



**ST. XAVIER'S COLLEGE**  
(AUTONOMOUS)  
5, Mahapalika Marg, Mumbai - 400 001,  
INDIA.  
☎ 2262 0661/65

## **STRATEGIC PLAN 1: OPTIMAL UTILIZATION OF RESOURCES**

- ❖ **Space Utilization**
- ❖ **Conservation and Management of Resources (Water, Energy, Wet and Dry waste)**
- ❖ **Academic Resource Utilization**



### **6.2.1: OPTIMAL UTILIZATION OF RESOURCES**

#### **❖ Space Utilization**

- Offices for Student Committees
- Library - Donation of Urdu books
- MoU: St. Xavier's School and SXC for use of part of their Facility
- New PG courses

#### **❖ Conservation and Management of Resources (Water, Energy, Wet and Dry waste)**

- Solar panels and LED lights
- Water - Rain water harvesting, recycling
- Composting and Canteen waste segregation
- MoU-SESPL - Dry waste recycling
- LoU-RUR 'Go Green with Tetrapak' initiative
- Newspaper reuse

#### **❖ Academic Resource Utilization**

- Students as teachers – extension of SIP to the discipline
- Sharing SXC facilities for educating/training outside students and teachers
- Xavier's Research Centre for Visually Challenged – a model



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# SPACE UTILIZATION



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## **OFFICE SPACE for Malhar, Student Council (SC) and Extra Curricular Committee (ECC)**

### **Malhar and ECC**

Till 2016 the Malhar (the college festival) team used to operate for the 4 months of work (from mid-April to mid-August each year) from the room under the library staircase (outside the Hall galleries). The rented computers would be housed in a biometric operated cabin in the hall galleries. However, the space was not only inadequate but also inaccessible after Malhar for any follow up work, as the Student Council would take over the office immediately.

Recognising the need of the hour, an informal space audit of the college was conducted by the principal and it was noted that the Hall gallery was a prime space that was underutilized. So, in April 2017, two additional cabins were assembled and added to the original existing computer room of Malhar, in the hall galleries (basketball court side). One was used for the rented computers, one for students and one for the staff committee. This new Malhar office was used for the Malhars of 2017, 2018 and 2019. Post Malhar, all the rooms were handed over to the ECC in September of each year.

### **Extracurricular Committee**


The ECC has no exclusive office space to operate out of. However, as the Malhar team completes its work by September, their office rooms are not used till April of the following year. This space is used by the ECC which selects, organises and briefs contingents for various inter-collegiate fests over the entire year ending sometime in end Feb – beginning of March in each academic year as per the rules of the college. This dovetails well with the Malhar team requirements and ensures that the office space is maximally and optimally used.

### **Student Council**

Over the years, the Student Council office space (which was a room created under the Reference library staircase - outside the Hall galleries) was used by the Malhar committee for the months of April-September. In 2017, it was recognised that the SC office needed to be a constant fixture, accessible to all students through the year. So, this space was officially demarcated as the official SC office all through the year and all other bodies that shared this space were moved out to alternate spaces.



NAAC SSR Cycle 4 (2015-2020):  
6\_SP1

  
PRINCIPAL  
ST. XAVIER'S COLLEGE  
(AUTONOMOUS)  
MUMBAI - 400 001.

PAN No. : AGFPB4399E

Bill No 3750

EST  
JUN  
BR-17-17

# SAI DECOR

SPECIALIST IN: PAINTING, POLISHING, PLASTERING, TILING & GENERAL STEEL ARTS  
FABRICATORS & SUPPLIERS & FURNITURE CONTRACTOR

Shop No. 1, Building No. 42, Manaji Rajuji Road, Mumbai - 400 008 Mob 9820670220

Ref No

Date 9/5/2017

To,

The Principal,  
St. Xavier College,  
Mahapalika Marg, V.T.  
Mumbai - 400 001.

Respected Sir,

Sub : Bill for Malhar Office MS GRILL works and Painting Works:

| Sr.No. | Description  | Qty.          | Rate             | Amount   |
|--------|--|---------------|------------------|--|
| 1.     | Providing and fixing of MS. Window Grills of 25 mm X 5mm thick patti in the New Malhar Office with material and labour charges.<br>Size 3'-7" X 4'-1" X 99 No.=131.45                        | 131.45 sq.ft. | 148/- per sq.f.  | 19,459.00  |
| 2.     | Providing and fixing of M.S.Grills outside Malhar Office on the Mezzanine floor of the Central Liabrary Bldg. with labour and materials charges. and fabrications.<br>9'-3" X 10'-8" = 98.60 |               |                  | 46401/-<br>+ 34500/-<br>80901/-<br>8091/-<br>80092/- |
| (-)    | Pillar 4'-6" X 3 1/2"-4" = 14.98 (-) (-)   | 83.62 sq.ft   | 148/- Per sq.ft. | 12,376.00  |
| 3.     | Door fixing of 4'-0 X 7'-6" with 1 1/2" X 1 1/2" Frame and 1 1/4 X 1 1/4 angel frame for door and hinges 3 Nos 1 Aldrop and 2 Tower Bolt   |               |                  | 3073<br>#368621<br>#368622<br>8221612                |
|        |  | Lunsun        | 6500/-           | 6,500/-  |

MALHAR OFF

PTD

2

...

| Sr.No. | Description   | Qty.   | Rate | Amount           |
|--------|---|--------|------|------------------|
| 4.     | Painting Works of Grills<br>Providing an Application of Asian<br>Co. Redoxide Praimer + two Coats<br>of dark brown Oil Paint of First<br>Quality with proper finish on the<br>above Window Grills and side<br>Partition outside Malhar office<br>131.48 + 83.62 = 215 X 1.5 times | 322.00 | 25/- | 8,066.00         |
| Total  |   |        |      | <u>46,401.00</u> |

(RUPEES FORTY SIX THOUSAND FOUR HUNDRED ONE ONLY)

MALHAR OFF - GRILLS  
WF 40 - 0034

FOR SAI DECOR  
*S. M. Bisen*  
Proprietor

(M)



*S. M. Bisen*

*[Handwritten signature]*



( Public Trust Regn. No. B-136 Mumbai. )

جامع مسجد بمبئی ٹرسٹ  
Juma Masjid of Bombay Trust

46, JANJIKAR STREET, MUMBAI - 400 002.  
TEL. : 2342 5453 / 2342 3697 • FAX : 2341 3091 • E-mail : jum Masjid@vsnl.net

Ref. No. JMBT/LIB/0126/2018

Date 31st Jan' 2018

To,

The Librarian  
St. Xavier's College  
Mahapalika Marg  
Mumbai – 400 001

Respected Madam,

We wish to acknowledge and express our sincere thanks to your esteemed institution for gifting Arabic, Persian and Urdu books to our library named as "Kutubkhana Madrasa Mohammadiya".

We are also attaching the list of all the books which we have received from you. This was also a reason that we were late in sending you this letter as we were preparing this list for reference. We apologize for this delay.

We hope that these books will be utilized by the general public for their benefit and we shall always maintain our cordial relationship and rapport with your Institution and oblige.

Thanking you,

Yours faithfully,



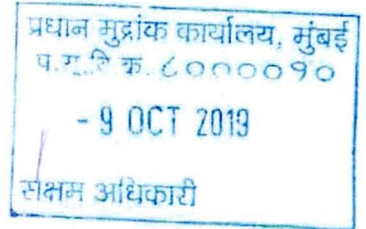
For JUMA MASJID OF BOMBAY TRUST



महाराष्ट्र MAHARASHTRA

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VT 788956



### LEAVE AND LICENSE AGREEMENT

(To be executed while licencing premises)

PREAMBLE: Concerning the primary reasons why The Bombay St. Xavier's College Society is requesting the use of specific areas governed by the Bombay St. Xavier's Society for educational purposes:

1. The two trusts are sister trusts and are managed by the same Religious Body [The Society of Jesus, Bombay Province].
2. They share a common vision of education.
3. This development has the permission and blessings of the past and present Provincial.
4. This arrangement is to optimally use resources between both institutions.
5. It is not on a commercial basis, but on a fraternal understanding between two sister trusts with a common vision, and who wish to share resources, including space.
6. Since the College is running out of space for its many educational programmes, and since the School currently has space to offer, the College is hopeful to use some earmarked space of the school for any programmes for which there is no available space in the college.



The Bombay St. Xavier's College

जो. 5, Mahaganika Marg,  
Mumbai-400 001.

