

Criterion IV

Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitates effective teaching and learning?

The college has been upgrading its infrastructure in the last ten years by modernizing class rooms and laboratories. A sincere effort is made to develop cost effective and sustainable infrastructure for effective teaching and learning. The departmental Head's place their requirements which are prioritized by the management and provided. The local managing committee of the college and the managing committee meets at least four times a year and these requirements are placed before the committee which are planned and executed.

4.1.2 Detail the facilities available for

A) Curricular and co-curricular activities: Classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, computer laboratories, library and reading rooms, garden showcasing biodiversity of plants, animal house, specialized facilities and equipment for teaching, learning and research.

B) Extra-curricular activities: Sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, canteen, public speaking, communication skill development, yoga, health and hygiene etc.

Being the commercial capital of the country, space is at a premium in Mumbai. The suburban railway lines are the life lines of transporting lakhs of commuters every hour. Mumbaikars prefer places near a suburban railway station for residence, work, school, college, shopping etc. Situated opposite the Ghatkopar railway station, our college is preferred by staff and students for quality education and convenience of commuting. The college complex has 8270 sq. mt. of built up area of which 2800 sq. mt. have been added in the last six years. The college has modernized almost all its facility to train students to compete nationally and globally.

A) Academic activities: There are five floors with extension wings with well ventilated, illuminated furnished classrooms. All class rooms are equipped with sound systems and are geared for using audio visual aids. The present plan of the college is as follows:

Elevator is in the center of the building. There are two wings, one on either side and from first floor onwards

there are two extension buildings on both sides. The extension buildings have one elevator each. All departments, office, staff rooms have first aid boxes.

Ground Floor:

- Chemistry Department
- Five Laboratories, Research room, Store rooms (3), Staff room, Departmental library, computers and connectivity, Gas Room, Acid and hazardous chemical room.
- All labs are well equipped and have the necessary safety requirements.
- Chemistry staff room with HOD cabin, water purifier, fridge
- Ground Floor also houses the seminar room, boys' common room with Gymkhana, staff cabins for Arts and Commerce departments, stationery store and canteen.
- Behind the chemistry laboratory are facilities like Hindi Centre, Language laboratory, Women development cell, Counselling cell, M Com Center, Extension activity Centre, NSS and NCC offices and Air conditioned Gymnasium.
- An air conditioned auditorium equipped with audio visual facilities, for seminars and conferences.

First Floor:

- The college office which extends into the extension building
- Two large class room and girl's common room
- Biology department (Botany and Zoology)
- Four Laboratories
- Air conditioned Instrument room
- Departmental library
- Computer and Internet facility, Facility for making and usage of audio visual aids
- Museums
- Staff room with HOD cabin, microwave oven and water purifier for water

Second Floor:

- Six large class rooms, one small class room
- Drinking water facilities with water purifiers
- Boys washrooms
- Physics Department
- Three well equipped laboratories.
- Dark room for experiments
- Research area.
- Computers for students with connectivity.
- Departmental library.
- Staff room, with HOD cabin, microwave

Third Floor:

- The Library is on the third and fourth floors and

the extension wing. Library has a large collection of books and for the convenience of the user, the collection is segregated into active and passive collection (Passive collection is stored on the ground floor and retrieved on request).

- A reading room with audio visual aids
- Seven classrooms of which five are large and two are small.
- Maths Laboratory equipped with computers, printers, departmental library and connectivity.
- Departmental library for Marathi and Philosophy departments, M.Com., ICWAI
- Drinking water facility with water purifier.
- Computer Laboratory with computers, printers, scanner, server and internet connectivity, Language lab.

Biotechnology Department:

- Two laboratories with facilities for microbiology work.
- Central Instrumentation center with sophisticated instruments,
- Bioinformatics Laboratory.
- Culture room for plant and animal cell cultures.
- Preparation room, store room.
- Animal House
- Autoclaving area and wash room.
- Two classrooms in extension building.
- Drinking water facility

Fourth Floor:

- Saraswati Temple
- Drinking water facility with water purifier
- Lunch room for supporting staff with drinking water facility with water purifier
- Air conditioned Staff Common room with comfortable seating for teachers' pantry with microwave Oven, refrigerator, water cooler with water purifier, Ladies and Gents' washrooms, and Refrigerator.
- Statistics Laboratory with computers and connectivity, departmental library.
- Air conditioned Plant Biotechnology Laboratory for research scholars with sophisticated instruments.
- Terrace garden
- Three class rooms.
- English department with departmental library.
- Departmental library for History and Political Science.
- Three big class rooms and two medium size class rooms.
- Office for Banking and Insurance with departmental library, computers with connectivity, printer.
- Extension building with two class rooms.
- BMS office with computer and internet.

