

# REDDYGUDEM MANDAL





## Reddygudem Mandal - Krishna District, Andhra Pradesh

### About the Mandal

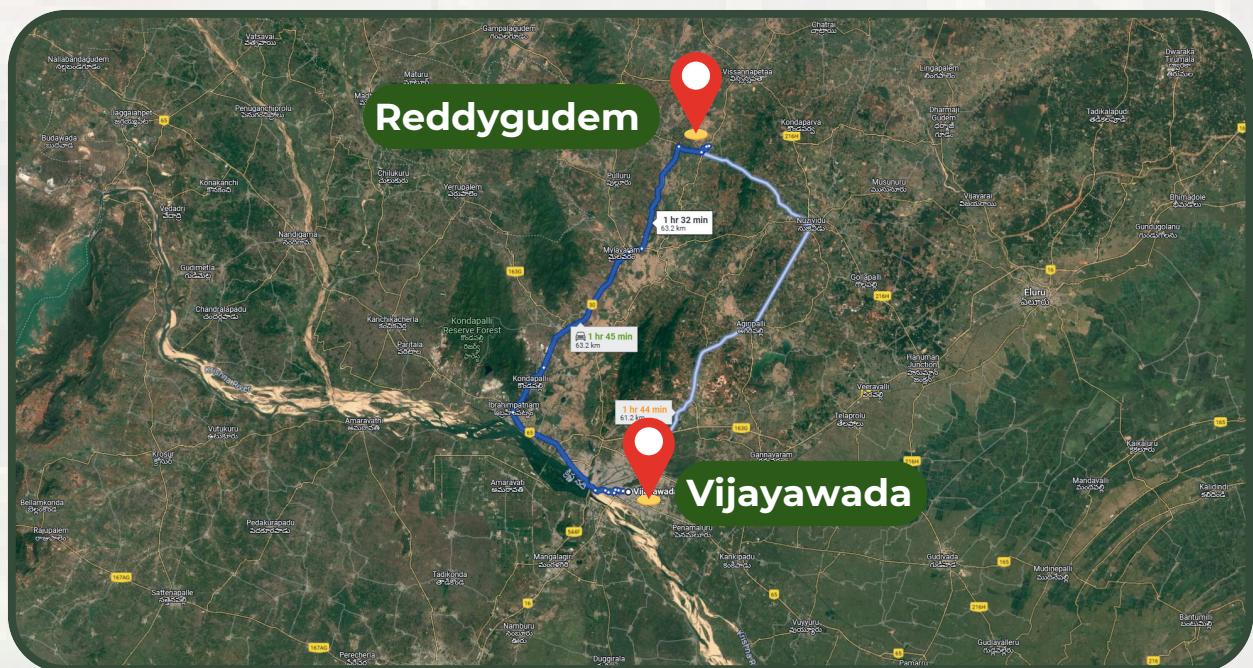
Reddigudem Mandal is an administrative division in the NTR district of Andhra Pradesh, India. It serves as the headquarters for the mandal and is part of the Tiruvuru revenue division.

### Geography and Demographics

Covering an area of approximately 89.73 square kilometers, Reddigudem Mandal had a population of 46,226 as per the 2011 Census.

The population comprises 23,522 males and 22,704 females, resulting in a sex ratio of approximately 965 females per 1,000 males. The literacy rate stands at 61.97%, with 24,992 literates, which is below the national average of 73.00%.

Scheduled Castes and Scheduled Tribes constitute significant portions of the population, with 13,280 and 2,298 individuals respectively.



