



# GREEN AUDIT REPORT

**GOVERNMENT DEGREE COLLEGE NARSAPUR  
PEDDA CHINTAKUNTA VILLAGE, DIST. MEDAK - 502313 (TS)**

**2020**

## Green Audit Team

<b>S. No.</b>	<b>Audit</b>	<b>Name of the Lecturer</b>
1.	Trees and Plant Audit	Smt. V. Srimathi Bai
2.	Water Audit and Energy Audit	Sri Ch. Gangadhar
3.	Environment Audit and Carbon Footprint Audit	Sri Ramana
4.	Waste Audit and E Waste Audit	Sri V. Hemanth Kumar Chary

**Principal: Dr. P. Damodar, M.Sc., Ph. D.**

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## 1. INTRODUCTION

Government Degree College - Narsapur is a co-education institution for graduation studies. This is affiliated to Osmania University and with recognition of 2(f) under UGC act 1956 & applied for 12(b) in 2018. This is one of the degree colleges established on 27th July 2008 by the Government of Andhra Pradesh for the need of higher education in remote areas of the state. First, this college was accommodated in 2 rooms of the Government Junior college building at Narsapur town in Medak District. At that time it had four different group combinations under three degree courses and total student strength was 88.

In the academic year 2017-18, the college was shifted to a new building at Pedda Chintakunta village, Narsapur mandal, Medak district on 25th November 2017. This new building is constructed on a bit of 7.33 acres of land, which is surrounded by village Agricultural lands on one side and forest on the other side. The college building is single floored i.e. ground floor. It contains a seminar hall, an AV room, a computer lab, three class rooms and yet to complete four classrooms. Seminar hall and AV room have been equipped with ICT facilities for taking digital classes and using them as class rooms also. These rooms have also been provided with Internet connection for acquiring up to date knowledge. These rooms are fully furnished. A central library with more than 1000 academic books available for students. Sports material to play cricket, volleyball, shuttle, chess and carrom are available for non-curricular activities. The college also has its own greenery under Haritha Haram Programme.

The college has fifteen (15) teaching staff members, one faculty for each subject. Along with faculty, there are eight(8) non-teaching staff members working presently. Now the college is offering six group combinations B.A. (HEP), B.Com.(Computer Applications), B. Sc. (BZC), B. Sc. (MPC), B. Sc. (MPCS) and B.Sc. (MCCS) programs and the total student strength has been increased to 251.

## 2. TREES AND PLANT AUDIT

The campus has various trees and plants. It is vital to maintain the green cover in the campus. Students and faculty participate actively in plantation programs. A variety of trees, more of native and adaptive plants which also require less water are used. Also a number of medicinal plants have been planted in the campus.

**Swachh Bharat Mission:** Swachh Bharat Program is practiced every month. Most of the students and NSS volunteers participate in this event, and clean the entire campus. The waste is collected and dumped outside the college in a specified area.

**Environmental Awareness as a part of the Core Curriculum:** Environmental studies is a mandatory course for all first year students in the campus irrespective of the stream.

The objective of the course is to provide a conceptual framework for understanding and analyzing environmental problems.

By the end of the course, one should be able to

- Explain the key concepts and methods from ecological and physical sciences and apply them in solving environmental problems.
- Critically examine all the aspects of environmental studies such as environmental pollution, health issues.

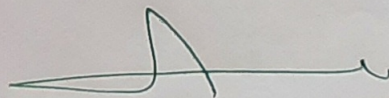
### **Awareness Program on Plantation:**

College has organized a tree plantation program on the college campus. Faculty and students took part in the Haritha Haram Program. College celebrates the World Environment Day on June 5 and World Forest Day and International Plantation Day by conducting competitions among the students and also talks by eminent people to bring awareness. Saplings were distributed to the students, staff as a part of the Green Initiative. This program promotes an eco-friendly environment by stepping up the oxygen levels on the campus.