7-38

मुद्रांक विभाग वेपारघाटे मार्ग \_\_\_\_\_

मुद्रांक विभाग वेपारघाटे रजिस्ट्री कार्यालय \_\_\_\_\_

मुद्रांक विभाग वेपारघाटे जो. 5, महानिका \_\_\_\_\_

मुद्रांक विभाग वेपारघाटे जो. 5, महानिका मुद्रांक वेपारघाटे कार्यालय \_\_\_\_\_

पं. क्र. 20000090

मुद्रांक विभाग वेपारघाटे : श्री. बाबावेश विहारजी जो. 5, महानिका मुद्रांक वेपारघाटे कार्यालय \_\_\_\_\_

श्री. व. ड. बाबावेश विहारजी, जो. 5, महानिका, बरकर वि. जो. 5, महानिका मुद्रांक वेपारघाटे कार्यालय \_\_\_\_\_

मुद्रांक वेपारघाटे कार्यालय वेपारघाटे मार्ग मुद्रांक वेपारघाटे कार्यालय मुद्रांक वेपारघाटे कार्यालय \_\_\_\_\_

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17 OCT 2019

17 OCT 2019

7. The college will be paying the school as and when the space allotted by the school is actually being put to use by the College for educational purposes.
8. Given this context, and to this effect, we hereby undertake to enter into this contract between both parties as framed below.

This Agreement made on the 1st of August, 2019, between **BOMBAY ST.  
XAVIER'S SOCIETY (BSXS)**

**Of St. Xavier's High School, 289, Lokmanya Tilak Marg, Mumbai**

(hereinafter referred to as 'licensor') of one part and **THE BOMBAY ST.  
XAVIER'S COLLEGE SOCIETY (BSXCS)**

**Of St. Xavier's College, 5, Mahapalika Marg, Mumbai**

(hereinafter referred to as 'licensee') of the other part;

Whereas the licensor is seized and possessed of or otherwise entitled to specific, demarked areas within the premises of St. Xavier's High School, 289, Lokmanya Tilak Marg, Mumbai, (referred hereto as the 'specific licensed premises');

Whereas the licensor has requested the licensee to allow him to use and occupy the specific licensed premises as licensee and the licensor has agreed to allow the licensee to use the specific premises as bare licensee and to occupy the same without any right, title, interest or claim in the specific licensed premises or to any right or interest of the licensor in the specific licensed premises.

And whereas the licensor has sufficient interest, right or title in the specific licensed premises and to permit and allow the licensee to use and occupy the specific licensed premises as bare licensee in his capacity for use by them of the specific licensed premises for educational purposes.

And whereas the licensee is desirous of and represent that, the use and occupation of the specific licensed premises by them, shall be in his right and shall

be under a mere permission as licensee by the licensor and shall not amount to claim any right.

**NOW IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES AS LICENSOR AND LICENSEE HERETO AS FOLLOWS :**

1. This leave and license shall commence from the date of the Agreement and shall remain effective for a period 35 months from this date.
2. The licensor and licensee agree that the licensee shall use and occupy the premises under the permission of the licensor and shall not have or claim any tenancy or any other right, title, interest in the premises and shall always be construed as permissive user as license only.
3. The licensee shall pay to the licensor the license fee of Rupees Ten per Square Foot per month, during the aforesaid period of Leave and License Agreement along with taxes as applicable.
4. The licensee during the subsistence of this present agreement shall pay all outgoing expenses, and charges including for repairs, electricity and water charges for electric and water consumption.
5. The licensee shall cease to use and occupy the licensed premises and hand over licensed premises without demur, protest or objection to the licensor on expiry of the above period of 35 month, from the date of executing this present Agreement for Leave and License.
6. The licensee hereby agree and covenants with and to the licensor that the licensee under no circumstances whatsoever, transfer or assign in any manner, whatsoever benefit of this present to any other person or legal entity and accepts and acknowledges that licensor has allowed licensee to use and

occupy the licensed premises only and in no manner has granted any right interest in the licensed premises or any right to transfer or heritable right in respect of the licensed premises.

7. The licensee shall use and occupy the licensed premises for purpose of education only and in no manner cause nuisance, damage, disturbance, annoyance, inconvenience or interference to the occupiers of neighbouring premises.
8. The licensee shall not use the licensed premises for any illegal or immoral purpose or carry out any activity or do anything, which constitutes breach of any law.
9. The licensee agrees and undertakes to the licensor to indemnify and to keep indemnified of any obligations, covenants, and conditions thereof.
10. All notices, communications shall be sent on following addresses –

Licensor

BOMBAY ST. XAVIER'S SOCIETY (BSXS)  
Of St. Xavier's High School, 289, Lokmanya Tilak Marg,  
Mumbai

Licensee

BOMBAY ST. XAVIER'S COLLEGE  
SOCIETY (BSXCS)  
Of St. Xavier's College, 5, Mahapalika Marg,  
Mumbai

11. The licensee on termination of the agreement or in case of breach of the conditions here in above shall hand over peaceful possession of the licensed premises to the licensor, in normal wear and tear condition.

IN WITNESS WHEREOF THE PARTIES HAVE SUBSCRIBED, SIGNED AND  
HEREUNTO SET THEIR HANDS THE DAY AND YEAR FIRST HEREINABOVE WRITTEN.

*Wamy*  
Licensor

BOMBAY ST. XAVIER'S SOCIETY (BSXS)

Of St. Xavier's High School, 289, Lokmanya Tilak Marg,  
Mumbai 400 001

*Yasu*  
Licensee

BOMBAY ST. XAVIER'S COLLEGE

SOCIETY (BSXCS)

Of St. Xavier's College, 5, Mahapalika Marg,  
Mumbai 400 001

WITNESSES

1. VAZ Rocky Francis *Rocky*
2. Datta Ganti Dyonis



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## NEW POST GRADUATE PROGRAMMES

One of the several goals of the strategic Plan for 2015-20 was to optimize the usage of campus resources. A resource that SXC needed to address urgently was Space. The paucity of space – an issue that was not new, was hindering expansion. In 2019, with the signing of an MoU with St. Xavier's School, a campus that is very close to the main college campus, more space was made available and new programmes could be started. In 2019-2020, three programmes were started in the new space: M.A. Psychology (Life Span Counselling), M.Sc. Big Data Analytics, and M.Sc. Physics.

### MINUTES OF THE ACADEMIC BOARD MEETING ON 22.04.2019

#### AGENDA:

1. To read and approve the minutes of the previous meeting
2. To discuss and approve the New courses for the academic year 2019-20
3. Any other matter with the permission of the chair.

Meeting was chaired by Dr Rajendra Shinde, Principal.

All members were present

The meeting of the Academic Board began at 11.00 a.m. in the SCAVI.

The Minutes of the Meeting were read by Fr Roy Pereira and were unanimously approved.

Proposed by: Dr. Hrishikesh Samant Seconded by: Dr. Shyamala Bodhane

#### **1. Proposed new courses:**

- 1.1. Dr Shinde explained that the **MA Psychology in Lifespan counseling**, PG Diploma in Expressive Arts Therapy, PG Diploma in Hindi Translation were already approved in the AB meeting held on 16 March 2019.
- 1.2. Certificate Course in Personal Counselling -XICP: It was resolved that the certificate course in personal counseling be accepted. Proposed by: Prof. Alpana Palkhiwala and Seconded by Prof. Ruby Pavri
- 1.3. Certificate Course in Applied Philosophy and Personal ethics: Fr Keith explained the details of the course syllabi, fee structure, eligibility criteria and number of seats. After discussion, it was resolved that the certificate course in Applied Philosophy and Personal Ethics be accepted. Proposed by: Dr. Smita Krishnan and Seconded by Prof. Ruby Pavri
- 1.4. Diploma in Bioinformatics proposed by the department of Biotechnology: Dr. Karuna Gokarn explained the syllabi, fee structure, eligibility criteria, and number of seats. After detailed discussion, it was accepted unanimously. Proposed by: Dr. Seema Das and Seconded by Dr. Smita Krishnan
- 1.5. **M.Sc. Big Data Analytics** in collaboration with TCS: IT HOD, Mr. Roy Thomas proposed this course for the academic year 2019-20. The course is in collaboration with TCS. TCS will be signing MOU with the college. TCS will train our teachers and provide all the academic as well as technical support. Students will be offered





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internships at TCS and those who are found good will be offered jobs at TCS. Syllabus, fee structure, number of seats and eligibility criteria were discussed in detail and it was accepted unanimously. Proposed by: Dr. Roy Pereira and Seconded by Dr. Shyamala Bodhane.

- 1.6. **M.Sc. Physics** with Specialization in Astrophysics: Dr. Jyoti Singh and Mr. Rajesh Singh explained in detail about the modules, number of credits, research components, fee structure and scholarships. Students will do the projects possibly with AAYUKA, Pune, TIFR Mumbai and remaining students will be guided by Xavier's Faculty. The proposal was accepted after detailed discussion on the dissertation part of the course. Proposed by: Dr. Pravin Henriques Seconded by Dr. Annapurna.
- 1.7. M.Sc. Chemistry: It was explained by Prof. Marazban Kotwal and accepted with the conditions. Board accepted the syllabi but asked to differ its launch in the following academic year 2020-21, subject to updating of the syllabi, availability of Faculty and infrastructure. Proposed by: Dr. J. B. Mistry and Seconded by Prof. Alok Gude.

