

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1

The Institution has adequate infrastructure and other facilities for,

- teaching – learning, viz., classrooms, laboratories, computing equipment etc
- ICT – enabled facilities such as smart class, LMS etc.

Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)

Response:

- Brahmananda Keshab Chandra College covers a total area of approximately 6 acres. It comprises of a three storied main building, an Annex building, a three storied Women's Hostel, staff quarters and a large, fenced, lush green playground, measuring about 8651 sqmts. The buildup area accounts for 5367 sqmts. which includes the main building, annex building and the Women's Hostel.
- The campus is under CCTV surveillance and is enabled with Wi-Fi connectivity. Attendance of all staffs is maintained through Biometric System. Availability of EPABX facility for internal communication.
- There are 39 well ventilated and Wi-Fi enabled classrooms, of which 12 classrooms have ICT facility with fixed projection system and two are smart classrooms. There are 2 movable-projectors which are used as and when required. Large classrooms are used for organizing seminars/conferences, university-examinations. Amongst the 39 classrooms, 5 were added in this tenure to cater to the class requirements as per CBCS-curriculum. An ICT-enabled Conference Room is available for holding meetings.
- Science departments possess a total of 20 well-equipped laboratories including the computer laboratories. The departments of Physics, Mathematics, Computer science, Fishery Science, Chemistry, Zoology, Botany and Molecular Biology and Biotechnology have 4, 1, 1, 1, 5, 2, 5 and 1 laboratories respectively. Sufficient number of instruments were purchased for the commencement of Postgraduate course in Physics in this tenure and also the Hiralal Chaudhury Laboratory was established by the department of Fishery Science.
- The college boasts of a Central instrumentation Facility funded by DBT-BOOST equipped with sophisticated instruments for research for all life science departments and a well-equipped Chemistry research laboratory funded by UGC.
- The college has gained authorized subscription for G-suite and Zoom for conducting online classes, examinations, events, and meetings etc. especially during the COVID-19 pandemic period. The college has its YouTube channel (https://www.youtube.com/@bkccollege_classroom1687), a facebook (<https://www.facebook.com/profile.php?id=100064008216899&mibextid=ZbWKwL>) and an instagram account (https://www.instagram.com/bkc_college?igsh=MXh3b3RkNjVxbHF1MA==) and a twitter handle (<https://twitter.com/BKCCollege>) of its own.
- The Central library is automated and has a huge collection of books (18755) including rare books and is also subscribed toN-LIST. All departments have seminar libraries with books of regular

need.

- There is a gymnasium (33.5 sqm), a two-wheeler stand, a canteen facility and common rooms for boys and girls with facilities of indoor games. West Bengal State University hosted an inter-College Table tennis and Chess competition in 2018-19, 2019-20 using this infrastructure.
- The Janaki Ammal Sacred Grove is maintained as a carbon sink along with a medicinal garden beside it. Solar panels (15 KWP) in the roof-top for eco-friendly renewable energy source, a Rainwater harvesting system for water conservation and a Vermicomposting pit are available.
- There is a Reprographic Centre and a Backup generator facility (24KW).
- Wheel chair and ramp for differently abled persons, separate PWD toilets for men and women and sanitary napkin vending machine in women's toilet are available.
- There is an incubation centre for mushroom culture, an office each for the Career Counselling and Placement Cell, Institute Innovation Cell and NSS Unit.

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4.1.2

Percentage of expenditure for infrastructure development and augmentation excluding salary during the last five years

Response: 19.58

4.1.2.1 Expenditure for infrastructure development and augmentation, excluding salary year wise during last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
27.02	20.15	3.76	6.67	12.81

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for infrastructure augmentation should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.2 Library as a Learning Resource

4.2.1

Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students

Response:

The Central Library, located in 2nd floor is spacious covering an area of 157.8 sq mts with approximately 18755 books, including good number of rare and old books. The number of books in the library is on the increase owing to annual purchases, keeping in view the changes brought about in the syllabi of various subjects and the needs of the students. Moreover, departmental libraries are there for each department. From 2018 to 2023 library procured 399 books, received 133 books as donation and 1044 books through UGC Research Projects of faculties. The library is open during usual college hours.

The Library has reading space which is used by students and faculties. There is a separate display for newspapers and separate almirahs for stacking of journals.

Library Automation

- Library is automated fully using ILMS Koha software (3.14 version) which was installed in 2016. Recently the software has been upgraded to Version 23.05.04.
- This software has been cloud hosted in 2022. The entire library collection is being processed into the database.
- In the month of February 2023 OPAC (Online Public Access Catalogue) service has been introduced to our members. Through this they are able to know which books are available in our college library.
- Automated circulation of books for users has been initiated from 06-02-23.
- Automated Library attendance is mandatory for library users, initiated in the month of February 2023.