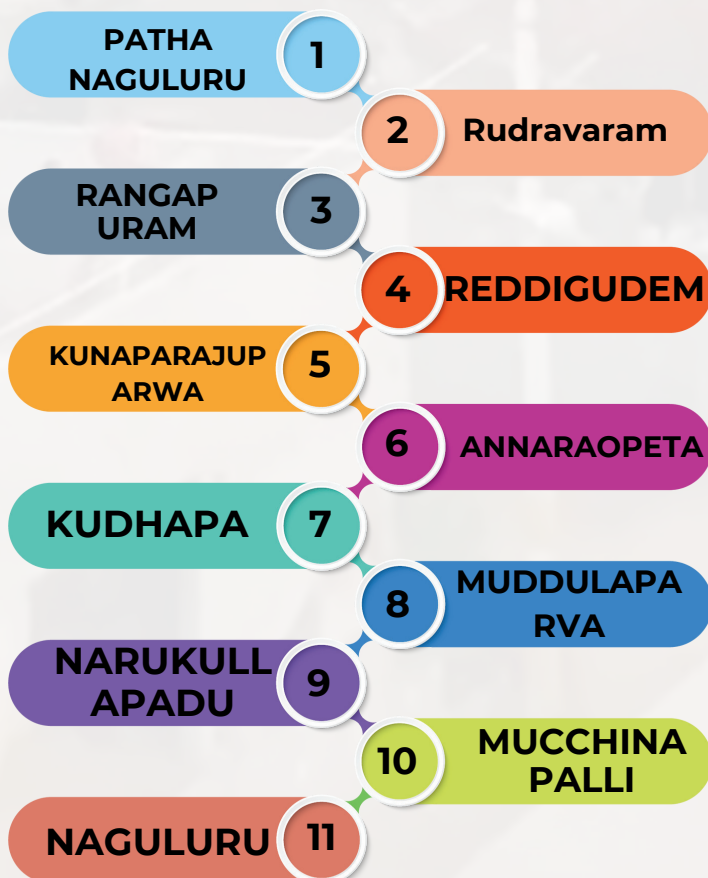
**Geographical Location from Vijayawada to Reddygudem**



## NUMBER OF VILLAGES:

Reddygudem Mandal consists of 18 villages, each with its own unique size and population. Predominantly rural, the villages of Reddygudem thrive on agriculture as the primary source of livelihood, with crops like paddy, groundnut, cotton, and horticultural produce such as mangoes and guavas forming the core of the local economy. The villages showcase a blend of traditional agricultural practices and emerging infrastructure, contributing to the Mandal's cultural and economic vitality. With agriculture at its heart, Reddygudem Mandal continues to evolve, balancing its rural heritage with the progress of modern development.

## LIST OF VILLAGES IN MANDAL





## Agriculture in Reddygudem Mandal, Krishna District

Agriculture forms the cornerstone of Reddigudem Mandal's economy, with a large portion of the population dependent on farming and allied activities. The fertile soils of the Godavari River basin, coupled with favorable climatic conditions, make this region highly suitable for the cultivation of a variety of crops.



### List of Major Crops

1. **Food Crops:** Rice, maize, and pulses.
2. **Horticultural Crops:** Mango, guava, banana, and coconut.
3. **Vegetables:** Brinjal, tomato, chili, and leafy greens.
4. **Aquaculture:** Practiced in certain areas, contributing to the local economy.



Agriculture plays a vital role in the economy and livelihoods of the people in Mylavaram. It serves as the economic backbone of the region, sustaining the rural economy and providing a source of income for the majority of its residents. Local crop production ensures food security by making staple foods readily available and accessible to the community.

The agricultural sector in Mylavaram is a significant source of employment, offering direct opportunities in farming and indirect opportunities in associated activities such as marketing and processing.





## Education and Healthcare Facilities in Reddygudem Mandal, Andhra Pradesh

Mylavaram Mandal in Krishna District, Andhra Pradesh, is home to several educational institutions, including primary and secondary schools. According to available records, there are Mandal Parishad Primary Schools (MPPS) in villages such as Mylavaram, Velvadam, Keerthirayanigudem, Vedurubeedem Thanda, Kanimerla, T. Gannavaram, Chandrala, and Morusumilli.



In terms of healthcare facilities, Mylavaram Mandal is served by a Community Health Center (CHC) located in Mylavaram, which caters to the medical needs of the local population.

Regarding Anganwadi centers, which play a crucial role in child care and development, Mylavaram Mandal operates a total of 55 centers.





