



The Berar General Education Society's
**Shri Radhakisan Laxminarayan Toshniwal
College of Science, Akola (M.S.)
(Shri R.L.T. College of Science)**



Recognized by Government of Maharashtra
Affiliated to Sant Gadge Baba Amravati University, Amravati
Re-accredited 'A' by NAAC, Bangalore With CGPA-3.12



**4th Cycle of NAAC
ASSESSMENT AND ACCREDITATION**

**CRITERION IV
Infrastructure and Learning Resources
Key Indicator - 4.1
Physical Facilities**

4.1.1 QIM

Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga center etc. in the institution

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• Botanical Garden, College Canteen, Drinking Water, E-Bike Charging, CCTV, Vermicomposting Plant, Power Generator 10 KVA, Vermicomposting Plant, Biogas Plant, Bore Well, Solar Water Heater (Hostel), Solar Rooftop	



The Berar General Education Society's Akola
SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL COLLEGE OF SCIENCE

Civil Lines, Akola, 444001 (Maharashtra)

Affiliated to Sant Gadge Baba Amravati University, Amravati

Re-accredited by NAAC with "A" Grade with CGPA 3.12

AISHE CODE: C-43124

E-mail: rltcollegeakola@gmail.com

Website: www.rltsc.edu.in

COLLEGE CODE: 210

Principal: Dr. Vijay D. Nanoty

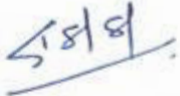
phone: 0724-2415480, 9822724504


Ref. No: RLT/IQAC/C-IV/4.1.1

Date: 17/10/2022

DECLARATION

This is to declare that, the information, data, true copies of the supporting documents etc. furnished in this file is checked and verified by IQAC, Shri R. L. T. College of Science, Akola and found to be correct.


Dr. R. L. Rahatgaonkar
IQAC Co-ordinator
Shri R.L.T. College of Science,
Akola


Principal
Shri R.L.T College of Science
Civil Lines, Akola (M.S.)



Physical Facilities

The college management provides the best possible infrastructure to support teaching, learning in the campus. The college has a land area of 7243.87sq.m. and built up area of 6503.21sq.m. There is a women's hostel (1072.98 Sq. m.) accommodating 50 girl students. There is more than adequate physical infrastructure in the form of laboratories, classrooms, and library and computer labs to cater to the academic needs of around 2000 students of science stream of 12 UG, 8PG, 5COPSand 6Ph.D. programs.

Classrooms:

There are 25 well ventilated, spacious classrooms equipped with green/white boards for conducting theory classes. The size of classrooms ranging from 25.74 Sq.m to 119.92 Sq.m. to house 1812 student at a time. The classrooms are equipped with 1546 benches and chairs, sufficient number of fans and tube lights with necessary electrical fittings for ICT enabled teaching. There are 5 digital/smart classrooms equipped with ICT enabled facilities and Wi-Fi. They are used for organizing lectures, special lectures, guest lectures and meetings.

Laboratories:

There are 28 state of art laboratories which include 6Zoology (1 Sericulture), 4Chemistry, 4 Physics, 3 Microbiology, 3 Botany, 2 electronics, 2Computer Science, 2 Biochemistry, aIT, a Bioinformatics with advance equipment's and modern facilities.

On March 1st 2022 P.G. Chemistry Laboratory (renovated) inaugurated at the hands of Hon'ble Shri Vasantaji Khandelwal M.L.C. and Hon'ble Dr. Vilasji Bhale Incharge V.C. Of S.G.B. Amravati University, Amravati.

Recently on October 10th 2022 four new P.G. Laboratories (Zoology, Botany, Biochemistry, Computer Science) inaugurated at the hands of Hon'ble Dr. Vedprakashji Mishra, Pro-Chancellor, Datta Mehge Institute of Medical Sciences, Nagpur in gracious presence of Hon'ble Dr. Tusharji Deshmukh, Registrar S. G. B. Amravati University, Amravati and all the Hon'ble executive members of The B.G.E Education society, Akola.

Mathematics deptt, Microbiology, Chemistry, Zoology, Botany labs are recognized for Ph.D. Programs. Our Physical Education/sport department is also recognized for Ph.D. program.

The research laboratories of PG microbiology and chemistry are unique with sophisticated instrumentation and computational facilities.

Every laboratory is equipped with permanently installed LCD projector, screen and ICT facilities including Wi-Fi. One of the digital classrooms is used as video recording room for improving the quality of e-content development.

Auditorium:

The college has a state of art multipurpose Auditorium hall with big LCD projector and screen for organizing seminars, conferences, workshops, special lectures, talks and meetings with a seating capacity of 360 chairs. It is also used for organizing cultural and other programs.

Computer Facilities:

The college has 03 computer labs for UG computer science, IT and Bio-Informatics students .There is separate lab for PG computer science students. In all there are 108 computers/desktops and 15 laptops in use. The lab timetable is so prepared as to ensure optimum uses of the computer lab leading to student computer ratio 1:1 or 2:1.

The college has a central library of 268.Sq.m.with 35145 books. In addition some of the departments have a separate departmental library to provide subject related books. All the classrooms and laboratories are spacious as per the specification of statutory bodies.

Cultural activities, Gymnasium, Yoga Centre:

Although our college is single faculty Science College, it has a history of glorious achievements of students in sport at university, state and national levels. The college is committed to create a balanced atmosphere of academic, cultural and sport activities for overall personality development of the students. Our college has adequate sport and infrastructure to enhance student sport skills and talent. The Physical director of the college trains the students regularly in various games/sports. Various sport competitions such as interdepartmental, intercollegiate, inter university etc. help in developing team spirit in students. Students are awarded with medals, trophies, certificate’s and cash prizes to motivate and encourage them. Sports students are given privileges to enable them to attend training sessions as well as to participate in tournaments. Every year sport week is observed and various sport events are organized.

The college has facilities for indoor and outdoor games.

The college has infrastructural facilities for indoor games like table tennis, chess, badminton and carom etc.

Indoor games:

Sr.no	Indoor game	Size
1	Badminton	310.18Sq.m
2	Table tennis	
3	Chess	
4	Taekwondo	69.67 Sq.m
5	Wrestling, Judo	69.67Sq.m
6	Gymnasium	

Outdoor games:

Sr.no	Outdoor game	Size
1	Boxing ring	67.72 Sq.m
2	Physical fitness training	100 Sq.m

For other games playgrounds of our parent society run colleges and sport agencies are utilized

by permission.

Gymnasium:

A well-furnished gymnasium hall is available for students, teaching and non teaching staff members.

The gymnasium is equipped with 17 stations Leg Curl (Weight plates in MS) + Leg Extension machine (80Kg), Seated Chest Press Machine(80Kg), Arm Curl Machine (40Kg), High Lat pulley with low Lat Weight 70 Kg, Peck Dec (butterfly) machine (80Kg), Hack squat(80Kg), Abdominal board, Multi Hips, Jogger manual, Standing Twister Steel, Flat Bench, Decline Bench, Incline Bench, Curling Bar24-26MM, Training Bar26-28MM, Dumbbells, and Weight Plates. Dumbbells Rack = 0 1, Wrestling mats = 32, Wrestling Dummies = 03.

Facilities for yoga:

Multipurpose auditorium hall is used for organizing Internationalyogaday, Yogaprogram, healthcamps and group exercises. Every year college organizes special yoga training session for teaching staff, on teaching staff and students on yoga day.

Facilities for cultural Activities:

The college has magnificent state of art Auditorium to provide excellent facilities for organizing cultural programs, functions and celebrations. The hall has seating capacity of 360 chairs. The auditorium is unique in this region. It has rich infrastructure, a pleasant atmosphere and perfect audio-visual systems. It has an area of 310.18 Sq.m. with permanent stage, fans, lights arrangements, remote control operated main curtain. It is provided with excellent **acoustics** treatment. It is centralized air cooled and with facilities like green rooms, display screen, modern LCD Projector, Smoke detector, alarm system, turbo ventilators, public address system, sound system, and musical instruments and special room for makeup & rehearsals. Power generator facility is also available in case of power failure.

The students interested in cultural events and fine art is encouraged to take part in intra and inter collegiate competitions, youth festival etc. The college has separate committee for cultural activities. The chairman and members of committee looks after the cultural activities in the college. College functions such as principals address day, independence day, teachers' day, Republic Day, Blood donation camp & prize distribution ceremony, Alumni meet, Staff retirement program, send-off program for final year students, seminars and conferences, symposia meetings are held in auditorium hall.

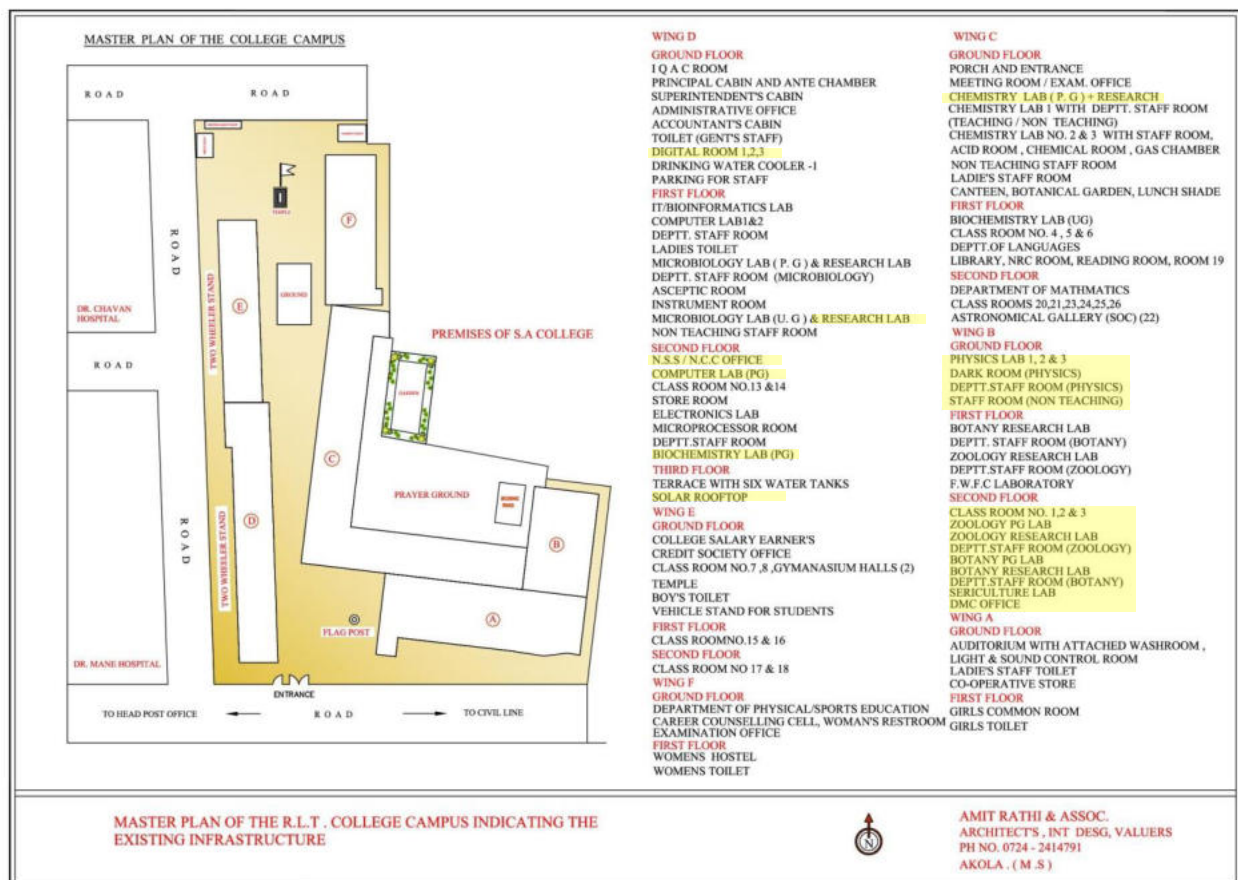
Other Facilities:

- Safe drinking water with 8 water purifiers and coolers in each wing of the college.
- Canteen facility and Lunch shade for 50 students available in campus.
- Botanical Garden with plants of different species (123.24Sq.M) near canteen.
- Sky Observation club/astronomical gallery with telescope.
- Campus protected by CCTV surveillance and 24X7 security guards.
- 10KVA power generator, 7.5KVA UPS and recent 30 KW, recent 30KW Solar Rooftop grid tie system unit for providing electric power.
- 31 water storage overhead tanks (capacity=29500 liters) and one 10000 Liters underground

water storage tank with 2 municipal corporation connections and a bore well.

