



ST. XAVIER'S COLLEGE

(AUTONOMOUS)

**5, Mahapalika Marg, Mumbai - 400 001,
INDIA.**

☎ 2262 0661/65

3.2.1: GRANTS RECEIVED FROM GOVERNMENT AND NON- GOVERNMENT AGENCIES

❖ Grant Allotment

- 2019-20: 11
- 2018-19: 10
- 2017-18: 04
- 2016-17: 07
- 2015-16: 05



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**5, Mahapalika Marg, Mumbai - 400 001,
INDIA.**

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2019 – 2020

University of Mumbai



Academic Planning and
Development Section
No. APD/ICD/2019-20/762
17th March, 2020

Sub : Minor Research Grant Project 2019-20

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st December, 2020.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st March, 2020 and submit original bills/vouchers of the expenditure along with Utilization Certificate duly certified by the Principal/Director/Head/Institute/University Department/College to the Accounts Section of the University.

Please note that 60% balance amount, out of sanctioned grant will be released after Poster Presentation & final approval of the committee. Therefore you need to submit of utilization certificate after presentation of your research including bills/vouchers/receipts in original through University Account Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st December, 2020.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,


Deepak V. More
Assistant Registrar
(APD Section)

82	Sonali Mahendrasing Rajput	S.K.Somaiya Vidyavihar's College of Arts Science & Commerce	30000
83	Dr.Deepak Popat Sable	Vidya Prasarak Mandal's K.G.Joshi College of Arts & N.G.Bedekar College of Commerce	40000
84	Dr. Flora Pandya	K.J. Somaiya College of Arts & Commerce	35000
85	Mr. Anand Annaso Kamble	G. B. Tatyasaheb Khare Commerce & Parvatibai Gurupad Dhere Arts and Shri Mahesh Janardan Bhosle Science College	40000
86	Mr. Sunil Dasharath Salve	New Education Society's Arts & Commerce College	35000
87	Prof. Vithal Shankar Sontakke	D.E. Society's Kirti M. Doongursee College of Arts Science and Commerce	40000
88	SHAIKH AALAM GAFUR	Sri Swami Vivekanand Education Society Kolhapur's Dr. Patangrao Kadam Arts & Commerce College	35000
89	Deepali Toraskar	K.J. Somaiya College of Arts & Commerce	48000
90	ADITI PARAG SAWANT	St. Xavier's College	40000
91	Dr. Liji Santosh	Bunts Sangha's S.M. Shetty College of Science Commerce and Management Studies At S.M. Shetty High School and Jr.College	21000
92	KAKASAHEB NIVRUTTI DHAWALE	Janardan Bhagat Shikshan Prasarak Sanstha's Changu Kana Thakur Arts Commerce and Science College	45000
93	Dr. Balasaheb Sahebrao Patil	Janardan Bhagat Shikshan Prasarak Sanstha's Changu Kana Thakur Arts Commerce and Science College	40000
94	Dandekar Rahul Prakash	L.S. Raheja College, Santacruz (W)	35000
95	Prof. Khatele Vinayak	Arts, Comm. & Sci. College, Jawhar	35000
96	Mrs. Chavan Shalaka Prakash	Saket College, Kalyan	38000
97	Dr. Kailash Nimbalkar	Utkarsha College of Arts, Comm. & Sci., Vashind	38000

Politics Apex Committee)

Project No.	Name of Principal Investigator	College name	Grant Sanction
98	Chandrasheel Babi Tambe	Smt. Chandibai Himathmal Mansukhani College	50000
99	Dattu Govind Kajale	The Kandivli Education Society's Bhanumati Kishandas Shroff of Arts and Maganlal Hargovinddas Shroff College of Commerce	30000
100	Dr. Bandekar Anand Prabhakar	Br. Balasaheb Khardekar College	50000
101	Dr. Minal A. Mapuskar	Kirti M. Doongarsee College	50000
102	Dr. Waman Gawade	Dr. Balasaheb Khardekar College, Vengurla	48000
103	Dr. Deepak Tanaji Pawar	Department of Political Sciece	75000
104	Dr. Rutuja Holkar	Bhavan College	75000

Sociology (Apex Committee)

123	KAMLESH RAMCHANDRA KAMBLE	Balasaheb Khardekar College of Arts Commerce & Science	40000
124	Dr. Deepali Gadkari	Department of Geography	50000
125	Prof Vishal Sampat Bhosale	Jeevandeep Shikshanik Sanstha Arts, Commerce & Science College	40000
126	Dr. PoojaMahendraMohite Assistant Professor. C/O - S.P.Hegshetye college P63.MIDC Ratnagiri	\\"Navnirman Shikshan Sanstha\" S. P. Hegshetye Arts Commerce & Science college S.M. Joshi Vidyaniketan P-63 M.I.D.C. \\r\\nTal. Ratnagiri Dist. Ratnagiri. 415 639\\n"	70000
127	DR. DEEPAK SHALIGRAM NARKHEDE	Janardan Bhagat Shikshan Prasarak Sanstha's Changu Kana Thakur Arts Commerce and Science College	30000
128	Dr. Pandurang P. Chaudhari	Department of Geography	40000
129	Dr. Prakash Dongre	Nagindas Khandwala College	80000
130	Mr. Machhindra Lahu Kumbhar	Nana Vanjare Vidyanagari Arts, Commerce & Science College, Lanja	60000
131	Mrs. Pratibha Gadhe	B. K. Birla College	25000
132	Dr. Vijay Jaydeo Herode	Jeevandeep Saikshnik Sanstha's Arts, Commerce & Science, Goveli	25000
133	Ms. Vrushali Kadam	B. K. Shroff College of Arts, N. H. Shroff College of Commerce	25000
134	Mr. Vishvjeet Vithal Pilake	Barns College of Arts, Science & Commerce	25000

Ancient Indian History Culture and Archaeology and Buddhist Studies

Project No.	Name of Principal Investigator	College name	Grant Sanction
135	Dr. Suraj A. Pandit	Parle Tilak Vidyalaya Association's Sathaye College	40000

Mass Media (Apex Committee)

Project No.	Name of Principal Investigator	College name	Grant Sanction
136	Dr.Sangita S.Mohanty	Vidya Prasarak Mandal's K.G.Joshi College of Arts & N.G.Bedekar College of Commerce	25000
137	Ms. Periyanyagi S.P.	St. Xavier's College, Mum - 01	25000

Library & Information Science

Project No.	Name of Principal Investigator	College name	Grant Sanction
138	Dr. Dattatraya Kalbande	Sadhubella Education Society's J.Watumull Sadhubella Girls College	40000
139	Parchure Keertee Ramchandra	Dapoli Education Society's Dapoli Urban Bank Senior Science College	35000
140	Mr. Kamalakar Madhukar Sawant	New Education Society's Arts & Commerce College	32000