## Education and Healthcare Facilities in Reddigudem Mandal, Andhra Pradesh

Village Name	MPP	MPUP	ZPH	Anganwadi
Pathanaguluru	1	0	0	1
Rangapuram	5	1	2	9
Kunaparajuparwa	2	0	1	8
Kudhapa	2	1	0	3
Narukullapadu	2	0	0	3
Naguluru	3	0	1	5
Rudravaram	2	1	0	4
Reddigudem	7	1	1	11
Annaraopeta	3	0	0	4
Muddulaparva	2	1	1	5
Mucchinapalli	2	0	1	5





## Cultural and Historical Importance of Reddigudem Mandal: Thanda Scheduled Tribe Traditions

Mylavaram Mandal is enriched with the cultural heritage of its diverse communities, including the Scheduled Tribe populations residing in **Thandas** (tribal hamlets). These communities play a vital role in preserving traditional tribal customs, art forms, and rituals. The Thanda tribes are known for their vibrant festivals, colorful attire, and traditional dances, such as **Lambadi dance**, performed during celebrations and special occasions.



Tribal festivals often involve rituals dedicated to nature and deities, reflecting their deep connection with the environment. **Handcrafted jewelry, embroidery, and intricate beadwork** are integral to their culture, symbolizing their artistic legacy. These traditions not only sustain their unique identity but also contribute to the cultural richness of Mylavaram Mandal. Efforts to preserve and celebrate these traditions have become a priority, ensuring their cultural significance is recognized and respected.



## SMART VILLAGE REVOLUTION: TRANSFORMING RURAL DEVELOPMENT THROUGH INNOVATION AND SUSTAINABILITY

The Smart Village Revolution (SVR) project empowers students to lead research, innovate solutions, and drive rural development. Focused on sustainable change, this initiative addresses pressing issues through innovative, student-led projects across nine critical domains: Agriculture, Quality Education, Village Infrastructure, Water Conservation, Energy Availability and Efficiency, Material and Resources, Social Community Actions, Green Innovation, Women Empowerment. From water conservation to healthcare accessibility, SVR empowers rural communities by providing tailored solutions that bridge the gap between technology and tradition. Students engage in hands-on research and practical implementation, fostering transformative change while making a lasting societal impact.

By integrating community needs with sustainable practices, the project strengthens rural resilience and enhances quality of life. Through collaborative efforts, the initiative aspires to create a model of progress and prosperity.

### The list of domains:





## PILOT STUDY



Students play an integral role in conducting surveys to assess various aspects of community development within the Smart Village Revolution (SVR) project: Survey on Sanitation and Health Measures: Students conduct surveys to gauge the adoption of sanitation practices and healthy habits within the community.

By assessing the utilization of sanitation facilities and promoting healthy behaviors, students contribute to improving overall well-being. 1. Education Enrollment and Progress Survey: Students survey the enrollment of children in schools and monitor their educational progress.



Through this initiative, students gather data on school attendance and academic performance, enabling targeted interventions to support educational advancement. 2. Power Systems Assessment Survey: Students conduct surveys to evaluate the power systems utilized in households. By examining the methods of power generation and consumption, students gather valuable insights to inform initiatives aimed at promoting energy efficiency and sustainability.





## HEALTH & HYGIENE

Establishing healthcare facilities with essential services and trained professionals, along with health education on hygiene and disease prevention, ensures community wellness. Access to clean water via purification systems and sanitation facilities improves hygiene. Essential medications and vaccines are available, promoting early detection through regular screenings. Fitness programs and collaborations with local health workers foster healthy lifestyles. These initiatives, including outreach programs, form a comprehensive approach to community health.



healthcare facilities in village Patha Nagulluru with essential services and trained professionals, along with health education on hygiene and disease prevention, ensures community wellness. Access to clean water via purification systems and sanitation facilities improves hygiene. Essential medications and vaccines are available, promoting early detection through regular screenings. Fitness programs and collaborations with local health workers foster healthy lifestyles. These initiatives, including outreach programs, form a comprehensive approach to community health.