The Meeting Ended with a vote of thanks to the Chair.



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Programmes started with additional Space acquisition in St. Xavier's School Campus

## M.A. Psychology: Lifespan Counselling

The screenshot shows the website page for M.A. Psychology: Lifespan Counselling. The URL is xaviers.edu/main/index.php/pg-courses/m-a-psychology-lifespan-counselling. The page features a navigation menu with links to HOME, COLLEGE, FACILITIES, FACULTY, COURSES & ADMISSIONS, ASSOCIATIONS & ACTIVITIES, DEPARTMENTS, INSTITUTES, and SITEMAP. A banner image displays the college's name and '150 YEARS' anniversary. The main content area includes a 'Courses & Admissions' sidebar with a list of programs, a central section for 'M.A. Psychology: Lifespan Counselling' with an 'Online Application Form' link, and a right sidebar with 'PG Notices' and 'Senior College Notices'.

HOME COLLEGE FACILITIES FACULTY COURSES & ADMISSIONS ASSOCIATIONS & ACTIVITIES DEPARTMENTS INSTITUTES SITEMAP

### St. Xavier's College - Autonomous, Mumbai

150 YEARS

CLOSE INFO

#### Courses & Admissions

- Admission Policy
- Academic Guidelines Under Autonomy
- Junior College
- Senior College
- Post Graduate
  - M.A. in Ancient Indian History, Culture and Archaeology
  - Masters in Public Policy
  - M.A. Psychology: Lifespan Counselling**
  - M.Sc. in Botany
  - M.Sc. in Geology
  - M.Sc. in Life Science
  - M.Sc. in Microbiology
  - M.Sc. in Biotechnology
  - M.Sc. in Physics (Astrophysics)
  - M.Sc. in Big Data Analytics

#### M.A. Psychology: Lifespan Counselling

Page 1 of 4

Applications are invited for admission to the two-year, full-time course for the academic year 2021-2022.

[Online Application Form](#)

#### Introduction

As we, the people of this country and of the world, go through the stress of the current pandemic together, its effects on mental health become ever more apparent. In India, the ratio of mental health practitioners to citizens has always been poor, but it is in times of crisis like this, that the importance of filling this gap comes into focus. To contribute to bridging this gap, the Department of Psychology, St. Xavier's College (Autonomous) started a new Master's degree course - M.A. Psychology: Lifespan Counselling in June 2019. This year, we are accepting applications for our second batch of students.

#### Course Objectives

This course has been designed with the primary objective of creating mental health practitioners with-

- [M.A. Psychology, Lifespan Counselling](#)
- [Eligibility](#)
- [Selection Process](#)
- [Application Schedule](#)
- [All Pages](#)

[College Calendar 2021-22](#)

[Netiquette for Online Education](#)

#### PG Notices

- [MA AIHCA \(Part I\) - Time Table](#)

#### Senior College Notices

- [VI Semester Results](#)
- [Supplementary Examinations](#)
- [Course-wise Monthly Attendance](#)



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## M.Sc.: Big Data Analytics

The screenshot shows the website page for the M.Sc. in Big Data Analytics program. The header includes navigation links: HOME, COLLEGE, FACILITIES, FACULTY, COURSES & ADMISSIONS, ASSOCIATIONS & ACTIVITIES, DEPARTMENTS, INSTITUTES, and SITEMAP. A banner image features the college's name and '150 YEARS' anniversary. The main content area is titled 'M.Sc. in Big Data Analytics' and includes a 'CLOSE INFO' button. Below the title, it states 'Page 1 of 5' and 'Applications are invited for admission to the two-year, full-time course for the academic year 2021-2022.' A link for the 'Online Application Form' is provided. An 'Introduction' section describes the course's focus on data analysis and its relevance in the modern world. A sidebar on the left lists various courses and admissions information, including 'Admission Policy', 'Academic Guidelines Under Autonomy', and 'Post Graduate' programs like M.A. in Ancient Indian History, Culture and Archaeology, M.A. in Psychology, Lifespan Counselling, M.Sc. in Botany, M.Sc. in Geology, M.Sc. in Life Science, M.Sc. in Microbiology, M.Sc. in Biotechnology, M.Sc. in Physics (Astrophysics), and M.Sc. in Big Data Analytics.

## M.Sc.: Physics

The screenshot shows the website page for the M.Sc. in Physics program. The header includes navigation links: Home, Faculty, Courses, Co-curricular Activities, Research, Achievements, and Contact Us. The main content area is titled 'MSc in Physics' and includes a paragraph describing the course: 'St. Xavier's College Physics Department has introduced a Masters (MSc) degree course in Physics with specialisation in Astrophysics from academic year 2019-20 onwards. This is a uniquely designed course in which classroom learning and research are blended together giving equal weightage to theory and practicals.' A 'Read More' button is visible. Below this, a 'Resources' section lists 'Labs' (around 5 large labs), 'Computer Lab' (dedicated computer lab), and 'Department Library' (small department library).



NAAC SSR Cycle 4 (2015-2020):  
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*Shirde*  
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**CONSERVATION AND  
MANAGEMENT OF RESOURCES**  
*(Water, Energy, Wet and Dry Waste)*



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## ALTERNATIVE SOURCE OF POWER/RENEWABLE ENERGY SOURCES - SOLAR

St. Xavier's College, Mumbai has 3 sets of solar panels installed on the roof-top of its hostel and library buildings. These panels ensure that some parts of the college run entirely on solar power, thus saving electricity.

Some solar panels had become non-functional over the years. These were repaired and maintained in the year 2019-20 and are all currently functional.

### Year-wise Solar power generation:

| Year | Inverter-1 | Inverter-2          |
|------|------------|---------------------|
| 2015 | 459 kwh    | Reading unavailable |
| 2016 | 8834 kwh   | Reading unavailable |
| 2017 | 4800 kwh   | Reading unavailable |
| 2018 | 6632 kwh   | Reading unavailable |
| 2019 | 9441 kwh   | Reading unavailable |
| 2020 | 10910 kwh  | 3239.2 kWh          |

Taking an average of the power generation in year 2020:

|                    |                |   |              |
|--------------------|----------------|---|--------------|
| Yearly generation: | 10,910 + 3,239 | = | 14,149 kWh   |
| Monthly:           | 14,419/12      | = | 1,179.08 kWh |
| Daily:             | 1,179.08/30    | = | 39.3 kWh     |

### Year 2019-20 Inverter Readings (Inverter – 1):

The last reading for the solar power plants was taken in Mar 2020 just before the pandemic lockdown.

|                        | Inverter-1 Readings           |
|------------------------|-------------------------------|
| Month - Year           | Solar Power Generated (units) |
| May 2019               | Reading unavailable           |
| Jun 2019               | 140069                        |
| Jul 2019               | 146482                        |
| Aug 2019               | 152789                        |
| Sep 2019               | 160179                        |
| Oct 2019               | 165190                        |
| Nov 2019               | Reading unavailable           |
| Dec 2019               | Reading unavailable           |
| Jan 2020               | 179940                        |
| Feb 2020               | 187568                        |
| Mar 2020               | 193273                        |
| <b>Total (2019-20)</b> | <b>13,25,490 units</b>        |





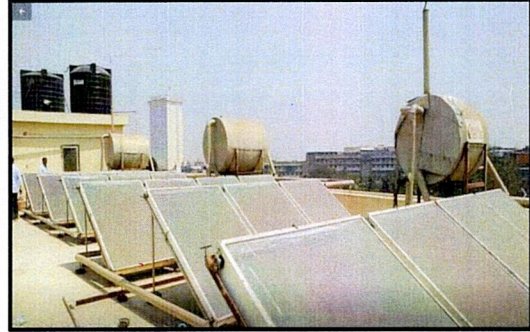
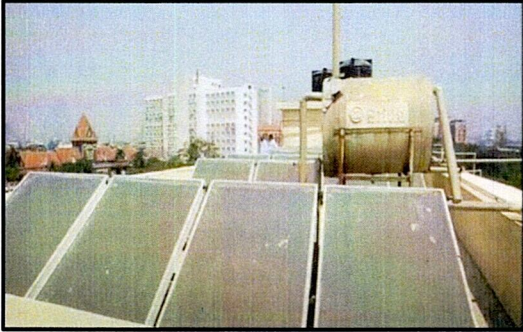
## ST. XAVIER'S COLLEGE

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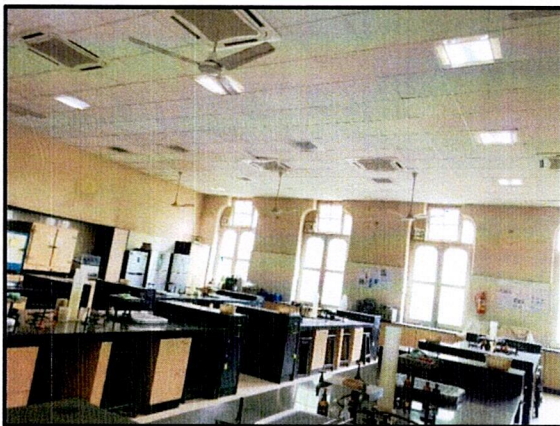
### Solar panels on Terrace