591	Mrs Roonal Pritam Kataria	Jai Hind College Basantsing Institute of Science and J.T.Lalvani College of Commerce & Shaila Gopal Raheja College of Management	60000
592	Sangeeta Chavan	St. Xavier's College	50000
593	Mrs.Shweta V. Humbarwadi,	South Indian Children's Education Society's Arts Science & Commerce College	25000
594	Dr. Nitinkumar Panditrao Patil	Smt. Chandibai Himathmal Mansukhani College	35000
595	Dr. Shruti Samant	Bharatiya Vidya Bhavan's M.M. College of Arts N.M. Institute of Science and Haji Rashid Jaffer College of Commerce (Bhavan's College)	60000
596	Mrs. Radhika Birmole	Wilson College, Chowpatty, Mum - 400 007.	35000
597	swamini patade	Wilson College, Chowpatty, Mum - 400 007.	30000
598	Dr. Unnati Padalia	K.J. Somaiya College of Science & Commerce	40000
599	Joyline Mascarenhas	Wilson College, Chowpatty, Mum - 400 007.	25000
600	Anuradha S .Pendse	Wilson College, Chowpatty, Mum - 400 007.	50000
601	Meghana Gore	Wilson College, Chowpatty, Mum - 400 007.	25000
602	Dr. Sonal C Upadhyay	Vidya Vikas Education Society Vikas Night College of Arts Science and Commerce	25000
603	Maninder Kaur Dhaliwal	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	40000
604	Dr Dhiraj B Shekhawat	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	30000
605	Dr. Sejal Rathod	Kishinchand Chellaram College	60000
606	Dr.(Mrs) SANTHINI S. NAIR	Vivekanand Education Society's College of Arts Science and Commerce Sindhi society Chembur Mumbai - 400 071	50000
607	Ranjana Khade	R.K.Talreja College of Arts, Science and Commerce, Ulhasnagar - 421 003.	35000
608	Geetanjali Harale	Vivekanand Education Society's College of Arts Science and Commerce Sindhi society Chembur Mumbai - 400 071	30000
609	Chanda Berde	R. P. Gogate College of Arts and Science and R. V. Jogalekar College of Commerce, Ratnagiri - 415 612	25000
610	Mr. Nilkanth Bhalerao	G. B. Tatha Tatyasaheb Khare Commerce, Parvatibai Gurupad Dhere Arts & Shri. Mahesh Janardan Bhosale Science College, Guhagar, Dist. Ratnagiri	25000
611	Dr. Rohini Patil	R.K.Talreja College of Arts, Science and Commerce, Ulhasnagar - 421 003.	35000
612	Vinaya Jategaonkar	Vivekanand Education Society's College of Arts Science and Commerce Sindhi society Chembur Mumbai - 400 071	25000

Chemistry (Apex Committee)

Project No.	Name of Principal Investigator	College name	Grant Sanction
613	Dr. Suresh S. Shendage	The Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts Science and Commerce	55000
614	Mr.Santosh Sharadchandra Marathe	Dapoli Education Society's Dapoli Urban Bank Senior Science College	30000

615	Amol Arjun Nagargoje	Khalapur Taluka Shikshan Prasarak Mandal's Khopoli Municipal Council College	40000
616	Dr. Sharad Pandit Panchgalle	Khalapur Taluka Shikshan Prasarak Mandal's Khopoli Municipal Council College	50000
617	Dr. Sachin Vasant Bangale.	Gopinath Mahadeo Vedak Pratishthan GVM College of Science	40000
618	Dr. Shrikrishna Digambar Tupare	Konkan Education Society's Anandibai Pradhan Science College	40000
619	Dr.SURABHI	"Mahatma Education Society's Pillai College of Engineering Dr. K. M. Vasudevan Pillai Campus Sector 16 New Panvel Navi Mumbai- 410206	40000
620	ASHOK N PATANGE	Bharatiya Vidya Bhavan's M.M. College of Arts N.M. Institute of Science and Haji Rashid Jaffer College of Commerce (Bhavan's College)	60000
621	Walle Mahesh Radhakrishna	Sundarrao More Arts and Commerce College	35000
622	Dr. Babu A Yamgar	Dapoli Education Society's Dapoli Urban Bank Senior Science College	50000
623	Ms. Kusum Baser	Chembur Trombay Education Society's N.G. Acharya and D.K. Marathe College of Arts Science and Commerce	35000
624	Dr.Paresh Suryakant More	The Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts Science and Commerce	40000
625	Ms. Chhaya Manohar Pawar	Chembur Trombay Education Society's N.G. Acharya and D.K. Marathe College of Arts Science and Commerce	30000
626	Dr.(Mrs.) Ashma Aggarwal	St. Xavier's College	50000
627	Pramod Mohan Agale	G. B. Tatyasaheb Khare Commerce & Parvatibai Gurupad Dhere Arts and Shri Mahesh Janardan Bhosle Science College	20000
628	Dr.Meetali Das Gupta	Guru Nanak College of Arts, Science & Commerce	45000
629	Viajy Kumar L. Chavan	Shikshan Prasark Mandal's Ramnarain Ruia College Matunga	25000
630	Dr. Arjun Chavan	Thakur Educational Trust's Thakur College of Science & Commerce	25000
631	Dr. Thorat Babu Ranganath	Government of Maharashtra Ismail Yusuf College of Arts Science & Commerce	40000
632	Dr.Ashish S Uzgare	Wilson College	45000
633	Dr Maya Bhat	Vivekanand Education Society's Institute of Technology	40000
634	Dr. Sakina . Z. Bootwala	Wilson College	30000
635	Dr.Jayasree Gopalakrishnan	National Education Society Ratnam College of Arts Science and Commerce	50000
636	Prof. (Dr.) S.V. Rathod	Bharatiya Vidya Bhavan's Hazarimal Somani College of Arts and Science Jayaramdas Patel College of Commerce & Management Studies	40000
637	Dr. Kalpana N. Patankar Jain	Padmashri Annasaheb Jadhav Bharatiya Samaj Unnati Mandal's Bhiwandi Nizampur Nagarpalika Arts Science & Commerce College	30000
638	Dr. Hina Qasim Shaikh	Wilson College	35000
639	Mahesh Balasaheb Khanvilkar	Khalapur Taluka Shikshan Prasarak Mandal's Khopoli Municipal Council College	20000
640	Kartiki .Anilkumar.Bhave	The Bombay Salesian Society's Don Bosco Institute of Technology	55000