KL University has actively contributed to improving health and hygiene in villages through a series of impactful health camps and awareness programs. These initiatives include health camps focusing on anemia awareness, where villagers are educated about its causes, prevention, and management. Blood grouping camps are conducted to ensure individuals are aware of their blood type, which is crucial during emergencies.



Programs promoting hygienic behaviors educate communities on practices like regular handwashing and maintaining clean surroundings. Pilot studies help identify specific health issues prevalent in the villages, guiding targeted interventions. Awareness drives on safe disposal of used masks and general health and hygiene further equip villagers with essential knowledge to prevent diseases and maintain a healthy environment. These efforts have significantly improved health standards in rural areas, fostering a healthier and more informed community.



# AGRICULTURE

Agriculture in Smart Villages thrives through the adoption of precision farming techniques. Leveraging technology, farmers make data-driven decisions for irrigation, fertilization, and pest control. Sustainable practices like organic farming and renewable energy integration ensure long-term environmental health. Providing access to modern agricultural practices and tools for continuous improvement.



The agricultural sector in Reddygudem is a significant source of employment, offering direct opportunities in farming and indirect opportunities in associated activities such as marketing and processing. Furthermore, traditional agricultural practices are deeply rooted in the region's cultural heritage, reflecting the lifestyle and values of its people.



Agriculture plays a vital role in the economy and livelihoods of the people in Reddygudem. It serves as the economic backbone of the region, sustaining the rural economy and providing a source of income for the majority of its residents. Local crop production ensures food security by making staple foods readily available and accessible to the community.







Farmers in Reddygudem mandal also engage in agriculture that aligns with the local climate and soil conditions. Similar to Mylavaram, paddy, maize, and pulses are the predominant crops cultivated in the region. Additionally, some farmers focus on horticultural crops, including vegetables, fruits, and flowers, as part of diversification efforts.

Livestock farming, along with poultry and dairy activities, plays an essential role in supplementing agricultural income. Farmers in Reddygudem mandal often rely on a mix of traditional agricultural practices and modern techniques, including the use of advanced irrigation systems like drip and sprinkler irrigation, to optimize water usage and improve yields. These efforts contribute significantly to the agricultural and economic development of the mandal





## QUALITY EDUCATION

Access to quality education is pivotal. Smart Villages utilize digital learning tools, offer training for teachers, and establish schools with modern resources. This empowers the youth, fostering innovation and preparing them for diverse career opportunities. Continuous training programs for educators align teaching methods with modern pedagogies, offering vocational training and specialized courses to prepare students for diverse careers.



KL University's Smart Village Revolution is transforming education in Reddygudem Mandal through the digitalization of school education using advanced technology. By integrating smart classrooms equipped with interactive boards, e-learning platforms, and digital resources, students are provided with a modern and engaging learning environment. Teachers are trained to adopt innovative teaching methodologies, ensuring that education is inclusive and effective. The initiative also emphasizes access to online libraries, virtual labs, and career-oriented digital courses to bridge the rural-urban educational gap. These efforts empower the students of Reddygudem Mandal, fostering creativity, critical thinking.



KL University conducted training sessions for teachers in Rangapuram villages on innovative teaching methodologies and the use of technology in education delivery. These sessions aimed to equip educators with modern teaching techniques and tools to enhance the learning experience for students. Through hands-on workshops and interactive sessions, teachers were trained on integrating technology into their lesson plans effectively. They learned how to utilize educational software, digital resources, and multimedia materials to create engaging and interactive learning environments. By empowering teachers with these skills, KL University is ensuring that students in Rangapuram villages receive a high-quality education that prepares them for success in the digital age.





## Water Conservation

KL University is currently conducting workshops and awareness programs on rainwater harvesting techniques to promote water conservation. These ongoing efforts are aimed at sensitizing the community towards preserving precious water resources. Practical demonstrations and interactive sessions are being conducted to illustrate the benefits and methods of rainwater harvesting. Participants are learning how to collect and store rainwater for various purposes, thereby reducing dependency on scarce water supplies. The initiative is actively fostering a culture of water conservation, with collaborative efforts ongoing with local authorities and experts to ensure success and scalability. By engaging in these activities, KL University is contributing to mitigating water scarcity challenges.



