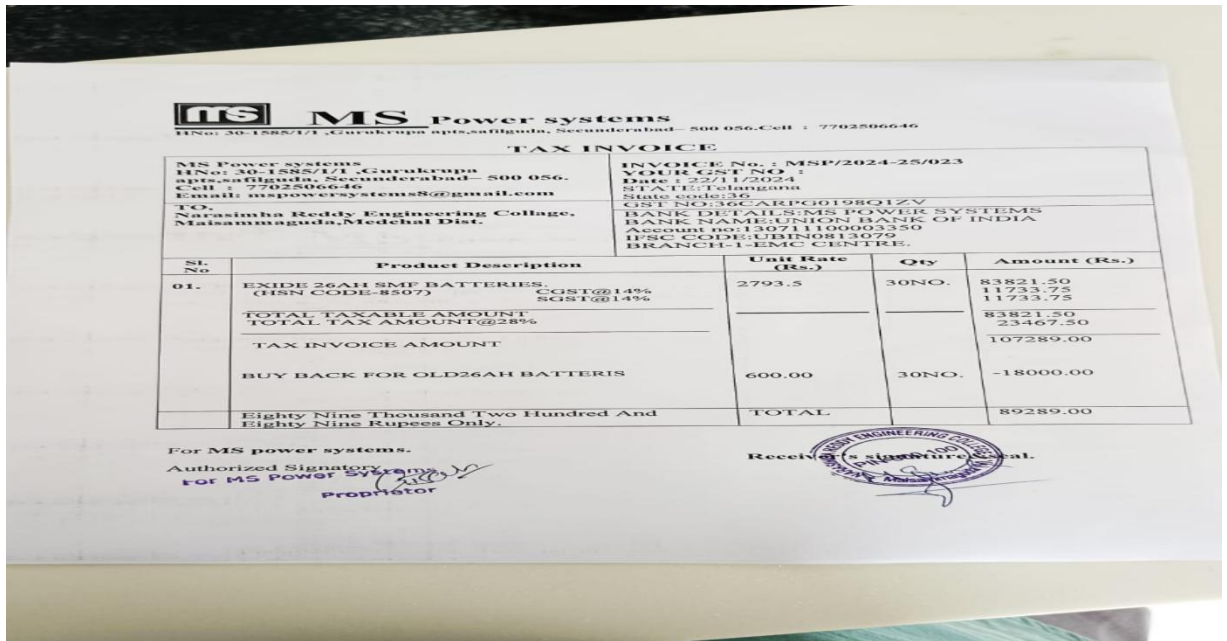
Sewage system:

Sewage system, network of pipes mains for the collection of waste waters or sewage, from the college is well designed by architecture during the construction as per the norms and connected to Municipality/Panchayat drainage system. Sewage is disposed of in several ways, mainly two: removal in a waterborne sewer system (sewerage) or disposed via an on-site sanitation system (pit latrines or septic tanks). The former has become standard practice in built-up areas, most cities, and industrial complexes



E-Waste Management: The institution has come up with the following ways to recycle end-of-life electronic devices and computer systems.

1. Donate the outdated technology
2. Re-purpose electronic devices. Use the outdated devices to train the students on hardware assembly and hardware troubleshooting.
3. Give back to the electronic companies or exchange them in buying a new product.
4. UPS Equipment and inverters are used for exchange in buying new equipment.
5. Batteries are disposed of to a recycler which in-tern are recycled and used.





MS POWER SYSTEMS

Hno. 32-77/14/4C, Ground Floor, Sitaram Nagar, Neredmet, Secunderabad, Telangana - 500 056.
Cell : 7702506646

INVOICE

MS Power systems HNo: 30-1585/1/11, Gurukrupa apts, safiguda, Secunderabad- 500 056. Cell : 7702506646 Email: mspowersystems8@gmail.com		INVOICE No. : MSP/2024-25/026 YOUR GST NO. : Date : 09/01/2025 STATE: Telangana State code: 36 GSI NO: 36CARPG0198Q1ZV		
TO, Narasimha Reddy Engineering Collage, Maisammaguda, Medchal Dist.		BANK DETAILS: MS POWER SYSTEMS BANK NAME: UNION BANK OF INDIA Account no: 130711100003350 IFSC CODE: UBIN0813079 BRANCH: 1-EMC CENTRE.		
Sl. No.	Product Description	Unit Rate (Rs.)	Qty	Amount (Rs.)
01.	Power Inn 10KVA(240VDC)3 AC FANS REPLACED.	1000.00	03NO.	3000.00
02.	SERVICE CHARGES.			1500.00
Four Thousand Five Hundred Rupees Only.		TOTAL		4500.00

For MS power systems.
Authorized Signatory

Receivers signature & seal.


PRINCIPAL

PRINCIPAL
NARASIMHA REDDY ENGINEERING COLLEGE
UGC AUTONOMOUS
Survey No. 518, Maisammaguda (V), Dhulapally (P)
Medchal (M), Medchal Dist., Hyderabad-500100