ST. XAVIER'S COLLEGE (AUTONOMOUS), KOLKATA

RUSA-2

[UNDER COMPONENT -8]

DETAILED PROJECT REPORT

(REVISED: 28-09-2018)

A Brief History of the St. Xavier's College, Kolkata

A host of seven Belgian Jesuits arrived at Calcutta in November 1859, under the leadership of Fr. H. Depelchin (Rector: 1860-1871), in the Founding Father of the second St. Xavier's, They shifted St. Xavier's from Chowringhee to the Sans Souci Theatre in January 1860, which is now the honest home of learned professors and zealous students.

With one hundred and fifty two years of service to the nation, St. Xavier's College, Kolkata, has grown today into a leading educational institution in India. Both St. Xavier's School and College are proud of their contribution to the cause of education and culture in Bengal for 152 years. These twin institutions have produced many great educationists and students who earned regard and respect for their Alma Mater.

Fr. E. Lafont was appointed Rector in October 1871, He was a gifted teacher of physics. The terrible cyclone of November 1864 proved the begging of his fame. The catastrophe might have been much greater, had not Fr. Lafont signaled the timely warning.

It was Fr. O'Neill (Rector: 1904-1913) who gave the College its crest and the motto: Nihil Ultra, a motto, significant and suggestive of a noble ideal, of an unconquerable hope, that urges the Xaverian to a consistent quest for the higher. The motto of the young Xaverian is the old maxim : " Perfectum nihil est, aliqiriddum restat agentiim" (Nothing is Perfect as long as anything remains to be done).

St. Francis Xavier is the Patron of St. Xavier's College. There is not an educated Indian who has not heard the name of Francis Xavier. It is to India that Ignatius of Loyola, the Founder of the Society of Jesus, sent his greatest son, Francis Xavier in 1542. Xavier was a zealous "missionary on the move". He sailed to Malacca and Japan in 1549 where he spent two and a half years. In April 1552 he set sail to China via Malacca from Goa, never to return alive. He died at Sancian, a small island facing china, on 2 December 1552. Wherever he went, he plunged himself into charitable and pastoral work preaching the message of God's love to people. He worked in India for 10 years from 1542 to 1552, called the Xaverian decade.

The list of the old students of St. Xavier's includes many scientists, actors, film makers, poets and industrialists in Bengal. It can boast of some of its pupils who became international figures of repute: Rabindranath Tagore and Jagadish Chandra Bose. While Tagore was impressed by the relationship between teachers and students at St. Xavier's, Bose found encouragement for his introduction to science in the person of Fr. Lafont, who was called "the father of science" in India. Three chief ministers of Bengal - H. S. Suhrawarby, Siddhartha Shankar Ray and Jyoti Basu passed through the portals of St. Xavier's. You will invariable come, across, in any important office in Kolkata, a Xaverian who has excelled in his field.

St. Xavier's has always been known for his cosmopolitan and national character. Much before the expression "national integration" gained currency, St. Xavier's had tried to foster among its students the spirit and practice of it. Coming as they do from all over India and from various communities, they live in complete harmony, understanding and mutual respect. Thus they are encouraged to develop beyond local and group affinities, loyalties to the country and the society at large.

The National Assessment and Accreditation Council (NAAC) recognized St. Xavier College as an "A" grade institution in 2003. In May 2006, it was declared a College with Potential for Excellence by the UGC. From July 2006, it became an Autonomous College (the first in West Bengal). In 2011, NAAC assessed St. Xavier's as an Autonomous College with a CGPA of 3.53 on a scale of 4. In 2012 UGC team visited the college. The team granted the renewal of Autonomy. St. Xavier's College has purchased 17 acres of land at Rajarhat and has taken possession of the property. The foundation stone at Rajarhat was laid by the Honorable Chief Minister of West Bengal, Ms Mamta Banerjee on 27th December, 2013. His Grace Archbishop Thomas D'Souza blessed the foundation stone and Fr. Jeyaraj Veluswamy SJ. Provincial blessed the site.

In March 2014 St. Xavier's has been honoured with the status of "College of Excellence". In July 2014 the rural face of St. Xavier's set up the campus at Raghabpur, South 24 Parganas - The College offers courses in B. Com Honours, Bengali Honours and BA General. An Honours course in History will be offered from July 2015.