712	DR. PAWAR UMESH RAMCHANDRA	South Ratnagiri District Shikshan Prasarak Mandal's Shri Pancham Khemraj Mahavidyalaya	45000
713	DR AMIT YADAORAO SARAF	Government of Maharashtra Ismail Yusuf College of Arts Science & Commerce	40000
714	Dr. Ajit Abasaheb Kengar	The Kelkar Education Trust's Vinayak Ganesh Vaze College of Arts Science and Commerce	35000
715	DR. DETHE UTTAM LAXMAN	South Ratnagiri District Shikshan Prasarak Mandal's Shri Pancham Khemraj Mahavidyalaya	40000
716	Mr. Nitin Devram Shelake	Government of Maharashtra Ismail Yusuf College of Arts Science & Commerce	35000
717	Dr. Lal Sahab Yadav	Smt. Chandibai Himathmal Mansukhani College	45000
718	Gopal N. Deshpande	Padmashri Annasaheb Jadhav Bharatiya Samaj Unnati Mandal's Bhiwandi Nizampur Nagarpalika Arts Science & Commerce College	40000
719	DR.Asmita. S .Mestry	Bharatiya Vidya Bhavan's M.M. College of Arts N.M. Institute of Science and Haji Rashid Jaffer College of Commerce (Bhavan's College)	35000
720	Dr. Arun Nivrutti Chandore	Rayat Shikshan Sansthas Abasaheb Marathe Arts and New Commerce Science College	30000
721	Dr. Vikram Pralhad Masal	Dapoli Education Society's Dapoli Urban Bank Senior Science College	30000
722	Dr. Raghunath Laxman Ghalme	Dapoli Education Society's Dapoli Urban Bank Senior Science College	35000
723	Dr. Bindu Gopalkrishnan	Shri Vile Parle Kelvani Mandal's Mithibai College of Arts Chauhan Institute of Science and Amrutben Jivanlal College of Commerce and Economics	35000
724	Dr. Jai Knox	Wilson College	35000
725	Dr. Alpa K.Patel,	South Indian Children's Education Society's Arts Science & Commerce College	35000
726	Dr. Vinit Vaidya	Thakur Educational Trust's Thakur College of Science & Commerce	35000
727	Mr. Alok Gude	St. Xavier's College	30000
728	Shri. Suresh. S. Kale	Parle Tilak Vidyalaya Association's Sathaye College	45000
729	Leela Chauhan	Parle Tilak Vidyalaya Association's Sathaye College	35000
730	Dr. Vijaya Lobo	St. Xavier's College	35000
731	Dr. V. G. Chari	Seva Sadan's R.K.Talreja College of Arts Science and Commerce	45000
732	Vijay Kisan Hile	Bharatiya Vidya Bhavan's Hazarimal Somani College of Arts and Science Jayaramdas Patel College of Commerce & Management Studies	40000
733	Dr. Sarita S. Hajirnis	Satish Pradhan Dnyansadhana College Thane (Arts Science and Commerce)	40000
734	Dr. Dhanashree Sagar Patil	Br. Balasaheb Khardekar College	35000
735	Dr. Ritu L. Jain	G. M. Momin College	35000
736	Dr. Deepa Ramabhilash Varma	Visnu Vaman Thakur College, Virar	30000
737	Dr. Rajbhoj Balaji Govindrao	Sundarrao More College of Arts, Comm. & Sci., Poladpur	35000

760	Minal Atul Sarode	South Indian Education Societys College Of Arts Science And Commerce.	25000
761	Mr. Rakesh Suresh Wadvalkar	Hirwal Education Trusts College of Computer Science and Information Technology H.No.1913 Āant Complex Shor No.2 M.G. Road A/p Mahad At Mahad Dist. Raigad	30000
762	Esmita Gupta	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	20000
763	Sachin Kambl	Thakur Educational Trust's Thakur College of Science & Commerce	40000
764	Vinod D Rajput	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	27000
765	Mrs. Ashwini Suyog Kulkarni	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	35000
766	Reshma Desai	Thakur College of Science & Commerce, Shyamnarayan Thakur Marg, Thakur Village, Kandivali (E), Mumbai - 400101	10000
767	Neelam Tandel	Royal College of Arts Science and Commerce, Penkar Pada, Mira Road, Dist. Thane	25000
768	Abhijit avithal Palse	Sanskar Sarjan Edu. Sco. D.T.S.S. College of Commerce & P. D. Turakhia Junior College of Commerce & Science, Kurar Village, Malad (E), Mumbai - 400 097.	15000
769	Chinmaya K. Bari	N. B. Mehta (Valwada) Science College, Acharya Bhise Vidyanagar, Bordi, Tal. Dahanu, Dist. Palghar	35000

Life Science (Apex Committee)

Project No.	Name of Principal Investigator	College name	Grant Sanction
770	Niloufer K. Kotwal	Jai Hind College Basantsing Institute of Science and J.T.Lalvani College of Commerce & Shaila Gopal Raheja College of Management	50000
771	Ms. REMYA MADAN GOPAL	\ " Pillais HOC College of Arts Science and Commerce Educational Campus HOC Colony Rasayani Tal.Khalapur Dist. Raigad.-410 207\r\n\"	45000
772	Dr Suvarna Ashutosh Sharma	Kishinchand Chellaram College	30000
773	Dr. Tejashree V. Shanbhag	Kishinchand Chellaram College	55000
774	Seema Das	St. Xavier's College	55000
775	Dr. Shalini A Rai	Kishinchand Chellaram College	53000
776	Dr. Radhika Tendulkar	St. Xavier's College	50000

Environmental Science (Apex Committee)

Project No.	Name of Principal Investigator	College name	Grant Sanction
777	Dr Pandurang Yashwant Patil	Sub-Centre, Ratnagiri, University of Mumbai	40000
778	Ms. Mamata Tendulkar	K.J. Somaiya College of Arts & Commerce	65000
779	Mr. NILESH SUDAM ROKADE	Sub-Centre, Ratnagiri, University of Mumbai	75000
780	Dr. Sonali Zankar Patil	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	40000

781	Dr Rita Das	Bhartiya Vidya Bhavani's Sardar Patel Institute of Technology	40000
782	Ms. Pranoti Chinmay Khanolkar	K.J. Somaiya College of Engineering	40000
783	Amit Subhash Yadav	Parle Tilak Vidyalyaya Association's Mulund College of Commerce	40000
784	Dr. Poonam Nirmalkumar Kurve	B. N. Bandodkar College of Science	50000
785	Dr. Sonal P. Tavde	B. K. Birla College, Kalyan	40000
786	Dr. Vandana Gupta	B. K. Birla College, Kalyan	40000

Bio-analytical Science (Apex Committee)

Project No.	Name of Principal Investigator	College name	Grant Sanction
787	Sachin Palekar	Ruia College, Matunga	40000

Biotechnology (Apex Committee)

Project No.	Name of Principal Investigator	College name	Grant Sanction
788	Jyoti Raju Kadam	Mahatma Education Society's Pillai's College of Architecture Dr. K.M. Vasudevan Pillai's Campus Sector 10 16 New Panvel - 410206	40000
789	Dr. JayaPrada Rao Chunduri	Shri Vile Parle Kelvani Mandal's Mithibai College of Arts Chauhan Institute of Science and Amrutben Jivanlal College of Commerce and Economics	60000
790	Dr. (Mrs.) Aparna Deeshmukh	Thakur Educational Trust's Thakur College of Science & Commerce	40000
791	Dr. Shiney Peter	St. Xavier's College	70000
792	Ms. Norine D'Souza	St. Xavier's College	70000
793	Dr. Annika Gupta	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	40000
794	Dr. Shivani Kakkar Khanna	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	40000
795	Dr.Minal M.Trivedi	Kalyan Citizens' Education Society's Birla College of Arts Science & Commerce	35000
796	Dr. Rajpal Shripat Hande	Shri Vile Parle Kelvani Mandal's Mithibai College of Arts Chauhan Institute of Science and Amrutben Jivanlal College of Commerce and Economics	40000

Information Technology (Science) (Apex Committee)

Project No.	Name of Principal Investigator	College name	Grant Sanction
797	Ms. Varsha Umesh Dhanawade	South Indian Education Society's College of Commerce & Economics	35000
798	Mr. Wendrich Soares	Vedanta College of Management and Information Technology	28000
799	Payal Shah	Vidyalankar School of Information Technology	15000
800	Mr. Prashant M Savdekar	Vedanta College of Management and Information Technology	30000



Ekonnnect Knowledge Foundation

504/505, 5th Floor, Balarama Building, Bandra Kurla Complex, (BKC),
Near MMRDA office, Bandra (E), Mumbai 400 051, INDIA.

