



4.4.2.

There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

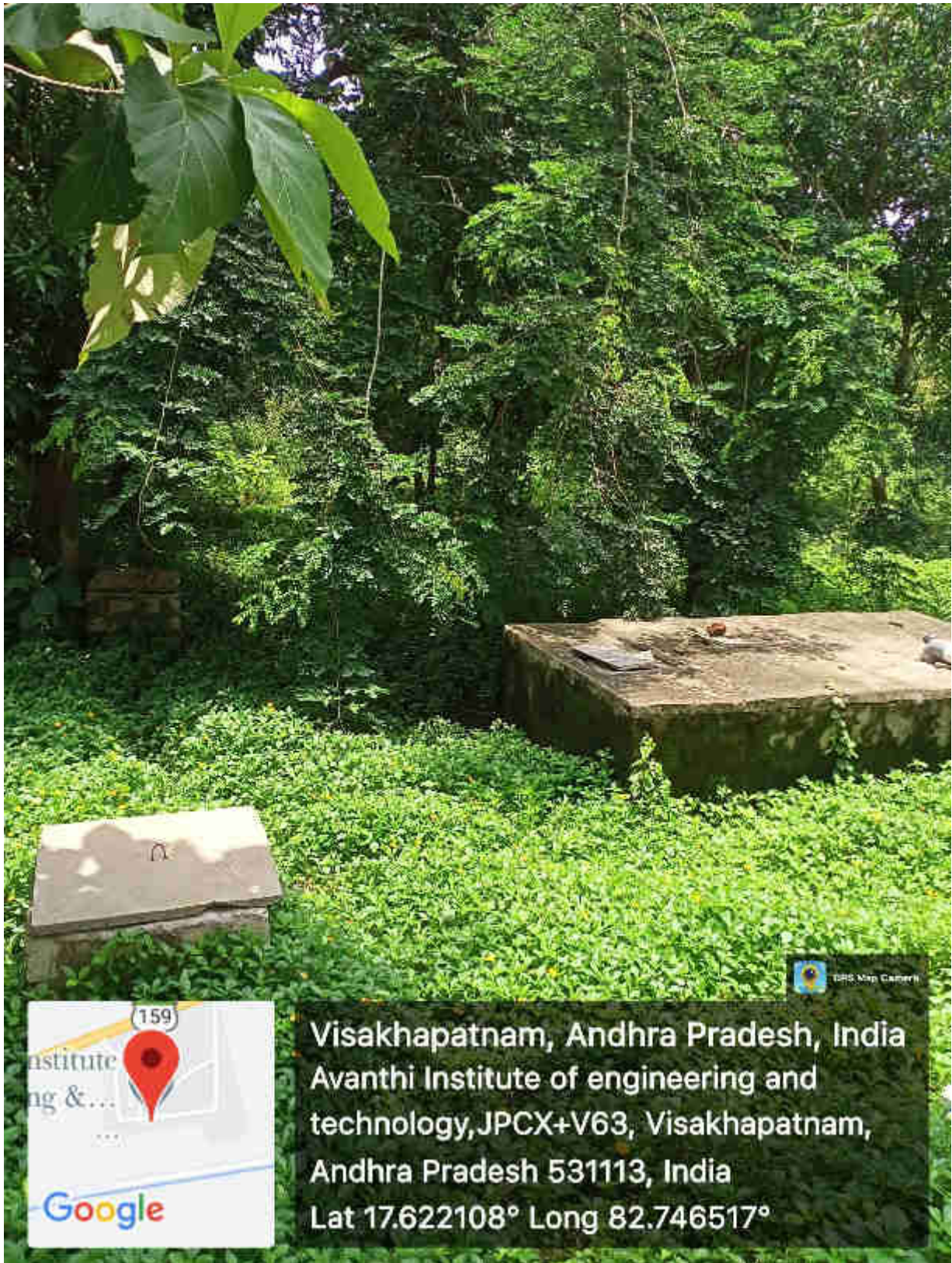
Civil Maintenance :-

Maintenance of civil works is needed for getting uninterrupted services which facilitate smooth and efficient functioning of the institution. The maintenance of civil works include