### **Awareness Program on Plastic-Free Campus:**

Government Degree College Narsapur conducts awareness programs for the students about the hazards of plastic and alternative ways through which usage of plastic can be minimized. The institution takes all measures required to ensure that the campus is free of plastic items and other waste that harm the environment.

S. No.	Name of the Plant/Tree	Number
1	Tulasi	3
2	Pomegranate	2
3	Custard Apple	3
4	Rose	2
5	Nerium	2
6	Mint	Many
7	Mango tree	2
8	Palm tree	1
9	Neem tree	5
10	Gummadi	1
11	Syzgium Cumini	2
12	Crossandra Infundi Bulifermis	20
13	Butea Monosperma	40
14	Tamarind Indica	
15	Grass Rose Plant	Many
16	Papaya	
17	Hibiscus	2



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Narasapur, Medak-502 313.

### 3. WATER AUDIT

Water audit at our college was done to identify water usage patterns in the campus for identifying water conservation opportunities.

The key objectives of a water audit is.....

- To understand the water supply and distribution systems
- To identify water use patterns
- To identify deficiency in the water network system including leakages and wastage
- To identify baseline of water usage
- To identify water conservation opportunities including water reuse

The audit was done by our staff members on a walk through at site. The campus is located at Peddachintakunta village, very near to Narsapur municipality.

The water sources for our campus are the MISSION BHAGEERATHA tap connections provided by panchayati to satisfy our campus needs.

In the heavy summer we are using the borewell water for the High school campus beside us.

To mitigate the shortfall our campus has heavy water harvesting pit and the dimensions of the pit are 12\*12\*12 feet.

Excess rain water is directed towards the landscape area catering to the plants and trees.

The institution has been catering the water to the students and the staff from panchayati tap connections.

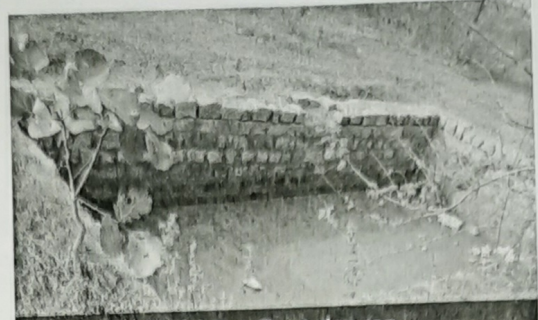
The rejected water is used for domestic purposes.

An overhead upper tank of 5000 litres is used for institutional needs.



Address Govt.degree  
College.narsapur.medak.dist. Jr.college  
Building Narsapur.medak.dist.pin 502313ts.,  
Pedda Chinta Kunta Villege. Medak. Road.  
Mon. Narsapur. Medak Dist. Pin No,  
Mohammadabad @ Janakampet, Telangana  
502313, India

Latitude	Longitude
17.7680548°	78.2659967°
Local 03:49:45 PM	Altitude 569.4 meters
GMT 10:19:45 AM	Friday, 18-12-2020



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Mohammadabad @ Janakampet, Telangana  
502313, India

Latitude	Longitude
17.7687315°	78.2661338°
Local 03:52:03 PM	Altitude 533.4 meters
GMT 10:22:03 AM	Friday, 18-12-2020

## RECOMMENDATIONS

- For water audit, waterless urinals can save upto 10000 gallons of water per year.
- Use of native adaptive plants, mulching,and an efficient irrigation system.
- To reduce water usage to use meters for accurate reading.
- Identify leakages in taps.
- Track the water service.
- The meters can be installed at food service points.
- To increase the capacity of rainwater in the ground area, more water pits should be required.

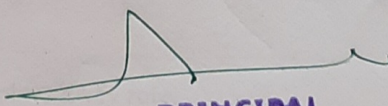
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Narsapur, Medak-502313

#### 4. ENERGY AUDIT

- The energy consumption of campus was studied by using meter logs and electricity bills.
- The main source of energy supply to facility our campus is provided by TSNPDCL  
TELANGANA.
- We have two meters.
- In our campus electricity is used for office automation, running fans and lights.
- Our campus has large open area, hence we consume less power.
- Our power consumption as evidenced by our power bills show that we have minimal electricity usage. Hence we did not go for a solar power plant costing about Rs. 150000/-.  
(Annexures showing power consumption enclosed.)