- BMS departmental library.
- Economics departmental library.
- Air-conditioned Bajinath Saboo Hall, a shared facility

Fifth Floor

- Five class rooms for Computer Science and Information Technology.
- Drinking water facility with water purifier
- Nanotechnology research room
- Office for IT, Extension wing with two small class room
- Extension wing with computer lab for IT and electronics lab, wash room,
- Departmental library for IT.
- Washrooms
- Extension wing with two well-equipped computer labs
- Server room,
- Staff room, Wash room for girls
- Departmental library for computer science, Student and staff area.

B) Co-curricular activities:

- The air conditioned seminar room on the ground floor is a popular venue for almost all the co-curricular activities. It is equipped with audio visual aids, like speaker, microphones, tape recorder, TV, CD player, LCD and computer (CPU).
- It is booked by the teacher/ student in-charge to facilitate maximum utilization of the facility.
- A multifunctional air conditioned auditorium (MPSS Hall seating 175) is available in the extension building for conducting workshops/ seminars/ talks/ guest lectures at inter collegiate level.
- In case of inter-collegiate co-curricular activity where the participating students are more in number, we use the air conditioned Bajinath Saboo Hall (seating 600).

C) Extra-curricular activities and sports:

The Gymkhana is on the ground floor and the quadrangle between the school and college is utilized for outdoor sports like Badminton, Volley ball, Taekwondo, Karate and Roller skating. Summer camps are organized for students to train them and utilize their vacation in a meaningful manner.

The college encourages sports and sportspersons for team games and has a track record of good cricketers, Basketball players, excellence in Kabaddi and Kho Kho. This is possible because coaches are hired to train students and grounds are hired for these games. For indoor games there are carom boards, chess, table tennis and rackets for badminton. All accessories needed for basketball, volley ball, cricket, are available.

We have mats of International standards for Taekwondo and JUDO.

The air conditioned Gymnasium is equipped with training equipments for physical fitness. A qualified trainer is also available in the Gymnasium. Entire premise is under CCTV vigilance which has been installed in strategic locations to ensure safety.

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).

The principal and the management meet frequently and discuss the requirements which are needed in the rapidly changing academic scenario. These are prioritized and the facilities are upgraded in a phased manner. In the last four years the computers have been upgraded or new computers have been installed with higher speed and in view of the requirement of the curriculum. In view of securing the assets and ensuring the safety of the students and staff, the entire premises in under vigilance. CCTV has been installed in the campus, corridors, office, library and laboratories.

In one lab thirty computers have been installed with Linguaphone for learning of English language by the students. In keeping with the academic needs money has been invested in procuring audio visual aids like speakers, Television, LCD projectors, visualizers. Lab equipment's have been purchased as and when the curriculum is upgraded. The master plan of the college is enclosed asS Annexure XIII (pg. 277).

- In spite of additional FSI and construction of new extension building, space is a limiting factor. This calls for framing of the time table with utmost care.
- The working hours of the college extend from 6:45 am to 6:30 am for the degree college. While BMS students have a staggered timing of 2:30 pm to 8:30 pm.
- Most of the Commerce and Arts students work and prefer the college because of the convenient timings and location. Most of the days they have classes between 6:45 am to 10:15 am and some days till 11:30 am.
- The M.A. Hindi, English and M.Com. classes are held from 6:30 pm to 9:30 pm providing an opportunity for working students to ascend vertically.
- The Science students have classes or practical

spread from 6:45 am to 6:30 pm. Nevertheless the class time tables are compact to ensure optimum utilization of time and space.