- Examination office with PC, Printer, Xerox machine.
- Salary earners society for providing loan facility to teaching and non teaching staff.
- Co-operative store.
- Bank facility (C.B.I.R.L.T.College Branch at walking distance) available.
- Separate N.S.S., N.C.C.Office.
- Separate Disaster Management Club.
- Inverter with battery in each department.
- 15000 Sq.Ft Paver Vehicle parking facility for students and staff in the campus.
- Well maintained campus .(College received 10 cleanliness award)
- Ladies staff common room, Girls common room, ladies toilet, gent’s toilet, separate boy’s toilet, rest room.

MASTER PLAN OF THE COLLEGE CAMPUS



Highlighted parts shows Augmented Infrastructure during 4th Cycle of NAAC


Infrastructure Dimensions

- (अ) इमारत : (स्वतःची) संबंधित स्थानिक स्वराज्य संस्था किंवा इतर प्राधिकरणाचे प्रमाणित उतारे (सोबतच्या प्रपत्र-अ मध्ये सर्वसाधारण वर्गखोली व इतर क्षेत्रफळाचा तपशिल जोडला आहे)
9. शैक्षणिक व प्रशासकीय इमारत

1.1	Principal cabin	(G.F.) 4.07m x 4.55 m	=	18.51 sq.m.
1.1	Waiting	(G.F.) 2.72m x 4.55 m	=	12.37 sq.m.
1.2	Office	(G.F.) 3.56 x 2.77	=	9.86 Sq.m.
	Superintendent	(G.F.) 6.87 x 6.08	=	41.76 Sq.m.
	Administrative	(G.F.) 6.87 x 2.97	=	20.40 Sq.m.
1.3	Computer Lab-2	(G.F.) 6.87 x 8.92	=	61.28 Sq.m.
	Computer Lab-2	(F.F.) 6.87 x 4.55	=	31.25 Sq.m.
	Elect. Lab/Computer lab	(S.F.) 6.87 x 12.09	=	83.05 Sq.m.
	I. T. Bio in formatic lab	(F.F.) 8.74 x 4.67	=	40.81 Sq.m.
1.4	Chemistry Chemistry	(G.F.) 12.95 x 6.56	=	84.95 Sq.m.
	Chemistry Lab MSC-1	(G.F.) 5.25 x 2.23	=	11.70 Sq.m.
	Chemistry Lab-1	(G.F.) 6.55 x 18.84	=	106.56 Sq.m.
	Chemistry Lab-2	(G.F.) 6.55 x 16.27	=	106.56 Sq.m.
	Chemistry Lab-3	(G.F.) 6.55 x 15.87	=	103.94 Sq.m.
	Bio chemistry lab	(F.F.) 6.55 x 11.81	=	87.88 Sq.m.
1.5	Physics Physics Lab No.1	(G.F.) 8.26 x 13.59	=	112.25 Sqm.
	Physics Lab No.2	(G.F.) 7.05 x 17.01	=	119.92 Sq.m.
	Physics Lab No.3	(G.F.) 6.36 x 10.33	=	65.69 Sq.m.
	Dark room	(G.F.) 8.22 x 3.22	=	25.64 Sq.m.
1.6	Botany lab	(F.F.) 8.26 x 13.59	=	112.25 Sq.m.
	Zoology Lab	(F.F.) 7.05 x 17.01	=	119.92 Sq.m.
	Fishery Lab	(F.F.) 6.30 x 14.38	=	90.59 Sq.m.
	Micro biology Lab	(F.F.) 8.72 x 12.11	=	105.59 Sq.m.
1.7	Library	(G.F.) 6.87 x 27.09	=	196.10 Sq.m.
	Reading Hall	(F.F.) 8.29 x 6.10	=	50.56 Sq.m.
1.8	Ladies Staff	(G.F.) 3.96 x 2.23	=	8.83 Sq.m.
	Girls Common Room	(F.F.) 3.99 x 12.99	=	51.83 Sq.m.
1.9	Record Room	(G.F.) 12.24 x 2.20	=	26.92 Sq.m.
1.10	Nac Room	(G.F.) 8.71 x 4.44	=	38.67 Sq.m.

Contd...2..

1.11	Staff Room's			
	Staff room	(G.F.) 6.36 x 3.96	=	25.18 Sq.m.
	Non teaching staff	(G.F.) 1.97 x 4.12	=	8.11 Sq.m.
	Staff	(G.F.) 4.01 x 2.23	=	8.94 Sq.m.
	Staff/Balance	(G.F.) 9.03 x 4.57	=	41.26 Sq.m.
	Botany Staff room	(F.F.) 7.09 x 3.12	=	22.12 Sq.m.
	Common staff room	(F.F.) 3.09 x 29.67	=	91.68 Sq.m.
	Math staff room	(F.F.) 6.67 x 2.82	=	19.37 Sq.m.
1.12	Elect. Staff	(S.F.) 3.54 x 2.82	=	9.98 Sq.m.
	Math staff room	(S.F.) 4.60 x 6.57	=	30.22 Sq.m.
1.12	Hall			
	Auditorium Hall	(G.F.) 22.93 x 10.61	=	243.28 Sq.m.
1.13	Stage	(G.F.)	=	66.90 Sq.m.
	Seminar Room	(S.F.) 8.29 x 6.10	=	50.56 Sq.m.
1.14	Toilet Block			
	Toilet/ W.C.	(G.F.) 3.37 x 7.11	=	23.96 Sq.m.
	Toilet	(F.F.) 3.37 x 7.16	=	24.12 Sq.m.
1.15	Toilet	(S.F.) 2.91 x 8.13	=	23.65 Sq.m.
	Ver	(G.F.) 1.57 x 47.66	=	74.82 Sq.m.
	Ver	(G.F.) 6.00 x 2.20	=	13.20 Sq.m.
	Hall Ent. Foyer/S. T.	(G.F.) 3.73 x 17.01	=	63.44 Sq.m.
	Eng. Foyer	(G.F.) 6.42 x 6.50	=	41.73 Sq.m.
	Balcony	(F.F.) 13.20 x 2.23	=	29.73 Sq.m.
	Balcony	(F.F.) 12.73 x 2.18	=	27.75 Sq.m.
	Pass Balcony	(F.F.) 35.64 x 1.57	=	55.95 Sq.m.
	Pass Balcony	(F.F.) 22.64 x 1.98	=	44.82 Sq.m.
	Pass Balcony	(S.F.) 47.66 x 1.80	=	85.78 Sq.m.
1.16	Pass Balcony	(S.F.) 22.64 x 1.98	=	44.82 Sq.m.
	N.C.C. Room & N.S.S. Room	8.74 x 4.67	=	40.81 Sq.m.


 Principal
 Shri R.L.T. College of Science
 Civil Lines, AKOLA (M.S.)

Wings: A

- Auditorium
- Light & Sound Control Room
- Co-operative Store



- Girls Common Room
- Ladies' Staff Toilet

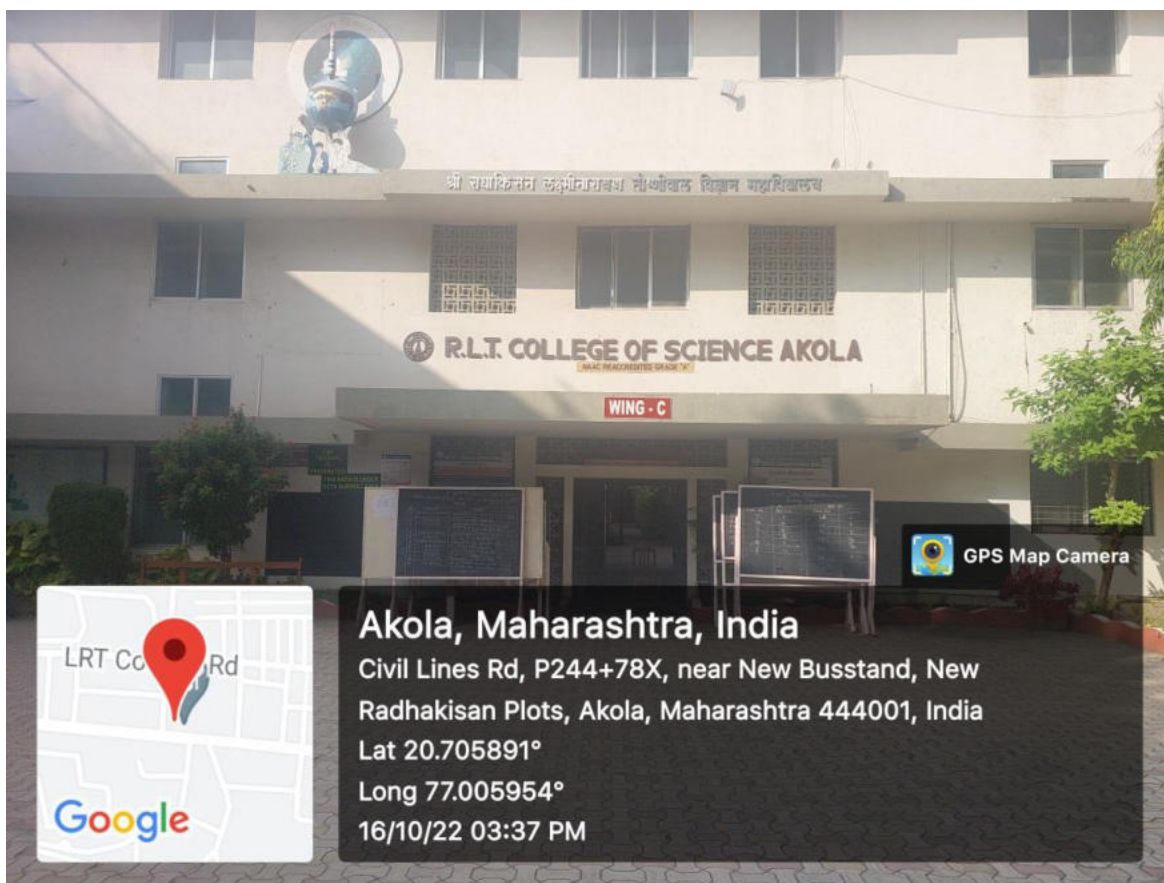
Wings: B

- Department of Physics & Laboratories (UG & PG)
- Department of Botany & Laboratories (UG, PG & Research)
- Department of Zoology & Laboratories (UG, PG & Research)
- Sericulture Laboratory
- Disaster Management Club (DMC)
- FWFC Laboratory
- Room No. 1,2,3



Wings: C

- Department of Chemistry & Laboratories (UG, PG & Research)
- Meeting Room / Examination Office
- Ladies Staff Room
- Department of Bio-Chemistry & Laboratory (UG)
- Department of Languages
- Library, NRC, Reading Room
- Department of Mathematics
- Astronomical Gallery (SOC) (22)
- Room No.s 4,5,6,19,20, 21, 22, 23, 24, 25, 26



Wings: D

- **Principal Cabin And Ante Chamber**
- **IQAC Room**
- **Superintendent's Cabin**
- **Administrative Office**
- **Toilet (Gent's Staff)**
- **Digital Rooms 1,2,3**
- **Parking For Staff**
- **Department of Information Technology & Laboratory (UG)**
- **Department of Bio-Informatics & Laboratory (UG)**
- **Department of Computer Science & Laboratories (UG & PG)**
- **Department of Microbiology & Laboratories (UG, PG & Research)**
- **NSS / NCC**
- **Department of Electronics & Laboratories (UG)**
- **Bio-Chemistry Laboratory (UG)**
- **Room No. 13,14**



Wings: E

- **R.LT College Salary Earner's Credit Society Office**
- **Gymnasium (Health Center), Wrestling Hall**
- **Temple**
- **Room No. 7, 8, 15, 16, 17, 18**
- **Boy's Toilet**
- **Vehicle Stand for Students**



Wings: F

- Department of Physical /Sports Education
- Career Counseling Cell
- Examination Office
- Women's Hostel & Women's Restroom
- Women's Toilet

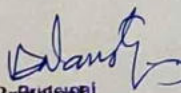


Classrooms

Shri R.L.T.College Of Science, Akola.

