INFRASTRUCTURE – 2021-2022

Details of augmentation in infrastructure facilities during the year

Facilities	Existing	Newly added
Campus area	**Total -** 1.82 hector (4.5 acre) **Building area** – 901.60 sq. m, 879.0748 sq. m. and 508.88 sq. m. **Play ground** – 1.01 hector	Nil
Class rooms	**Six class rooms** Room no. 1 – 750 sq. ft. Room no. 2, 3 - 500 sq. ft. each Room no. 4 - 1050 sq. ft. Room no. 5 - 830 sq. ft. Room no. 6 - 375 sq. ft. **Total class room area = 4005 sq ft**	Nil
Laboratories	Chemistry Lab. - 1250 sq ft Physics Lab. - 1150 sq. ft. Comp. Sci. Lab. - 500 sq. ft. Zoology Lab - 1000 sq. ft. Botany Lab - 1000 sq. ft. **Total laboratory area = 4900 sq ft**	Nil
Seminar Halls	**Nil**	**One Seminar Hall** 182 sq. m.
Indoor Stadium	**Indoor Stadium -** 879.0748 sq. m.	Nil
Girls Hostel	**Girl's Hostel** - 508.88 sq. m.	Nil
Classrooms with DLP facilities (LAN)	05	Nil
Seminar halls with ICT facilities	**Nil**	**One Seminar Hall with ICT -** 182 sq. m.
No. of important equipments purchased (≥ 1-0 lakh) during the current year.	10	Nil
Value of the equipment purchased during the year (Rs. in Lac)	18,79,222	Nil

Physical Facilities

An adequate infrastructure and physical facilities for the teaching-learning process are precisely available as per the requirement by statutory bodies. Well furnished-specious six classrooms with proper air and light circulation and, each having room more than sufficient of student's intake are in use with well seating arrangement in the college building. From the session 2020-21, according to infrastructure augmentation, now we have six classrooms. Out of these six classrooms, room 1 is of 750 sq ft, room 2 & 3, each is of 500 sq ft, room 4 is of 1050 sq. ft., room no 5 is of 830 sq ft and room 6 is of 375 sq ft. Total area of 4005 sq ft is occupied by these six classrooms. Classrooms 1 to 5 are at first floor and classroom 6th is at ground floor. All classrooms are in the range of wi-fi facility and rooms 1 to 5 are with DLP facility. We have well furnished-specious five laboratories with proper air and light circulation and, each having room more than sufficient of student's intake with well seating arrangement in the college building. Out of these, three laboratories (Physics – 1150 sq ft, Chemistry – 1250 sq ft and Computer Science – 500 sq ft) are at the ground floor and two laboratories (Botany – 1000 sq ft and Zoology – 1000 sq ft) are at the first floor. The total area of 4900 sq ft is occupied by the laboratories. All laboratories are well equipped with sophisticated instruments. All the laboratories are in the range wi-fi facility. All the departments, including laboratories, have computers for individual faculty with internet facility (LAN and wi-fi). Total 25 computers are available for the students with internet facility (LAN and wi-fi), in the laboratory of computer science.

The Institution has adequate infrastructure and physical facilities for teaching- learning. viz., classrooms, laboratories, computing equipment etc.

Sr. No.	Classrooms/ Laboratories	Area	LAN/wi-fi/DLP	Ground Floor/First Floor
1	Classroom 1	750 sq ft	LAN, Wi-Fi and DLP	First Floor
2	Classroom 2	500 sq ft	LAN, Wi-Fi and DLP	First Floor
3	Classroom 3	500 sq ft	LAN, Wi-Fi and DLP	First Floor
4	Classroom 4	1050 sq ft	LAN, Wi-Fi and DLP	First Floor
5	Classroom 5	830 sq ft	LAN, Wi-Fi and DLP	First Floor
6	Classroom 6	375 sq ft	LAN and Wi-Fi	Ground Floor
7	Chemistry Laboratory	1250 sq ft	LAN and Wi-Fi	Ground Floor
8	Physics Laboratory	1150 sq ft	LAN and Wi-Fi	Ground Floor
9	Computer Sci. Laboratory	500 sq ft	LAN and Wi-Fi	Ground Floor
10	Zoology Laboratory	1000 sq ft	LAN and Wi-Fi	First Floor
11	Botany Laboratory	1000 sq ft	LAN and Wi-Fi	First Floor
12	Seminar Hall/Auditorium	2000 sq ft	LAN, Wi-Fi and DLP	First Floor
13				

Cultural Activities:

All cultural activities are planned to conduct in the seminar hall cum auditorium (2000 sq ft) and corridor (1800 sq ft), depending on the number of audience. The student's annual function is often conducted by hiring the stage and *shamiyana* system in the open space outside the college building.