- The postgraduate students and research scholars have access to laboratories on all days including vacations.
- The library facilities are extended during examinations and two classrooms are provided as reading room for students to study late hours and on holidays.

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The infrastructure of the college meets the requirements of differently-abled students by not only providing them a congenial atmosphere, but also:

- Provision of three lifts for easy access
- Railings and Ramps to get access to the lift
- Wheel chair
- Toilet for differently-abled students
- First bench marked for the differently-abled special students.
- Effort to make the library friendly for differently-abled students.
- Special software in computer for visually challenged individuals.

4.1.5 Give details on the residential facility and various provisions available within them:

- **Hostel Facility**
- **Recreational facilities, gymnasium, yoga center etc.**
- **Computer facility including access to internet in hostel**
- **Facilities for medical emergencies**
- **Library facility in the hostels**
- **Internet and Wi-Fi facility**
- **Recreational facility-common room with audio-visual equipments**
- **Available residential facility for the staff and occupancy Constant supply of safe drinking water**
- **Security**

There is no hostel or residential facility available on campus, but paying guest accommodation is made whenever the students demand which is very rare.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

- The college has a doctor on call on all days. In

addition special area is available for the sick till the doctor arrives

- Another physician is available on call. Dr. Ramanna has a dispensary behind the college and is available from 10:00 am onwards
- College vehicle is available on the premises to transport the student and staff to his/her residence in case of minor illness
- First aid kits are available in all the departments, staff rooms, office, girls and boys common room, WDC, NSS, NCC, Extension activity office
- Staff and students are trained in giving first aid
- All students of the college are covered under the students group insurance scheme.
- Our Institution has an agreement with Harshal Heart hospital which is within 1 km from the college. It is fully equipped including an intensive care Unit
- Due to the locational advantage, many hospitals are in close vicinity including a government run hospital in case of casualty.
- Many of the management members, including the Honorary Secretary, are doctors, Nidan diagnostic center managed by our alumni is a block away from the college which has its own ambulance service,
- Ambulance is also available on call
- Students have information on all emergency phone numbers which are prominently displayed. These include ambulance, fire, police, hospitals and doctors.
- Our Institution has a vehicle which is used when a student has to be taken to his/her residence if they fall sick after providing initial aid like rest
- Dr. Vipul Joshi an alumni who practices in Ghatkopar is available on call whenever required.
- Free medical checkup is conducted by the alumni doctors annually for the members of teaching and supporting staff including family members.
- Thalassaemia check and follow up counselling is done every year in collaboration with Rotary Club.

4.1.7 Give details of the Common Facilities available on the campus spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

- **IQAC:** A dedicated office area is provided for IQAC to work and also interact with each. The proximity to college office ensures their easy access to documents whenever needed. The office is provided with computer, printer and Wi fi connection
- **Placement Cell:** An office area has been provided for the placement office to interact with prospective employers. To interact with students and inform

them about forthcoming seminars and employment opportunities. he is provided with a computer, scanner, printer, photocopying machine and Wi fi connection.

Following offices have been provided to personnel's for carrying out their dedicated work. All offices have computer, internet connectivity, printer, required furniture and fixtures.

- **Hindi Centre:** Houses the Hindi departmental library and computers for teaching students computing in Hindi and Marathi language.
- **College Women Development Cell and Health Centre (CWDC):** For member of WDC to meet and discuss.
- **Counseling Cell:** For the counselor to sit and meet the students.
- **M.Com. Centre**
- **Extension Activity Unit:** Our college has an extension activity unit under the aegis of University of Mumbai Extension and Life Long Learning Unit.
- **NCC Office**
- **NSS Office**
- **Gymnasium:** Air-conditioned with equipment's for Physical fitness and has a qualified trainer.
- **Gymkhana/ Boys Common Room** with recreational facilities like carom, chess, table tennis. There are world class mats for JUDO, Taekwondo, Boxing and Kick Boxing. Quadrangle is used for these activities and also for Volley ball practice.
- **Girls Common Room** for girl students is located on the first floor. Clean washrooms are provided for girls on the ground floor, first floor and fifth floor. Effort is underway to construct one more facility on the fourth floor.