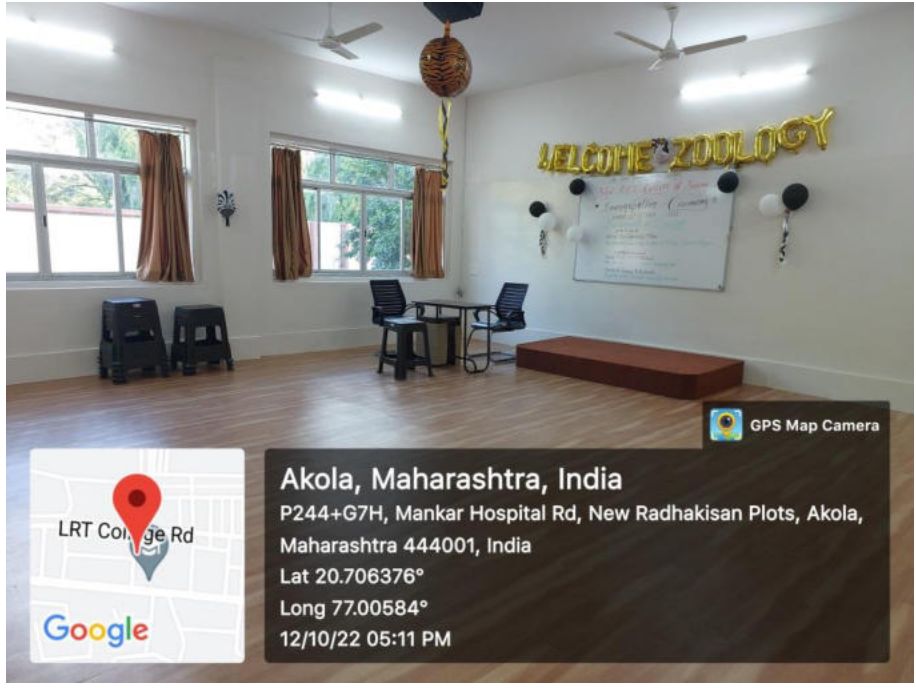
Room Numbers, Size, Area of Room, Seating Capacity And Desk Benches.

Sr.No	Classroom		Size of classroom in Sq.m.		Area in Sq.m	Seating capacity	Number of Desk benches
	Classroom number	Floor	Length	Breadth			
1	1	2 nd	8.45	8.28	69.96	40	40
2	2	2 nd	9.75	7.28	70.98	40	40
3	3	2 nd	8.45	8.28	69.96	40	40
4	4	1 st	6.55	11.2	73.36	50	50
5	5	1 st	13.23	6.57	86.92	80	80
6	6	1 st	12.95	6.56	84.95	80	80
7	7	Ground	7.97	8.57	68.3	60	30(2Seater)
8	8	Ground	7.97	10.73	85.52	120	60(2Seater)
9	13	2 nd	6.87	11.96	82.17	100	50(2Seater)
10	14	2 nd	6.87	11.84	81.34	100	50(2Seater)
11	15	1 st	7.97	8.57	68.3	80	80
12	16	1 st	7.97	10.73	85.52	120	120
13	17	2 nd	7.97	8.57	68.3	80	80
14	18(Smart room)	2 nd	7.97	10.73	85.52	120	120
15	19	1 st	12.8	10.36	132.6	120	120
16	20	2 nd	22.25	10.36	230.5	150	150
17	21	2 nd	6.55	11.81	77.36	80	80
18	22	2 nd	6.6	3.9	25.74	25	25
19	23	2 nd	6.6	7.44	49.1	40	40
20	24	2 nd	8.71	6.69	58.27	50	50
21	25	2 nd	4.57	6.57	30.02	25	25
22	26	2 nd	8.2	9.13	74.87	60	60
23	Digital Class Room 1	Ground	8.92	6.9	61.55	56	28(2Seater)
24	Digital Class Room 2	Ground	8.92	6.9	61.55	60	30(2Seater)
25	Digital Class Room 3	Ground	5.83	6.9	40.23	36	18(2Seater)
	Total		220.9	216.8	1923	1812	1546 (1812 seats)


 Principal
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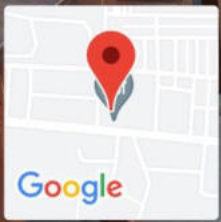
Room No. 01



Room No. 02



Room N. 03



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P244+F83, New Radhakisan Plots, Akola, Maharashtra
444001, India
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Long 77.006033°
23/09/22 04:36 PM

Room No 4



Akola, Maharashtra, India
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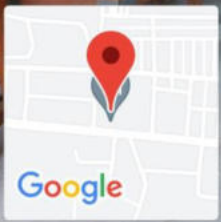
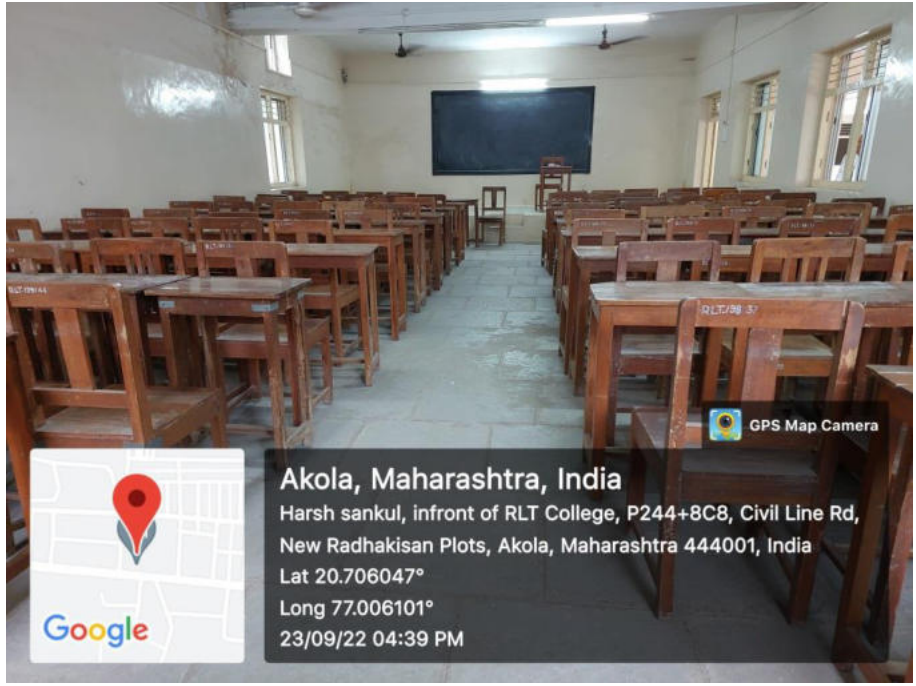


Akola, Maharashtra, India
Harsh sankul, infront of RLT College, P244+8C8, Civil Line Rd,
New Radhakisan Plots, Akola, Maharashtra 444001, India
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Room No 5

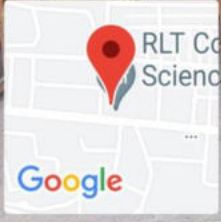


Akola, Maharashtra, India
P244+F83, New Radhakisan Plots, Akola, Maharashtra
444001, India
Lat 20.705964°
Long 77.005978°
20/10/22 01:26 PM



Akola, Maharashtra, India
Harsh sankul, infront of RLT College, P244+8C8, Civil Line Rd,
New Radhakisan Plots, Akola, Maharashtra 444001, India
Lat 20.706047°
Long 77.006101°
23/09/22 04:39 PM

Room No 6



Akola, Maharashtra, India
Harsh sankul, infront of RLT College, P244+8C8, Civil Line Rd,
New Radhakisan Plots, Akola, Maharashtra 444001, India
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Long 77.005984°
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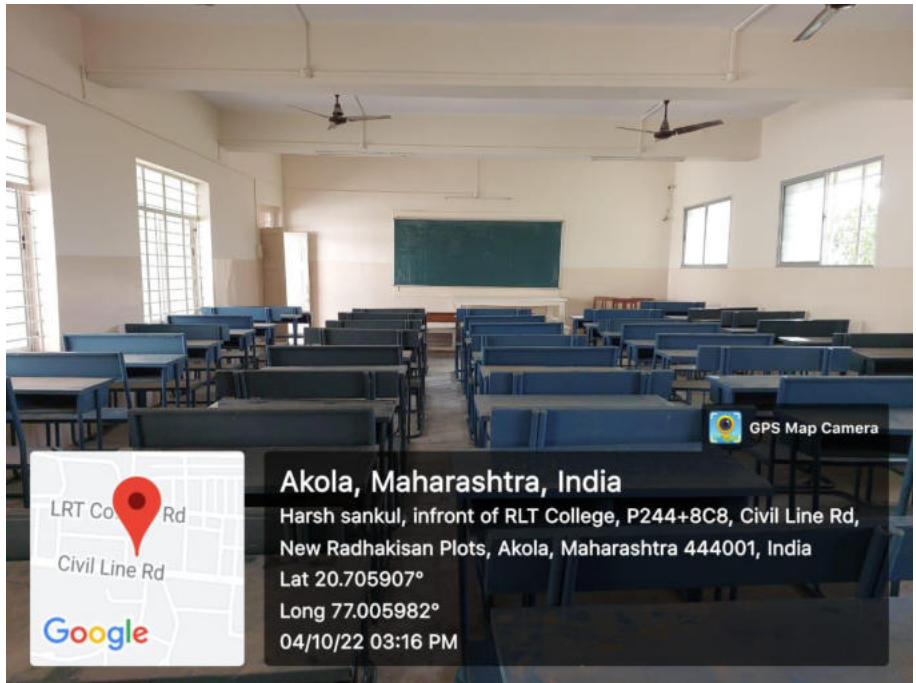
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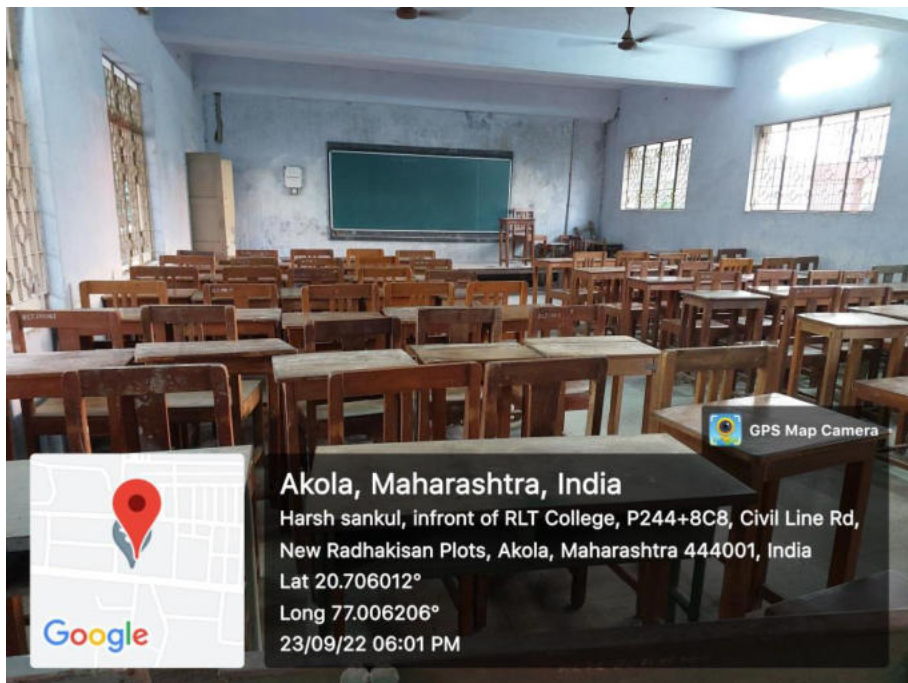
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Room No. 13