Sports – Games:

The specious Indoor Stadium (879 sq m ~ 9500 sq ft) including bat-Minton court, volley ball court is available. Huge play ground (1.01 hector) is available including running track - 200m, short-put sector, jumping pit, double bar – single bar, volley ball ground, kabaddi ground and cricket pitch. The sports in Chess and Carom are conducted in the rooms attached with the indoor stadium. One well equipped gymnasium hall (800 sq ft) is in practice.

Percentage of classrooms and seminar halls with ICT		
Room number or Name of Classrooms and Seminar halls with ICT-enabled facilities	**Type of ICT facility**	**Link to geo tagged photos**
Class room no. 1	DLP, LAN and wi-fi	
Class room no. 2	DLP, LAN and wi-fi	
Class room no. 3	DLP, LAN and wi-fi	http://www.kzsscollege.edu.in/wp-content/uploads/2023/02/ICT-Classrooms-Laboratories-Seminar-Hall-GPS-Photos.docx-Copy.pdf
Class room no.4	DLP, LAN and wi-fi	
Class room no. 5	DLP, LAN and wi-fi	
Class room no. 6	LAN and wi-fi	
Seminar Hall	DLP, LAN and wi-fi	

** (Data for the latest completed academic year)

Percentage of classrooms and seminar halls with ICT	
Classrooms	**83%**
Seminar Hall	**100%**

Number of classrooms and seminar halls with ICT facilities

- Number of classrooms with DLP facilities   - 05
- Number of classrooms with Wi-Fi/LAN facilities   - 06
- Number of smart classrooms   - Nil
- Number of classrooms with LMS facilities   - Nil
- Number of seminar halls with ICT facilities   - **01**

Average percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lac) Average percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lac)					
Year	Budget allocated for infrastructure augmentation (INR in Lac)	Expenditure for infrastructure augmentation (INR in Lac)	Total expenditure excluding Salary (INR in Lac)	Expenditure on maintenance of academic facilities (excluding salary for human resources) (INR in Lac)	Expenditure on maintenance of physical facilities (excluding salary for human resources) (INR in Lac)
2016-17	Nil	2.227	13.94	0.97	0.29
2017-18	Nil	Nil	13.028	1.42	Nil
2018-19	**Nil**	11.426	14.87	0.81	1.79
2019-20	Nil	7.344	10.72	3.03	2.66
2020-21	5	2.079	8.669	0.45	Nil
2021-22	5	4.41	15.15	0.87	1.58

Parentage per year of Expenditure for infrastructure augmentation (INR in Lac)			Parentage per year of Expenditure for maintenance of academic and physical facilities (INR in Lac)		
Year	Percentage per Year	Average percentage for five years	Year	Percentage per Year	Average percentage for five years
2016-17	15.97%		2016-17	9.04%	
2017-18	0%		2017-18	11%	
2018-19	76.83%	35.06%	2018-19	17.48%	19.16%
2019-20	68.50%		2019-20	53.08%	
2020-21	23.98%		2020-21	5.19%	

Library is automated using Integrated Library Management System (ILMS)

Library is automated using Integrated Library Management system (ILMS) Library plays an important role in an academic institution towards the teaching –Learning and research activities. LIB-Man masters soft is a cloud based library automation software that is a Partially integrated, user-friendly, multi-user package for computerization of all the in-house operations of the Library- Lib-Man is embedded with Multi-lingual Fonts, Barcode , Some of the books have been bar coded for issue return purpose, the rest being in process of being bar coded.

Physical description	Particulars
Name of the ILM Software	CLOUD based LIBMAN
Nature of automation	partially automated
Version	Libcloud 2.0
Year of Automation	2019-20
AMC for Software	Rs. 20,000/-

Average annual expenditure for purchase of books/ e-books and subscription to journals/e-journals during the last five years

2016-17		
Library resources	**Total Library Expenditure**	**Link to the relevant document**
Books	8796/-	
Journals		

2017-18		
Library resources	**Total Library Expenditure**	**Link to the relevant document**
Books	36393/-	
Journals		

2018-19		
Library resources	**Total Library Expenditure**	**Link to the relevant document**
Books	42211/-	
Journals		

2019-20		
Library resources	**Total Library Expenditure**	**Link to the relevant document**
Books	32063/-	
Journals		

2020-21		
Library resources	Total Library Expenditure	Link to the relevant document
Books		
Journals	9810/-	

2021-22		
Library resources	Total Library Expenditure	Link to the relevant document
Books	35000/-	
Journals		

Average annual expenditure for purchase		
Year	Expenditure per year	Average Expenditure (5 years)
2016-17	8796/-	
2017-18	36393/-	
2018-19	42211/-	25,854/-
2019-20	32063/-	
2020-21	9810/-	
	1,29,273/-	
2021-22	35000/-	

IT Infrastructure

Technology Upgradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centre	Computer Centre	Office	Departments	Available band width (MGBPS)	Others (Library)
Existing	48	21	Nil	Nil	Nil	05	15	Nil	07
Added	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total	**48**	**21**	**Nil**	**Nil**	**Nil**	**05**	**15**	**Nil**	**07**