#### RECOMMENDATIONS

- To use solar panel boards.
- **Paint high SRI** paints to reduce heat inside the campus.
- To use automatic control capacitors.
- **Replace conventional lights with LEDS.**
- Try to avoid DISCOM ELECTRICITY and solar power system.

  
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## 5. ENVIRONMENT AUDIT

In an environment audit our college has been maintaining an ecosystem as per government guidelines.

Our campus has various trees and plants.

Our college is located in a forest area so it has a very peaceful climate.

It maintains a green cover on the campus.

Students and faculty are active participants in numerous plantation drives in the nearby localities.

A measure of the institution's commitment to ecological health is evident from the roof gardening.

The greenery in the campus helps enhancing the air quality in our campus.

Therefore the carbon oxides will decrease.

Our campus has so many trees and plants like MANGO, NEEM, PAPAYA ,ONION, HIBISCUS, CURRY LEAVES, TULSI, etc....

In SWACHH BHARAT MISSION our students participated in a campus cleaning program.

For this, 100 students of our college collected the waste in front of our college and dumped it at the village.

This activity will promote the development of the society.

For this our college conducted so many awareness programs.

Our college conducted environmental audit programs as per the instructions given by the CCETS.

To be aware of this audit we conducted rallies.

In this connection the NSS team of our college plays a key role.

## 6. CARBON FOOTPRINT AUDIT

Our campus has a phased plan of five years to replace all existing CFC refrigerants to CFC free refrigerants.

For encouragement to this , usage of public transport systems to minimize CFC.

90 percent of our college students and faculty members are using the public transport system and various poolings to reach the college.

The usage of solid fuels and firewood is prohibited in the campus.

We are also taking care to avoid commodities from outside the campus.

Except for laboratory chemicals, solvents are not part of the campus.

Students and faculty members sensitize about vehicle pollution.

Free pollution checking is conducted in our campus yearly once.

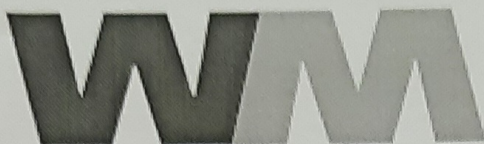
The laboratory wastes are dumped at deep pits.

The above programs conducted by our college helps in the motivation of awareness of CFC emission and its negative effects on individuals and on our environment.

Actually from our college there are no carbon emissions due to being located in a complete forest area.

This is the GREATEST NATURAL ACHIEVEMENT of our college.