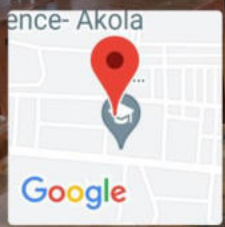




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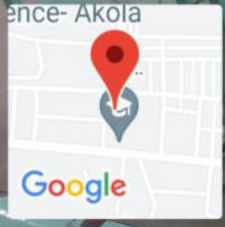
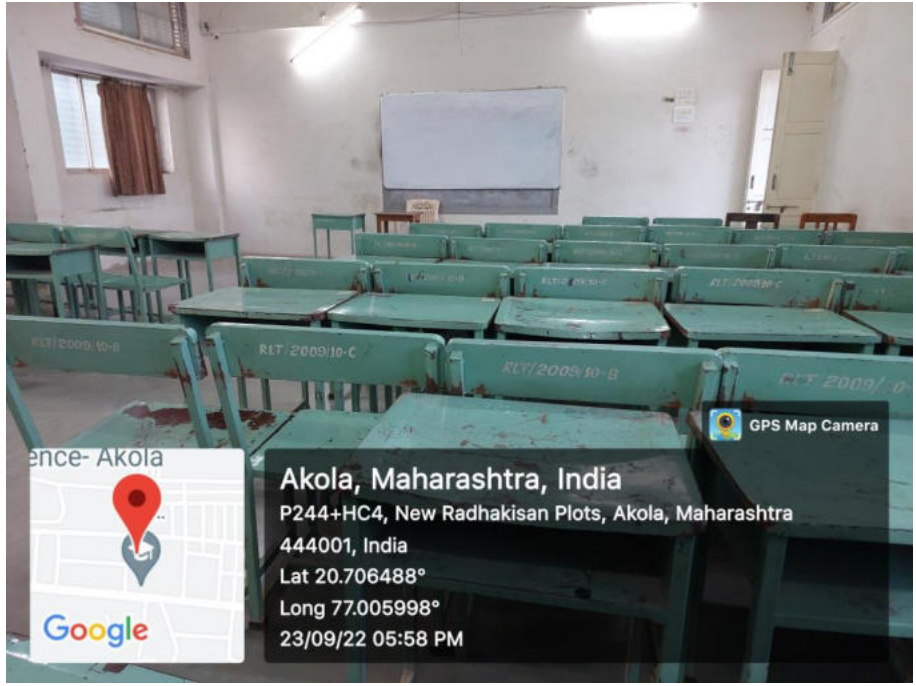


Room No. 15



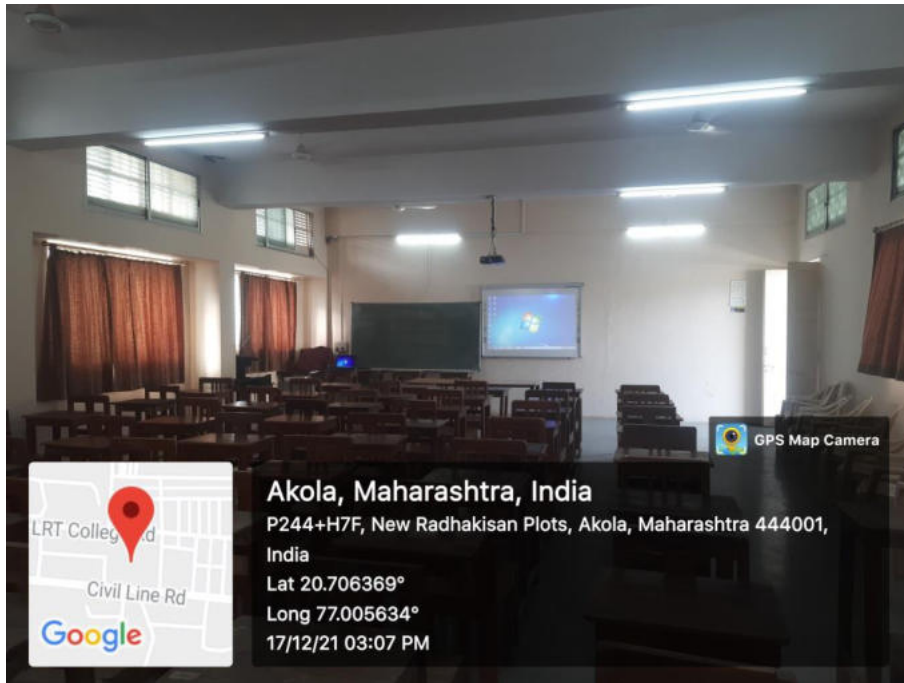
Akola, Maharashtra, India
P244+HC4, New Radhakisan Plots, Akola, Maharashtra
444001, India
Lat 20.70652°
Long 77.005954°
23/09/22 05:55 PM

Room No. 16



Akola, Maharashtra, India
P244+HC4, New Radhakisan Plots, Akola, Maharashtra
444001, India
Lat 20.706488°
Long 77.005998°
23/09/22 05:58 PM

Room No. 17



Room No. 18



Room No. 19



Room No. 20



Room No. 21

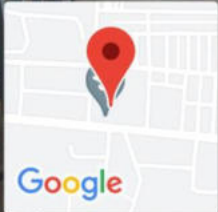




Room No. 22

Astronomical Gallery



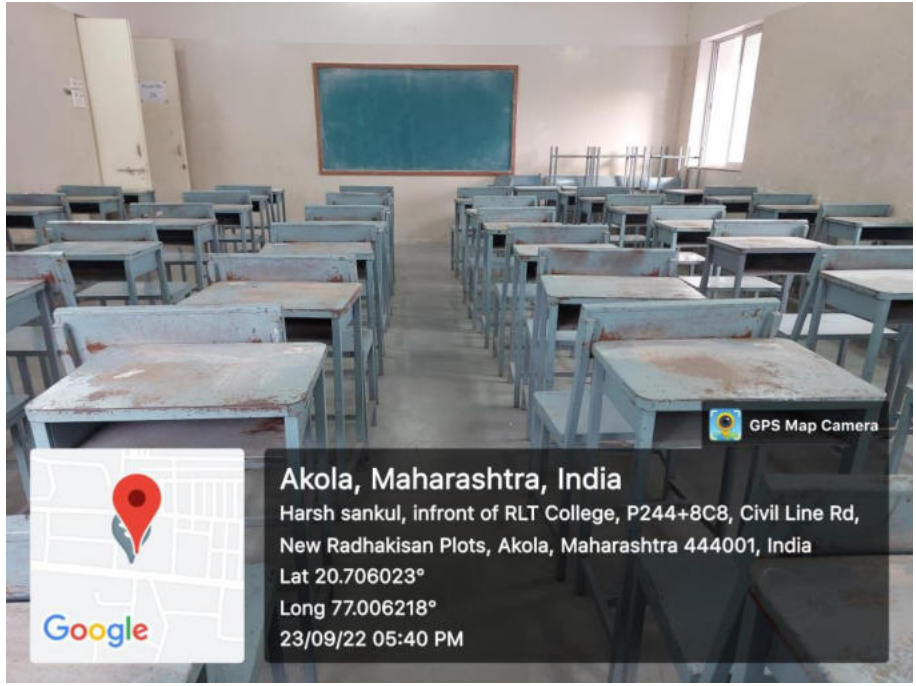


Akola, Maharashtra, India
Harsh sankul, infront of RLT College, P244+8C8, Civil Line Rd,
New Radhakisan Plots, Akola, Maharashtra 444001, India
Lat 20.706023°
Long 77.006218°
23/09/22 05:39 PM

Room No. 23



Akola, Maharashtra, India
Harsh sankul, infront of RLT College, P244+8C8, Civil Line Rd,
New Radhakisan Plots, Akola, Maharashtra 444001, India
Lat 20.706°
Long 77.006034°
20/10/22 02:49 PM



Akola, Maharashtra, India
Harsh sankul, infront of RLT College, P244+8C8, Civil Line Rd,
New Radhakisan Plots, Akola, Maharashtra 444001, India
Lat 20.706023°
Long 77.006218°
23/09/22 05:40 PM

Room No. 24



Akola, Maharashtra, India
P244+HC4, New Radhakisan Plots, Akola, Maharashtra
444001, India
Lat 20.706054°
Long 77.006095°
23/09/22 05:41 PM

Room No. 25



Room No. 26

Digital Classrooms (ICT Enabled Classroom)



Digital Classroom 01



Digital Classroom 02



Digital Classroom 03



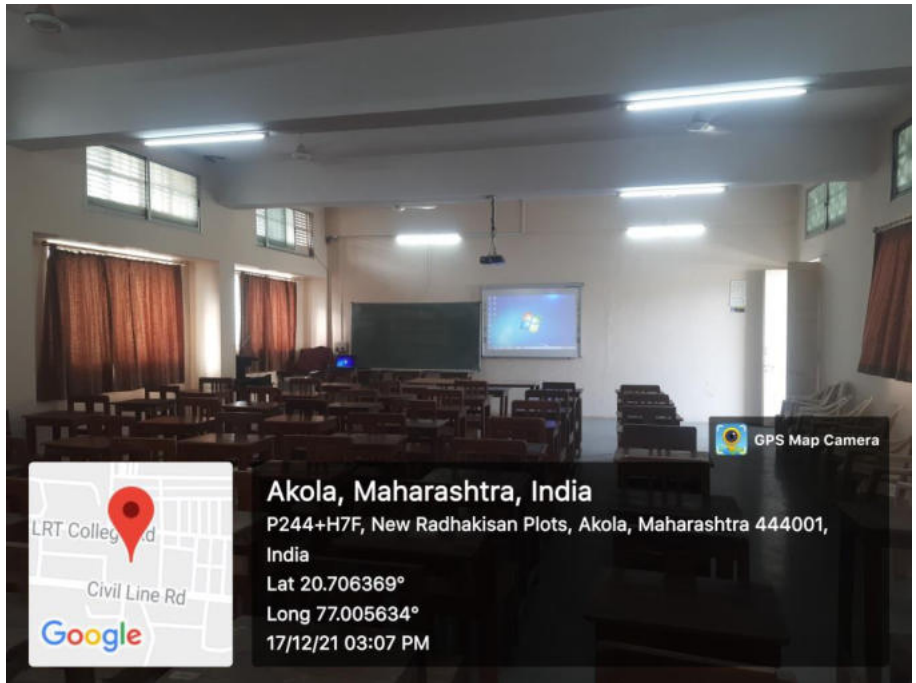
Room No. 01



Room No. 02



Room N. 03

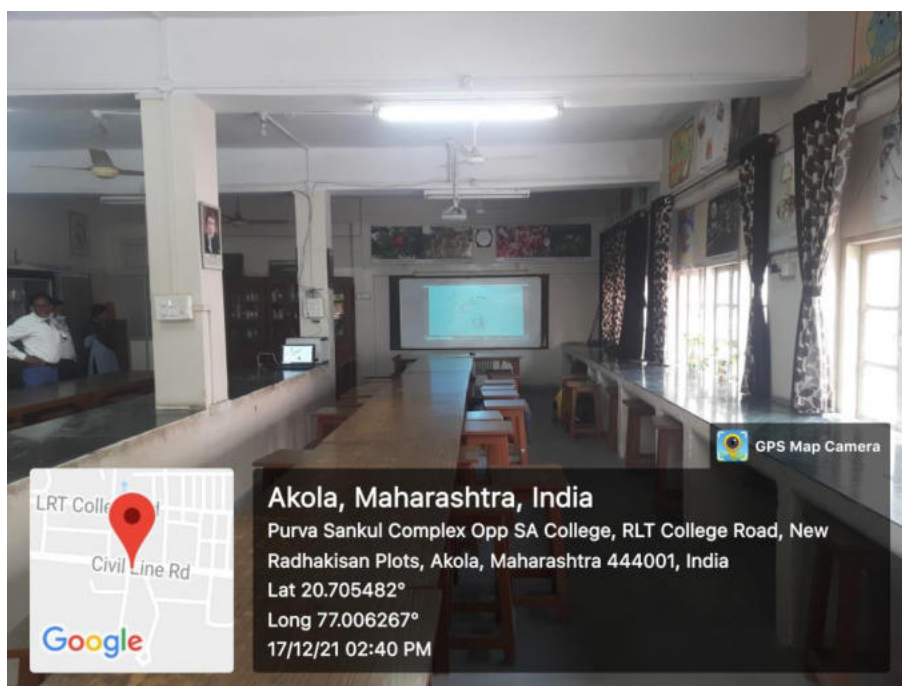


Room No. 18

Laboratories (ICT Enabled)