T: +91-22-62215944 / 5946
W: www.ekonnnect.net

Letter of Understanding

This Letter of Understanding ("LoU") is signed on **7th day of August 2019**

Between

Ekonnnect Knowledge Foundation, is a non-profit Section 8 company, established in 2012, having its registered office at 504/505, 5th Floor, Balarama Building, Opposite MMRDA Office, Bandra Kurla Complex, Bandra East, Mumbai 400 051, hereafter referred to as "Ekonnnect"

And

St. Xavier's College - Autonomous, Mumbai, is a not for profit educational institute with campus located at 5, Mahapalika Marg, Mumbai 400-001, Maharashtra, India, 'hereafter referred to as "Institution".

Whereas,

- a) **Ekonnnect, FCRA number: 083781552 (Refer Annex A1)** with is a non-profit Section 8 company, established in 2012 that aspires to build a more responsible and sustainable world by raising awareness, building appropriate content, conducting training, creating and disseminating knowledge products, demonstrating and promoting sustainable practices supporting eco-entrepreneurship and establishing knowledge networks on the theme of environmental management and sustainability.
- b) ***Bombay St Xaviers College Society (St. Xaviers College- Autonomous, Mumbai), with FCRA number: 083780037 (Refer Annex A2)*** is a non-profit educational institute established in 1869 and affiliated to the University of Mumbai. The college now in the 150th year strives to be a true Jesuit institute. Our vision is to be an academic community dedicated to the holistic education of future leaders who will demonstrate innovation in their professional competencies, integration in their personal lives and inclusion in their social contribution.

Background

Ekonnnect Knowledge Foundation (Ekonnnect) and the U.S. Consulate General, Mumbai (USCG-M) partnered and developed a nine-month youth leadership program (Award No- SIN65018GR0030) that matches environmental experts (mentors) with young leaders (mentees) to bring to life scalable, replicable and innovative solutions that address environmental challenges.

The objectives of the program are:

- Educate young leaders on entrepreneurial and problem-solving skills in relation to environmental sustainability
- Catalyze the conception of innovative sustainable solutions that address India's pressing challenges in relation to natural resource stewardship as well as air, water and other pollution

Applications were sought from various eligible institutions in the western region of India for conceiving and implementing short projects on the themes of Water Management, Air Quality Monitoring &



Ekonnnect Knowledge Foundation

504/505, 5th Floor, Balarama Building, Bandra Kurla Complex, (BKC),
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Control, Organic Solid Waste Management, Renewable Energy & Energy Efficiency, Plastic Waste Management and Biodiversity.

Five mentee teams were selected to undergo training in three workshops and develop an implementable project plan and skills in leadership. The three workshops addressed the following:

1. Concept plan to project plan (6th February 2019)
2. Project plan to environmental decision making (16th April 2019)
3. Understanding grassroots operations (15th July 2019)

Each workshop had presentations and interactive session(s). In addition, eco-entrepreneurs were invited to speak on their journey and share their success story.

A pitching session and award ceremony was conducted on 25th July 2019 to select two teams who could be awarded a grant to implement their project over a three-month period (August, September and October 2019).

Description of the Project

St. Xavier's College, Mumbai (Autonomous) has been awarded a grant to implement the project titled '**Recycling Grey Water after treatment by Electrocoagulation**' under the Mentorship Program for Youth Leaders in Environment Conservation (Award No- SIN65018GR0030).

Project Theme:

Water Management

Problem Statement:

Fresh water availability is a crisis worldwide and particularly affects India. The NITI Aayog in a June 2018 study warns that India is facing its 'worst' water crisis in history and the demand is likely to double the supply by 20. Nearly 600 million Indians faced high to extreme water stress in the last year alone. St. Xavier's College, Mumbai, during the month of January to March 2019 faced acute water shortage, due to frequent water cuts and reduced supply from the Municipal Corporation and depletion of the ground water in the in house bore well. To meet the regular needs the college, the college had to incur frequent purchases of tanker water. It is estimated that about 40 to 60 % of fresh water used is discarded as Grey water which can be treated and recycled for non potable use.

Desired Solution:

The project aims to design and develop a modular small scale grey water treatment technology- based on the principle of 'Electrocoagulation'. When electricity is passed through polluted water through sacrificial metal electrodes, the metal ion dissociate in to the water. The dissociated metal ions will attract pollutants and coagulate them. The coagulated floccs formed can be then easily filtered or separated. During this treatment, the polluted water loses its turbidity, COD, BOD and can be reused for flushes, gardening and other non-contact use. This will offset fresh water use in areas where fresh water is not needed and enhance its availability for potable use.



Ekonnnect Knowledge Foundation

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The case in point for implementation is St. Xavier's College, Mumbai (Autonomous). The grey water shall be collected from the hostel building and post treatment the recycled water shall be supplied to the flush tanks in the same building. This can ensure a savings of about 7000 L of fresh water daily and will eventually translate into financial savings spent on fresh water purchase. Last year the college bore approximately Rs. 40,000/- additional cost for fresh water purchase during the water deficient period of 3 months. Efficient recycling will offset this demand and reduce expenditure.

The project will involve design development installation and implementation of an Electrocoagulation unit. Once developed the modular Electrocoagulation unit can be replicated at other residential buildings, individual homes and public toilets. Their utility in the numerous new public toilet constructions is a promising solution to meet the goals of improved sanitation and water savings.

The Institution nominates the following students to carry out the implementation of the project as described above. Refer **Annex B**.

1. Zubia Shaikh
2. Karishma Katpitia

Amount and Time Period

1. Ekonnnect hereby agrees to grant US \$4500 to the Institution to carry out the activities as described in the project work plan. Refer **Annex C & D** for details on project work plan and bank account details of the Institution.
2. Funds granted are available to reimburse project expenditures as shown in the Budget. Refer **Annex E** for detailed budget.
3. The effective grant period is from August 1, 2019 to October 31, 2019. The project is to be implemented during the above period.
4. Any expenditure that may occur either before or after the project implementation period is to be borne solely by the Institution.
5. Any expenditure in excess to the grant fund is to be borne solely by the Institution.

Grant Disbursement and Reporting Obligations

1. Disbursements of the grant fund will be paid on a monthly basis following submission of a Monthly Financial Report ("MFR"), and Monthly Narrative Reports ("MNR") on the status of the project implemented by the Institution. Refer **Annex F & Annex G** for formats of the MFR and MNR.
2. The Institution will submit the MFR and MNR to Ekonnnect by the 15th day of the next month for the previous month's activities.
3. The MNR shall provide a status against the proposed work plan and associated timeline.
4. Both MFR and MNR shall be attested by the Institution prior to submission.
5. Reimbursements shall not include the time value of money spent by the Institution on the project.
6. All original attested receipts, bills and financial records substantiating grant expenditures must be submitted with the MFR.
7. Disbursements will be made once this agreement is signed and an approved Budget and work plan for the project is provided by the Institution at the time of signing the agreement.