## 7. WASTE MANAGEMENT AUDIT

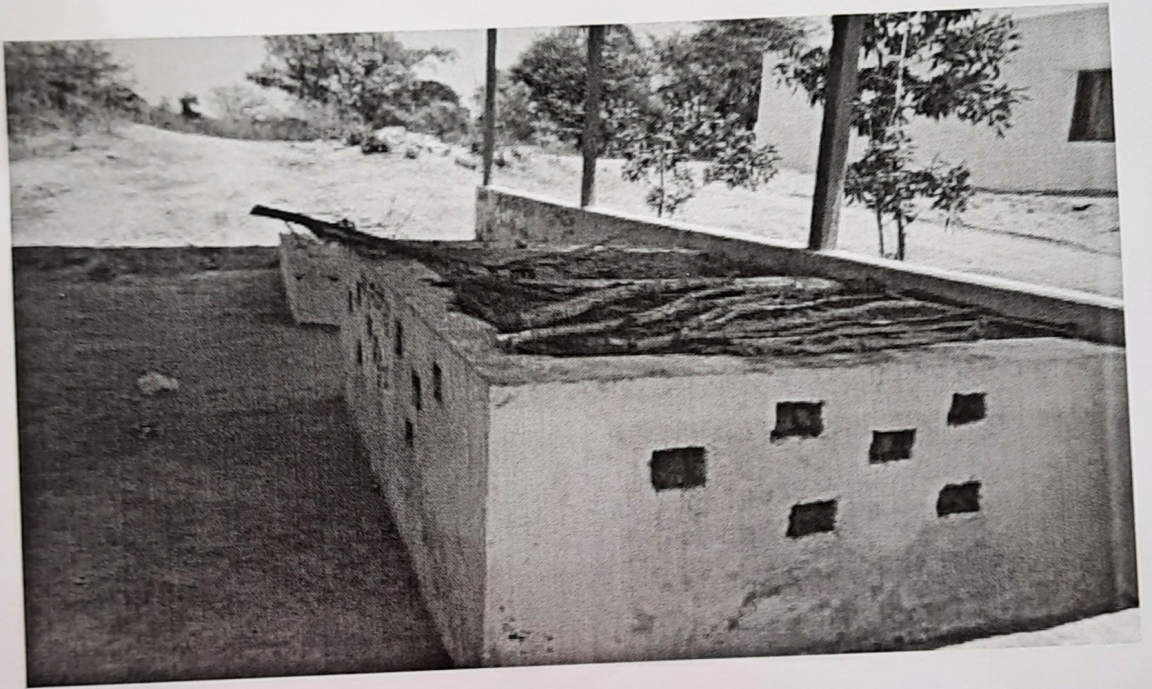
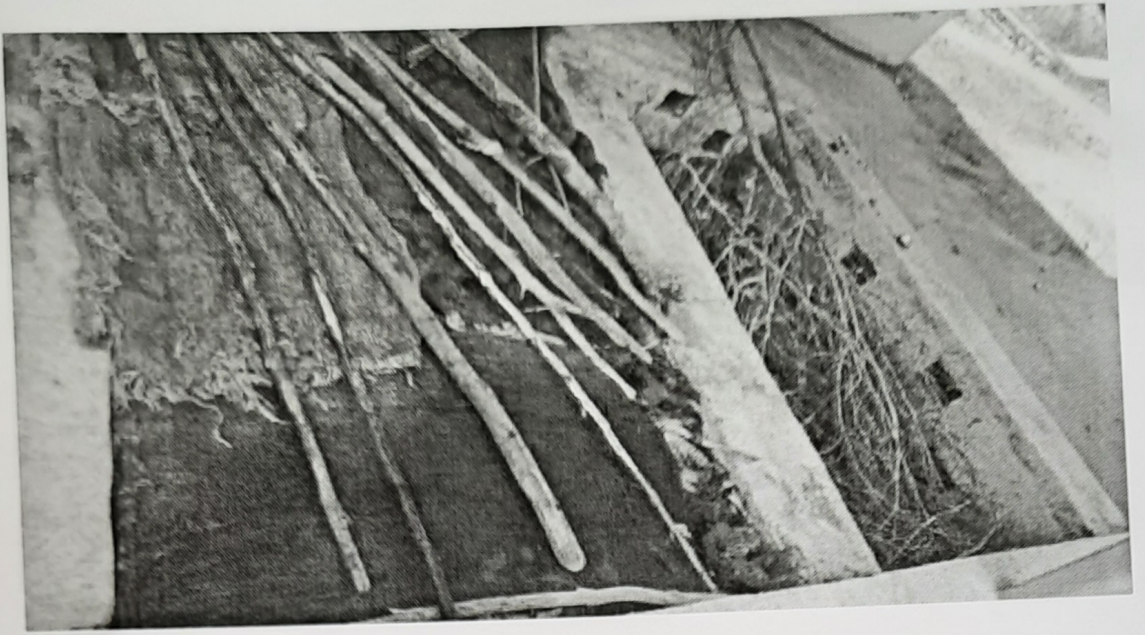