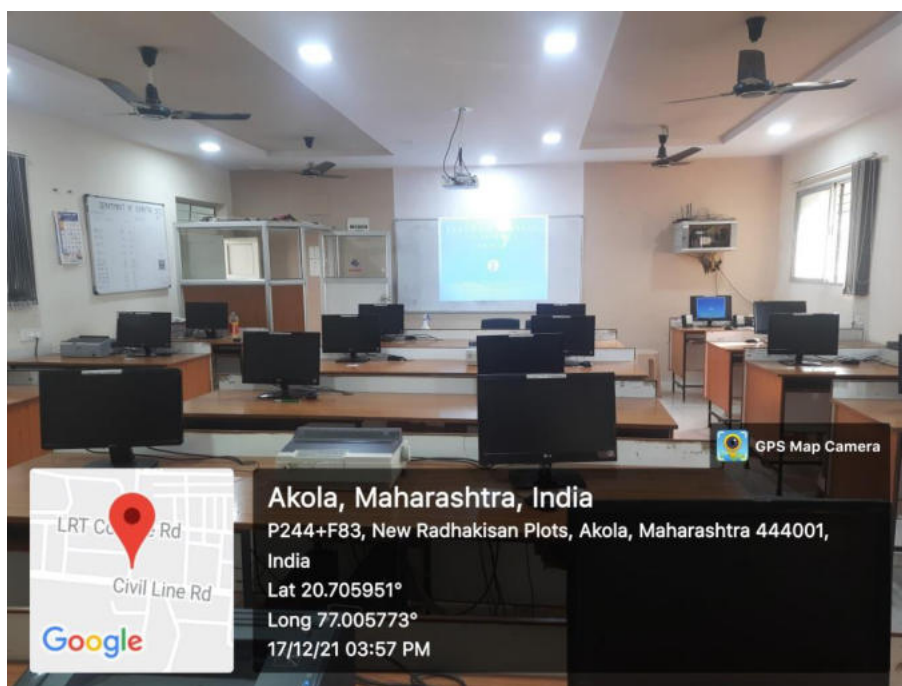
Bio chemistry Lab



Botany Lab



Chemistry Lab



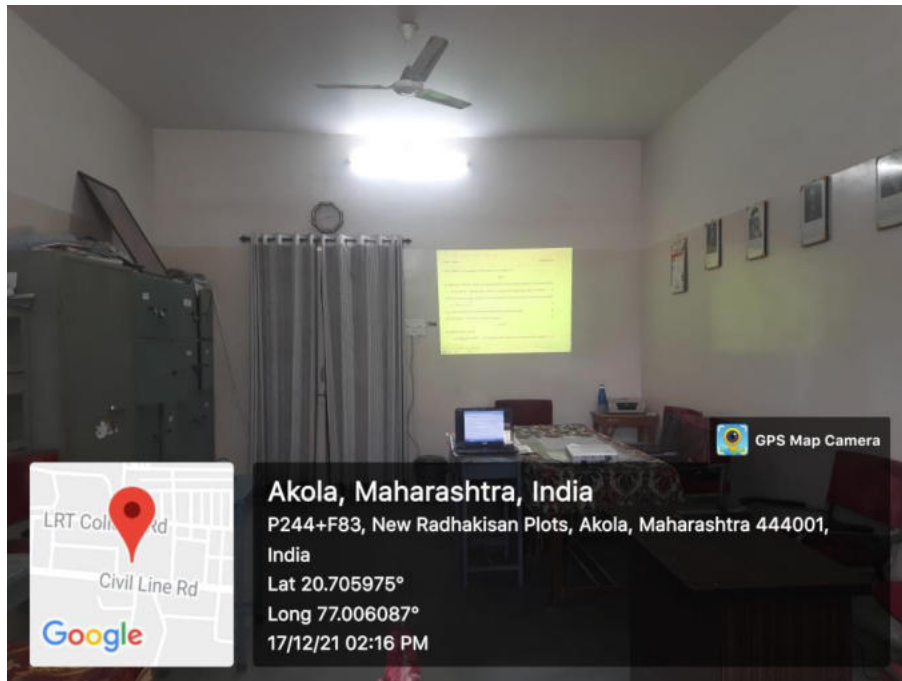
Computer Science Lab



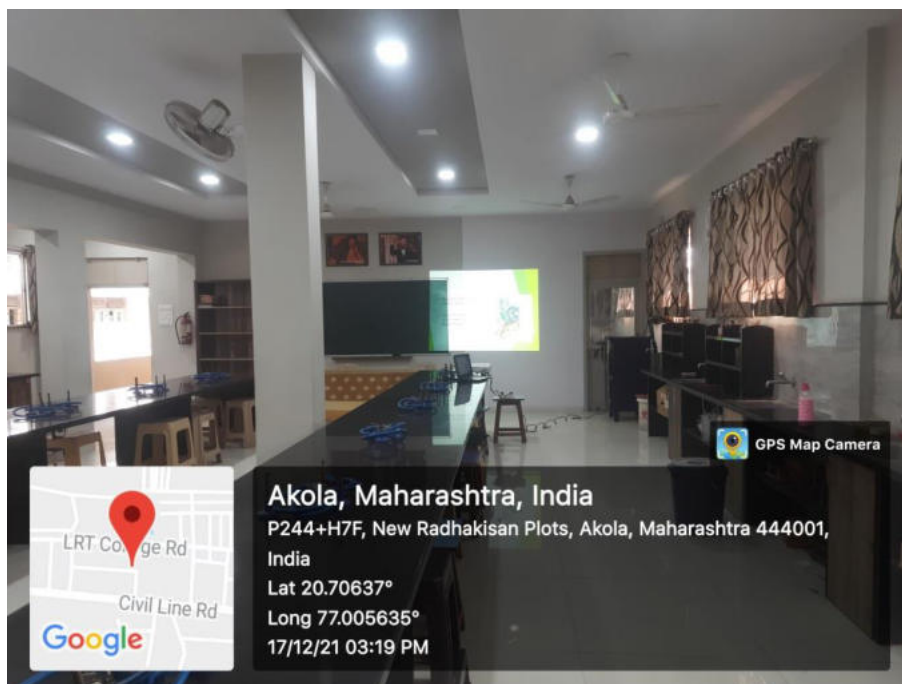
Electronics Lab



IT Lab



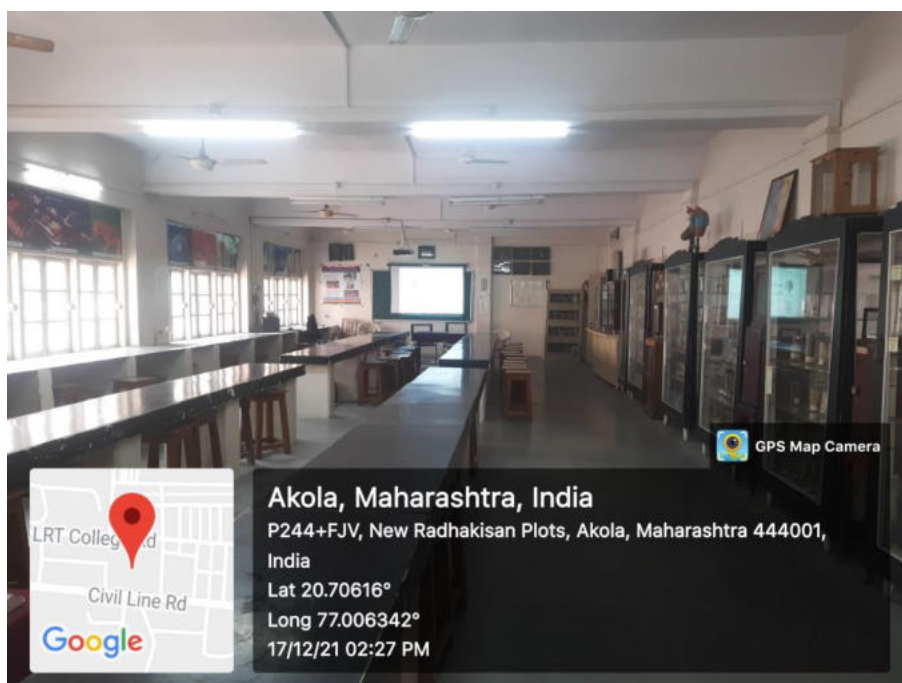
Maths Dept



Microbiology Lab



Physics Lab

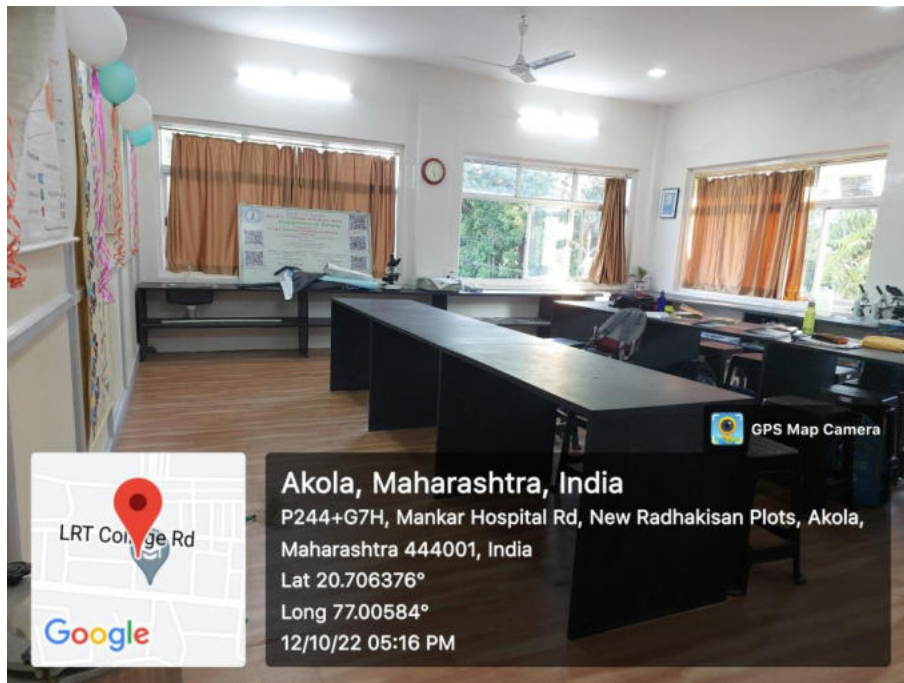
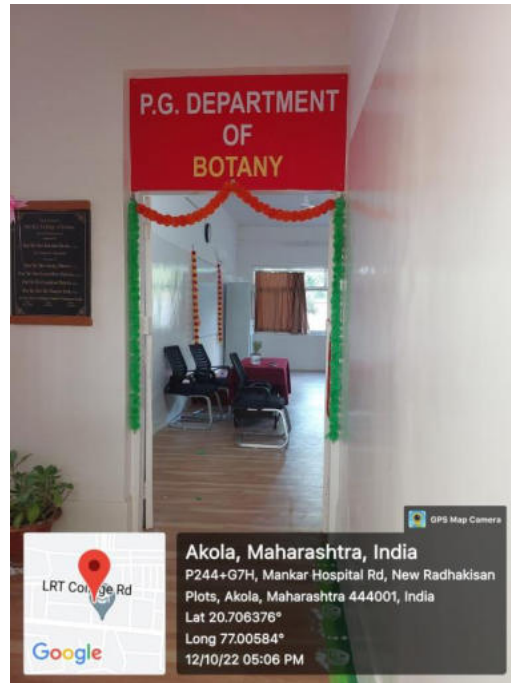


Zoology Lab

Newly Constructed PG Labs



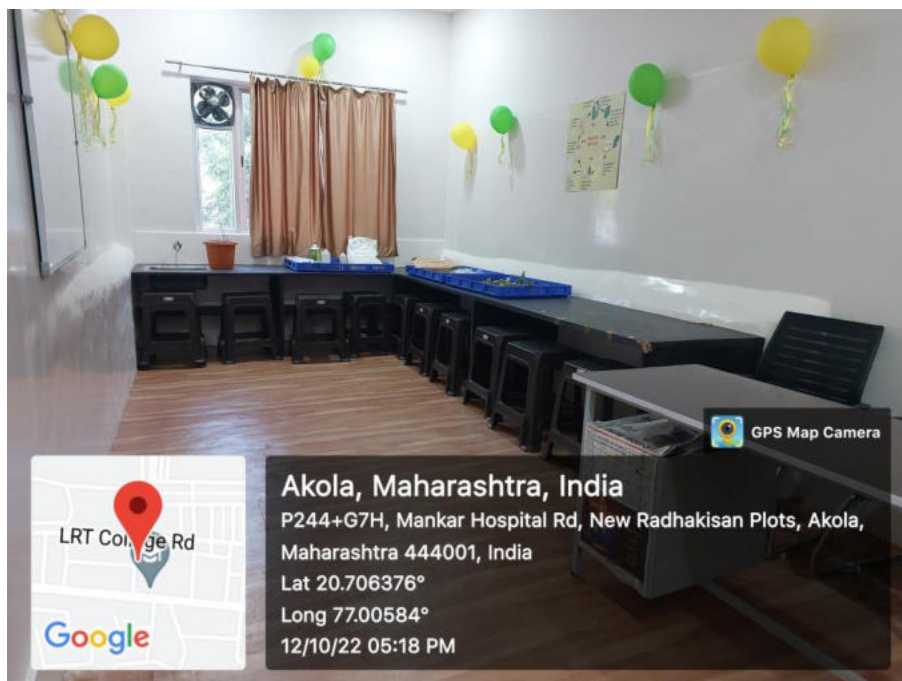
Computer Science Lab.