Every floor has one or more drinking water coolers attached with a water purifier. The department of Biotechnology checks the quality of water quarterly to ensure safe drinking water is provided to the students. Canteen provides tea and subsidized snacks. The Principal's office is attached with a small conference room for conducting meetings including that of the grievance redressal cell. There is a seminar room of 150 capacities for conducting the activities of the various associations and seminars of the career and placement cell. Two air conditioned auditoriums of varying capacity are available (175 and 600 seaters) to conduct seminars and workshops at intercollegiate level. The spacious office is designed in a way to provide quick and speedy service (QSS) to the students with minimum waiting time. All service counters are properly labelled to inform the students about the service provided by the counter and timings. Our institution implements visual management to facilitate all our services and processes.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, there is a library committee which has the Librarian, Assistant Librarian, Principal, Vice Principals, four teachers and one student member. They meet and plan for the annual activities conducted by the library and also discuss the recommendations made for book purchases. The Principal, Vice Principals, Heads of departments recommend books to be purchased for the library. This is done in consultation with the departmental colleagues and recommendations from the students. With changing times the library has emerged as an important learning resource which is in tune with the needs of the learner. The library advisory committee functions to upgrade the library to make it more students centric and to encourage self-learning among the students.

The members of the committee look after specific areas like digital collection, memberships from organizations like British Council and American Library, selection of student for best user award, organization of workshops for librarians, library supporting staff, book talks, book reviews, clippings, careers to be displayed on notice board, e-learning material, updating departmental library, book reviews etc. Students are an important part of the advisory committee.

4.2.2 Provide details of the following:

Total area of the library: 4000 sq. ft.

Total seating capacity: 240 for students and 12 seats for Teaching Staff.

Working hours (on working days, on holidays, before examination days, during examination days, during vacation): 10 Hours.

Reading room facility: Additionally two class rooms are provided for extended timings on all days.

Layout of the library: The library has stacking area, reading area for students and staff. An IT zone for computer aided searches and also for browsing and accessing e-resources. There is a reading area provided with audio visual aids. The librarian screens films of educational and social relevance. Most of the departments have a departmental library to facilitate open access for the students.

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

The library personnel brings to the notice of the concerned department information about current titles, important journals by way of online searches, circulating books received on approval, recent catalogues received in print or electronic form, book reviews, current periodicals, book exhibitions recommendations from academic peers, teachers, students and other users. The amount spent on library books and journals during last four years is on an average Rs. 4.0 lakhs which excludes fund received from UGC. In addition to the central library most of the departments have departmental library for the students and staff.

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- **OPAC:** The library is automated using the INFLIBNET SOUL software. Four terminals are provided with OPAC in the library.
- **Electronic Resource Management package for e-journals:** D Space, an Open Source Software is used to manage e-resources. INFLIBNET's NLIST is used to provide federated searching tools articles in multiple data bases.
- **Federated searching tools to search articles in multiple databases:** Yes
- **Library website:** The library website is linked to college website provided information about the

| Library holdings | 2009-10 | | 2010-11 | | 2011-12 | | 2012-13 | |
|--------------------------|---------|------------|---------|------------|---------|------------|---------|------------|
| | Number | Total Cost | Number | Total Cost | Number | Total Cost | Number | Total Cost |
| Text books | 807 | 961941 | 950 | 1138705 | 733 | 818535 | 943 | 839922 |
| Reference Books | 63 | | 55 | | 84 | | 65 | |
| Other General Ref. Books | 2552 | | 2088 | | 1612 | | 1764 | |
| Journals/ Periodicals | 36 | 38000 | 40 | 37005 | 45 | 72618 | 52 | 55102 |
| Popular Magazines | 60 | | 72 | | 74 | | 76 | |
| e-resources | 16 | | 05 | | 30 | | 15 | |
| Any other News Papers | 12 | 2000 | 12 | 2000 | 15 | | 15 | 2500 |

library resources and services rendered by the library.