The SVR initiative emphasizes environmental sustainability through rainwater harvesting in Reddygudem Mandal and KLEF-SVR adopted villages. Plantation drives with geo-tagging have been conducted in villages like Gowdanagaram,, Velagalagudem, and Tadigudem to enhance greenery. Awareness camps promote open defecation-free practices in Rangapuram ,Tadigudem, and velagalagudem, fostering a cleaner and healthier environment in Reddygudem Mandal.





Awareness camps promote open defecation-free practices in Raghavapuram, Naguluru, and Naguluru Thanda. These efforts aim to integrate community participation in fostering eco-friendly practices and improving the overall quality of life in the region.

Water conservation efforts within the Smart Village Revolution (SVR) are propelled by active student involvement. Students play a crucial role in executing rainwater harvesting projects, preparing soak pits, and implementing microirrigation techniques aimed at ensuring sustainable water management practices. Their hands-on participation not only contributes to the success of these initiatives but also fosters a sense of ownership and responsibility towards conserving water resources within the community. Through their engagement, students become catalysts for positive change, driving impactful solutions for sustainable water conservation in rural areas.





## Green Innovations

The Smart Village Revolution (SVR) initiative actively fosters environmental consciousness by organizing impactful programs and campaigns aimed at preserving natural resources and promoting sustainable practices. Tree plantation drives with geo-tagging have been successfully conducted in Reddygudem, kudhapa, and rangapuram not only increasing green cover but also enabling the tracking and monitoring of planted saplings for long-term growth.



Awareness programs in villages like Patha Nagulluru emphasize the importance of reducing plastic usage and adopting sustainable waste management practices. Under the SVR initiative, these programs also focus on educating residents about the benefits of eco-friendly alternatives, such as composting and segregating waste at the source.



Patha Nagulluru actively participates in celebrating World Ozone Day, leveraging the event to highlight the significance of protecting the ozone layer and promoting broader environmental conservation efforts. Villagers are encouraged to adopt green practices like planting trees and minimizing the use of harmful chemicals that can deplete the ozone layer.





rainwater harvesting and promotes the construction of eco-friendly toilets, helping to conserve water and reduce waste in rural areas like Narukullapadu and Obulapuram. Campaigns to reduce chemical pesticide use and encourage organic farming practices are being conducted, aiming to protect the health of both the soil and the people. Solar power projects, along with the promotion of energy-efficient cooking methods, are making significant strides in reducing carbon footprints while improving the quality of life in these rural communities.

The initiative also emphasizes the importance of maintaining clean water sources by educating villagers about proper sanitation and waste management, ensuring a healthier and more sustainable environment.





## SOCIAL COMMUNITY ACTIONS



Kudhapa village focuses on holistic community development by addressing health, education, and social empowerment. Health camps and anemia awareness programs conducted in the village aim to improve the well-being of residents by providing essential healthcare services and spreading awareness about preventive measures. Special deworming camps for children in Kudhapa ensure better hygiene and child health, contributing to a healthier future generation.

Education and creativity are nurtured through impactful outreach activities, such as art and craft sessions, painting workshops, and writing skills programs. These initiatives empower rural youth to explore their creative potential and emphasize the importance of education in shaping their future. Awareness programs on the significance of education in nearby villages also promote literacy and encourage school attendance, especially for girl students. Competitions and interactive events foster teamwork and community participation, strengthening social bonds within the village.



empower the community, the SVR initiative offers skill development programs tailored to women, such as tailoring and handicraft workshops, providing them with opportunities for economic independence. Financial literacy programs equip rural families with the knowledge to manage their resources more effectively, ensuring sustainable livelihoods.