Botany Lab.



Zoology Lab.



Sericulture Lab.



Bio-Chemistry Lab.



Chemistry Lab.

ICT Facilities



The Berar General Education Society's, Akola
(Regd. No. F65 B'bay Public Trust Act.)

SHRI RADHAKISAN LAXMINARAYAN TOSHNIWAL COLLEGE OF SCIENCE, AKOLA

(R.L.T. COLLEGE OF SCIENCE)
CIVIL LINES, AKOLA - 444 001 (MAHARASHTRA)

: **Recognized By :**

Govt. of Maharashtra & Permanently Affiliated to S. G. B. Amravati University, Amravati.

Ph. No. 0724 - 2415480
Ph. No. 0724 - 2415650
Post Box No.60

NAAC REACCREDITED
GRADE 'A'
WITH CGPA - 3.12

COLLEGE CODE - 210

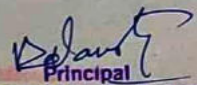
www.rltsc.edu.in
E-mail: rltcollegeakola@gmail.com

L.No.: _____

ICT facilities Department wise

Date: 29/08/2022

Department	LCD Projector	OHP	DESKTOP Computer	LAPTOP	PRINTERS/ SCANNERS	Internet /Wi-Fi	Digital cameras
Chemistry	1	1	5	4	5	Enabled	1
Physics	1		4	1	1	Enabled	
Mathematics	1	1	1	1	2	Enabled	
Botany	1	1	2	1	2	Enabled	1
Zoology	2		3		3	Enabled	
Microbiology/ Biochemistry / Career Counseling Cell	2	2	3	2	3	Enabled	3
Bioinformatics			11		2	Enabled	
Computer Science	1		33	1	10	Enabled	
Information Technology	1		17		1	Enabled	
Electronics	1	1	3		2	Enabled	1
Physical Education/ UGC Sch./MRP			2	2	2	Enabled	1
Library/NRC			10		3	Enabled	
Languages			1			Enabled	
Office			11	2	10	Enabled	
Exam Dept.			1			Enabled	
IQAC			1	1	1	Enabled	
Digital room /Hall	5					Enabled	
Total	16	6	108	15	43		7


Principal
 Shri R.L.T. College of Science
 Civil Lines, AKOLA (M.S.)

Internet Connection Details

- BSNL Two (02) Broadband Fiber Optics Connection with 100 mbps
- Geomax Broadband Services One (01) Broadband Fiber Optics Connection with 100 mbps
- Newly added in this session 2021-22 Airtel Fiber Eight (08) Broadband Fiber Optics Connection with 100 mbps

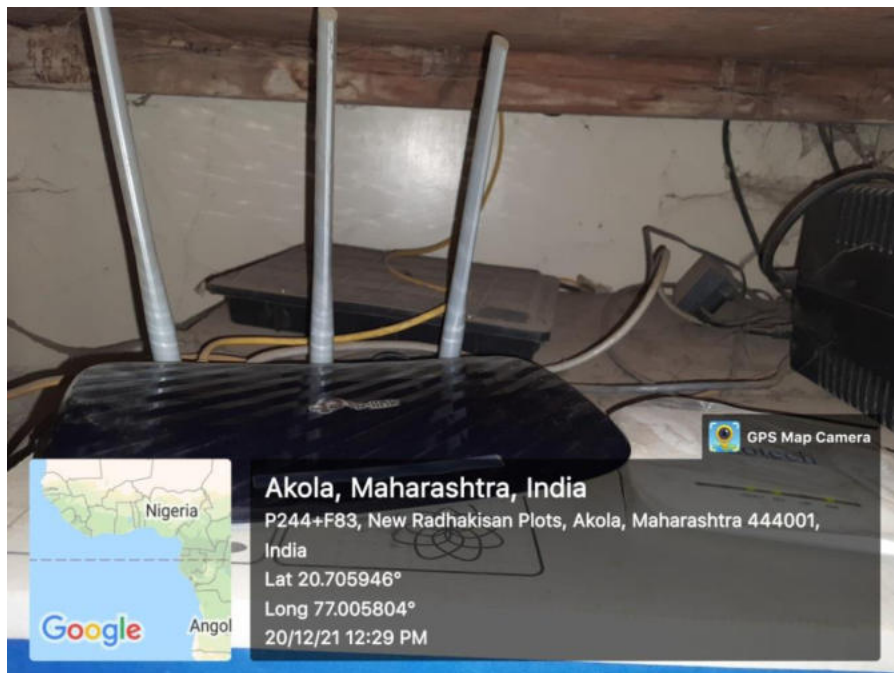
Total Eleven (11) Broadband High Speed Internet Connection with 100 mbps



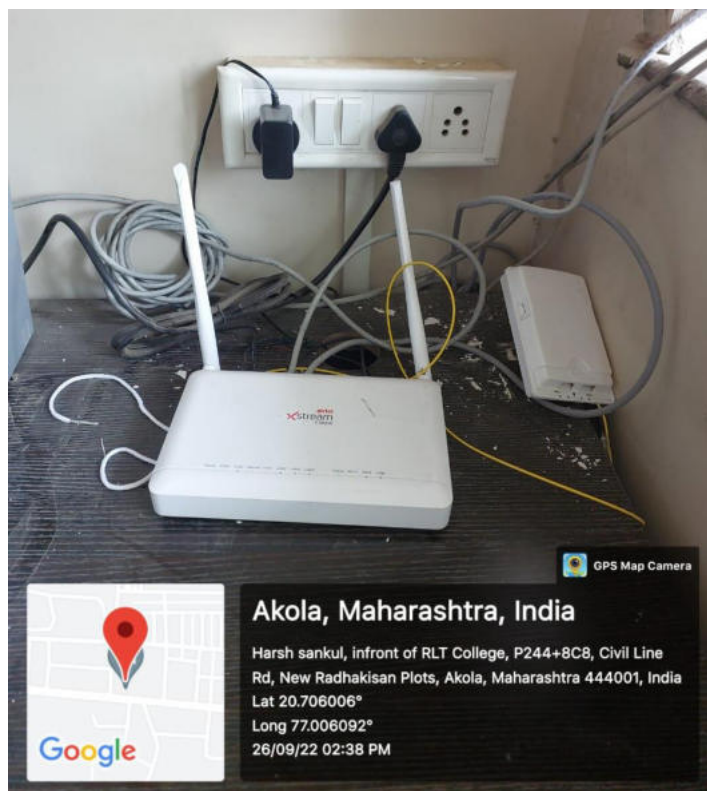
Computer Science Lab Fiber Optic Connection Router BSNL (100 mbps)



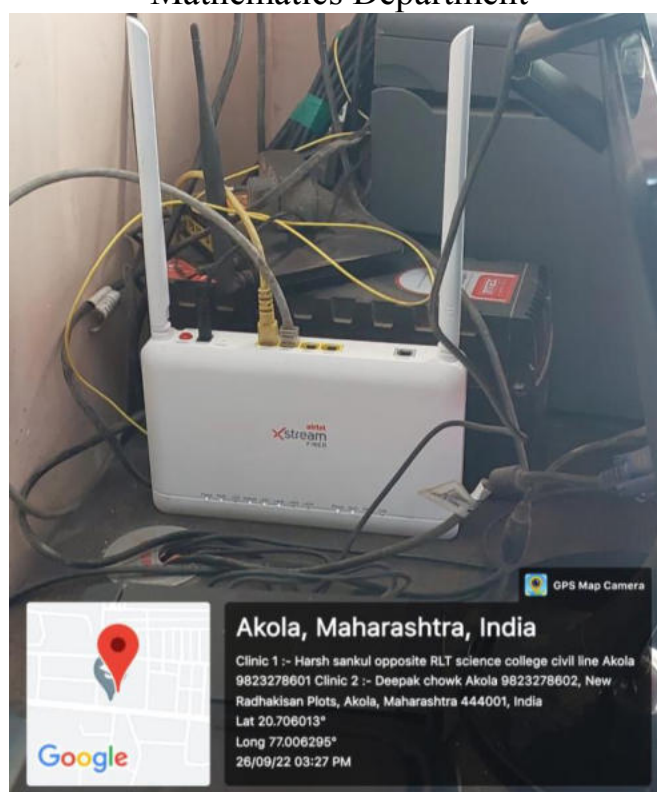
Office Airtel Router (100 mbps)



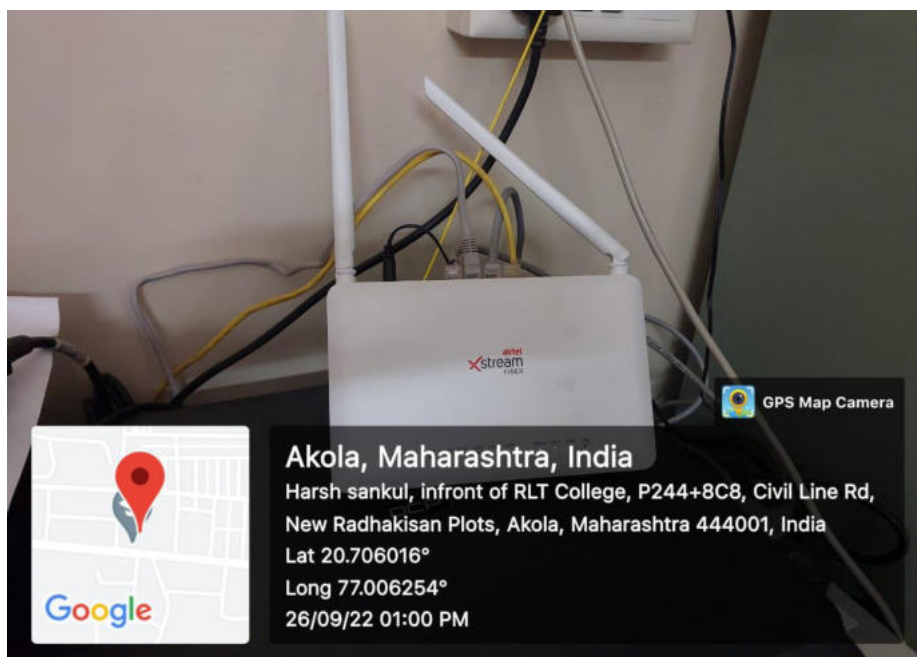
Office Fiber Optic Connection Router BSNL (100 mbps)



Mathematics Department



Zoology Department



Chemistry Department



Physics Department



Information Technology Department



Microbiology Department



Department of Physical Education



Principal Cabin (Office)