# WASTE MANAGEMENT

- Waste management is a very good program.
- Waste management involves the regular collection as processing and disposal or recycling and monitoring of different types of waste materials in the college.
- These services can save a considerable amount of money, and can also prevent the environment from being harmed.
- Through this program, different types of waste materials are identified in the college.
  - Food Waste
  - Recyclable Paper,
  - Cardboard,
  - Plastic
  - Electronics
  - Chemical Waste
  - Maintenance Waste

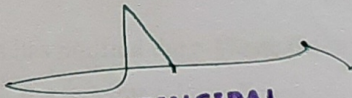
Waste management practices in our college:

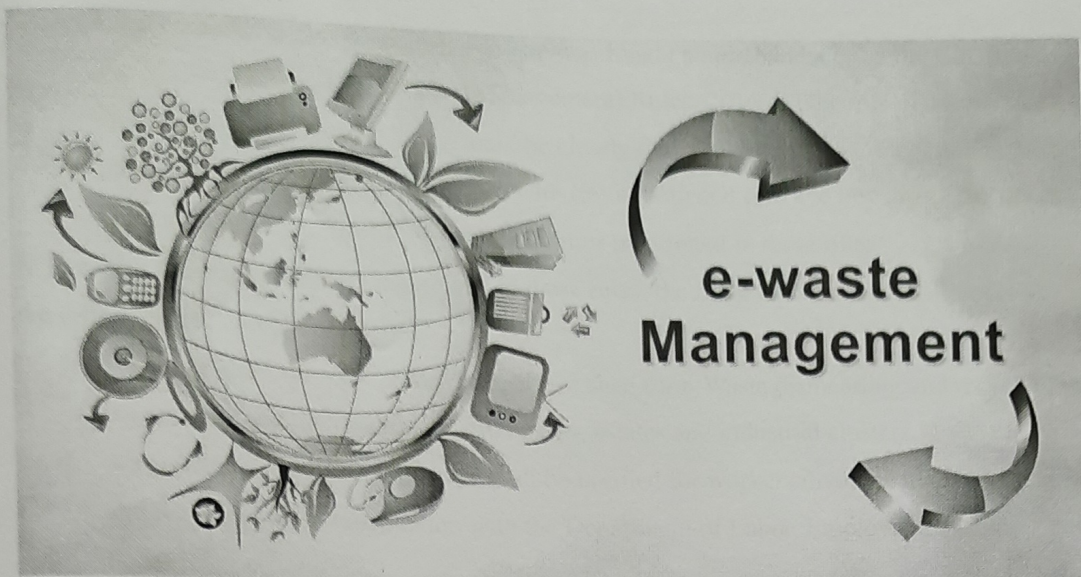
- In our college we will collect plastic, metal cans, white paper, and food wastage and separate accordingly. Garbage collected in this way will be given to local sanitation workers, which is expected to have a partnership between college and the Grama panchayathi.
- They will collect all the wastage in our college and in our village. By this waste garbage they will produce compost manure and biogas this will be useful to local farmers.





- While our college produces large amounts of waste materials we try to reuse them by recycling. We use this compost manure to grow a variety of plants in the college premises.
- Advantages or Benefits of Waste Management:
  - This practice is highly efficient.
  - Keeps the environment clean and fresh.
  - Saves the Earth and conserves energy.
  - Reduces environmental pollution.

  
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### **E - Waste Management:**

- The Government Degree College was established in 2008 at the Narsapur Junior College building and in 2017 was shifted into a new building at Pedda Chintakunta village.
- The college has had a very small amount of e-Waste since the last five years. We found the e-waste elements in our college are 3-Printers, 3-UPS Batteries and 4-Computers (CPU).
- These e-Waste items are kept in the college store room so that they do not cause any harm to the environment and people. If these cause harm to the environment or to humans, we will destroy them according to e-waste rules or donate to any organization.

### **TELANGANA STATE'S ROLE IN IMPLEMENTING E-WASTE (MANAGEMENT) RULES 2016**

The Central Ministry of Environment and Forests has notified the e-Waste (Management) Rules, 2016 in March 2016. Extensive focus has been on Extended Producer Responsibility with clear responsibilities outlined for manufacturers, producers, consumers, bulk consumers, refurbishes, collection centers, dismantlers, recyclers, State Government, and urban local bodies. The Government aims to complement these rules by playing an active role in promoting refurbishing and recycling of electronic products through the right channels.