The EMMRC building at the EM By pass campus is another instance of the extension of the college. The newly constructed separate Boys' and Girls' Hostel at AJC Bose Road campus houses 200 boys and 150 girls. St. Xavier's has over these 156 years remained steadfast and persevered in the midst of troubles and anxieties. Now with all the richness of the past, it embraces the future with the same spirit- "Nihil Ultra" (Nothing beyond).

The Institution is affiliated to the University of Calcutta and currently has 17 undergraduate departments 5 Post Graduate departments 1 B.Ed Department 4 Ph.D. departments

The institution continually adopts new initiatives to improve its performance. Apart from its own plan, it tries to implement recommendations provided by NAAC. Post accreditation by **NAAC in 2017 with an A++ grade (3.77 on a scale of 4)** which was the highest in the country. The College relentlessly worked to implement the suggestions provided by the Peer Team. Several post-accreditation initiatives like new postgraduate courses to be introduced.

2. <u>INTRODUCTION</u>

A Christian Minority Higher Educational Institution, St. Xavier's was founded in 1860 by a Catholic Minority Religious body, the Society of Jesus, and was affiliated to Calcutta University in 1862. While preference is shown to the educational and cultural needs of the Minority community, admission is open to all irrespective of caste, creed and nationality.

The College has 8446 students. With the rapidly changing scenario, the College is aiming for academic diversification and expansion in the form of introducing new academic subjects and elevating several undergraduate departments to the postgraduate level. Under constant consideration is the continuous modernization of academic facilities.

St. Xavier's College offers UG and PG courses under five faculties : Arts, Science, Commerce, Business Administration, and Education. It also offers various professional certificate and diploma courses under Career Oriented Programmes and Computer Centre. St. Xavier's offers Ph.D in Physics, Biotechnology, Microbiology and Commerce.

1.   It has been found that the college requires **more space** to entail creation of new facilities in the form of technology enabled classrooms for interactive and participatory teaching learning process.
2.   **Upgradation of the existing infrastructural facilities** includes renovation of existing academic and administrative buildings.
3.   For development of **IT infrastructure**, the college requires more computers, networking devices and licensed operating system and software.
4.   **Upgradation of library software** is an essential need
5.   **Procurement of modern scientific instruments** and reference books
6.   **Procurement of modern scientific equipments** for sports facilities

Strength	Weakness
» Ongoing promotion of new innovative practices to make the institution relevant in its mission as an agent of social transformation. » Awareness building exercises to propagate eco-friendly consciousness. » Campus and neighbourhood cleanliness. » Medical Camps organised by Alumni association for Raghabpur and other rural centres. » One Computer laboratory functions solely on solar power. » Disposal of biological waste of laboratories after autoclaving. » Use of HEPA filter in all biological transfer experiments.	» Practical difficulty with implementation of innovative and best practices given the diverse nature of students. » Reluctance to practise innovative methods of teaching-learning.
Opportunities	**Challenges**
» Green Campus. » Centralized Solar Power generating System.	» To break free from the shackles of the old system. » To become pioneers and shepherds.

St. Xavier's College strives to revere and retain the past while reflecting on the present. Since it is no ordinary institute but the first Jesuit College in this part of the World it is only fitting that its students should not only be made aware of their glorious legacy but be encouraged to carry it forward. This may very well be facilitated by the grant received from RUSA-2

3. <u>INSTITUTION BACKGROUND</u>

Facility Details (basic overview of the current Infrastructure)

Academic

- Facility for pursuing postgraduate courses in five subjects
- Facility for pursuing undergraduate courses in 17 subjects
- Facility for pursuing B.Ed. course
- Internet facility in all departments, office, library
- Nine computer labs with LAN
- Computerised library services
- E-learning facility with INFLIBNET
- Doctor on call with infirmary facility
- Rare books and documents facilitating research work of both PhD and outside scholars.