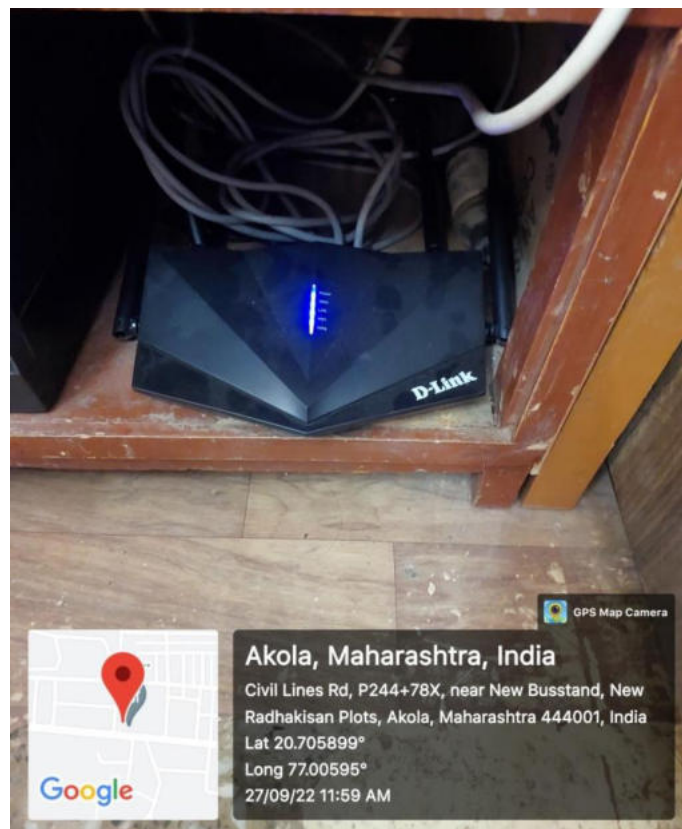
Electronics Department



English Department



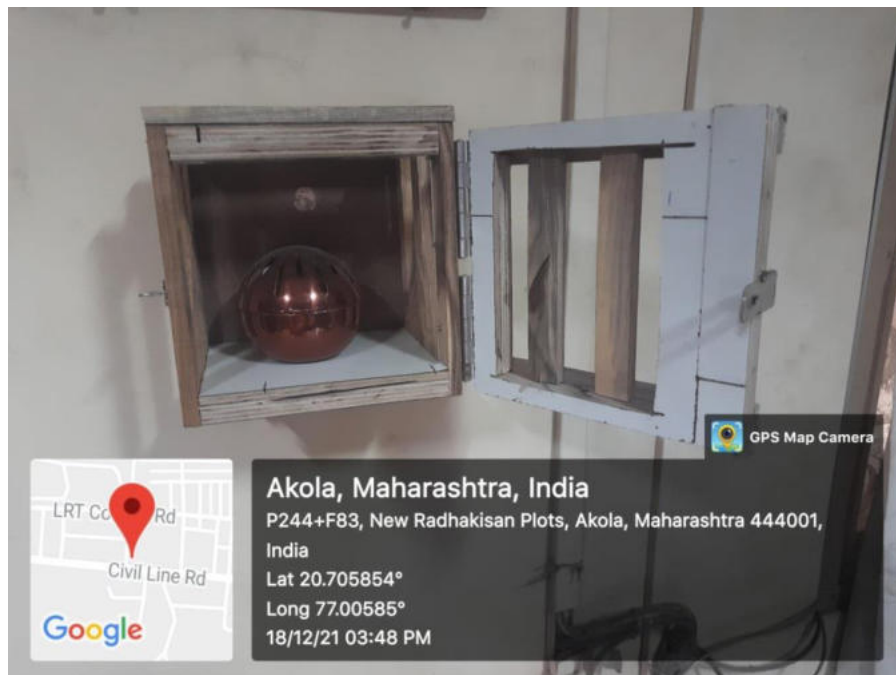
Office Sr.



Office Jr



Examination Department



Environment Globe for Reducing Harmful Radiation Effects

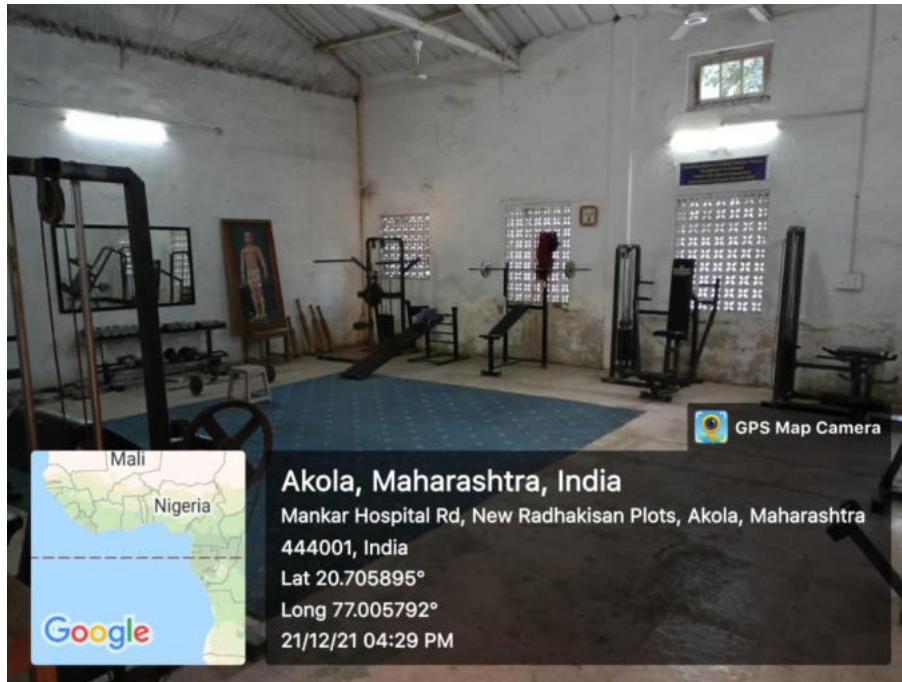
Cultural Facility





Auditorium for Cultural Activities / Sport Indoor Game

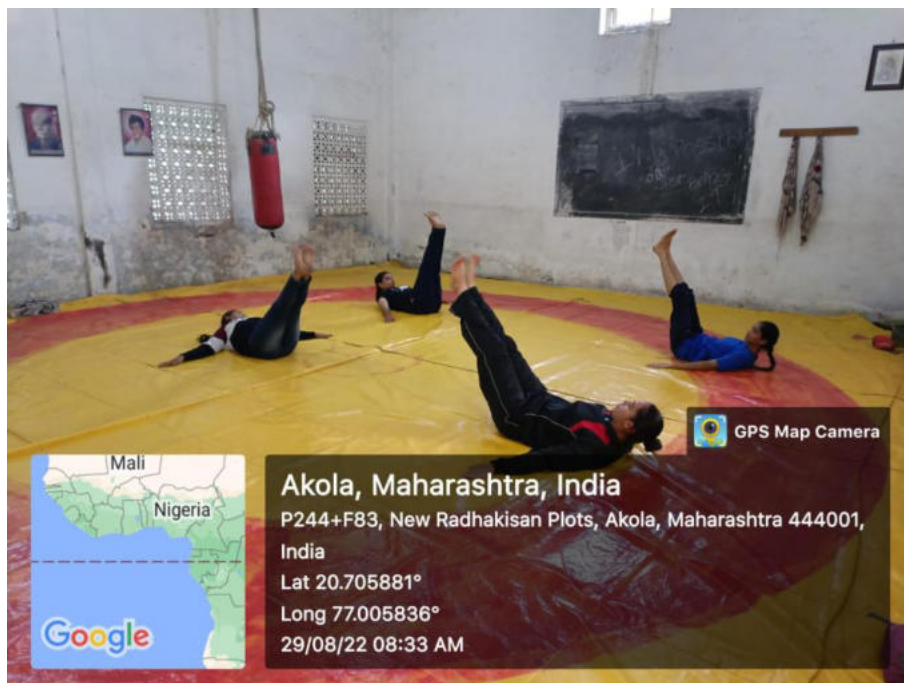
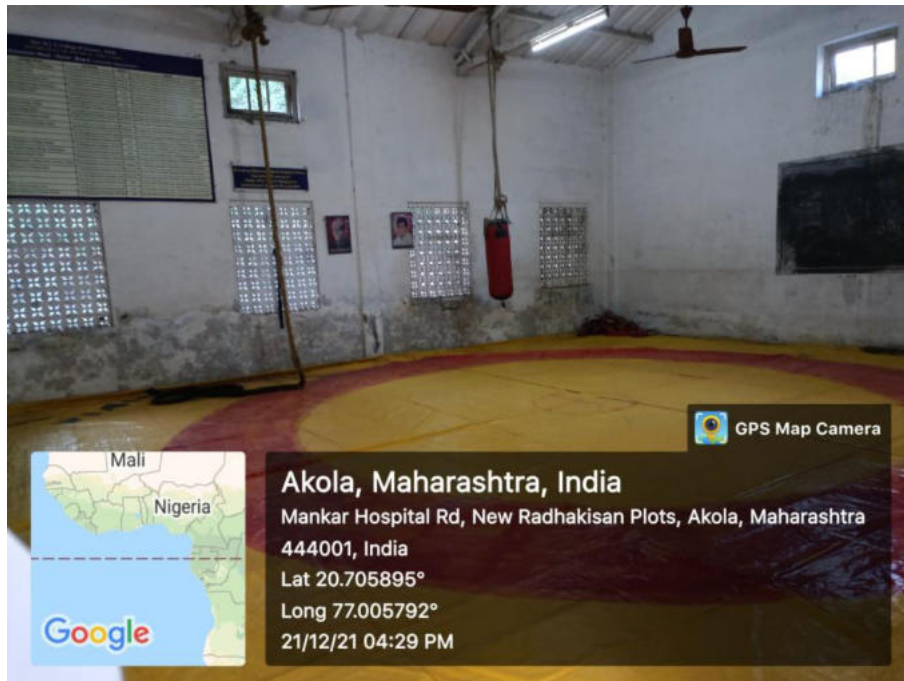
Gymnasium and Sports / Yoga Facilities