## WOMEN EMPOWERMENT



The Smart Village Revolution (SVR) initiative is committed to empowering rural communities, particularly women, through targeted skill-building and sustainable development programs. In Pathanaguluru village, workshops on cloth and jute bag making equip women with vocational skills, fostering self-reliance and opening avenues for income generation. Additionally, training sessions on energy and resource management are conducted to encourage efficient utilization of available resources, enhancing community sustainability.

women's empowerment through skill-building activities and training in kitchen gardening in villages like , Velagalagudem, and naguluru thanda These programs not only provide women with practical skills to contribute to household nutrition but also pave the way for sustainable livelihoods. By integrating economic empowerment, environmental consciousness, and community well-being, the SVR initiative continues to transform rural lives and foster long-term growth.







Women empowerment initiatives in Reddygudem, led by KL University, have introduced various programs to uplift rural communities. Workshops on cloth and jute bag making have provided women with sustainable income opportunities, while training in kitchen gardening has promoted nutritional self-sufficiency. Women's skill-building and empowerment workshops focus on enhancing employability and entrepreneurial abilities. Programs like waste management, sanitation awareness, and promoting hygienic behaviors emphasize the importance of hygiene in economic development. Additionally, adult literacy promotion through village libraries and training on sustainable livelihoods equip women with essential knowledge and skills. Energy and resource management workshops empower women to adopt sustainable practices, fostering self-reliance and environmental consciousness in Reddygudem.





## VILLAGE INFRASTRUCTURE



The SVR Club actively participates in improving village infrastructure, addressing critical needs such as road connectivity, sanitation facilities, and community spaces. Initiatives include constructing and repairing roads to facilitate easier access to essential services, building eco-friendly toilets to promote hygiene, and creating public spaces that foster community bonding and collaboration. These efforts contribute significantly to the holistic development of villages, ensuring both social and economic growth.



Environmental stewardship is central to the SVR initiative. Students organize afforestation drives to increase green cover and mitigate the effects of climate change. Waste management programs educate villagers on waste segregation, recycling, and composting, while water conservation efforts focus on implementing rainwater harvesting systems, constructing check dams, and promoting efficient irrigation techniques. These activities are designed to foster a culture of environmental responsibility and ensure the sustainable use of resources.

They also work on infrastructure improvement projects, such as building better roads, sanitation facilities, and community spaces, which contribute to the holistic growth of these communities. Environmental conservation is another key focus, with students organizing campaigns for afforestation, waste management, and water conservation to ensure long-term ecological balance.





tudents work collaboratively with villagers to identify challenges and implement solutions that are tailored to local needs. Regular interaction ensures the sustainability of projects, as community members are involved in planning, execution, and maintenance. Energy and resource management workshops educate villagers on adopting sustainable practices, contributing to long-term self-sufficiency and environmental consciousness.

Through these comprehensive efforts, L University's SVR Club not only transforms rural communities but also instills a sense of social responsibility and leadership in its students. By addressing key areas such as agriculture, infrastructure, health, education, and the environment, the initiative serves as a model for sustainable rural development, paving the way for a brighter and more equitable future.



In addition, the SVR Club at KL University acts as a bridge between the academic community and rural populations, encouraging students to develop real-world solutions for grassroots challenges. Collaborative projects, such as skill training workshops and digital literacy programs, help improve the economic opportunities available to rural individuals. The club's efforts are centered around creating a model of sustainable development that can be replicated in other villages, amplifying the impact of their work.



# SMART VILLAGE REVOLUTION

"India lives in its villages," a statement attributed to Mahatma Gandhi, underscores the essential role villages play as the backbone of India's economy, culture, and society. Gandhi envisioned a nation where rural areas thrived through self-sufficiency, equitable opportunities, and sustainable development. This vision aligns seamlessly with the concept of the **Smart Village Revolution**, which seeks to bridge the gap between rural and urban areas by integrating technology, infrastructure, and innovation into traditional village systems.

Smart Village Revolution initiative aims to transform rural life by providing access to quality education, healthcare, digital connectivity, renewable energy, and sustainable farming practices. By leveraging modern tools and empowering rural communities, this movement fosters inclusive growth, ensuring villages are not only self-reliant but also contributors to India's overall progress.