- **In-house/ remote access to e-publications:** Internet provided in the library helps users have an access to In house as well as remote publications.
- **Library automation:** Yes
- **Total number of computers for public access:** 06
- **Total numbers of printers for public access:** Prints given on demand
- **Internet band width/ speed:** 4 mbps
- **Institutional Repository:** Under progress
- **Content management system for e-learning:** Yes
- **Participation in Resource sharing networks/ consortia (like INFLIBNET):** Yes

4.2.5 Provide details on the following items:

- **Average number of walk-ins:** 300-350 users
- **Average number of books issued/ returned:** 200-250 books/ documents
- **Ratio of library books to students enrolled:** 10:1
- **Average number of books added during last three years:** 10,000
- **Average number of login to opac (OPAC):** 20-25
- **Average number of login to e-resources:** 5-10
- **Average number of e-resources downloaded/ printed:** 10
- **Number of information literacy trainings organized:** Provided once in a year.
- **Details of "weeding out" of books and other materials:** As per weeding policy

4.2.6 Give details of the specialized services provided by the library:

- **Manuscripts (few):** Yes
- **Reference:** Yes
- **Reprography:** Yes
- **ILL (Inter Library Loan Service)**
- **Information deployment and notification (Information Deployment and Notification) through display board, emails etc.:** Yes
- **Download (on demand):** Yes
- **Printing (on demand):** Yes
- **Reading list/ Bibliography compilation:** Yes (on demand)
- **In-house/ remote access to e-resources:** Yes
- **User orientation and awareness:** Yes
- **Assistance in searching databases:** Yes
- **INFLIBNET/ IUC facilities:** Yes

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

- **The newly enrolled students are given orientation about facilities and services:** Yes
- **They are taken on a visual tour in groups to familiarize them about the various sections of the**

library: Yes

- **Training to retrieve information from the library:** Yes
- **Display of new arrivals of books:** Yes
- **Display of list of new arrivals:** Yes
- **Display of Journals/periodicals:** Yes
- **Book exhibitions are held every year:** Yes
- **They help students in searching references for projects and assignments:** Yes.

Monthly library updates, which include new arrivals, list of periodicals indexed, book reviews are displayed on the notice board and also provided through email.

| Services Provided | Average no. of books issued/returned |
|---|--------------------------------------|
| <i>Circulation of books</i> | |
| Students | 200-250 |
| Staff | 20-25 |
| <i>Circulation of Periodicals</i> | |
| Students | 20-25 |
| Staff | 10-15 |
| <i>Circulation of E-Resources</i> | Approx. 5-8 |
| <i>Current Reading</i> | |
| Textbooks & Refs | 150 |
| Queries for project work | 20-25 |
| Queries by staff | 5-10 |
| Internet Surfing | 15-20 |
| Daily users to the library (in two shift) | 300-350 |
| Non R.J. Members | 20-25 |

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

- **Seating:** Priority seating arrangement at the entrance. Zero waiting time for issue and return of books etc.
- **Software:** JAWS installed to help read and enlarge the text for partially visually/hearing impaired students of the college.

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)

- **Feedback** obtained by the librarian through personal interviews and written suggestions dropped in the suggestion box.
- **Student satisfaction survey** is conducted every year which is analysed to improve the library facilities and services.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the institution.

- Number of computers with Configuration (provide actual number with exact configuration of each available system)
- Computer-student ratio
- Standalone facility
- LAN facility
- Licensed software
- Number of nodes/computers with Internet facility
- Any other

All departments are provided with internet connectivity. Staff room, office and Biotechnology laboratory have Wifi hubs. We have applied for a dedicated lease line to MTNL and modems for the same have been purchased. In the IT and computer labs each student is provided with a computer and they are allowed to use the lab for extended timings to do project work. In additional office has an external drive for taking backups on a regular basis.

A floor and department-wise list of the computing facilities available is provided in the following table.