- Maintaining cleanliness and sanitation in the campus.
- Repair of frequently damaging components like window glasses, plumbing components, sanitary ware, floor tiles, doors, classrooms, benches, boards, furniture, faculty rooms etc □ Internal roads maintenance.
- Water supply and overhead/underground water tank maintenance
- Rain water harvesting
- Maintenance of the water bodies and distribution system in campus







RO PLANT :



4.4.2.2 .MECHANICAL MAINTENANCE

The standard procedure followed for service and maintenance of equipment/machinery as follows

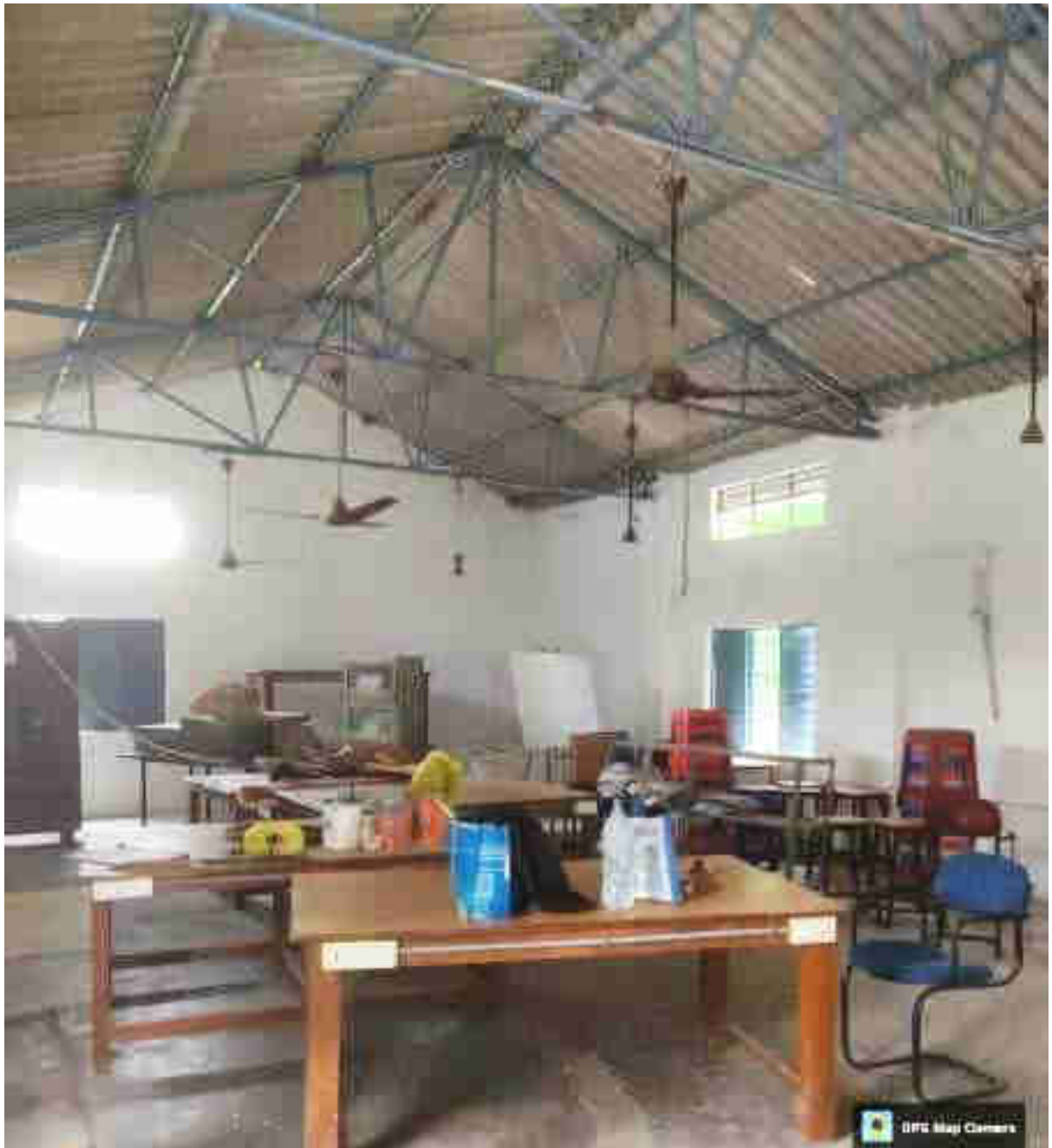
- If the equipment/machinery is to be serviced during the warranty period, the supplier of the equipment/machinery will be intimated about the repair and it will be serviced either in-house or in the supplier premises based on the nature of defect.
- After warranty period if the equipment/machinery demands service, the technical staff attached to the respective laboratories service the equipment/machinery to the extent possible.
- If not, identify the persons outside the organization who repair the equipment, if necessary contact the supplier of the equipment.
- If no items are required to purchase for repairing the equipment, the equipment is repaired immediately.
- If items are required then send a proposal to the purchase incharge through proper channel (concerned HOD).
- After the items are purchased the equipment will be repaired by the person.
- The remuneration bill (cost of Maintenance) will be sent to the accounts department through proper channel.