4.3.2 Bandwidth available of internet connection in the Institution (Leased line)

i. *Unlimited* – BSNL service –Bandwidth - 100Mbps / month
ii. *Unlimited* – In Cable service -50Mbps / month

Institution frequently updates its IT facilities including Wi-Fi

Describe IT facilities including Wi-Fi with date and nature of updation within a maximum of 500 words

In past, up to year 2019-2020, wifi and LAN, both were working with 20 mbps. Now, with updating, from 2020-2021, one BSNL broad band plan ***Fibro 2000 GB/Month CS64*** of BSNL BHARAT FIBER BB Service (100 mbps) and another ***ONE broadband plan of 50 mbps of In Cable service*** are in use. Both, LAN and wi-fi facilities are available for individual faculty, principal's office and administrative office. For the LAN connectivity, two port boxes each of 8 switches are situated at first floor and ground floor, respectively. For smooth accession, two routers, one is at ground floor and another is at first floor, each having 100 meter range providing IT facility to individual faculty, student and non teaching staff. Each of the students can take the use of wi-fi facility. Also, all classrooms, departments and laboratories are under the coverage of wi-fi.

A. PHYSICAL Facility: Maintenance and Utilization

i) General

The departments, laboratories, corridor, office and campus are enriched with sufficient lighting and air circulation system. There are four solar lamps/ street lights of superior quality on the playground. Drinking water / washroom water has been managed by lifting the water from well and tube-well using electric motor- pumps. The facility of Hygienic drinking water for the staff and students has been managed. One electrical technician has hired on AMC basis. The high power generator of 25 kVA (Kirloskar make) is there to run the all campus work including classroom teaching, library and office in case of power off. The power generator is under the company service.

Water circulating system for washrooms and laboratories is available. One plumber/technician is hired on AMC basis. Daily cleaning of office, departments, classrooms, laboratories, library and washrooms has carrying by class four staff of college. The annual white wash has been carried by calling the local painters on hire basis.

ii) Sport

The specious Indoor Stadium including bat-Minton court, volley ball court, and play ground including running track - 200m, short-put sector, jumping pit , double bar – single bar, volley ball ground, kabaddi ground, cricket pitch, and gymnasium, all these are under maintenance by calling respective service mans as per requirement time to time. The cleaning, map sketching and decoration of play ground has been carried time to time by NSS volunteers/student players. Sport material is issued to students as per the schedule. For intercollegiate competitions sport material is issued to the student for the practice. Gymnasium is in use by college students and students of other colleges as per the given slot.

iii) Seminar Hall

We are utilizing newly constructed, 200 audience capable seminar hall of 182 sq.m having good ventilation, stage - podium of 206 sq. ft., DLP - screen, internet facility with LAN and wi-fi.. All these are under maintenance by calling respective service mans as per requirement time to time. The cleaning of seminar hall has been carried time to time by students on volunteer basis. Number of scientific, cultural, social and carrier oriented programmes are continuously organized in this hall. The permission of IQAC chairman is the very first requirement for taking the academic, support and physical use of this hall.

B. ACADEMIC Facility: Maintenance and Utilization

i) Laboratories

We call the company service mans as per requirement for high grade instruments. Regular servicing and maintenance is carried out for the instruments. Service engineers from manufacturing companies will be called for the repairs, if available. Practical batches are prepared so as to give hands on experience to all the students. Practical are conducted in morning and afternoon sessions for maximum utilization of laboratory space.

ii) Library

Proper ventilation is done so as to maintain dry environment near book shelves. Regular dusting and cleaning is done by using vacuum cleaners. Pest control is carried out so as to increase the life of valuables resources of library. Furniture is repaired as per the requirement centrally. Book binding is frequently carried as per requirement.

Library is kept open in long vacations for the benefits of the students. Library is with two specious reading rooms for the girls and boys students, respectively. In average, 20 to 25 students are utilizing the library and reading rooms. The manual transaction and LMS transaction through computer system are available for the students and staff.

iii) Computers/ICT/DLP

Regular up gradation is carried out for computers hardware/software. One software/hardware technician is hired on annual contract basis (AMC) to maintain, repair and extend the computers, DLPs and Internet BB/wi-fi service. All the departments / laboratories including office have updated computers and printers with internet connections of i) *Unlimited – BSNL service – Bandwidth - 100Mbps / month and ii) Unlimited – In Cable service -50Mbps / month*. Available computers are distributed in departments, office, library and administrative office, as per the requirement and load of the work. Computers are connected through LAN and wi-fi internet facility. Computers are provided with upgraded antivirus. Twenty one computers are available for the student's academic purpose.

iv) Classrooms

Specious six classrooms with norms are available as per student's intake capacity. Daily cleaning of classrooms has done by class four staff of college. All the classrooms are with DL projectors, online (internet) LAN and wi-fi service for effective teaching - learning process.