Ekonnnect Knowledge Foundation

504/505, 5th Floor, Balarama Building, Bandra Kuria Complex, (BKC),
Near MMRDA office, Bandra (E), Mumbai 400 051, INDIA.

T: +91-22-62215944 / 5946
W: www.ekonnnect.net

8. A Final Financial Report and Narrative Report will be submitted by the Institution at the end of the project implementation period incorporating statements and status provided in the previous monthly reports submitted by the Institution.
9. Actions taken against the findings and observations provided by Ekonnnect during project review/evaluation shall be included in the report.
- 4 The Institution shall ensure that there will be no release of any information of the project '**Recycling Grey Water after treatment by Electrocoagulation**' to the media without prior approval of Ekonnnect.
- 5 All publications and showcases (presentations/seminars) of the project by the Institution, will only be carried out post successful completion of the project and closure of all associated transactions cleared by Ekonnnect.
- 6 In case the Institution wishes to present or showcase the project, either to media or in form of a research paper, they must acknowledge the U.S. Consulate General, Mumbai (Award No-SIN65018GR0030), associated Mentor and Ekonnnect.

Fixed and Capital Assets

1. All capital expenditures carried out for this project will be specifically restricted to the use of the project '**Recycling Grey Water after treatment by Electrocoagulation**' alone.
2. On conclusion of the project, these equipment/assets may be transferred to the Institution or representatives appointed by the Institution for continuous maintenance.
3. The Institution, will ensure that these equipment/assets are continued to be used and maintained in satisfactory condition.

Project Review

1. Ekonnnect and U.S. Consulate General, Mumbai will conduct two site visits, one during the course of project implementation and second, post the project completion. The mentor will also be present during the project review visit.
2. Recommendations suggested by the project review team post site visit will be incorporated suitably into the project.
3. Expenses for conduct of the site visit shall be borne by Ekonnnect, however the Institution will ensure facilitation of the site visit. Prior intimation of at least seven days will be provided by Ekonnnect to the Institution.
4. Institution needs to report implementation status to the Mentor on a fortnightly basis with a copy sent to Ekonnnect.

Modifications

1. Any alteration in the project implementation team or project plan or project expenditures shall be carried out only after approval from Ekonnnect and on providing sufficient justification.



Ekonnnect Knowledge Foundation

504/505, 5th Floor, Balarama Building, Bandra Kurla Complex, (BKC),
Near MMRDA office, Bandra (E), Mumbai 400 051, INDIA.

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2. Intimation of alterations should be provided to Ekonnnect at least 30 days prior to the scheduled change.
3. It should be noted that alterations are not encouraged and Ekonnnect reserves the right to decline a request for alteration.

Liability

1. The Institution shall ensure that adequate safety mechanisms are employed during project implementation to ensure safety of persons, equipment, and process involved.
2. Ekonnnect does not assume liability for any claims for damages arising out of this grant.
3. This engagement letter will be governed in accordance with the laws of India and shall be subject to the exclusive jurisdiction of the courts in Mumbai.

Sign and Seal of **ST. XAVIER'S COLLEGE** Autonomous,
Mumbai
Name: Dr. Rajendra Shinde
Title: Principal
Date: 7th August, 2019



Sign and Seal of Ekonnnect Knowledge
Foundation
Name: *[Signature]*
Title:
Date: 7th August, 2019



List of Annexes (to be attached with the final signed 'LoU'):

- Annex A1 –Foreign Contribution Regulation Act (FCRA) license certificate of the Ekonnnect Knowledge Foundation.
- Annex A2- Foreign Contribution Regulation Act (FCRA) license certificate of the institution
- Annex B – Bonafide letter from Institution for the students (mentees).
- Annex C – Final approved work plan
- Annex D–Account details of the Institution authorised to obtain grants under the Foreign Contribution Regulation Act.
- Annex E – Final approved budget plan
- Annex F – Format for submission of Monthly Financial Report ("MFR")
- Annex G – Format for submission of Monthly Narrative Reports ("MNR")

Annex F – Format for submission of Monthly Financial Report ("MFR")

Recipient of Grant	St. Xavier's College- Autonomous, Mumbai
Title of Project	Recycling Grey Water after treatment by Electrocoagulation'
Award Number	SIN65018GR0030



Certificate of Award



granted under the

Mentorship Program for Youth Leaders in Environment Conversation

to

St. Xavier's College, Mumbai

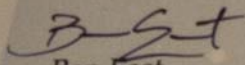
represented by

Ms. Zubia Shaikh, Ms. Karishma Katpitia

and mentored by *Ms. Shriya Bhatia*

for the project titled

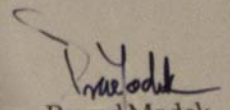
'Recycling Grey Water After Treatment by Electrocoagulation'


Ben East

Public Affairs Officer

U.S. Consulate General, Mumbai

Date: July 25, 2019


Prasad Modak
Director

Ekonnect Knowledge Found



Recycling Grey Water after treatment by Electrocoagulation

Ms. Karishma Katpitia, Ms. Zubia Shaikh, Dr. Binoj Kutty
St. Xavier's College (Autonomous), Mumbai



Introduction

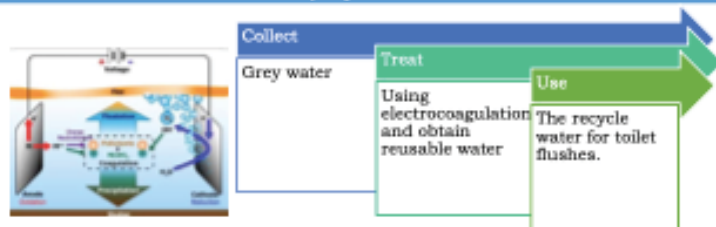
- Acute water shortage a real threat in modern times (DAY ZERO)
- 21 Indian cities will run out of groundwater by 2020
- Between 60 and 65 percent of the water that goes down a home's drain has the potential to be reused
- Grey Water: Waster water from bathing, washing, kitchen etc.
- Black Water: Sewage containing waste water
- A single person flushes down about 30 - 50L water in a day
- Need to innovate methods to recycle used water for non potable uses

Target



- Boys Hostel at St Xavier's College, (Autonomous) Mumbai.
- Generates around 5000L of Grey Water daily when occupied at full capacity
- Recycle the grey water generated for non-potable use
- Reduce dependence on fresh water

This project aims to



Potential saving

Amount of total grey water generated
• 5000litres

Amount of water treated / day
• 2000 litres

Amount of water recycled
• 1000 litres

Building the treatment plant



Batch Process for 1L, 5L grey water treatment



Treatment Efficiency



Flow diagram



The treatment plant installed at site

Future directions

Elaborate chemical and Biological analysis of treated water

Optimization of process parameters

Sludge Separation and disposal strategies

Scaling up the Pilot Scale Model for larger volume

Improve for mass production installation

Accessible, Affordable and Available Technology

Acknowledgements

- This work was supported by U.S. Consulate General Mumbai for a Grant no SIN65018GR0030 as a part of the Mentorship Program for Youth Leaders in Environment Conservation held in association with Ekonnnect Knowledge Foundation.
- We acknowledge
 - Dr. Prasad Modak, Ms. Shivranjani & Mr. Pranay of the Ekonnnect foundation
 - Ms. Shriya Bhatia and Nayan Khambati
 - Principal -Dr. Rajendra Shinde, Rector - Fr. Keith D'Souza for their constant encouragement and support
 - Dr. Seema Das and faculty members of Life Science and Biochemistry
 - Non teaching staff of the department and Administrative staff of St. Xavier's College, (Autonomous) Mumbai