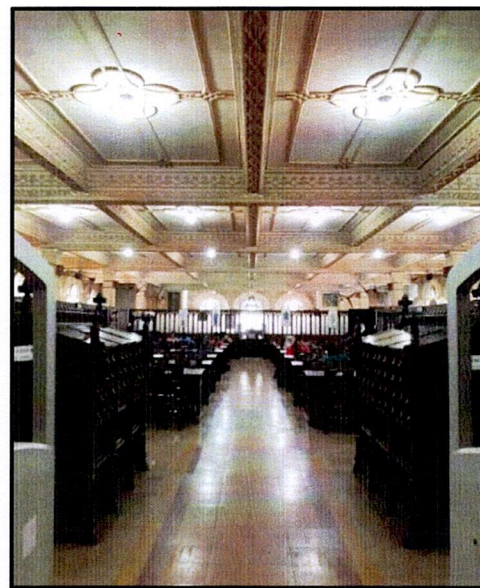
### USE OF LED BULBS/POWER EFFICIENT EQUIPMENT

Over the past few years, the college management has taken a conscious decision to replace existing lights and lighting equipment with LED sources. Dedicated efforts have been made every year with a sizable amount being spent on buying and fitting LED lamps and tube lights across the college premises. LED spotlights have been used to light up the basketball court and the Woods area.

Old fans and other electrical equipment have been regularly repaired and/or replaced with newer, energy-efficient ones. Heavy equipment like water pumps are regularly serviced and maintained to keep them functioning optimally.



Microbiology Lab



Reference Library



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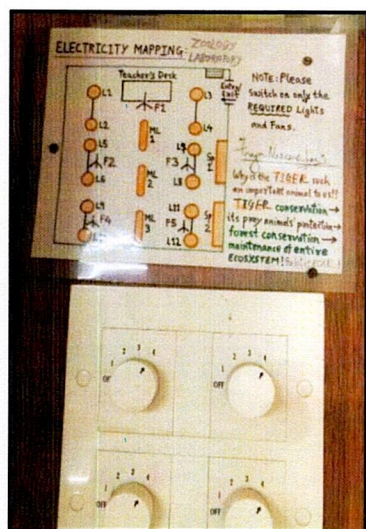
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## ELECTRICAL MAPPING OF CLASSROOMS AND LABORATORIES

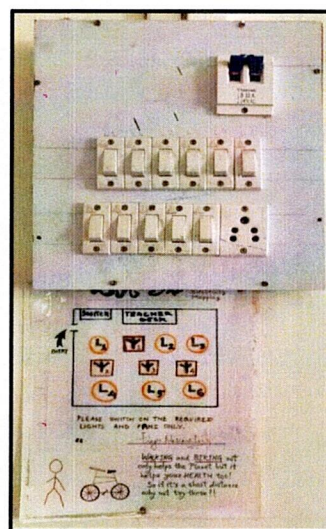
Student participation was sought in early 2014-15 to create 'Electricity Maps' for each classroom and the labs. These maps display the connections of electrical switches to the light and fans they control within a particular classroom or lab. A laminated map is pasted near the classroom/lab switchboard, greatly facilitating the switching ON of only the required lights and fans in the room and switching OFF of those not required. Students and staff diligently follow this, leading to huge saving and conservation of electricity.



Zoology Lab entrance showing switchboard and electricity map



Electricity Map of Zoology Lab



Electricity map of lecture room 32



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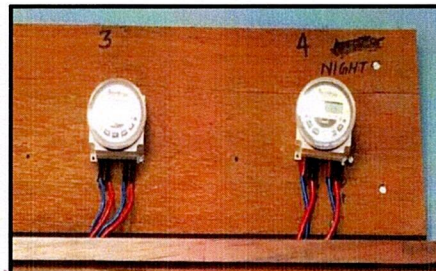
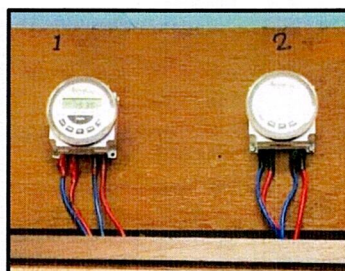
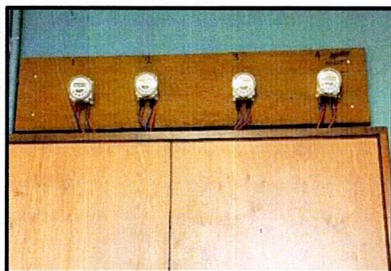
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## TIMED AIR CONDITIONING IN THE CENTRAL INSTRUMENTATION FACILITY


The Central Instrumentation Facility (CIF) started with a DST – FIST grant houses several common instruments and analytical equipment that is shared by all Science departments in the college. Several instruments in the CIF like the PCR thermocycler, Gas Chromatography instrument, centrifuges and others require lower than ambient temperature (20 – 25°C) for their optimal functioning. This is maintained by 4 air conditioners (AC) installed in the room. To conserve electricity at night when the instruments are not in use, a timer system has been installed. This ensures that three day time ACs function on a 10 hours ON – 14 hours OFF cycle. The single night time AC functions on a 14 hours ON – 10 hours OFF cycle. This ensures that the room is properly cooled during the day when the instruments are in use and several people occupy the room, while at night with instruments on standby and no human traffic, there is less consumption of electricity with only one functioning AC.



AC timer in the Central Instrumentation Facility (CIF)



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## WASTE WATER RECYCLING

In 2019, students of the college along with their faculty mentor Dr Binoj Kutty participated in and were awarded US \$4500 under the 'Youth Mentorship Programme for Environment Conservation' by the US Consulate General, Mumbai, and Ekonnnect Knowledge Foundation, for their project titled 'Recycling Grey Water after treatment by Electrocoagulation' (Award No- SIN65018GR0030). Between August to December 2019, the plant was installed and a successful pilot run was performed on 28 November 2019. Ekonnnect representatives visited the site on 9 December 2019 to review the work. The students and Dr Binoj Kutty made a presentation on the working status of the project to Ekonnnect and US Consulate members on 30 December 2019. Grey water from the Boys' Hostel in College is being treated and reused in the toilet flushes, saving up on copious amounts of clean water.

### Recycling Grey Water after treatment by Electrocoagulation

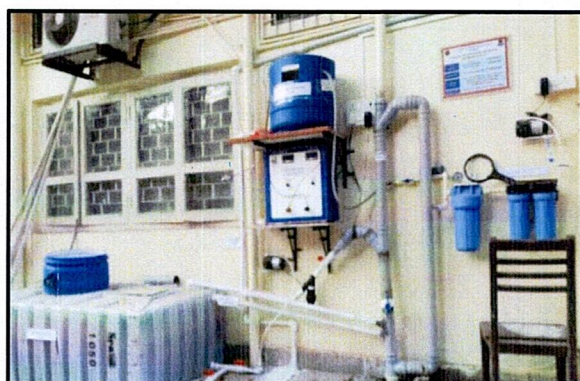
#### Project Members:

1. Ms. Zubia Shaikh (T.Y.B.Sc. 2018-2019 batch)
2. Ms. Karishma Katpitia (T.Y.B.Sc. 2018-2019 batch)

#### Project Mentor:

Dr. Binoj C. Kutty  
(Assistant Professor, Department of Life Science and Biochemistry)

The installed recycling plant was under test runs when the lockdown and closure of hostel took place due to the pandemic. The plant is currently in shutdown and can be restarted only when hostels are opened in full capacity. The plant needs a fixed volume supply of grey water for its operation.



Electrocoagulation Treatment Pilot Plant



Winning US \$4500 award at the US Consulate, Mumbai (25<sup>th</sup> July 2019)

Site: Back of Boys' Hostel,  
St. Xavier's College (Autonomous),  
Mumbai.



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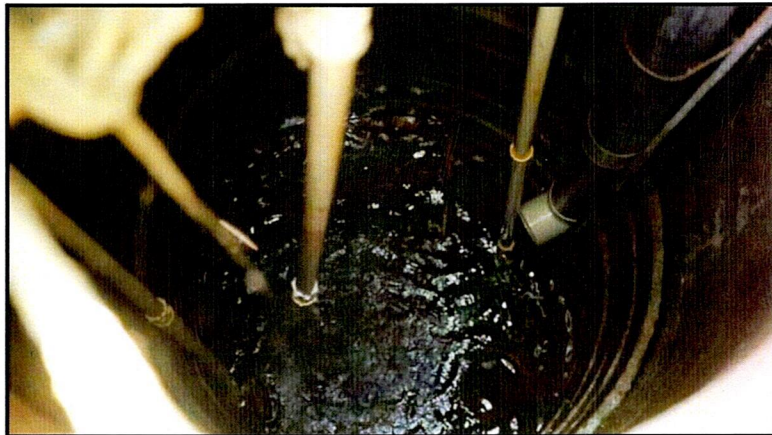
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## **BORE WELL and RAINWATER HARVESTING**

The college has a borewell that is recharged by the rain water harvesting system. The borewell water is used in the boy's hostel toilets. This has led to conservation of the potable water from municipal water sources.