List of computing facilities in the college

| Sr. No. | Computer/ Printer/ Network Switch | Configuration | Total |
|--|-----------------------------------|---|----------------|
| Fifth Floor | | | |
| <i>Computer Science Department Laboratory 1</i> | | | |
| 1. | Desktop computers | Intel Core 2Duo 2.4GHz | 40 |
| 2. | Printer | Samsung ML 2550 Laser jet | 02 |
| 3. | Internet facility | D Link Networks 1GBPS | 03 |
| 4. | Voltage stabilizer | 30KVA | 01 |
| <i>Computer Science Department Laboratory 2</i> | | | |
| 1. | Desktop computers | Intel core I3 2GB 2.1GHz | 48 |
| 2. | Printer | Samsung ML 2550 Laser jet | 02 |
| 3. | Internet facility | D Link Networks 1GBPS D Link Networks 2GBPS D Link Networks 100MBPS | 01 01 01 |
| 4. | Voltage stabilizer | 30KVA | 01 |
| 5. | Internet facility | | |
| <i>Computer Science Department (Server room)</i> | | | |
| 1. | Server | Pentium 4 3GHz | 03 |
| 2. | Server | Intel Core 2Duo 2.9GHz | 03 |
| 3. | Server | HP Xeon 3040 | 01 |
| 4. | Laptops | Acer, Compaq and Lenova | 04 |
| <i>IT Laboratory</i> | | | |
| 1. | Desktop computers | Intel Core 2Duo | 65 |
| 2. | Printer | HP Laser jet | 01 |
| 3. | Internet facility | D Link Networks 1GBPS | 02 |

| Sr. No. | Computer/ Printer/ Network Switch | Configuration | Total |
|--|--|--|----------|
| 4. | Desktop computer with multimedia, speaker, scanner for content development and associated software | | 03 |
| 5. | Printer | HP Laser jet | 01 |
| Fourth Floor | | | |
| <i>BMS Department</i> | | | |
| 1. | Desktop computers | Intel Dual Core 2GHz | 03 |
| 2. | Printer | HP Laser jet Epson LX 300 | 01 01 |
| 3. | Laptops | | 02 |
| 5. | Internet facility | D Link Networks | 01 |
| <i>Banking and Insurance Department</i> | | | |
| 1. | Desktop computers | Intel Pentium 4 3 GHz | 06 |
| 2. | Printer | HP Laser jet 1022 | 02 |
| 3. | Laptop | | 01 |
| 4. | Internet facility | D Link Networks | 01 |
| <i>Staff Room</i> | | | |
| 1. | Desktop computers | Pentium IV, 2.6GHz Intel Dual core 2.8GHz | 02 03 |
| 2. | Internet facility | WiFi D Link Networks | 01 01 |
| 3. | Printer | HP Laser jet | 01 |
| <i>Plant Biotechnology Research Laboratory</i> | | | |
| 1. | Desktop computers | Pentium IV, dual core, 1GB RAM, 160 GB HDD | 01 |
| | | Pentium III 128MB RAM, 20GB HDD | 01 |
| 2. | Printer | Samsung ML-16 | 01 |
| 3. | Scanner | HP | 01 |
| 4. | Voltage stabilizer | 30KVA | 01 |
| <i>Statistics Laboratory</i> | | | |
| 1. | Desktop computers | Pentium IV, 2.93GHz Intel Dual Core 2GHz | 03 05 |
| 2. | Printer | HP Laser jet 1007 HP Laser jet All in one | 01 01 |
| 3. | Internet facility | D Link Networks | 01 |
| 4. | Laptop | HP | 01 |
| <i>English Department</i> | | | |
| 1. | Desktop computers | Pentium IV 3 GHz | 01 |
| 2. | Printer | HP Laser jet All in one | 01 |
| <i>Sociology, Geography, Commerce & Economics Department</i> | | | |
| 1. | Laptops | | 04 each |
| Third Floor | | | |
| <i>Biotechnology Department</i> | | | |
| 1. | Desktop computers | Intel Core 2 Duo , 2.8GHz Pentium IV 1.6GHz | 09 02 |
| 2. | Printer | HP Laser jet 1022 Samsung ML 101P | 01 01 |
| 3. | Scanner | HP | 01 |
| 4. | Laptops | Acer, Compaq, Samsung | 03 |
| 5. | Internet facility | WiFi D Link Networks 1GBPS | 01 01 |
| 6. | Voltage stabilizer | 30KVA | 01 |