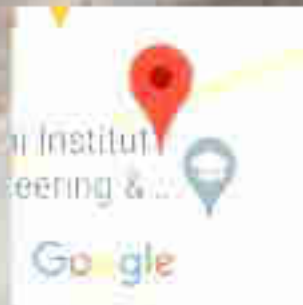
Maintenance of power house:

Department of electrical engineering deals with power supply and maintenance. Following SOP is followed for uninterrupted power supply in college premises. □ Checking diesel in storage tank daily and Replenishing stock of diesel.

- Checking distilled water level in radiator daily, and if any shortage is found, it is refilled.
- Checking lubricant oil and specific gravity of distilled water of batteries daily.
- Cleaning the Radiator fan belt, generators daily.
- Maintaining load balance in three phases of generators, painting plinths and machines for every one year.
- Registering the number of working hours of each generator. □ Checking a resistance and watering the earth pits weekly.



IPG Maji Camera



Visakhapatnam, Andhra Pradesh, India
Avanathi Institute of engineering and
technology,SH 159, Andhra Pradesh 531113,
India
Lat 17.623039° Long 82.745737°

COMPUTER SIMULATION LAB:





Visakhapatnam, Andhra Pradesh, India
Avanti Institute of engineering and
technology JPCX+V63, Visakhapatnam, Andhra Pradesh
531113, India
Lat 17.622714° Long 82.745882°



Visakhapatnam, Andhra Pradesh, India
Avanti Institute of engineering and
technology JPCX+V63, Visakhapatnam, Andhra Pradesh
531113, India
Lat 17.622714° Long 82.745882°



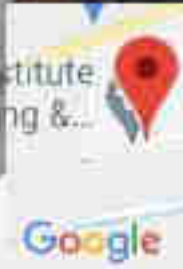


.Laboratory maintenance:

Regular Upkeep and maintenance of equipment as well as repair of equipment is important for proper functioning of any engineering laboratory. As soon as the complaint is received with details, (including Guarantee Period etc.) following procedure is followed.

If the equipment/machinery is to be serviced during the warrantee period, the supplier of the equipment/machinery will be intimated about the repair and it will be serviced either in- house or in the supplier premises based on the nature of defect. After warrantee period if the equipment/machinery demands service, the technical staff attached to the respective laboratories service the equipment/machinery to the extent possible. If repair cannot be done by technicians of institution, then it is repaired by the persons outside the organization. If no items are required to purchase for repairing the equipment, the equipment is repaired immediately. If items are required then a proposal is sent to the purchase incharge through proper channel (concerned HOD). After the items are purchased the equipment will be repaired by the respective person. The remuneration bill (cost of Maintenance) will be sent to the accounts department through proper channel.





Rachapalle, Narsipatnam, Visakhapatnam, Andhra Pradesh, India
Avanathi Institute of engineering and
technology, Rachapalle, Narsipatnam,
Visakhapatnam, Andhra Pradesh 531113, India
Lat 17.622177° Long 82.746743°

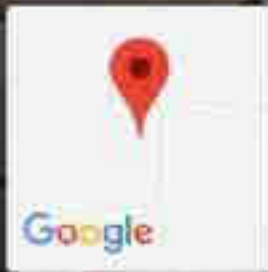


Rachapalle, Narsipatnam, Visakhapatnam, Andhra Pradesh, India
Avanathi Institute of engineering and
technology, Rachapalle, Narsipatnam,
Visakhapatnam, Andhra Pradesh 531113, India
Lat 17.622177° Long 82.746743°