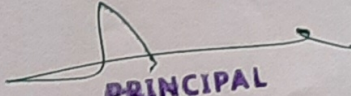
- Until recently, the battle against e-Waste was fought single handedly by the CPCB and the SPCBs. Only in the e-Waste (Management) Rules, 2016 did the role of State Government in e-Waste Management be clearly outlined. The ITE&C Department, being an important stakeholder in this area with ties to both sell side and buy-side, shall act as the nodal agency to fulfill the responsibilities mentioned in these rules.

In line with the responsibilities mentioned in these rules, the State Government shall undertake the following activities:

1. The State shall earmark industrial space or shed for e-Waste dismantling and recycling in the existing and upcoming industrial parks, estates and industrial clusters.
2. A mandatory registration process shall be notified for workers involved in dismantling and recycling after consultation with the Department of Labor, Employment Training and Factories.
3. Under the State Skills Development Mission, skills involved in dismantling and recycling shall be taken up as a priority area to ensure safety & health of the workers. TASK shall collaborate with the Skill Council for Green Jobs to develop and drive programs for these workers.
4. The Government shall prepare an integrated plan for effective implementation of these provisions.

## **8. CONCLUSION**

The college is surrounded by forest and rural areas. It constantly is striving to maintain a tidy, hygienic and beautiful campus. The college is trying for funds to establish better facilities for greenery in the campus.

  
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Govt. Degree College  
Narasapur, Medak-507 313.

# ANNEXURE SHOWING POWER CONSUMPTION

SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED  
 ENERGY BILLING SYSTEM, ERO: 66 MEDAR  
 CONSUMPTION, BILLING, COLLECTION AND ARREARS HISTORY  
 DURING THE PERIOD January, 2018 TO June, 2021

-----  
 Service Number : 7711200421  
 Name : PRINCIPAL GOVT DEGREE  
 Address : SYNO. 309/1/2  
 PEDDA CHINTRAKUNTA  
 PEDDA CHINTRAKUNTA  
 NARSAPUR-0  
 Last Pay Date : 04-FEB-21  
 Section Code : 1 09  
 Area Code : 77117  
 Category : 7  
 Sup. Con. Date : 04-APR-18  
 Consumer Type : LT  
 Contr / Conn Load : 2.00 / 2.00  
 Meter Number : 1500935  
 Security Deposit : 0.00  
 Multiplying Factor : 1.00  
 Meter Phase : 1 1  
 -----