The Bore well



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## WASTE MANAGEMENT

### Waste Segregation

Red and green-coloured waste bins are placed at several locations in the campus to collect dry and wet waste, respectively. The labels on the bins have pictorial representation made by students, of the kind of waste to be disposed of in each bin.



Waste segregation

Red bins (DRY - Plastic and recyclable waste) and  
Green bins (WET – Biodegradable and paper waste)

### Composting & Vermicomposting

Composting of wet waste from the college canteen was initiated by the Department of Microbiology in 2017 under the guidance of the NGO, Stree Mukti Sanghatana, and continues till date. The solid waste from the college canteen is segregated as wet and dry waste. The wet waste is then used for composting. Large amounts of canteen waste are passed through the food shredder purchased in 2019 and then added to the compost bin. To ensure proper composting, smaller plastic crates are now being used instead of the single large compost bin. These bins serve to store the compost as well. Compost made on campus is used in the college gardens.



Compost bins



Composting in smaller crates

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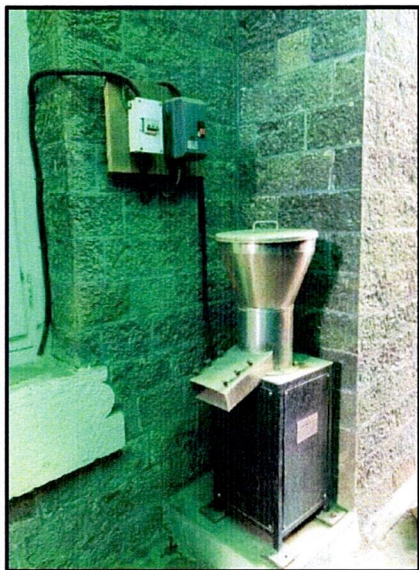
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Food shredder machine



Botany Department Compost Bin

### Departmental Compost Bins

To help segregate the waste generated in each department, and to compost the wet waste that was generated, the post graduate students of the Department of Microbiology provided each department with plastic bins of different sizes (large, medium, and small), depending on the need of that particular department. The Botany department is using it to prepare small quantities of compost (from small left over pieces of fruits, vegetables, peels and coverings of fruits, and lab plant waste) which is utilized for plants grown by the department on the terrace and in the college garden.





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### Vermicompost

The earthworm compost bin is located beside the front garden of the college behind LR 01. It is looked after by the Botany department. The compost bin is utilized to prepare compost during the rainy season especially, as well as all year round. The bin is made up of cement with two chambers which are approximately square in area and raised to a height of 2 feet, and are covered by a tin cover. There is a partition between two chambers but it has small openings. The earthworms eat the leafy material freshly dumped in one chamber and then travel to the next chamber to again eat the fresh material present there. The leafy material degraded in the first chamber can be utilized as fresh compost for growing garden plants. The chamber is again filled up with a mixture of green leafy material and some soil to aid compost preparation with the help of earthworms. The compost bin was prepared in 2005 as a part of project of a BMM student under guidance of Prof. S. P. Periyanyagi.



Vermicompost bins



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## Plastic Recycling

The college participated in the 'Mumbai Plastic Recyclothon' between 2<sup>nd</sup> to 8<sup>th</sup> October 2019, organized by the NGO Project Mumbai. Waste plastic (bottles, spoons etc) were collected and deposited with the NGO for recycling purposes. The certificate received is displayed below.



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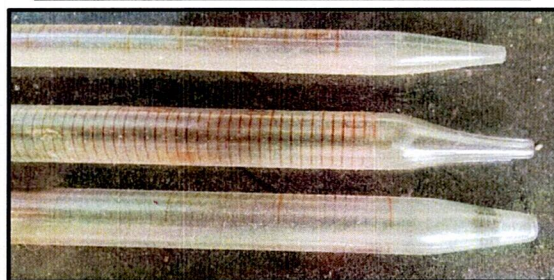


### Broken Glassware Recycling and Reuse

The recycling of glassware has been carried out in the department of Botany for many years. It was recently done in the academic year 2018-19, and year 2019-20. The broken glassware like conical flasks, burettes, pipettes, separating funnel, measuring cylinders, condensers, Soxhlet extractor were given for recycling. They were modified by the glass blower and supplied back to the department. As these glassware items are not fully broken, only their tips, or rim, or small edges get cracked or broken, they can be used by repairing or slightly molding or modifying them.



**Broken glassware from the Department of Botany**  
(Pipettes, Measuring cylinders, Conical flasks, Test tubes, Burettes, Funnels, Separating Funnels)



### Recycled glassware





## **Waste Management Agreement Between St. Xavier's College Mumbai and Sampurn(e)arth Environment Solutions Private Limited**

This Agreement is made on 13<sup>th</sup> October 2016, between St. Xavier's College Mumbai, a organization having its registered office at **5 Mahapalika Marg,CST, Mumbai-400001**,

And

**Sampurn(e)arth Environment Solutions Private Limited (SESPL)**, a private limited company, set up in the year 2012 incorporated under the companies Act 1956 (No. 1 of 1956), having its Registered Office at **Office No.2, Mahinder Chambers, WT Patil Marg, Off V.N.Purav Marg, Near Shivaji Chowk, Chembur, Mumbai – 400071**,hereinafter referred to as the “SESPL”being the PARTY OF OTHER PART.

### **Whereas:**

- A. As a responsible institute, **St. Xavier's College Mumbai** is currently interested in undertaking sustainable waste management practices and recycling initiative for its premises.
- B. Towards this, **St. Xavier's College Mumbai** desires to partner with **SESPL** for implementing the Sustainable Waste Management and recycling initiative as per the Terms attached herein.

### **2. Objective**

The objective of the MOU is the implementation of sustainable waste management and recycling initiative for its premises.

### **3. Responsibilities:**

#### *3.1 Responsibilities of SESPL:*

- **SESPL** will handle the dry waste pickup operations for, **St. Xavier's College Mumbai**, from their premises at CST, Mumbai.
- **SESPL** will be responsible for regular collection of dry waste not limited to only Cardboard/Plastic/Metal Scrap/Wooden Scrap Waste from **St. Xavier's College Mumbai**.
- **SESPL** will issue a certificate to, **St. Xavier's College Mumbai** for partnership between the two parties for initiating a green initiative for handling recyclable dry waste generated at **St. Xavier's College Mumbai**, as these dry waste materials will be recycled in an eco-friendly manner.

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#### **SAMPURN(E)ARTH ENVIRONMENT SOLUTIONS PRIVATE LIMITED**

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- As we pick up the waste the consolidated report will be submitted detailing the quantity and type of waste collected during the month.
- For every Kg of recyclable waste collected **St. Xavier's College Mumbai** will gain certain Green Points.
- Against the accumulated Green Points, **St. Xavier's College Mumbai** can avail stationery made using 100% recycled paper. The stationery is provided by **SESPL** as token of appreciation for taking up an environment friendly initiative.
- **SESPL** will be supplying recycled paper stationery in certain proportion. Indicatively for every 100 Green points, stationery can be availed for 60 Green Points and the remaining will be utilized by **SESPL** to carry out the operations (including transportation, labor and recycling charges).
- The list of products along with corresponding Green Points will be as per the **Annexure**.
- The collection, valuation and exchange terms will be as per the proposal.

### *3.2 Responsibilities of St. Xavier's College Mumbai:*

- **St. Xavier's College Mumbai** will allow **SESPL** to collect recyclable waste from agreed site to be channelized for recycling.
- **St. Xavier's College Mumbai** will ensure that the necessary arrangements are made well in advance for the entry of the dry waste pickup vehicle in order to avoid any delays.
- **St. Xavier's College Mumbai** will also ensure that all the dry waste materials generated at its premises in CST is provided to **SESPL** on a regular basis. If any part of these materials is given to any other vendor/s, the contract shall be terminated.
- **St. Xavier's College Mumbai** shall ensure the segregation of waste into dry and wet and further segregation of dry waste into cardboard/plastic items/metal scrap/wooden scrap/newspaper/magazine/printedpaper/whitepaper/shreddedpaper/cardboard/Tetrapak /Glass/ PET bottles/electrical & electronic waste would lead to earning more Green Points. The Green Points earned against each category is mentioned in the **Annexure**.
- **St. Xavier's College Mumbai** will ensure that there are no tea bags or any other

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types of biodegradable waste (food waste) mixed with dry waste.