Kothapalem, Andhra Pradesh, India
Unnamed Road, Kothapalem, Andhra Pradesh
531113, India
Lat 17.631821° Long 82.748279°





Kothapallem, Andhra Pradesh, India
avanthi institute of engineering and technology Unnamed
Road, Kothapallem, Andhra Pradesh 531113, India
Lat 17.631821° Long 82.748279°





Kothapallem, Andhra Pradesh, India
avanthi institute of engineering and technology Unnamed
Road, Kothapallem, Andhra Pradesh 531113, India
Lat 17.631821° Long 82.748279°

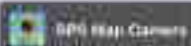


**ELECTRICAL
WORK SHOP & WIRING
PRACTICE LABORATORY**

**ELECTRICAL
WIRING & MAINTENANCE LAB**

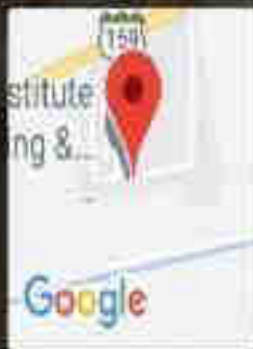


Visakhapatnam, Andhra Pradesh, India
Avanthi Institute of engineering and
technology, SH 159, Andhra Pradesh 531113,
India
Lat 17.623039° Long 82.745737°





GPS Map Camera



Visakhapatnam, Andhra Pradesh, India

Avanathi Institute of engineering and technology, JPCX+V63,

Visakhapatnam, Andhra Pradesh 531113, India

Lat 17.622151° Long 82.746616°



IPFC Map Camera



Visakhapatnam, Andhra Pradesh, India
Avanthy Institute of engineering and
technology, SH 159, Andhra Pradesh 531113,
India
Lat 17.623039° Long 82.745737°



IPG Web Camera



Visakhapatnam, Andhra Pradesh, India
Avanthi Institute of engineering and
technology, JPCX+V63, Visakhapatnam, Andhra
Pradesh 531113, India
Lat 17.622117° Long 82.746492°



NPG Mail Camera



Visakhapatnam, Andhra Pradesh, India
Avanthi Institute of engineering and
technology, JPCX+V63, Visakhapatnam, Andhra
Pradesh 531113, India
Lat 17.622139° Long 82.746492°

4.4.2.6.Sports:

The sports committee conducts timely meetings for the purpose of discussing about budget proposal, conduct of Intramural and Inter collegiate tournaments for each academic year. The order is placed with prior approval of the purchase committee.

The sports related materials are issued to the students by maintaining an issue/return register which reflects the utility and demand of the items along with the students interests. Subsequently it facilitates the proposals to be made for the next academic years. Students who are selected for the college teams of various events are provided with uniform to participate in the same. Equipment related to various physical activities and sports are updated on a regular basis. The up keeping of the sports items in an efficient way is done through regular monitoring using required work force. This includes all the sports facilities like Gym, Cricket ground, Tennis, Volleyball, Basketball courts etc



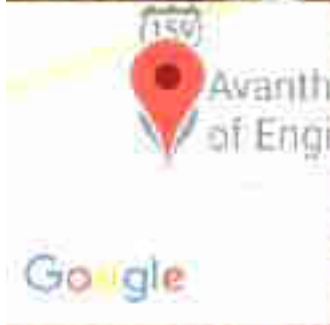


Visakhapatnam, Andhra Pradesh, India
Avanthi Institute of Engineering and Technology, Rachapalle,
Narsipatnam, Visakhapatnam, Andhra Pradesh 531113, India
Lat 17.622221° Long 82.748505°
Note : Captured by GPS Map Camera

Google

GPS Map Camera

-8.1 m



Visakhapatnam, Andhra Pradesh, India

Avanthy Institute of Engineering and Technology, Rachapalle,
Narsipatnam, Visakhapatnam, Andhra Pradesh 531113, India