MON/YEAR	ST	CLOSING READING	UNITS (kwh)	DEMAND (Rs.)	JE DEBIT (Rs.)	COLLECTION (Rs.)	JE CREDIT (Rs.)	ARREARS
May/2021	01	3575	456	3459.00	0.00	0.00	0.00	-8175.00
Apr/2021	01	3119	603	4340.00	0.00	0.00	0.00	-11584.00
Mar/2021	01	2516	363	2775.00	0.00	0.00	0.00	-16124.00
Feb/2021	09	2153	0	308.00	0.00	20000.00	0.00	-18899.00
Jan/2021	09	2153	0	305.00	0.00	0.00	0.00	793.00
Dec/2020	09	2153	0	305.00	0.00	0.00	0.00	488.00
Nov/2020	09	2153	0	154.00	0.00	0.00	0.00	183.00
Oct/2020	01	2153	370	2827.00	0.00	0.00	0.00	29.00
Sep/2020	01	1783	284	2209.00	0.00	0.00	0.00	-2798.00
Aug/2020	01	1497	235	1833.00	0.00	0.00	0.00	-5007.00
Jul/2020	01	1262	252	1950.00	0.00	0.00	0.00	-6840.00
Jun/2020	01	1011	190	1501.00	0.00	0.00	0.00	-8790.00
May/2020	01	821	185	1484.00	0.00	0.00	0.00	-10291.00
Apr/2020	01	636	384	2928.00	0.00	0.00	0.00	-11755.00
Mar/2020	01	252	252	1957.00	0.00	0.00	0.00	-14683.00
Feb/2020	09	0	0	152.00	0.00	15000.00	0.00	-16640.00
Jan/2020	09	0	0	152.00	0.00	0.00	0.00	-1792.00
Dec/2019	09	0	0	152.00	0.00	0.00	0.00	-1944.00
Nov/2019	09	0	0	152.00	0.00	0.00	0.00	-2096.00
Oct/2019	09	0	0	152.00	0.00	152.00	0.00	-2248.00
Sep/2019	09	0	0	152.00	0.00	0.00	0.00	-2248.00
Aug/2019	01	465	310	2534.00	0.00	3771.00	2400.00	-2400.00
Jul/2019	01	155	155	1243.00	0.00	0.00	0.00	1237.00
Jun/2019	03	0	0	152.00	0.00	152.00	0.00	-6.00
May/2019	03	0	0	152.04	0.00	530.00	158.04	-6.00
Apr/2019	03	0	0	151.52	6.48	0.00	0.00	530.00
Mar/2019	03	0	0	151.72	71.28	0.00	0.00	372.00
Feb/2019	03	0	0	152.00	432.00	0.00	0.00	149.00
Jan/2019	01	0	0	152.00	0.00	0.00	0.00	-435.00
Dec/2018	01	0	0	152.00	0.00	0.00	0.00	-587.00
Nov/2018	09	0	-150	-739.00	0.00	0.00	0.00	-739.00
Oct/2018	05	0	150	1366.00	0.00	2804.00	0.00	0.00
Sep/2018	01	0	0	310.00	0.00	0.00	0.00	1438.00
Aug/2018	01	0	0	308.00	0.00	0.00	0.00	1128.00
Jul/2018	01	0	0	305.00	0.00	0.00	0.00	820.00
Jun/2018	01	0	0	302.00	0.00	0.00	0.00	515.00
May/2018	01	0	0	213.00	0.00	0.00	0.00	213.00
Apr/2018	00	0	0	0.00	0.00	0.00	0.00	0.00




SOUTHERN POWER DISTRIBUTION COMPANY OF TS LIMITED  
 ENERGY BILLING SYSTEM, ERO: 56 MDRM  
 CONSUMPTION, BILLING, COLLECTION AND APPEARANCE HISTORY  
 DURING THE PERIOD January, 2016 TO June, 2021

Service Number : 7711200420  
 Name : PRINCIPAL GOVT DEGREE  
 Address : COLLAGE  
 SYNO. 309/1/2  
 PEDDACHINTAKUNTA  
 NARASAPUR-0  
 Consumer Type : LT  
 Contr / Conn Load : 2.00 / 2.00  
 Multiplying Factor : 1.00  
 Last Pay Date : 04-FEB-21  
 Section Code : 09  
 Area Code : 77112  
 Category : 7  
 Sup. Con. Date : 26-NOV-13  
 Meter Number : 1500338  
 Security Deposit : 0.00  
 Meter Phase : 1