References

- Facts about water . The Water Project. Retrieved from <https://thewaterproject.org/water-crisis/water-in-crisis-india>
- Google Maps, <https://www.google.com/maps/@18.9431993,72.8314328,154m/data=!3m1!1e3>
- S. Vigneswaran, M. Sundaravadiel Recycle and Reuse of Domestic Wastewater, Wastewater recycle, reuse, and reclamation - Encyclopedia of Life Support Systems (EOLSS)



ST. XAVIER'S COLLEGE

(AUTONOMOUS)

**5, Mahapalika Marg, Mumbai - 400 001,
INDIA.**

☎ 2262 0661/65

2018 – 2019

University of Mumbai



Research Project No:241

NAME OF THE RESEARCHER : Aparna Kulkarni
LECTURE IN : Economics
AMOUNT SANCTIONED : Rs.25000 /-

Ref No. APD/237/601 of 2019
27th March, 2019

To,
The Principal,
St. Xaviers College, 5, Mahapalika Marg,
Mumbai-400 001.

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st March, 2019 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to the Accounts Section of University.

Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

Swarna
Assistant Registrar
(Academic Planning & Development)

University of Mumbai



Research Project No:333

NAME OF THE RESEARCHER : BOBBY P MATHEW
LECTURE IN : Geology
AMOUNT SANCTIONED : Rs.65000 /-

Ref No. APD/237/601 of 2019
27th March, 2019

To,
The Principal,
St. Xavier's College, 5, Mahapalika Marg, Mumbai -400 001.

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

S. Sawant
Assistant Registrar

(Academic Planning & Development)

University of Mumbai



Research Project No:336

NAME OF THE RESEARCHER : DR. BINOJ C. KUTTY
LECTURE 'N : Life Sciences
AMOUNT SANCTIONED : Rs.40000 /-

Ref No. APD/237/601 of 2019
27th March, 2019

To,
The Principal,
St. Xavier's College 5, Mahapalika Marg, Mumbai - 400 001

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

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The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

S. Sawant

Assistant Registrar
(Academic Planning & Development)

[Signature]

PRINCIPAL
ST. XAVIER'S COLLEGE
MUMBAI - 400 001.





Research Project No:337

NAME OF THE RESEARCHER ✓ Sangeeta R. Shetty
LECTURE IN : Life Sciences
AMOUNT SANCTIONED : Rs.40000 /-

Ref No. APD/237/601 of 2019

27th March, 2019.

To,
The Principal,
St. Xavier's College 5, Mahapalika Marg, Mumbai - 400 001

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Inward No. 172(18-19)

DATE REC ON 5/4/19

Accepted By: Principal

Received From:

Filed In. I-1906, PF-2086

Submitted to: Ms. Sangeeta Shetty

5/4/19

Yours faithfully,

S. S. Sawant

Assistant Registrar
(Academic Planning & Development)

University of Mumbai



Research Project No:339

NAME OF THE RESEARCHER : Dr. Manasi K. Kanuga
LECTURE IN : Life Sciences
AMOUNT SANCTIONED : Rs.40000 /-

Ref No. APD/237/601 of 2019
27th March, 2019

To,
The Principal,
St. Xavier's College 5, Mahapalika Marg, Mumbai - 400 001

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

[Signature]

PRINCIPAL
ST. XAVIER'S COLLEGE
MUMBAI - 400 001

PRINCIPAL
ST. XAVIER'S COLLEGE



Yours faithfully,

[Signature]
Assistant Registrar
(Academic Planning & Development)

University of Mumbai



PF: 2081
I-190F

Research Project No:361

NAME OF THE RESEARCHER
LECTURE IN
AMOUNT SANCTIONED

✓ : Dr. (Ms.) Karuna Gokarn
: Micro-Biology
: Rs.35000 /-

Ref No. APD/237/601 of 2019
27th March, 2019

To,
The Principal,
St. Xavier's college (autonomous), 5 mahapalika Marg, Mumbai - 400 001

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

ward No. 171/12-19
DATE REC ON. 5/4/19
Accepted By: Principal
Received From:
Filed In. I-190F, PF-2081
Submitted to: Dr. Karuna G
5/4/19

Yours faithfully,

S. Sawant
Assistant Registrar
(Academic Planning & Development)

University of Mumbai



Research Project No:362

NAME OF THE RESEARCHER : Pampi Chakraborty
LECTURE IN : Micro-Biology
AMOUNT SANCTIONED : Rs.25000 /-

Ref No. APD/237/601 of 2019
27th March, 2019

To,
The Principal,
St. Xavier's college (autonomous), 5 mahapalika Marg, Mumbai - 400 001

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2019.

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

Suswant
Assistant Registrar
(Academic Planning & Development)



Research Project No:369

NAME OF THE RESEARCHER : Dr. Aparna Talekar
LECTURE IN : Micro-Biology
AMOUNT SANCTIONED : Rs.25000 /-

Ref No. APD/237/601 of 2019
27th March, 2019

To,
The Principal,
St. Xavier's college (autonomous), 5 mahapalika Marg, Mumbai - 400 001

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

Sudhant
Assistant Registrar
(Academic Planning & Development)

University of Mumbai



Research Project No:331

NAME OF THE RESEARCHER : Hrishikesh P. Samant
LECTURE IN : Geology
AMOUNT SANCTIONED : Rs.80000 /-

Ref No. APD/237/601 of 2019

27th March, 2019

To,
The Principal,
St. Xavier's College, 5, Mahapalika Marg,
Mumbai -400 001.

Sub: - Minor Research Grant Project.

Sir/Madam,

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The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2019.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

S. Sawant
Assistant Registrar

(Academic Planning & Development)

Date: 11 Sept 2018

To,
Dr. Priya S.
Director,
Caius Research Laboratory
St. Xavier's College, Mumbai.

Subject: Initiating the Penicillin G amidase research project.

Respected Madam,


As per our earlier discussions we would like to initiate the PGA research project in collaboration with Caius lab. We would like to start the project at the earliest.

The laboratory charges will be paid in accordance with the budget provided by you. We will provide all the possible assistance required to carry out the project smoothly.

Consultancy charges of Dr. Vishwas S. and salary for the JRF appointed will be paid by Biolaxi Corporation separately.

We are thankful for the cooperation and look forward to enrich our scientific knowledge with you.

Best Regards,


Yatinkumar Wani
Director,
Biolaxi Corporation.

BIOLAXI CORPORATION

Regd. Works Add.: A2/110, Babosa Industrial Park, Mumbai Nasik Highway, Saravali Village, Next To Vatika Hotel, Bhiwandi - 421 302 Mumbai, India
Comm. Add.: 506/B1, Krishna Greenland Park, G.B. Rd., Kasarwadavali, Thane - 400 615. India Tel : 0091 - 22 - 2597 2163
Mob : 0091 8655500176 / 0091 9967193336 / Email : biolaxi@gmail.com Website : www.biolaxi.in / www.biolaxi.com

Memorandum of Understanding
between
Biolaxi Corporation Pvt Ltd, Thane
and
St. Xavier's College (Autonomous), Mumbai
for
Strain improvement for penicillin G amidase production

This Memorandum of Understanding (MoU) has been arrived at between Biolaxi Corporation Pvt Ltd, Thane and St Xavier's College (Autonomous), Mumbai 400 001, for a project to improve *E. coli* strain for enhanced activity of penicillin G amidase enzyme. This MoU will be effective from 01 October 2018.