Extra Curricular

- Two playgrounds are available within the campus where annual sports meet is conducted every year. There is Basketball Court in in the Campus where the students often play during leisure. The Students avail indoor games like carom and chess in the common Room.
- Programme like extension activities are held within the College Campus and Auditorium. To maintain rich cultural heritage of the College a number of cultural programmes including Convocation, Valedictory and Xavotsav are organised every year. Students actively participate in these programme.
- The College maintains a very active NSS unit. The students are motivated to participate actively in the programmes organised by the NSS unit. Health check up camp, blood donation camp are organised every year. NSS actively and regularly visit the various villages adopted by the College.
- It also offers various professional certificate and diploma courses under Career Oriented Programmes. Objective of this course is to create awareness, conviction and commitment of students to social and moral values for

improving the quality of life through education. A certificate is given to the students on completion of the course.

- To help the students keep up with the stress of daily living psychological counselling is offered by counsellor appointed by the College.

Other infrastructural facilities

- St. Xavier's College has a specious auditorium as well as open stage for academic and cultural activities.

- Student friendly canteen where healthy and hygienic food is served.

- Computer Centre and Cyber Room facilities

Courses Offered

Faculty	Department	UG	PG	Integrated PG
Science	Physics, Microbiology, Computer Science	√	√	
	Chemistry, Mathematics, Statistics, Economics, Microbiology, Biotechnology, Computer Science, BMM, Mass Communication,	√		
	Multi-Media, Biotechnology			√
Arts	English, Bengali, Political Science, History, Sociology, BA (Gen),	√		
Commerce	B.Com, BMS	√		
	M.Com		√	
Education	B.Ed.	√		

Number of Staff and Students :

A. Teaching Staff

Teaching Staff Sanctioned	Teaching Staff Filled	College created Teaching Staff	College created Teaching Staff Filled	Total
69	69	170	170	239

B. Non-Teaching Staff

Non-Teaching Staff Sanctioned	Non-Teaching Staff Filled	College created Non-Teaching Staff	College created Non-Teaching Staff Filled	Total
25	25	227	227	252

C. Total Number of Students in all Stream : 8446

4.   STAKEHOLDERS ANALYSIS

a)   **Key Stakeholders**

Our Key Stakeholders are the students and their guardians. Also included are teaching and non-teaching staff of the institution, alumni/ae endowment fund donors and above all the Department of Higher Education, Govt. of West Bengal.

Our students performs commendably in the Examinations. A large number of students secure First Class marks. They also involved in extra-curricular and co-curricular activities both in and outside of this college. The students mostly opt for higher education and several students of this College are involved in teaching and research. They routinely qualify in national and state level entrance tests as NET/SET/JAM/GATE and others.

The guardians of the students are always informed about the progress of their wards regularly. They are highly satisfied with the academic atmosphere of security and discipline in the College.

The Alumni Association is highly supportive and works in absolute synergy with the College for the enrichment and advancement of the students.

Our teachers are deeply engaged in teaching and research with a significant number pursuing funded research projects. Out of 239 teachers 102 teachers have doctoral   degrees. The Non-teaching staff of the college helps in the smooth functioning of the   College in the office as well as other departments.

Higher Education Department, Govt. of West Bengal renders full financial and administrative support to the College. The Institution is a Christian Minority under Non-Govt. Aided College (Pay Difference College) funded by the Govt. of West Bengal but partly provided by the College.

b) **Expectations and benefits**

The students and also guardians expect a holistic empowering education which would promote excellent vertical progression as per the legacy of the College. They would also look for a structural and intensive mode of teaching going beyond allotted classes along with mentoring. Counselling and placement. The guardians expect that the environment of security and academic excellence would be maintained in the College. Faculty members of each department interact with the students to get their perspective on the curriculum. Guardians/parents and other stakeholders who form an integral part of the institution are also invited for extending their personal opinions and suggestions regarding the enrichment of the curriculam. All these suggestions and views are integrated and analysed by each department and referred to the respective policy making bodies for consideration.

The teachers of the institution expect more academic and research opportunities to keep themselves updated with the latest innovations in their respective fields. Our non teaching staff look forward to working in an advanced technologically equipped office so that they can perform more efficiently and easily in a modernized and convenient way. All these expectations are being facilitated by the RUSA-2 funds.