Lat 17.622221° Long 82.746505°

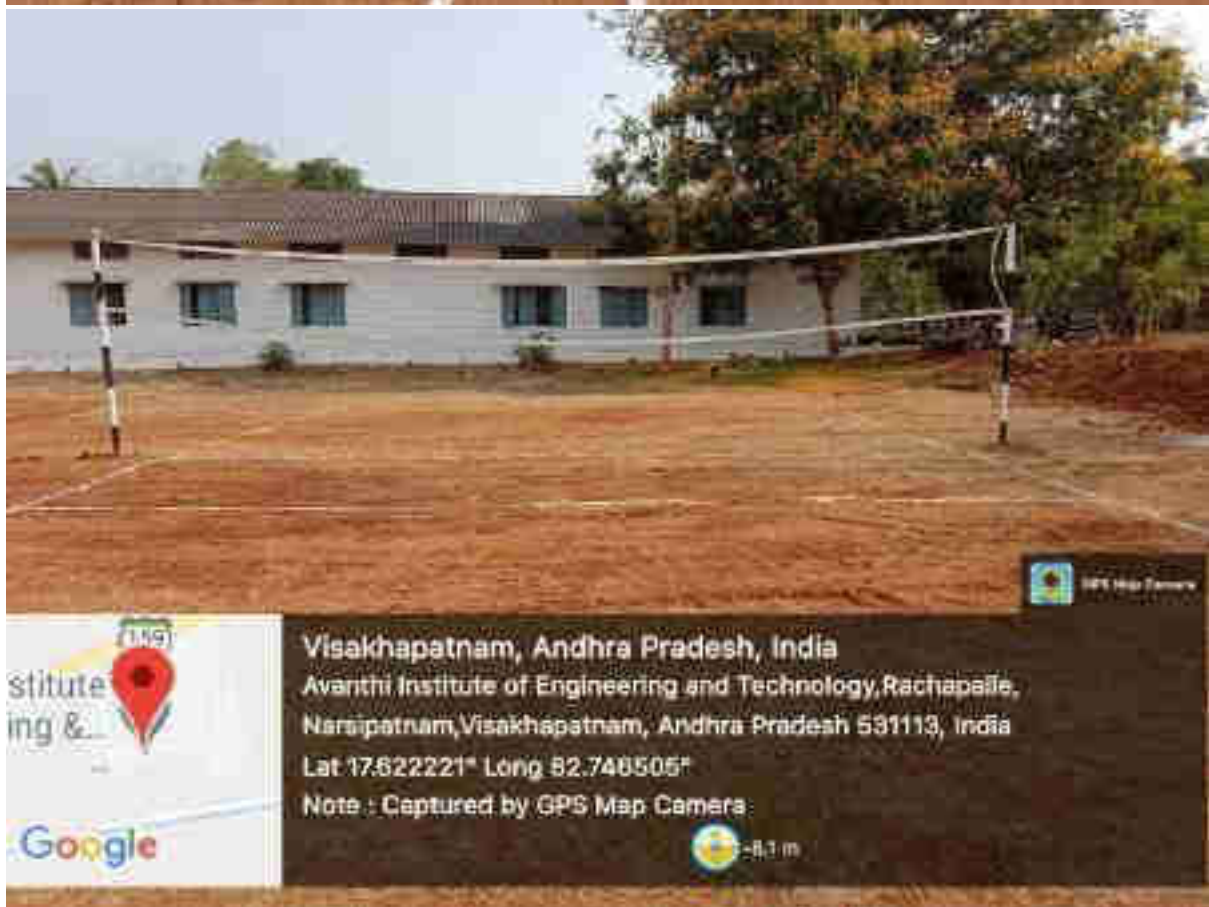
Note : Captured by GPS Map Camera



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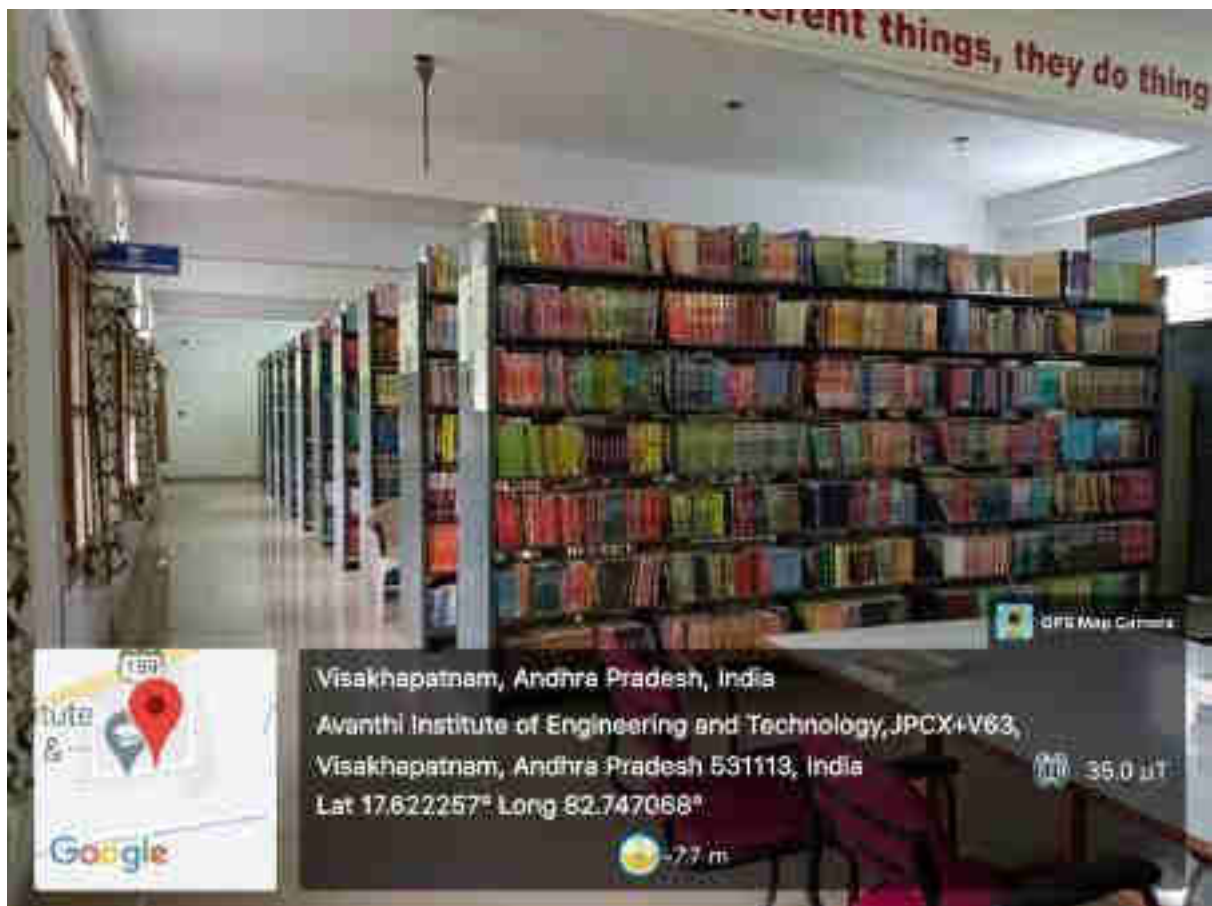




4.4.2.5.CENTRAL LIBRARY

PROCUREMENT AND STOCKING OF BOOKS:

- The order list shall be prepared on the basis of suggestions of the faculty
- The list shall be forwarded to the principal for approval who makes any necessary changes, approves it and forwards the same to Library for procurement.
- The books are received by librarian from the supplier. An inspection activity will be carried out by librarian to check quantity, Title, Author, etc, as per the invoice.
- The books received by the librarian are entered in the Accession Register (AR).
- After the completion of Accession, due date slip, numbering shall be pasted on internal Title Page of the Book.
- One copy of each title is kept in REFERENCE SECTION duly stamped as REFERENCE copy.





Visakhapatnam, Andhra Pradesh, India

Avanthy Institute of Engineering and Technology, JPCX-V63,

Visakhapatnam, Andhra Pradesh 531113, India

Lat 17.622257° Long 82.747068°

30.0 uT

-7.7 m

TRANSPORT MANAGEMENT:

The college has a fleet of buses which is provided to students and staff. Buses are regularly cleaned. Vehicles are periodically greased for smooth running.

College has garage with experienced service men in premises for all minor servicing.





AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
TAMARAM(V), MAKAVARAPALEM (M)
VISAKHAPATNAM-511113

EQUIPMENT DETAILS

Equipment: generator monthly visual inspection

capacity: 82.5 KVA

Make & model: ASHOK LEYLAND & LP83DA3

DATE: 27 MARCH 2020

Task description	D	W	2W	M	3M	6M	A	Note.
General Check for leaks, foreign objects, loose fittings & guards.		✓						
Radiator Visual inspection for leaks, damage or debris.	✓							
Coolant Check level/Top Up (if necessary).		✓						
Coolant Check condition (rust, oil, contaminants) Check Coolant Conditioner Concentration/Add i necessary.	✓						✓	
Coolant Check filters cap gasket and sealing surfaces.					✓	✓		
Coolant Check level/Top Up (if necessary).	✓							
Hoses & Connections inspect for deterioration. Check tightness of connections.	✓							
Fan Belts Check condition / inspect for wear or deterioration.		✓						
Fan Belts Check Tension / adjust if necessary.				✓				
Water Pump Visual & operational inspection for leaks or unusual noises.	✓		✓					

S. Raju nair

Supervisor

[Signature]

Administration Officer
Avanthi Institute of Engg & Technology,
Tamararam, Makavarapalem M:
Visakhapatnam District. Pin-511113



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

TAMARAM(V), MAKAVARAPALEM(M)

VISAKHAPATNAM-531113

Equipment: generator monthly visual inspection

capacity: 82.5 KVA
DATE: 27 JAN 2020

Make & model: ASMK LEVLAND & LP83DA3

Task description	D	W	2W	M	3M	6M	A	Note.
General Check for leaks, foreign objects, loose fittings & guards.		✓						
Radiator Visual Inspection for leaks, damage or debris.	✓							
Coolant Check level/Top Up (if necessary).		✓						
Coolant Check condition (rust, oil, contaminants) Check Coolant Conditioner Concentration/Add i necessary.	✓							
Coolant Check filters cap gasket and sealing surfaces.			✓	✓				
Coolant Check level/Top Up (if necessary).			✓					
Hoses & Connections Inspect for deterioration. Check tightness of connections.	✓							
Fan Belts Check condition / Inspect for wear or deterioration.				✓				
Fan Belts Check Tension / adjust if necessary.			✓					
Water Pump Visual & operational inspection for leaks or unusual noises.	✓	✓						

D. Papunaid

Supervisor

[Signature]
Administration Officer
Avanthi Institute of Engineering & Technology
Tamaram

Tamaram, Makavarapalem, visakhapatnam
district-531113



AC Maintenance check list

date: 27/10/2021

AIR FILTER

- Change air filter every 1-2 months (air filter mesh cleaning)

Evaporator & Condenser coils

- Inspect coils for damage and leaks
- Clean coils (if needed)
- Repair damaged fins (if needed)

Drain line & drain pipe

- Inspect drain line and drain pan for build-up
- Remove clogs for proper drainage

Blower & Condenser Fans

- Check that fan wheel spins freely
- Inspect and replace fan belt (if needed)
- Oil fan motor (if needed)

Electrical & Controls

- Inspect for loose wires and rusty terminals
- Clean/dust out electrical enclosure area

Thermostat

- Test thermostat fan speeds (if applicable)
- Test & calibrate thermostat temperature
- Adjust thermostat schedule (if applicable)

Ductwork

- Clean dust from air registers/vents
- Inspect ductwork for mold & mildew
- Inspect ductwork for air leaks

J. Bapu naidu

Supervisor

Administration Officer

Avanthi Institute of Engineering & Technology
Tamaram, Makavarapalem Md
Visakhapatnam District, Pin-531113



AC Maintenance check list

date: 28-06-2021

AIR FILTER

- Change air filter every 1-2 months

Evaporator & Condenser coils

- Inspect coils for damage and leaks
- Clean coils (if needed)
- Repair damaged fins (if needed)

Drain line & drain pipe

- Inspect drain line and drain pan for build-up
- Remove clogs for proper drainage

Blower & Condenser Fans

- Check that fan wheel spins freely
- Inspect and replace fan belt (if needed)
- Oil fan motor (if needed)

Electrical & Controls

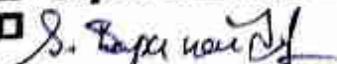
- Inspect for loose wires and rusty terminals
- Clean/dust out electrical enclosure area

Thermostat

- Test thermostat fan speeds (if applicable)
- Test & calibrate thermostat temperature
- Adjust thermostat schedule (if applicable)

Ductwork

- Clean dust from air registers/vents
- Inspect ductwork for mold & mildew
- Inspect ductwork for air leaks

S. Raju 

Supervisor



Administration Officer

Avanthi Institute of Engineering & Technology
Tamaram, Makavarapalem Md
Visakhapatnam District, Pin-531113



date: 26 April 2021.