- **St. Xavier's College Mumbai** will also ensure that the sorted dry waste provided to SESPL is not in soiled condition. If it is found, SESPL will not be responsible for picking such dry waste.
- The pre-decided quantity of **at least 150Kg dry-waste** material shall be made by **St. Xavier's College Mumbai** available at the designated place by the designated time.
- A representative appointed by **St. Xavier's College Mumbai** shall be present at the time of collection and weighing of waste material to validate the quantities being collected.

#### **4. Term and Termination:**

This Agreement shall be valid from 15<sup>th</sup> July, 2016 for a period of 5 year from the effective date, i.e. until 14<sup>th</sup> July, 2021. Either Party may terminate the Agreement by giving 30 days prior written notice to the other Party without assigning any reasons for such termination.

#### **5. Annexure:**

The Annexed document project proposal is an integral part of this agreement.

#### **6. General:**

**Independent Contractor:** In performing services under this Agreement, the Collector is acting as an independent contractor and not as an agent of the Disposer. The Collector shall retain full and sole responsibility for the employment obligations in respect of its employees and control over the manner in which it performs the Services.

**Non-Assign-ability:** This Agreement shall not be transferred or assigned by either party to any other Party.

**Compliance with laws:** The **SESPL** shall at all times comply with all the provisions of the Acts and Rules from time to time in force and the Guidelines regarding handling of Waste involving the collection, storage, packing transportation and delivery thereof, and shall, without prejudice to the generality of the foregoing, also comply with all Environmental Protection Laws, Safety Laws and Regulations from time to time in force and the Rules, Regulations and Notifications made or issued there under from time to time including but not limited to laws and regulations relating to (i) illegal under any applicable law or regulation, including without limitation to Prevention of Corruption Act, 1988, FCPA, UKBA, Child Labour (Prohibition and Regulation) Act, 1986, Children (Pledging of Labour) Act, 1933.

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**Communications:** Any notice, request or communication specifically provided for or permitted to be given under this Agreement must be in writing and may be delivered by hand delivery, mail, courier service, or electronic transmission such as facsimile, telegram or electronic mail, and shall be deemed effective upon receipt. For purposes of notice the addresses of the parties shall be as hereinabove mentioned. Each party may change its address and its representative for notice by the giving of written notice of the change to the other party.

**Modification of Agreement:** The parties agree that this Agreement may be modified at any time upon mutual consent and that any and all agreements made by the parties to amend, extend, revise or discharge this Agreement, in whole or in part and on one or more occasions, shall not be invalid or unenforceable because of a lack of consideration, provided any such amendments, extensions, revisions or discharges of this Agreement are in writing and executed by the parties.

**Governing Law:** This agreement is governed by the laws of India, with competent courts at Mumbai having the sole jurisdiction.

**Dispute Resolution:** Any dispute or difference arising out of or in connection with this Agreement or its performance that shall arise between the Parties in connection with this Agreement shall in the first instance be resolved by discussions between the authorized representatives of both the parties.

If after consultation, the Parties have failed to reach an amicable settlement, on any or all disputes or differences arising out of or in connection with this Agreement or its performance within 10 days, the dispute shall be referred to Arbitral Tribunal composed of Single Arbitrator mutually appointed by the parties, in case of difference of opinion amongst the parties the Arbitrator shall be appointed in accordance with the provisions of the Arbitration and Conciliation Act, 1996. The Arbitration shall be held at Mumbai in accordance with the Arbitration and Conciliation Act, 1996. All proceedings of such arbitration shall be in the English language. The arbitrators shall give reasoned award. Arbitration award rendered shall be final and binding to both the parties.

**Force Majeure:** In the event that performance under this Agreement, or any obligation hereunder, is hindered, delayed or prevented by reason of acts of God, strikes, lockouts, labour troubles, inability to procure materials, supplies, equipment or parts, failure of power, restrictive governmental laws or regulations, fire, failure or lack of transportation facilities, riots, insurrections, invasions, war or other reason of a similar nature not the fault of the party delayed in performing an act under the terms of this Agreement, then performance of that act shall be excused for the period of the delay and the period for the performance of that act shall be extended for an equivalent period.

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**Entire Agreement:** This Agreement along with the Annexure, if any, hereto contains the entire contract between the parties in respect of this subject matter. It may be amended only by a written signed agreement of the parties. The captions provided herein are for ease of reference and shall not be used in the construction of this Agreement.

**IN WITNESS WHEREOF** the parties hereto have caused this Agreement to be signed by their duly authorized representatives.

**RITVIK DURGA  
SINGH RAO**

Digitally signed by RITVIK  
DURGA SINGH RAO  
Date: 2021.05.18 14:48:20  
+05'30'

**St. Xavier's College Mumbai.**

**Sampurn(e)arth Environment Solutions Pvt. Ltd.**

By \_\_\_\_\_

By \_\_\_\_\_

Name: **Dr. B.A. Menezes**

Name: **Mr. Ritvik Durga Singh Rao**

Title: **Principal**

Title:

Agreement document re-generated on 18.05.21 due to unavailability of the original document prepared on 13th Oct 2016

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## **Annexure**

For every kg of recyclable and reusable waste collected, you will earn **Green Points**. For each category of waste, the Green Points are different. The points for the mixed waste will be the lowest. The monthly report will contain details of the waste collected and total Green points earned. A certain percentage, i.e. 60%, of the Green Points can be redeemed for customized stationery, provided as a token of appreciation for taking up an environment-friendly initiative. The stationery is made using 100% recycled paper obtained from recycling Tetra Pak cartons.

## **Annexure I**

### **Green Points**

| <b>Recyclable Waste</b>                 | <b>Green Points</b> |
|---|---------------------|
| Pet Bottles                             | 12/kg               |
| Glass Bottles(color)                    | 1/kg                |
| White Paper                             | 9/kg                |
| Shredded Paper(White paper)             | 9/kg                |
| Color Paper                             | 2/kg                |
| Cardboard                               | 7/kg                |
| Newspaper / Magazines                   | 8/kg                |
| Tetra Pack                              | 5/kg                |
| Plastic Bags / Polythene / Soft Plastic | 5/kg                |
| Hard Plastic                            | 10/kg               |
| Mixed Dry Waste                         | 2/kg                |
| Metal                                   | 3/kg                |

Note:

1. The rates offered here are tentative and may vary as per the quality of waste and level of segregation. The rates will be reviewed every 3 months and may see seasonal variations.
2. This list covers most recyclable waste likely to be generated at the premises. In case we find any other kind of recyclable waste, the Green Points for the same will be conveyed appropriately.
3. **60% of the total value of dry waste will be passed on to St. Xavier's College Mumbai and 40% will be deducted as our admin charges.**

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## Annexure II

### Recycled Paper Prices ( In Green Points )

**A5 (8.5"X5.5"), Front Cover Page: 80 GSM, Inside Pages: 60 GSM & Back cover: 330 GSM Grey back duplex boards.**

| <b>(Total Rates in GP)</b> |                    |            |             |                     |            |             |
|----------------------------|--------------------|------------|-------------|---------------------|------------|-------------|
| <b>Quantity</b>            | <b>Top Binding</b> |            |             | <b>Side Binding</b> |            |             |
|                            | <b>100</b>         | <b>500</b> | <b>1000</b> | <b>100</b>          | <b>500</b> | <b>1000</b> |
| <b>10 Pages</b>            |                    |            |             |                     |            |             |
| <b>1 color</b>             | 1250               | 4500       | 7000        | 1400                | 5000       | 8000        |
| <b>2 color</b>             | 1450               | 5250       | 8500        | 1600                | 5750       | 9500        |
| <b>20 Pages</b>            |                    |            |             |                     |            |             |
| <b>1 color</b>             | 1500               | 6500       | 9500        | 1650                | 7000       | 10500       |
| <b>2 color</b>             | 1700               | 7000       | 10500       | 1850                | 7500       | 11500       |
| <b>30 Pages</b>            |                    |            |             |                     |            |             |
| <b>1 color</b>             | 1850               | 7750       | 14000       | 2000                | 8250       | 15000       |
| <b>2 color</b>             | 2100               | 8250       | 14500       | 2250                | 8750       | 15500       |
| <b>40 Pages</b>            |                    |            |             |                     |            |             |
| <b>1 color</b>             | 2150               | 9500       | 17000       | 2300                | 10000      | 18000       |
| <b>2 color</b>             | 2400               | 10000      | 17500       | 2550                | 10500      | 18500       |
| <b>50 Pages</b>            |                    |            |             |                     |            |             |
| <b>1 color</b>             | 2600               | 11000      | 19500       | 2750                | 11500      | 20500       |
| <b>2 color</b>             | 3000               | 11750      | 20500       | 3150                | 12250      | 21500       |