5. Raghabpur Campus

Raghabpur Campus as part of vision 2020 – A significant achievement with regard to extension activities of St. Xavier's College (Autonomous) is the setting up of Raghabpur Campus. Raghabpur in South 24 Parganas, about 25 kms away from the main Park Street campus, caters primarily to the academic needs of the rural students. A sprawling green campus with the main building and other associated facilities, the Raghabpur campus offers courses in BA General, B. Com Honours and Bengali Honours to students since July 2014. Students of the Raghabpur Campus are integrally connected with diverse activities of the main campus as well as special programmes organized and held in Raghabpur campus itself. Another component of academic expansion in the Raghabpur campus is the introduction of the course in History Honours from July, 2015. Bridge Courses are being offered in some programmes of studies in the main campus and the Raghabpur Campus.

The addition of Raghabpur Campus has enabled admission of rural students and thereby helped in the creation of further space for academic expansion.

ADMISSION TO RAGHABPUR CAMPUS:

From the session 2014-15, St. Xavier's College (Autonomous) is introducing a Rural Campus at Raghabpur, Nepalganj for the rural students of South 24 Parganas.

Courses to be offered:

Bengali Honours with Political Science and History as ancillary subjects

B.Com. Honours

B.A. General

Only candidates residing at South 24 Parganas are eligible to apply.

6.   **PROJECT PHASING**

      a)   Project Milestones and timelines for completion of the exact schemes

      b)   Adherence to timeline as stipulated by the Project authority.

7.   **ANNEXURES**

- Cost Estimates (as per PWD's latest schedule)

8. Name of the Bank Account :   **St. Xavier's College RUSA Account**

Syndicate Bank

Park Street Branch

Kolkata – 700 016

Savings Bank Account Number :   **95852010028840**

DETAILED PROJECT REPORT

GOALS AND OBJECTIVES

Part-I

Creation of Utility Building at Raghabpur Campus to house Canteen, Resource Centre, Computer Centre, Common Room etc.

Part-II

1. **Finance Laboratory**

   The mission of the Finance Lab is to support advanced **applied** research in financial markets and equip Commerce and Management students with the mathematical and conceptual theories and best practices in financial markets that go into the creation and management of innovative financial products.

2. **Digital Language Laboratory**

   Language learning is not the same as learning any other subject. It is not confined to writing an examination and getting a degree or award. The four skills of reading, writing, listening and speaking have to be practiced. Being able to communicate well is the most important factor when seeking a placement in a company or institution. Communication involves one's ability to listen carefully so as to grasp the meaning and to respond in turn with apt words and clarity of pronunciation.

   The language laboratory plays an important role in the language learning process. This article discusses the various features of the language laboratory. As it is a technological aid for learning, it has a number of advanced facilities that can help a student to learn a language with proficiency to communicate.

3. **Software to automate various aspects of Governance**

   E-governance, expands to **electronic governance**, is the integration of Information and Communication Technology (ICT) in all the processes, with the aim of enhancing institution ability to address the needs of the stake holders. Main objective is to promote **good governance** so as to improve the quality of the institution and enables better service to the students.

4. **Integrated Online Web Portal**

   An **Online Portal** refers to the webpage (or website) that provides users an entryway to a variety of information, tools, links, and more. O**nline portals** are designed to offer users an assortment of the most used types of information and services. An integrated online portal will help the institution to disseminate information to the students, staff and other stake holders in a more organised way and on a real-time basis. This will also help the institution to provide online training material to students for their curriculum and beyond.

5. **Library Automation**

   The motto of Library Automation is to provide the right information, to right person, in right manner, in right time. While justifying need of library automation more than cost-effectiveness the benefits derived by the library users become the major consideration. Since library does not happen to be an economic entry such benefits need to be looked at in a different perspective. The advantages are across all the different levels of library automation. The aim is to enhance the automation with RFID system to ensure better service to the students.

6. **E-resources, Dspace and Database memberships for library**

   Digital technology has made it more easy, speedy and comfortable to apply the stored intellect. This collected information through the ages has to be used for further research; betterment and overall development of the human resource. **Electronic resources** are easily accessible in remote areas. Electronic resources solve storage problems and control the flood of information. Print sources are being digitized. Electronic information sources are becoming more and more important for the academic community. The advent of technology has made the libraries to add new things to its collection. The more prominent among them is the e-resources.