MON/YEAR	ST	CLOSING READING	UNITS (kWh)	DEMAND (Rs.)	JE DEBIT (Rs.)	COLLECTION (Rs.)	JE CREDIT (Rs.)	APPEARS
May/2021	09	5844	0	152.00	0.00	0.00	0.00	-29690.00
Apr/2021	09	5844	0	152.00	0.00	0.00	0.00	-29842.00
Mar/2021	01	5844	24	279.00	0.00	0.00	0.00	-29994.00
Feb/2021	01	5820	377	2879.00	0.00	30000.00	0.00	-30273.00
Jan/2021	01	5443	351	2887.00	0.00	0.00	0.00	-3152.00
Dec/2020	01	5092	429	3260.00	0.00	0.00	0.00	-5839.00
Nov/2020	01	4663	429	3260.00	0.00	0.00	0.00	-9099.00
Oct/2020	01	4234	10	176.00	0.00	0.00	0.00	-12359.00
Sep/2020	09	4224	0	153.00	0.00	0.00	0.00	-12535.00
Aug/2020	09	4224	0	153.00	0.00	0.00	0.00	-12688.00
Jul/2020	09	4224	0	153.00	0.00	0.00	0.00	-12841.00
Jun/2020	09	4224	0	153.00	0.00	0.00	0.00	-12994.00
May/2020	09	4224	0	153.00	0.00	0.00	0.00	-13147.00
Apr/2020	09	4224	0	152.00	0.00	0.00	0.00	-13300.00
Mar/2020	01	4224	510	3856.00	0.00	0.00	0.00	-13452.00
Feb/2020	01	3714	0	153.00	0.00	15000.00	0.00	-17308.00
Jan/2020	01	3714	305	2347.00	0.00	0.00	0.00	-2461.00
Dec/2019	01	3409	349	2871.00	0.00	0.00	0.00	-4808.00
Nov/2019	01	3060	0	152.00	0.00	6500.00	0.00	-7479.00
Oct/2019	01	3060	220	1721.00	0.00	0.00	0.00	-1131.00
Sep/2019	01	2840	150	1206.00	0.00	0.00	0.00	-2852.00
Aug/2019	01	8786	63	716.00	0.00	0.00	4988.00	-4056.00
Jul/2019	01	8723	56	664.00	0.00	476.00	0.00	214.00
Jun/2019	03	8667	0	152.00	0.00	0.00	0.00	26.00
May/2019	03	8667	0	151.95	0.00	0.00	277.95	-126.00
Apr/2019	03	8667	0	152.00	0.00	0.00	0.00	0.00
Mar/2019	03	8667	336	2575.00	0.00	2575.00	0.00	-152.00
Feb/2019	02	8667	336	3224.00	0.00	3224.00	0.00	-152.00
Jan/2019	01	8667	239	2355.00	0.00	2507.00	0.00	0.00
Dec/2018	01	8428	310	2959.00	0.00	2959.00	0.00	0.00
Nov/2018	01	8118	281	2741.00	0.00	2741.00	0.00	0.00
Oct/2018	01	7837	417	3941.00	0.00	3941.00	0.00	0.00
Sep/2018	01	7420	211	1968.00	0.00	1968.00	0.00	0.00
Aug/2018	01	7209	289	2660.00	0.00	2660.00	0.00	0.00
Jul/2018	01	6920	253	2458.00	0.00	4911.00	0.00	2453.00
Jun/2018	01	6667	254	2453.00	0.00	0.00	166.60	0.00
May/2018	01	6413	340	3252.60	0.00	3086.00	0.00	0.00
Apr/2018	01	6073	630	5788.00	0.00	5788.00	0.00	0.00
Mar/2018	01	5443	0	0.00	0.00	0.00	0.00	0.00
Feb/2018	01	5443	488	4604.00	0.00	4600.00	0.00	0.00
Jan/2018	01	4955	0	0.00	0.00	0.00	0.00	-4.00
Dec/2017	01	4955	354	3446.00	0.00	3445.00	0.00	-4.00
Nov/2017	01	4601	0	0.00	0.00	0.00	0.00	-5.00
Oct/2017	01	4601	580	5465.00	0.00	7999.00	0.00	-5.00
Sep/2017	01	4021	0	0.00	0.00	0.00	0.00	2529.00
Aug/2017	01	4021	228	2529.00	0.00	0.00	0.00	2529.00
Jul/2017	01	3793	0	0.00	0.00	1291.00	0.00	0.00
Jun/2017	01	3793	102	958.60	0.00	0.00	166.60	1291.00
May/2017	01	3691	0	0.00	0.00	0.00	0.00	499.00

http://117.730.151.70:8080/FRS/Report/Consumer%20Reports/ConsumptionHistory... 21-06-2021

  
**PRINCIPAL**  
 Govt. Degree College  
 Narasapur, Medak-502 313.