Gymnasium







Wrestling & Sport Practices Hall



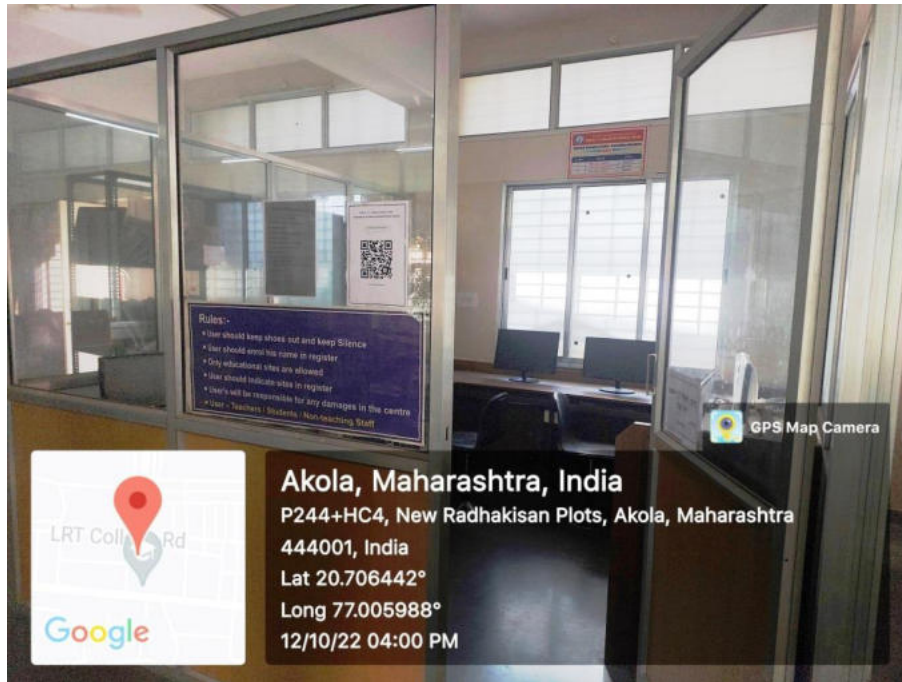
Sport Boxing Ring

College Library





Network Resource Center (NRC) in Library



Other Facilities



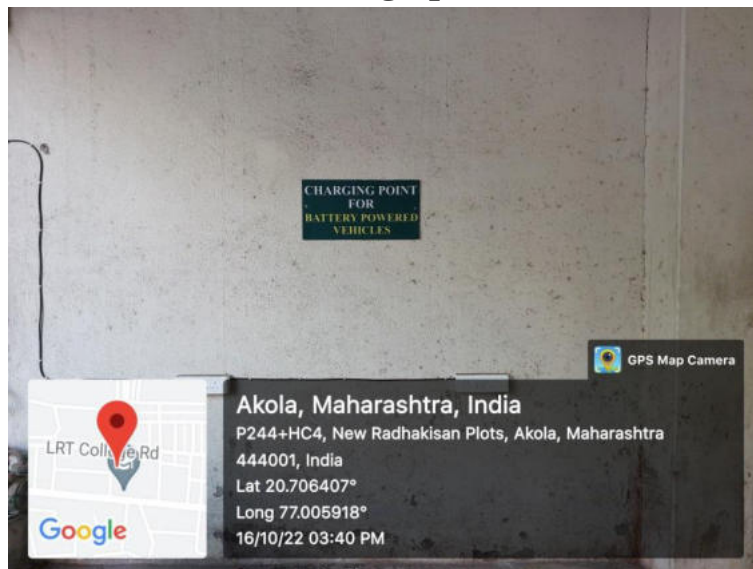
Botanical Garden



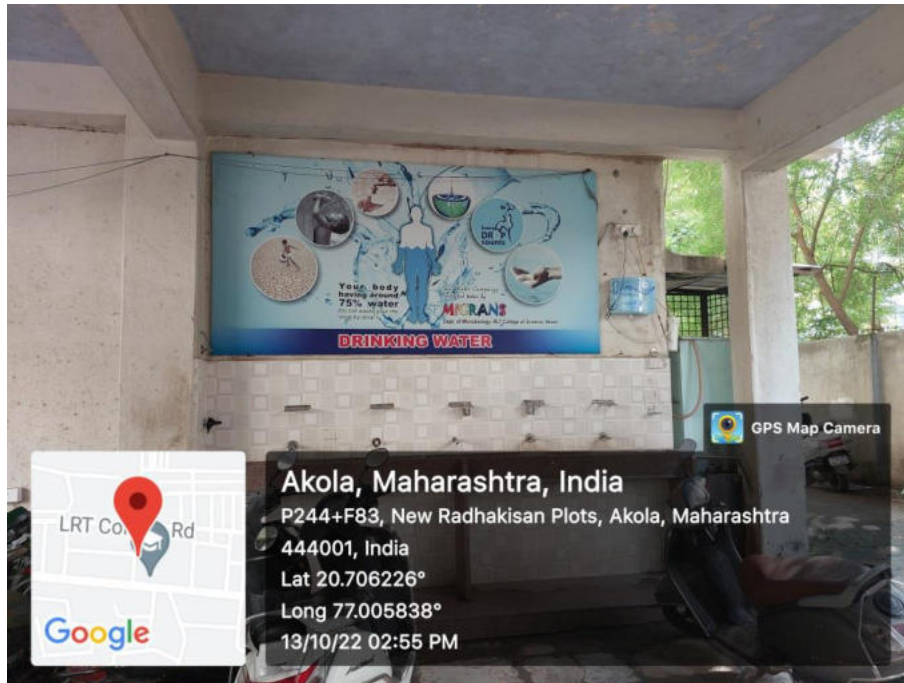
College Canteen / Lunch Shade



Parking Space



E-Bike Charging Point



Safe Drinking Water Facilities





College Under the Surveillance of 46 CCTV Cameras



Power Generator 10 KVA



Vermicomposting Plant



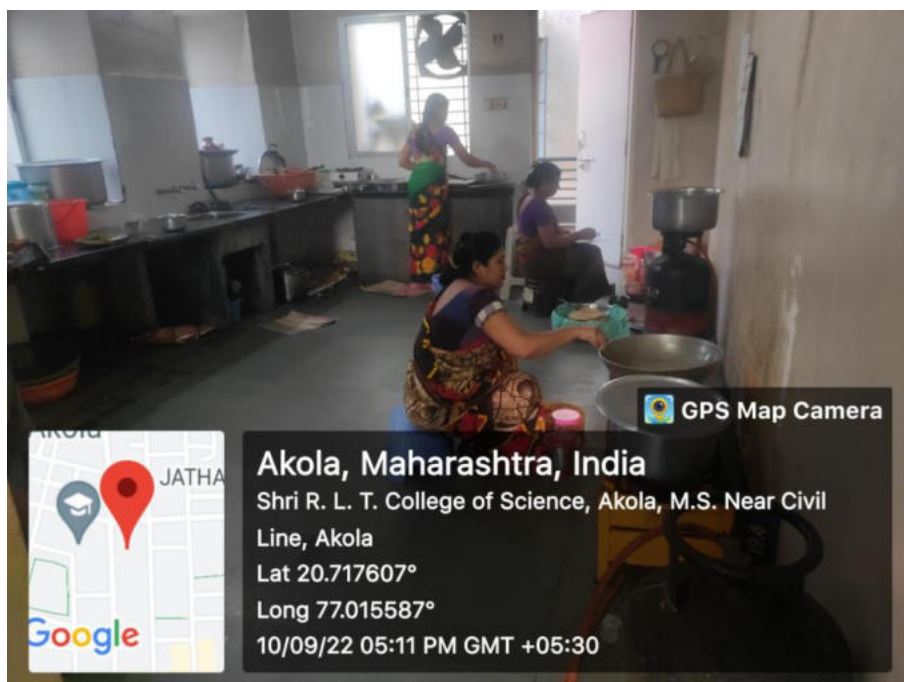
Biogas Plant



Bore Well



Solar Water Heater (Hostel)



**The Bharu General Education Society's
Shri R. L. T. College of Science, Akola
D.G.C. Women's Hostel**

Biogas from Kitchen and Food Waste

Goal: The aim of the college is to solve the problem of waste disposal from kitchen and dining of girl's hostel as well as garbage of college campus and to generate energy from waste.

Importance: A biodegradable waste fed biogas plant in college campus is a best and ecofriendly technology for the treatment of kitchen and dining waste. It also becomes an effective tool to serve the fuel supply needs of the hostel.

WHAT IS BIOGAS?

- Biogas is clean environment friendly fuel.
- Biogas is the gas produced by the breakdown of organic waste by bacteria in stored oxygen (anaerobic digestion or fermentation). It is the ultimate waste product of the bacteria feeding on the liquid body public, kitchen & nonhazardous waste of garbage. Anaerobic performed by methanogens.
- Biogas primarily composed of 55-65% methane, 35-45% carbon dioxide, 0.5-1.0% hydrogen sulfide and traces of water vapor.

INTRODUCTION

- In the first step the fermentative bacteria e.g. *Bacteroides*, *anaerostipes* break down complexed substrate into monomers.
- In the second stage, nitrogen bacteria e.g. *Acetivibrio* sp. decompose the remaining complex organic molecules into acetic acid.
- When acetic acid has been produced in sufficient quantities, methanogenic bacteria convert it into methane. This last step is called methane production or **methanogenesis**.
- The decomposed carbon is converted along completely into methane.
- A final product of fermentation is the combustible biogas.

1. Hydrolysis **2. Fermentation** **3. Acetogenesis** **4. Methanogenesis**

Complex organic waste → Simple organic waste → Acetic acid → Biogas (CH₄, CO₂)

Biogas Composition	
Component	Concentration
Methane	50 - 75 Vol.-%
Carbon dioxide	25 - 45 Vol.-%
Water vapor	2 - 5 Vol.-%
Oxygen	< 2 Vol.-%
Nitrogen	< 2 Vol.-%
Ammonia	< 1 Vol.-%
Hydrogen	< 1 Vol.-%
Sulfide	20 - 20,000 ppm

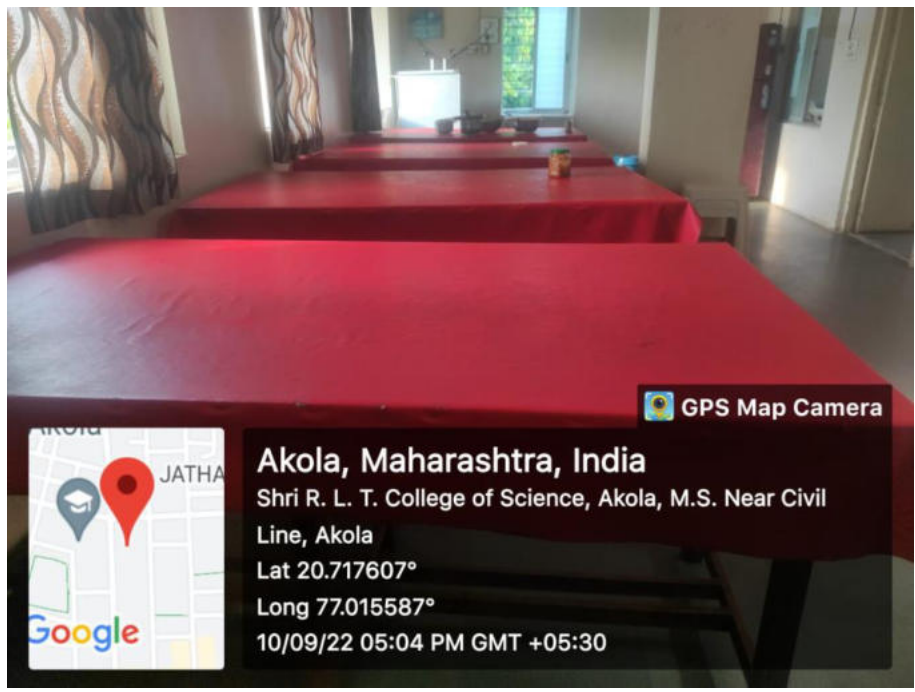
ADVANTAGES OF BIOGAS

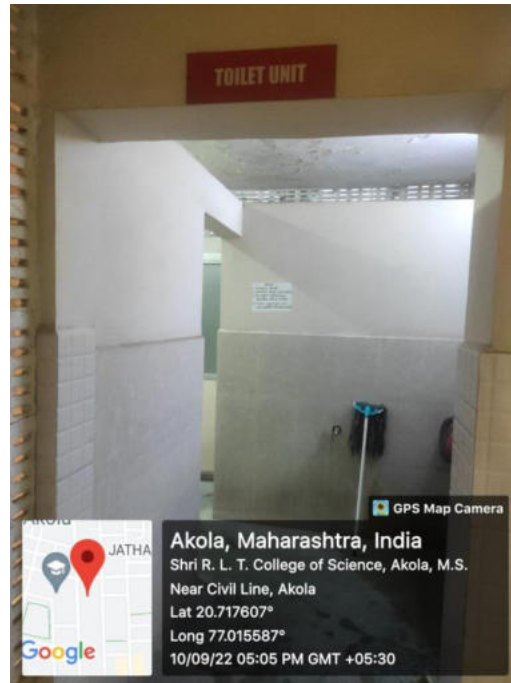
- Forest protection
- Saving cooking time
- Saving money
- Improving hygiene conditions
- Improving productivity
- Production of high quality fertilizer
- Biogas is a clean and renewable source of energy.
- Biogas is a safe and secure fuel.

Other Applications of BIOGAS in various fields

- Mushroom cultivation
- Poultry
- Fish culture

*Sandip Ashok, Tolkawal
M.Sc. B.V. Education*





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Shri R. L. T. College of Science, Akola, M.S.
Near Civil Line, Akola
Lat 20.717607°
Long 77.015587°
10/09/22 05:05 PM GMT +05:30



Google RLT C Science Akola, Maharashtra, India
P244+M6R, New Radhakisan Plots, Akola, Maharashtra
444001, India
Lat 20.706829°
Long 77.005872°
20/10/22 03:24 PM



Solar Roof Top Facility