**B5 (10"X7.5"), Front Cover Page, 80 GSM, Inside Pages: 60 GSM & Back Cover: 330 GSM Grey Back Duplex Board**

| <b>(Total Rates in GP)</b> |                    |            |             |                     |            |             |
|----------------------------|--------------------|------------|-------------|---------------------|------------|-------------|
| <b>Quantity</b>            | <b>Top Binding</b> |            |             | <b>Side Binding</b> |            |             |
|                            | <b>200</b>         | <b>500</b> | <b>1000</b> | <b>200</b>          | <b>500</b> | <b>1000</b> |
| <b>20 Pages</b>            |                    |            |             |                     |            |             |
| <b>1 color</b>             | 4100               | 8250       | 15000       | 4400                | 8750       | 16000       |
| <b>2 color</b>             | 4600               | 10250      | 17500       | 4900                | 10750      | 18500       |
| <b>30 Pages</b>            |                    |            |             |                     |            |             |
| <b>1 color</b>             | 5000               | 11000      | 20500       | 5300                | 11500      | 21500       |
| <b>2 color</b>             | 5800               | 12750      | 24000       | 6100                | 13250      | 25000       |
| <b>50 Pages</b>            |                    |            |             |                     |            |             |
| <b>1 color</b>             | 7000               | 16000      | 30000       | 7300                | 16500      | 31000       |
| <b>2 color</b>             | 8000               | 18250      | 33500       | 8300                | 18750      | 34500       |

**SAMPURN(E)ARTH ENVIRONMENT SOLUTIONS PRIVATE LIMITED**

Registered Office: Office No. 2, Mahinder Chambers, WT Patil Marg, Chembur, Mumbai 400 071 India  
 T : +91 22 4120 9120 | M : +91 90960 39586 | E : sampurn.e.arth@gmail.com | W: www.sampurnearth.com



## Envelope

(Total Rates in GP)

| Quantity                  | 1000 | 5000  | 10000 |
|---------------------------|------|-------|-------|
| <b>9.5 x 4.5 (80 GSM)</b> |      |       |       |
| 1 color                   | 1300 | 5500  | 10000 |
| 2 color                   | 1500 | 6500  | 12000 |
| <b>10 x 12 (100 GSM)</b>  |      |       |       |
| 1 color                   | 3500 | 15500 | 30000 |
| 2 color                   | 3750 | 17000 | 32000 |

## A4 Sheets

|                               |        |
|-------------------------------|--------|
| One ream (500 sheets) 75 GSMA | 175 GP |
|-------------------------------|--------|

## Visiting cards

(Total Rates in GP)

| Quantity | 100 | 200 | 500 | 1000 |
|----------|-----|-----|-----|------|
| 1 Side   | 2.5 | 2   | 1.7 | 1.6  |
| 2 Side   | 3   | 2.5 | 2.2 | 2.1  |

## Recycled Paper Bag

| Quantity | Size(Inches) | Total Rates in GP |
|----------|--------------|-------------------|
| 1 Bag    | 18x11x3      | 45                |

**Please Note:** 1 colour/2 colour is number of colours being printed per page. We can explore customization in sizes for all the products. Rates include 1 cover page and inner pages print. For additional cover page/inner page printing, cost increases by 1 colour.

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## DEPARTMENT OF ZOOLOGY

ST. XAVIER'S COLLEGE

MUMBAI - 400 001. INDIA

☎ : 2262 06 62 / 65

Date: October 16<sup>th</sup> 2017

Dr. Agnelo Menezes,  
Principal,  
St. Xavier's College (Autonomous),  
Mumbai

**Sub: Go Green with Tetra Pak at St. Xavier's College**

Dear Sir,

The Xavier's Zoology Association proposes tying up with the 'RUR' and the 'Go Green with Tetra Pak Campaign' in order to promote a recycling practice and culture on campus and in student's homes.

We propose to install recycling bins in the foyer where students and staff can deposit their Tetra Pak cartons at their convenience. These Tetra Pak cartons will be deposited at the closest Sahakari Bhandar where they will be recycled into notebooks, benches etc. which are then donated to underprivileged schools.

Our initial aim is collecting 1,500 cartons in 6 months, after reaching this goal, we will be given a recycle bin made out of recycled Tetra Pak cartons by RUR which we will then install in the foyer.

Sir, we are attaching flyers which give further information on the organisation and the process as well as the registration form to register St. Xavier's College with this initiative.

Sir, we hope to kick start this initiative and begin collecting Tetra Pak cartons as soon as possible. We look forward to your support and cooperation.

The faculty in charge of this initiative will be Dr. Madhuri Hambarde (Department of Zoology), and the student representative will be Zachary Borthwick (TYBSc, President of Xavier's Zoology Association).

Sincerely,

**Dr. Smita Krishnan**

**Head of Department**

Project Approved

# XAVIER'S ZOOLOGY ASSOCIATION

DEPARTMENT OF ZOOLOGY  
ST. XAVIER'S COLLEGE - AUTONOMOUS, MUMBAI



Date: October 16<sup>th</sup> 2017

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Principal,  
St. Xavier's College (Autonomous),  
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Sincerely

*Madhuri*

**Dr. Madhuri Hambarde**  
Staff In-Charge Xavier's Zoology Association  
Department of Zoology  
St. Xavier's College  
Mumbai

*B.A. Menezes*  
**Approved by**  
**Dr. B.A. Menezes**  
Principal





Go Green with Tetra  
Pak

School Registration Form

Name of the School: St. Xavier's College ( Autonomous), Mumbai – Dept. Of Zoology

Address: St. Xavier's College, Mumbai, 5, Mahapalika marg, Mumbai-400001

Name of the Principal: Dr. Agnelo Menezes

Contact Number: 022-26200662

Email Id: agnelo.menezes@xaviers.edu

Name of the Go Green Teacher Representative: Dr. Madhuri Hambarde

Contact Number: 9969028671

Email Id: Madhuri.hambarde@xaviers.edu

Number of students: 145 Number of teachers: 5 Number of non-teaching staff: 3

Nearest Sahakari Bhandar/ Reliance Fresh Store: Regal

**What motivated you to be a part of Go Green with Tetra Pak?**

To recycle waste and reduce paper and in turn tree cutting

**Do you have a canteen?** YES

**How will you implement the Go Green Program in your school?** As part of social involvement program 50 tetra packs will be collected by each student.



How many A3/ A4 posters can be put on notice board? 2

Are you aware of the recycling incentive scheme? yes

Any other green practices being followed by the school: yes, recycle paper.

How will you communicate about Go Green with Tetra Pak program to the parents?

Presentation on parent teachers meeting day

### Green Pledge

We, the students and teachers of St. Xavier's College, are happy to be a part of Go Green with Tetra Pak initiative. We commit to segregate and collect empty cleaned, flattened Tetra Pak cartons for recycling. We pledge to recycle regularly and keep our environment clean.

Badhua  
Signature of the Go Green

B. H. ...

Date: 16/10/2017

Stamp & Signature Representative of the  
Principal





## DEPARTMENT OF ZOOLOGY

ST. XAVIER'S COLLEGE

MUMBAI - 400 001, INDIA

☎ : 2262 06 62 / 65

### **Report on the activity: Reduce, Reuse and Recycle (RUR)**

The Xavier's Zoology Association tied up with the RUR Greenlife Pvt. Ltd. 'RUR' and the 'Go Green with Tetra Pak Campaign' in order to promote a recycling practice and culture on campus and in student's homes in the year 2016-17.

RUR - "Are you Reducing, Reusing, and Recycling" is working towards a greener tomorrow by developing innovative, sustainable and decentralized waste management solution.

Dr. Madhuri Hambarde faculty-in-charge of Zoology Association registered with RUR and started by installing recycling bins in the canteen foyer where students and staff could deposit their Tetra Pak cartons at their convenience. These Tetra Pak cartons were deposited at the closest Sahakari Bhandar, where they were recycled into notebooks and benches which get donated to underprivileged schools.

Till 2019, approximately 3000 - 3200 tetrapaks were collected every year

In year 2019-2020 this activity was also done by Xaviers Zoology Association as a departmental SIP activity. Each student collected 50 tetrapaks washed and dried and submitted to the department for recycling.

**Dr. Smita Krishnan**

**Head of Department**

During the 2<sup>nd</sup> semester of my college, I decided to do this RUR activity through the Zoology department of my college for my departmental SIP credit. The activity involved collecting used tetra paks from friends, family, neighbours or wherever you see them lying around, cutting them open, washing and drying them and finally bundling them up to be sent to an environmental NGO who recycled them. I personally chose this activity because I felt it would be my way to contribute a small part towards saving the environment. Almost all of these tetra paks contain a thin layer of plastic film on the outside which does not break down or get recycled when it is just dumped in landfills along with other waste without any segregation. Donating these tetrapaks to an environmental NGO was our way of making sure that we were doing our part towards making sure that the right waste goes to the right place.



I started this activity with a goal of collecting a minimum of 50 tetra paks but ended up collecting a lot more because it gave me immense amount of satisfaction knowing that I am doing something good for the environment. A lot of my friends also started giving me the tetra paks that they would use at their homes or at college and I was glad to know that they were also taking additional effort rather than just disposing off the used tetra paks with other waste. Overall, I found this activity really useful and even more satisfying as it made me realize the amount of tetra paks that we consume every single day which might just end up with other waste without any segregation. It made me realize that it is time for me to step up as an individual and do my part towards saving the environment.