AC Maintenance check list

AIR FILTER

- Change air filter every 1-2 months (filter's cleaning)

Evaporator & Condenser coils

- Inspect coils for damage and leaks
- Clean coils (if needed)
- Repair damaged fins (if needed)

Drain line & drain pipe

- Inspect drain line and drain pan for build-up
- Remove clogs for proper drainage

Blower & Condenser Fans

- Check that fan wheel spins freely
- Inspect and replace fan belt (if needed)
- Oil fan motor (if needed)

Electrical & Controls

- Inspect for loose wires and rusty terminals
- Clean/dust out electrical enclosure area



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
TAMARAM(V), MAKAVARAPALEM (AO)
VISAKHAPATNAM-531113

RO PLANT CHECKLIST

Date: 27-06-2021 - 2 NOV - 2021

Sr.no	Parameters	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Remark
1	Hardness mg/l	52	51	50	54	53	52	
2	TDS (PPM)	150	200	180	182	160	171	
3	PH	7.2	7.4	7.4	7.2	7.8	7.7	
4	Conductivity us/cm	189	182	184	185	186	183	
5	ORP mv	410	430	421	427	428	432	
6	Inlet pressure PSI	14.5	15	15	15	14.5	14.9	
7	Filter pressure PSI	2.	1.8	1.7	2.0	2.1	2.0	
Supervisor signature								

Supervisor

Administration Officer

Avanathi institute

Of Engineering And Technology

Tamaram, Makavarapalem-531113



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
TAMARAM(V), MAKAVARAPALEM (M)
VISAKHAPATNAM-531113

MOS LAB

List of Equipment's.

2020-2021

Name of the equipment :Irod/ Charpy testing Machine

Equipment ID : AIET/MECH/MOS/ICTM-2

Date	Maintenance done	Person done Name & and design	Lab in charge sign	Remarks
12 JAN 2020	Checking the scales working condition for Izod	k.N .Rao		
22 FEB 2020	Checking the scales working condition for Izod	k.N .Rao		
18 APR 2020	Checking the scales working condition for Izod	k.N .Rao		
8 AUG 2020	Checking the scales working condition for Izod	k.N .Rao		
28 SEP 2020	Checking the scales working condition for Izod	k.N .Rao		
10 OCT 2020	Checking the scales working condition for Izod	k.N .Rao		
30 NOV 2020	Checking the scales working condition for Izod	k.N .Rao		
26 DEC 2020	Checking the scales working condition for Izod	k.N .Rao		

LAB INCHARGE :

Head of the Department
HOD SIGNATURE: Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Visakhapatnam - 531113.



AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY
TAMARAM(V), MAKAVARAPALEM (M)
VISAKHAPATNAM-531113

FM AND HM LAB

List of Equipment's.

2020-2021

Name of the equipment :CENTRIFUGAL PUMP

Equipment ID :AIET/MECH/FM &HM/CEN PUMP

Date	Maintenance done	Person done Name & and design	Lab In charge sign	Remarks
02/JAN 2020	Checking the suction valves and discharge valves	K.N.Rao		
20 FEB 2020	Checking the press re gauges in suction side and delivery side.	K.N.Rao		
12 MAR 2020	Checking the impeller casing condition.	K.N.Rao		
06APR 2020	Checking the suction valves and discharge valves	K.N.Rao		
30 JUN 2020	Check the impeller glands condition .	K.N.Rao		
20 JUL 2020	Bearing conditions are monitored.	K.N.Rao		
21 OCT 2020	Check the impeller glands condition .	K.N.Rao		
18 NOV 2020	Bearing conditions are monitored.	K.N.Rao		
21 DEC 2020	Checking the suction valves and discharge valves	K.N.Rao		

LAB INCHARGE

Head of the Department
Department of Mechanical Engg.
Avanthi Institute of Engg. & Tech.,
Makavarapalem, Visakhapatnam-531113.
HOD SIGNATURE