   DSpace is an open source repository software package typically used for creating open access repositories for scholarly and/or published digital content. While DSpace shares some feature overlap with content management systems and document management systems, the DSpace repository software

serves a specific need as a digital archives system, focused on the long-term storage, access and preservation of digital content. An institutional repository is an archive for collecting, preserving, and disseminating digital copies of the intellectual output of an institution, particularly a research institution. An institutional repository can be viewed as a "...a set of services that the institution offers to members of its community for the management and dissemination of digital materials created by the institution and its community members." For a university, this includes materials such as monographs, eprints of academic journal articles—both before (preprints) and after (postprints) undergoing peer review—as well as electronic theses and dissertations. An institutional repository might also include other digital assets generated by academics, such as datasets, administrative documents, course notes, learning objects, or conference proceedings. Deposit of material in an institutional repository is sometimes mandated by that institution. Some of the main objectives for having an institutional repository are to provide open access to institutional research output by self-archiving in an open access repository, to create global visibility for an institution's scholarly research, and to store and preserve other institutional digital assets, including unpublished or otherwise easily lost ("grey") literature such as theses, working papers or technical reports.

Online database is a repository of vast and complex information about one or more specific areas of study. Membership to such database help the learners and researchers to access vast information which otherwise will not be available. The data can be extracted from these databases by simple queries. It helps in extensive research.

7. **Development at the College Rural Campus at Raghabpur, 24 Parganas (s):**

Raghabpur Campus is the Rural Face of St. Xavier's College (Autonomous) Raghabpur in South 24 Parganas, about 25 kms away from the main Park Street campus, caters to the academic needs of the rural students with emphasis on marginalised and first generation learners at a very nominal fees.

Setting up of modern facilities like Computer Laboratory, Smart Classrooms and Video Conferencing System will help the students of the rural area to avail state of the art facilities and will be exposed to the most modern methods of teaching learning process. It is the need of the society to uplift the rural and socially marginalized youth, specially the first generation learners and provide them quality higher education so that they cas be part of the modern society.

Proper office automation will hep the campus to be connected to the main campus of the college so that the learners at Raghabpur get similar services as in the main campus.

8. **Seminars, Workshops, Conferences**

The purpose is usually to inspire the attendees to become better people, or to work towards implementing the skills they might have learned from the seminar, workshop and conference. The objective is improving communication skills, gaining expert knowledge, networking with others and renewing motivation and confidence.

9. **Student Training programs on specialized fields**

Student Training programs on specialized fields are designed to fill the gap between what students learn in the academic classroom and the skills they need in the work place. A training path allows students to develop skills based on work level so as to face the real-life situations in their actual workplace.

10. Faculty improvement programs

From developing strategies that enrich student learning to fostering a campus culture that values innovative teaching and learning, quality faculty development is the foundation to educational excellence. FIP is a planned program to prepare institutions and faculty members for their academic roles including teaching, research, administration, writing and career management. The goals of faculty development are to improve practice in teaching, research, and institutional service and also to manage change by enhancing individual strengths and abilities as well as organizational capacities and the overall culture.

11. Faculty training in specialized fields

Skills and knowledge are the driving forces of growth and development of any institution. They have become even more important given the increasing pace of globalization and technological changes provide both challenges that is taking place in the world. Training the faculty in the latest technological trends and industry-academia tie ups for such training programs have become imperative for any institute of higher education.

12. Training programs for support staff

The roles of Institution Support Staff are integral to the daily running of any college and are of extreme importance to the strategic management of the institution. Without the roles of support staff the education of students would suffer, each role is as important as the other. Student support staff are rarely central to education reform conversations, but in the era of personalization, their knowledge and expertise can greatly benefit the changing classroom. Hence proper training programs on specific skills for the support staff are very much essential for the overall development of any institution.

13. Extension activities at rural villages

Extension activity provides a link between the College and the Society. In order to create socially sensitive citizens, the students are made aware of the common extension activities through NSS, NCC, AICUF and specific extension activities through a full fledged DEPARTMENT OF Social Work. Extension activities always go hand in hand with teaching and research. Since its inception, extension oriented activities of college are organised towards improving the quality of life of rural children and women in the state. Keeping this in view, the college focused on dissemination of developed technologies and imparting knowledge based educational programmes and need based trainings for various segments of the population in the rural villages. The college has adopted five villages in the neighbourhood for the upliftment of their living standards and educate them to become a better citizen. The college plans to enhance these activities to reach more people in the remote rural areas.