**Ramaa Shenoy**

**SYBSc**

**192239**

A handwritten signature in blue ink, appearing to read 'Ramaa Shenoy', with a horizontal line underneath.

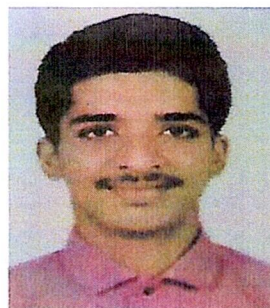
Name: ANKUR PATIL

UID: 192161

College: St.Xaviers college, Mumbai.

Class: SYBSc (Zoology/Chemistry)

Duration of RUR activity for SIP: First year (Sem I-II)



Tetra Pak recycling as a part of environmental protection is very doable and easy. Even myself being an outstation hostelite student felt comfortable doing it. The task was very easy and satisfying. It was a good feeling, being a part of such an important and huge process though with a minute contribution.

Implication of such small activities in the mass population can upscale the recycling process and bring about a noticeable amount of change. Doing such activities help individual personality development. It can also motivate some individuals to take up such activities on a larger scale.

All thanks to college and respective people concerned for providing such an opportunity.

A handwritten signature in blue ink, appearing to read 'Ankur Patil'. The signature is written in a cursive style with a long horizontal line extending to the right.

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**OLD NEWSPAPERS FORM**

DATE- 18/03/18

NAME OF DEPARTMENT General office

QUANTITY OF OLD NEWSPAPERS \_\_\_\_\_

PURPOSE To get exam papers

OLD NEWSPAPERS COLLECTED BY Mr. Mahadev

FULL SIGNATURE Rjm

Ms. B. Taskar  
MEDHA B. TASKAR  
LIBRARIAN

Rjm  
for SIGNATURE  
(HEAD OF DEPARTMENT)  
18/3/18

INDIAN EXPRESS - 2014 }  
THE ASIAN AGE - 2014 } 18/3/18

M. S. Sonule  
Mahadev P. Sonule

INDIAN EXP - 2014 July.

ASIAN AGE - JULY-14

Times of India - AUG-14.

4/3/15

**ST. XAVIER'S COLLEGE LIBRARY**

OLD NEWSPAPERS FORM

DATE- 3/3/15

NAME OF DEPARTMENT LIFE SCIENCE

QUANTITY OF OLD NEWSPAPERS 1000 sheet's

PURPOSE Practical purpose

OLD NEWSPAPERS COLLECTED BY Simon Joseph

FULL SIGNATURE \_\_\_\_\_

Medha B. Taskar  
MEDHA B. TASKAR  
LIBRARIAN

P. Mangalore  
SIGNATURE 3/3/15  
(HEAD OF DEPARTMENT)

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**OLD NEWSPAPERS FORM**

DATE-21/3/2016

NAME OF DEPARTMENT MMR (Custodians)

QUANTITY OF OLD NEWSPAPERS 25 Newspapers

PURPOSE To tie the answer booklets

OLD NEWSPAPERS COLLECTED BY Cajiten

FULL SIGNATURE *[Signature]*

*[Signature]*

MEDHA B. TASKAR  
LIBRARIAN

*[Signature]*  
21/3/16

SIGNATURE  
(HEAD OF DEPARTMENT)  
*Custodian*

**ST. XAVIER'S COLLEGE LIBRARY**  
**OLD NEWSPAPERS FORM**

DATE- 26/2/16

NAME OF DEPARTMENT LIFE SCIENCE

QUANTITY OF OLD NEWSPAPERS 1000

PURPOSE For Department work rapiry plates

OLD NEWSPAPERS COLLECTED BY Mac.

FULL SIGNATURE M. Hosonle

*Medha B. Taskar*  
MEDHA B. TASKAR  
LIBRARIAN

\_\_\_\_\_  
SIGNATURE  
(HEAD OF DEPARTMENT)

- ① The Hindu - 2014 DEC
- ② The Indian Express - Dec 2014
- ③ The Indian Express - Dec 2014
- ④ The Economics Times - Dec 2014
- ⑤ हेकिउग सिस्ट - Dec 2014
- ⑥ The Times of India - Dec - 2014
- ⑦ The Asian Age Dec 2014



**ST. XAVIER'S COLLEGE LIBRARY**  
**OLD NEWSPAPERS FORM**

DATE- 27/01/17

NAME OF DEPARTMENT MICROBIOLOGY

QUANTITY OF OLD NEWSPAPERS 1000

PURPOSE Wrappers for Autoclaving, - Micro Practical

OLD NEWSPAPERS COLLECTED BY \_\_\_\_\_

FULL SIGNATURE \_\_\_\_\_

MB Taskar  
MEDHA B. TASKAR  
LIBRARIAN

M Stewart  
SIGNATURE  
(HEAD OF DEPARTMENT)



The Indian EXPRESS - FEB - 2016

हेतुवद् 21577 इंग्लिश - 2016

हेतुवद् 21577 हिन्दी - 2016

The ASIAN AGE MARCH - 2016

The Indian EXPRESS - MARCH - 2016 - ②

The TIMES OF INDIA MARCH - 2016

DNA MARCH - 2016

The Sunday Guardian MARCH - 2016

The ECONOMIC TIMES - MARCH - 2016

MB Taskar  
27/01/17

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**OLD NEWSPAPERS FORM**

DATE- 09/03/17

NAME OF DEPARTMENT MICROBIOLOGY

QUANTITY OF OLD NEWSPAPERS TWO PACKETS

PURPOSE FOR WRAPPING OF GLASSWARE etc for PRACTICAL

OLD NEWSPAPERS COLLECTED BY Agneta Farkose

FULL SIGNATURE Agneta Farkose

MB Taskar  
**MEDHA B. TASKAR**  
**LIBRARIAN**

MB Stewart  
**SIGNATURE**  
**(HEAD OF DEPARTMENT)**

Ashok



THE HINDU - MARCH - 2016  
THE FREE PRESS JOURNAL - 2016  
MARCH,  
THE TIMES OF INDIA - APRIL - 2016

21/03/17  
9/3/17

**ST. XAVIER'S COLLEGE LIBRARY**  
**OLD NEWSPAPERS FORM**

DATE- 3/1/18

NAME OF DEPARTMENT LIFE SCIENCE

QUANTITY OF OLD NEWSPAPERS 1000

PURPOSE Practical

OLD NEWSPAPERS COLLECTED BY Avinash Agre

FULL SIGNATURE \_\_\_\_\_

Medha B. Taskar  
MEDHA B. TASKAR  
LIBRARIAN

Avinash Agre  
SIGNATURE  
(HEAD OF DEPARTMENT)

DEPARTMENT OF LIFE SCIENCE  
AND BIO CHEMISTRY  
ST. XAVIER'S COLLEGE,  
MAHAPALIKA MARG,  
MUMBAI - 400001

- ① The Times of India - Sept 2017
- ② The Hindu - Sept 2017
- ③ The Indian Express - Sept 2017
- ④ हेतु 21/2/17 - Sept 2017
- ⑤ The Times of India - Sept 2017

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DATE- 1st FEB, 2018

NAME OF DEPARTMENT MICROBIOLOGY

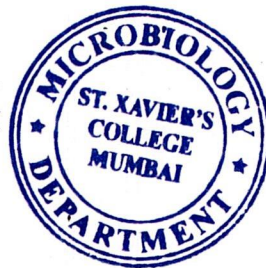
QUANTITY OF OLD NEWSPAPERS 6 Bundles

PURPOSE Wrapping for Practicals

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दैनिकीक २१२०१७ - OCT - ०१७

DNA - SEP - ०१७

THE TIMES OF INDIA - OCT - ०१७

THE ASIAN AGE - SEP - ०१७

The Indian EXPRESS - SEP - ०१७

The ECONOMIC TIMES - SEP - ०१७

The FREE PRESS JOURNAL - SEP - ०१७

The ECONOMIC TIMES - OCT - ०१७

MB Taskar  
1/2/2018

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NAME OF DEPARTMENT MICROBIOLOGY

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PURPOSE Wrapping for practicals

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31/1/2019



- ① DNA — Jan 2018
- ② The Sunday Guardian 2018 Jan
- ③ The Economics Times — Jan 2018
- ④ The Indian Express — Jan 2018
- ⑤ The Asian Age — Jan 2018
- ⑥ The Press Press Jr. — Jan 2018
- ⑦ The Indian Express — Jan 2018

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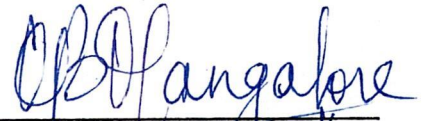
PURPOSE Practical

OLD NEWSPAPERS COLLECTED BY Avinash Agre

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for (HEAD OF DEPARTMENT)

Times of India - January 2018  
" " " "

" " February - 2018

Economic Times February - 2018