Access control system

- The entire library (Reading Room & Stack Room) is under CCTV surveillance.
- Library is enabled with LAN, Internet connectivity and Wi-Fi system.

E- Services

- Our college has continuous institutional membership of N-List and students and teachers can use e-Journals & e- Books services through it.

Book Fairs and Seminars:

- A book fair (30.07.19 ? 0308.19) was organized in the library reading room in collaboration with IQAC where Parul Prakashani, a leading publisher participated. The library as well as many

students and teachers purchased books according to the needs.

- To educate our students and faculties towards new books on their subjects a book fair was arranged for two days (11th & 12th May 2023). Total 9 publishers (Paschimbanga Itihas Sansad, Alphabet, K.P.Bagchi, Setu, Book Post, Progressive, MRP Book Distributor, Books & Allied LTD., Avenel) displayed their books on various subjects.
- To celebrate World Books & Copyright Day (23.04.2023) the History Department and The Library of our college and PCM Mahavidyalaya in collaboration with Paschimbanga Itihas Sansad organized a Seminar on the topic “Past & Preserve: Use of modern technologies in archives and library”.

Library Induction Program

The Central Library had arranged an induction program for 1st Semester students of the session 2023-2024 on 10th August'23. They were given 'Hands-On' training on computerized attendance system and searching process of books through OPAC.

Training programs for Library Automation Software 22-23

Two training programs on 5th July 2022 and on 5th January – 6th January 2023 were conducted by Avior Technologies pvt ltd which were attended by faculties and library staff.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

4.3 IT Infrastructure

4.3.1

Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

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

Response:

Brahmananda Keshab Chandra College consistently emphasizes on providing adequate IT facilities for academic as well as administrative support and ensures maintenance and up-gradation of these facilities. Around 7.64 % of total expenditure is used for this purpose.

- **Network and Connectivity:**

Main building and annex building is currently enabled with internet services of 100 Mbps bandwidth working with a system of 22 routers. Parallel services are taken from Alliance and BSNL broadband for better connectivity. Separate services from Alliance broadband are provided to Women's Hostel. Computers of Principal's Office, student's section, Library and different departments are also supported by LAN facilities. An EPABX system with 25 receivers is available. All these are duly monitored by technical assistants.

- **Vigilance**

A total of 37 CCTV cameras are installed in the campus and Women's Hostel for better surveillance. Attendance of Staffs are monitored through the biometric system.

- **ICT and Computer Facility**

The College has a total of 14 ICT enabled classrooms including 2 smart rooms and also a Conference room. This facility has been increased over the years with only 9 ICT-enabled rooms that were present in 2018-2019. Additionally, we have 2 movable projectors which can be used as and when required.

The College has a total of computers, of which 41 are used for students as well as faculty. During the last 5 years we have added a total of 17 desktops and laptops to the existing ones. Computers and printers were purchased from the MPLAD fund for commencement of Post Graduate course in Physics.

Old and irreparable computers and other e-wastes were discarded through Hulladeck in 2022-2023.

- **Softwares and e-resources**

The College Automation System (CAS 7.1) developed by Aidni Infotech Pvt. Ltd is used for admission and student administration and Online Admission Software (OAS) is used for the admission of 1st semester. Post graduate result is prepared in Smart ERP module.

The College accounts are maintained by Tally Prime. To access this software remotely Biz-Analyst, an add-on software for Tally Prime was purchased during pandemic.

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The College had been registered with G-Suite (08.09.2020) and ZOOM software (18.09.2020) and also with a YouTube channel (https://www.youtube.com/@bkccollege_classroom1687) in 2020 which were extensively used during the Pandemic.

College has an online Feed-Back system for stake holders.

- **Website**

The website of the college (www.bkccollege.org) was upgraded to a new website with a new domain

name (<https://bkcc.ac.in/>) in 2022-2023. This website is maintained by Infotech-lab under the guidance of the web-site subcommittee.

AMC services:

The AMC services of different software, computers, water filters, CCTV, EPABX, AC machines, pest control and sophisticated instruments are renewed annually.

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4.3.2

Student – Computer ratio (Data for the latest completed academic year)

Response: 13.63

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 41

File Description	Document
Purchased Bills/Copies highlighting the number of computers purchased	View Document
Extracts stock register/ highlighting the computers issued to respective departments for student's usage.	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1

Percentage expenditure incurred on maintenance of physical facilities and academic support facilities excluding salary component, during the last five years (INR in Lakhs)

Response: 8.27

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

2022-23	2021-22	2020-21	2019-20	2018-19
9.199	6.70	6.60	3.19	4.06

File Description	Document
Institutional data in the prescribed format	View Document
Audited income and expenditure statement of the institution to be signed by CA for and counter signed by the competent authority (relevant expenditure claimed for maintenance of infrastructure should be clearly highlighted)	View Document
Provide Links for any other relevant document to support the claim (if any)	View Document