| Sr. No. | Computer/ Printer/ Network Switch | Configuration | Total |
|--|--|---|----------------------------|
| <i>Computer Laboratory</i> | | | |
| 1. | Desktop computers | Intel I V | 30 |
| 2. | Server (Central connectivity in the college) | Intel Dual Core | 01 |
| 3. | Printer | HP laser jet Epson | 01 01 |
| 4. | Scanner | | 01 |
| 5. | DLINK Switch | | 03 |
| 6. | DLINK Broad band connection | | 01 |
| <i>Mathematics Laboratory</i> | | | |
| 1. | Desktop computers | Pentium IV, 2.6GHz | 04 |
| 2. | Printer | HP Laser jet | 01 |
| 3. | DLINK switch | | 01 |
| <i>Library</i> | | | |
| 1. | Desktop computers | Intel Dual Core Intel Core 2 Duo Intel I 3 Intel I 7 Pentium IV | 04 02 01 01 01 |
| 2. | Printer | HP deskjet HP laser jet HP all in one (with reprographic facility) | 01 01 01 |
| 3. | D Link switch | | 01 |
| 4. | Head phones | | 03 |
| <i>Second Floor</i> | | | |
| <i>Physics Laboratory</i> | | | |
| 1. | Desktop computers | Pentium IV | 05 |
| 2. | Computing facility for research | Core 2Duo Pentium IV | 03 01 |
| 3. | Printer | HP laser jet Color HP Laser jet | 01 02 |
| 4. | DLINK switch | | 01 |
| 5. | UPS | | 02 |
| 6. | Laptop | HP | 03 |
| <i>First Floor</i> | | | |
| <i>Biological Sciences Department (Botany and Zoology)</i> | | | |
| 1. | Desktop computers | Pentium IV Intel Core 2 Duo | 06 01 |
| 2. | Printer | HP laser jet | 03 |
| 3. | DLINK switch | | 01 |
| <i>Office</i> | | | |
| 1. | Desktop computers | Pentium IV Intel Core 2Duo Intel Dual Core | 13 05 04 |
| 2. | Server | Intel Xeon 1.8GHz | 02 |
| 3. | Printer | HP laser jet Dot matrix HP Laser Jet Network HP Printer All in one | 12 04 01 01 |
| 4. | DLINK switch | | 03 |
| 5. | Scanner | | 04 |
| <i>Principal's Office</i> | | | |
| 1. | Laptop | Acer | 01 |
| 2. | Printer | HP | 01 |

| Sr. No. | Computer/ Printer/ Network Switch | Configuration | Total |
|--------------------------------|--------------------------------------|---------------------------------------|----------|
| <i>Vice Principals Offices</i> | | | |
| 1. | Laptop | | 02 |
| <i>Placement Cell</i> | | | |
| 1. | Desktop computer | Intel Core I5 | 01 |
| 2. | Printer | HP Color Laser Jet | 01 |
| <i>IQAC</i> | | | |
| 1. | Desktop computer | Intel Dual Core2Duo | 01 |
| <i>Ground Floor</i> | | | |
| <i>Chemistry Department</i> | | | |
| 1. | Desktop computer | Pentium IV Pentium Intel Dual Core | 01 01 |
| 2. | Desktop computer | Pentium (Research lab) | 01 |
| 3. | Printer | | 03 |
| 4. | Laptop | | 03 |
| 5. | D Link Switch | | |
| <i>Gymkhana</i> | | | |
| 1. | Desktop Computer | Intel Dual Core | 01 |
| 2. | Printer | HP Laser jet | 01 |
| <i>Seminar Room</i> | | | |
| 1. | Desktop Computer with wireless mouse | Pentium IV | 01 |
| <i>Staff Area</i> | | | |
| 1. | Desktop Computer | Pentium IV | 01 |
| <i>Hindi Centre</i> | | | |
| 1. | Laptop | | 01 |
| 2. | Desktop Computer | Intel Dual Core Pentium IV | 01 02 |
| <i>Counseling Cell</i> | | | |
| 1. | Desktop Computer | Pentium IV | 01 |
| <i>Extension Activity Unit</i> | | | |
| 1. | Desktop Computer | Pentium IV | 01 |
| 2. | Printer | HP Laser Jet | 01 |
| <i>NCC</i> | | | |
| 1. | Desktop Computer | Pentium IV | 01 |
| <i>NSS</i> | | | |
| 1. | Desktop Computer | Pentium IV | 01 |

4.3.2 Is there a central computing facility? If yes, how is it utilized for staff to students?

The central computing facilities are with the departments of Computer Science and Information Technology. They are used by the students and staff for the teaching learning process. Additionally, the facility is also used for preparation of teaching material.