14. Fitness, Yoga & Meditation center

Both mental and physical fitness play an important role in our life. If we are not physically fit, we are more prone to mental stress and psychological problems. People who are not too watchful in this regard often face problems in their relationship and professional life. It is important to be physically active and mentally fit to maintain a relaxed state of mind. This way we will be strong enough to face all the struggles and challenges in life. The Fitness, Yoga & Meditation center will bring in a culture of being physically and mentally relaxed in the students and staff and thus help in their overall development as a better human being.

15. Modernization and upgradation of Laboratories

The Laboratory/Classroom Modernization will provide the institution for comprehensive modernization of instructional laboratories, and thus improvement of the instructional climate in the classroom by providing support technology for learning. This will include incorporating new technologies, replacing equipment, remodeling and adding supplies to provide an updated learning environment.

16. Field trips

Field Trips are important to help bridge the gap between education and hands-on experience. Field trips are crucial for every student to acquire increased knowledge, culture and hands-on experience. Hands-on experience produce questions and answers that help shape a student's future.

17. Exchange programs - National and International

Exchange programs help gain experience and maturity through the challenges you face on exchange which takes a person out of the familiar surroundings and "comfort zone". Develop increased self confidence and a sense of self reliance as a result of the exchange experience. Exchange students/faculty get many benefits since the main purpose of these programs is to fully contribute to the integral formation of students, in a globalized environment, enabling them to exercise social and also professional leadership in the workplace. Exchange students/faculty can establish academic links with other institutions, both, nationally and internationally.

18. Parent & Student Counselling Centre

In the present era of competition, students and parents take a lot of stress which in turn affects the overall personal growth of the students. Counselling will help in improved communication and interpersonal skills, greater self-acceptance and self-esteem and, better expression and management of emotions, including anger. It also helps in getting relief from depression, anxiety or other mental health conditions. Finally it leads to increased confidence and decision-making skills. A state of the art counseling centre with trained and experienced counselors will help in solving the emotional problems and will help in the mental growth of the students.

19. Environment awareness activities

Environmental awareness is to understand the fragility of our environment and the importance of its protection. Promoting environmental awareness is essential to become an environmental steward and participate in creating a brighter future for all living beings.

Global warming, air and water pollution, overuse of fertilisers, the negative implication of use of plastics and polythene, conservation of energy and fuel resources, all these are topics of current media debate. Articles and analyses explore the environmental debacle that our globe is headed towards and create awareness in the common man about environmental problems. Educational institutions play an enormously significant role in generating environmental awareness among the youth. The College has Environmental Education as part of the curriculum, but having seminars and workshops inviting experts will have significant impact on the students and the faculty to be aware of the modern day environmental threats.

PROPOSED BUDGET UNDER <u>RUSA-2</u> SCHEME

<u>PART-I (Rs. 1.5 crores)</u>
Creation of new facilities and upgradation of existing facilities:

Creation of Utility Building at Raghabpur Campus to house Canteen, Resource Centre, Computer Centre, Common Room etc.	Rs. 1.5 cores

<u>PART-II (Rs. 3.5 crores)</u>
Human Resource Development and Soft Infrastructure

PARTICULARS	AMOUNT IN CRORES (Rs.)
1. Finance Laboratory	0.35
2. Digital Language Laboratory	0.10
3. Software to automate various aspects of Governance	0.30
4. Integrated Online Web Portal	0.05
5. Library Automation	0.20
6. E-resources, Dspace and Database memberships for library	0.45

7. Development at the College Rural Campus at Raghabpur, 24 Parganas (s):
   a. Computer Laboratory
   b. Smart Classrooms
   c. Video Conferencing System
   d. Office automation
	0.60

8. Seminars, Workshops, Conferences	0.10
9. Student Training programs on specialized fields	0.15
10. Faculty improvement programs	0.05
11. Faculty training in specialized fields	0.05
12. Training programs for support staff	0.05
13. Extension activities at rural villages	0.05
14. Fitness, Yoga & Meditation center	0.20
15. Modernization and upgradation of Laboratories	0.35
16. Field trips	0.05
17. Exchange programs - National and International	0.25
18. Parent & Student Counselling Centre	0.10
19. Environment awareness activities	0.05
TOTAL:	3.50

Rev. Dr. Dominic Savio, S.J.   **Date: 28-09-2018**
Principal
St. Xavier's College (Autonomous), Kolkata.