4.3.3 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- Free internet facility is provided to the staff and students in the library, BMS, BBI, IT, Physics, Biology, Computer laboratories and research centers
- The Staff room, Biotechnology laboratory and office

have Wifi connection.

- We have dedicated lease line from MTNL to get dedicated internet services at a greater speed. In addition we also have internet card from service provider like IDEA to meet with any emergency.

4.3.4 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

- The rapid progress in technology has resulted in upgradation of computers almost annually. The institution makes provision in the annual budget for updating of its computer systems.
- Annual maintenance and resident service engineers.
- There are five skilled technicians on the payroll of the college.

4.3.5 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years).

| Year | Computer (Procurement/ Maintenance/ Upgradation) |
|------|--|
| 2012 | 181123 |
| 2011 | 273745 |
| 2010 | 927849 |
| 2009 | 171198 |

4.3.6 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?

- Class rooms equipped with projectors, visualizers, TV, screens and internet access
- Library with computers for using e resources
- Bioinformatics laboratory with 9 computers
- Language laboratory with 30 computers.
- All departments have computers with connectivity
- Language department with computer for learning Hindi and Marathi fonts
- Editing pictures with Adobe photo shop
- Using macromedia flash to create animations.
- Video conferencing using Skype
- Power point presentations

4.3.7 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/ learning spaces etc.) by the institution place the student at the center of teaching-learning process and render the role of a facilitator for the teacher.

Teachers are trained in usage of computer aided teaching. Students are also trained to use learning resources, open course ware. Students are allotted seminar topics which they present using ICT. This also encourages self-learning and builds confidence in them. College has provided all the departments with Laptops, white screen and LCD projectors. Some class rooms are provided with LCD screens. The auditoriums are equipped with audio visual aids. All teachers encourage the students for independent learning. Assignments and project work guided by teacher mentors has further emphasized the role of the teacher as a facilitator.

4.3.8 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

Yes, through University of Mumbai.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

| | 2012-13 | 2011-12 | 2010-11 | 2009-10 |
|-------------------------|---------|---------|---------|---------|
| Furniture | 3323107 | 3177687 | 722963 | 3053917 |
| Equipment | 1260277 | 1325995 | 1291510 | 975641 |
| Computers | 181123 | 273745 | 927849 | 171198 |
| Repairs and maintenance | 1887624 | 2403731 | 1617287 | 739110 |

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- The infrastructure is maintained by a team of skilled personnel which includes carpenters, electrician, mason, construction workers, plumber, and painters. This team is generally available on the premises or they are readily available on call. The phone numbers are available in the office with the head peon who receives the complaints, and coordinates the maintenance work. The IQAC has initiated a system of maintaining a register to write down any problem of light, fans, water leakage etc.
- The computers and sophisticated instruments are either under AMC or there are 5 residential technical persons available on campus for computer maintenance.
- We have regular vendors available on call and they are contacted by the Laboratory Assistance and the

Departmental Head's.

- Some of the supporting staff who are appointed by the college are also trained in electrical, plumbing work to meet any immediate emergencies.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

Calibration and precision measures for the equipment's/instruments are done almost on a daily basis. Staff members are assigned duties to assist the lab assistants in ensuring that the instruments are maintained properly and calibrated on a daily basis.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- Air conditioned laboratories are provided for instruments which need a controlled environment.
- Dust free areas are identified for sensitive equipment
- Power supplies with stabilizers are installed to take care of voltage fluctuations.
- Computers are provided with UPS to take care of data in case of emergency.
- BMC is the major supplier of water and the college has storage tanks of different capacity to ensure constant water supply. There is a mechanism for conserving water using a ring well which provides additional supply for washrooms and plants.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

Optimum utilization of space and resources is practiced in our Institution. We believe in taking care of all the assets which we have procured by maintaining them properly, upgrading as and when required and making them available to our students and staff members and to some extent to the society. Our library is used by faculty from other colleges for reference work and our reading rooms provide the academic ambience for the student of our college and also to students from other institutions.