The terms of this Memorandum of Understanding are as follows:

Duration and Scope of Work:

The project aims to obtain *E. coli* isolates that produce larger quantities of penicillin G amidase with improved activity and stability. The duration of the project will be three months. The work will be carried out in Caius Research Laboratory (CRL) of St. Xavier's College (Autonomous), Mumbai, under the guidance of Dr. Priya Sudarajan (Principal Investigator) and Dr. Vishwas Sarangdhar (Consultant).

The work will involve the following aspects:

- A. Mutagenesis of *E. coli* strain that produces penicillin G amidase;
- B. Selection of clones that produce larger amounts of this enzyme;
- C. Improvement of enzyme stability by using different formulations.

A. Mutagenesis of *E. coli* strain:

The *E. coli* strain that produces penicillin G amidase will be obtained by Biolaxi Corporation and given to Caius Research Laboratory, St. Xavier's College, Mumbai. The strain will be mutagenized using classical microbiological techniques.

B. Selection of clones that over-produce penicillin G amidase:

After mutagenesis, the *E. coli* cells will be selected on plates with *Serratia* for identification of clones that produce larger amounts of the enzyme.

C. Improvement of enzyme stability:

The clones that over-produce the enzyme will be grown under different environmental conditions. The cells and the enzyme produced will be formulated for improvement in enzyme stability and processivity.

College Infrastructure:

The College agrees to provide all the necessary equipment, such as autoclaves, laminar air-flow work-stations, incubators and shakers necessary to carry out microbial work. Any equipment newly purchased for the work to be carried out for this project will be paid for by Biolaxi Corporation and it will remain the property of the Company. The College agrees to surrender the said equipment to the Company at the end of the Project Tenure or at the earlier termination of this Agreement. The chemicals and consumables needed to carry out fermentations and various assays shall be procured as and when required by the college.

Expenditure:

The cost for the work to be carried out at Caius Research Laboratory, St Xavier's College (Autonomous), Mumbai, is as follows (in Indian Rupees):

Chemicals for enzyme assays and selection of improved clones	40,000/-
Plasticware for the same	20,000/-
Overhead charges to St. Xavier's College, Mumbai	15,000/-
18%GST	13,500/-
Total	88,500/-

(Rupees Eighty eight thousand five hundred only)

The payment for this work should be made directly to St. Xavier's College (Autonomous), Mumbai. The cost mentioned above include charges for the use of equipment, materials, electricity, water, etc., in the Caius Research Laboratory and the Central Instrumentation Facility of St. Xavier's College (Autonomous), Mumbai.

The first installment of a sum of INR 44,840/- shall be paid to St. Xavier's College (Autonomous), Mumbai at the commencement of the project. After two months, the remaining amount of INR 43,660/- will be paid to St. Xavier's College, Mumbai.

In addition, Consultancy Fees for Dr. Vishwas Sarangdhar will be paid separately to him at INR 25,000/- per month. These fees are not part of the payment to St. Xavier's College. There will be no GST for the payment of the consultancy fees. There will be no consultancy charges for Dr. Priya Sundarrajan.

Biolaxi Corporation Scope of Work:

Biolaxi Corporation will obtain the *E. coli* strain that produces penicillin G amidase and give it to Caius Research Laboratory, St. Xavier's College, Mumbai.

Work to be carried out at the Caius Research Laboratory of St. Xavier's College (Autonomous), Mumbai:

To carry out the research activities for this project, one full-time Project Research Fellow will be appointed for the duration of the project (the payment for personnel is not included in the College expenditure and should be borne separately by Biolaxi Corporation). The Research Fellow, under the training and guidance of Dr. Vishwas Sarangdhar and Dr. Priya Sundarrajan, will:

- a) mutagenize *E. coli* strain using classical mutagenesis methods;
- b) select clones that produce large amounts of the enzyme;
- c) devise formulations to improve enzyme stability;
- d) record, document, and compile all data.

Confidentiality:

All records of the work carried out will be kept confidential. No Confidential Information in the Scope of Work shall be disclosed to any third party without the prior written consent of Biolaxi Corporation. For the purposes of this Agreement, "Confidential Information" shall mean all documents, software, databases, materials, tests, investigations conducted by Caius Research Laboratory and information disclosed by Biolaxi Corporation to the College at any time during or for the implementation of the present project, including but not limited to trade secrets, business and technical information and data. The College agrees that it will not make commercial use of the said Confidential Information received hereunder.

Intellectual Property Rights:

The Intellectual Property Rights (IPR), if any are derived, will remain solely with Biolaxi Corporation. No results can be published without a prior written consent from Biolaxi Corporation.

Timeline:

After the signing of the agreement with Biolaxi Corporation, the work will be carried out as per the following schedule:

- Months 1-2 : Mutagenesis of *E. coli* and selection of clones that over-produce penicillin G amidase enzyme.
- Months 2-3 : Formulations of cells and/ or the enzyme for improved stability. These will be tested for stability in organic solvents and repeated use.

The clones identified for further process development will be transferred to Biolaxi Corporation. All relevant reference material and standards will be shared with the Company.


Termination of the Project

Should either side wish to terminate the agreement earlier, notice of one calendar month must be given in writing to the Director, Biolaxi Corporation; or the Principal, St. Xavier's college, Mumbai, as the case might be. In such case, the College will be paid on a *pro rata* basis for the duration of work already carried out.

In the event of any dispute arising out of this Agreement, Mumbai Courts will have the jurisdiction to entertain such disputes.


Mr Yatin Wani
Director,
Biolaxi Corporation,
Thane




Dr. Rajendra Shinde
Principal,
St. Xavier's College,
Mumbai

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



ST. XAVIER'S COLLEGE

(AUTONOMOUS)

**5, Mahapalika Marg, Mumbai - 400 001,
INDIA.**

☎ 2262 0661/65

2017 – 2018

University of Mumbai



Research Project No: 84

NAME OF THE RESEARCHER : Dr. Bhaskar Saha
LECTURE IN : Life Science
AMOUNT SANCTIONED : Rs. 75,000/-

Ref No. APD/237/323of 2018
27th March, 2018

To,
The Principal,
St. Xavier's College 5, Mahapalika Marg,
Mumbai- 400 001.(Autonomous)

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2018.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st March, 2018 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to the Accounts Section of University.

Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2018.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

S. Sawant

Assistant Registrar
(Academic Planning & Development)

Received on
02/04/2018

University of Mumbai



Research Project No: 85

NAME OF THE RESEARCHER : Dr.Priya Sundarrajan
LECTURE IN : Life Science
AMOUNT SANCTIONED : Rs. 60,000/-

Ref No. APD/237/323of 2018
27th March, 2018

To,
The Principal,
St. Xavier's College 5, Mahapalika Marg,
Mumbai- 400 001.(Autonomous)

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2018.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st March, 2018 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to the Accounts Section of University.

Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2018.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

S. S. Sawant
Assistant Registrar

University of Mumbai



Research Project No: 87

NAME OF THE RESEARCHER : Mr. John D'souza
LECTURE IN : Geology
AMOUNT SANCTIONED : Rs. 70,000/-

Ref No. APD/237/323 of 2018

27th March, 2018

To,
The Principal,
St. Xavier's College 5, Malapalika Marg, Mumbai- 400 001.(Autonomous)

Sub: - Minor Research Grant Project.

Sir/Madam,

I am directed to inform you that the said proposal has been considered by the University and the research grant as quoted above is sanctioned to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 40% of the sanctioned amount will be disbursed within the month of March. The remaining 60% amount will be disbursed up to 31st August, 2018.

The researcher is expected to spend 60% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the 40% sanctioned amount on or before 31st March, 2018 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head/Institute/University Department of the College to the Accounts Section of University.

Please note that 60% balance amount out of sanctioned grant will be released after presentation of your proposal & final approval of the committee. You need to submit utilization certificate after presentation of your research and final approval of 60% grant including bills/vouchers/receipts in original through University Accounts Section.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st August 2018.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant.

Yours faithfully,

S. S. Sawant
Assistant Registrar

(Academic Planning & Development)

Received on
21.04.2018

No. BT/IN/Indo-US/Foldscope/39/2015

Government of India
Ministry of Science & Technology
Department of Biotechnology

Block No.2, 6-8th Floors,
CGO Complex, Lodi Road,
New Delhi - 110 003.
Dated: 20.03.2018

Admin Order

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the payment of **Rs.3120.00 Lakhs (Rupees Thirty One Crore Twenty Lakhs Only)** to Biotech Consortium India Limited (BCIL), 5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002 towards the "Towards disbursement of Micro grant for implementation of projects under the Foldscope scheme" as per break-up given below:

(Rs. in Lakhs)

Sr. No.	Item	Number of Schools/ Colleges/ Institute/ University	Total budget per School/ Colleges/Institute/ University	Total Budget	1 st Installment (75%of total budget)	2 nd Installment (25%of total budget)
I	NER Schools (Category-A)	33	4.00	132.00	98.00	34.00
II	Other Regions of India Schools (Category-A)	84	4.00	336.00	252.00	84.00
III	NER Colleges/Institute / Universities (Category-B)	81	8.00	648.00	486.00	162.00
IV	Other Regions of India Colleges/Institute / Universities (Category-B)	247	8.00	1976.00	1483.00	493.00
Total (A)				3092.00	2319.00	773.00
V	Budget for the Project Secretariat to BCIL (B)			28.00	28.00	0.00
Grand Total (A+B)				3120.00	2347.00	773.00*

*The second installment will be released after the review of technical & scientific progress report and submission of UC/SE after 6 months.

- The list of approved School/Colleges/Institute/ Universities of category A & B may be seen at Annexure-I to IV.

VP

3. The budget details for awardees under category 'A' and category 'B', and the budget breakup of Project Secretariat to BCIL may be seen at **Annexure- V**.
4. The budget for Item-I [NER (Schools)] and Item-III [NER (Colleges/Institute/ University)] will be debitable by the NER budget head.
5. The budget for Item-II (Other Regions of India Schools), IV (Other Regions of India Colleges/Institute/ Universities) & V (Project Secretariat to BCIL, Detailed Budget for Category A &B) will be debitable from Biotechnology Research and Development (R&D) head.
6. The Foldscope and Micro grants shall be disbursed to the Schools, Colleges and Universities by the NER-BPMC/BCIL as per the **Annexure-I to V**.
7. **Time Schedule:** The duration of the project is 1 Year 0 Month from the date of this sanction order.
8. The expenditure involved is debitable to:

Demand No. 85	Department of Biotechnology
3425	Other Scientific Research 2017-2018
3425.60	Others (Sub Major Head)
3425.60.200	Assistance to other Scientific Bodies (Minor Head)
3425.60.200.29	Biotechnology Research and Development
3425.60.200.29.17	Assistance for Research and Development
3425.60.200.29.17.31	Grants-in-aid General

9. The other terms and conditions governing this sanction are attached at **Annexure- VI**.
10. A Memorandum of Agreement (MoA) will be signed between the Department of Biotechnology and the grantee institution on Non-Judicial stamp paper Rs. 100/- in the enclosed format and the second release/installment will be made only after signing of MoA by the grantee institutions and its acceptance by DBT. In case of NGO or Private Institution, MOA signed is mandatory first release.
11. The Institute/Agency will keep the whole of the grant in a Bank Account earning interest, and the interest so earned should be reported to DBT in the Utilization Certificate and Statement of Expenditure. The Interest so earned will be treated as created to the institute/Agency and shall be adjusted towards further installment of the grant and or at the time of Final Settlement of Accounts.
12. No International Travel will be undertaken from the sanctioned project grant unless specified otherwise.
13. The Managing Director, Biotech Consortium India Limited (BCIL), 5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002 would be responsible for submission of Statements of Expenditure (SoE), utilization certificates (UC), Assets Certificates, Manpower staffing & expenditure details in prescribed DBT formats to DBT in respect of grants released in this project from time to time.

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14. As per Rule 236 (1) of GFR 2017, the accounts of all Grantee Institutions or Organizations shall be open to inspection by the sanctioning authority and audit, both by the Comptroller and Auditor General of India under the provision of CAG(DPC) Act 1971 and internal audit by the Principal Accounts Office of the Ministry or Department, whenever the Institution or Organization is called upon to do so.
15. In case the whole or a part of the amount of the grant-in-aid is being refunded, an interest thereon as per Govt. of India shall be recovered.
16. As per Ministry of Finance OM. No. C-13015(34)/MF CGA/PFMS/Misc/2014-15/2095-2127 dated 03.03.2015 all transaction involving cash component has to be made through Public Financial Management System (PFMS) w.c. 01.04.2015 to each beneficiaries.
17. UC/SE must show all the heads as per the sanction order.
18. This issues under the powers delegated to this Department and with the concurrence of IFD, DBT vide their SAN. No. 102/IFD/SAN/4849/2017-18 dated 16.03.2018.
19. This sanction order has been noted at Serial No. in the Register of Grants.

Vaishali Panjabi
(Vaishali Panjabi)
Scientist 'D'

To,

The Pay & Accounts Officer
Department of Biotechnology
Ministry of Science & Technology
Lodhi Road, New Delhi-110 003

Copy to:-

1. The Principal Director of Audit (Scientific Departments), AGCR Building, New Delhi-110002.
2. The Pay & Accounts Officer, Department of Science & Technology, New Delhi-110016.
3. Cash Section, DBT. (2 copies).
4. IFD, DBT.
5. The Managing Director, Biotech Consortium India Limited (BCIL), 5th Floor, Anuvrat Bhawan, 210, Deen Dayal Upadhaya Marg, New Delhi - 110002
6. Sanction Folder.
7. US (IFD) to re-appropriate the budget for Item -I & III from the NER Budget.

Vaishali Panjabi
(Vaishali Panjabi)
Scientist 'D'

Annexure-IV

The following Universities/ Colleges/ Institutes have been shortlisted for funding under Category 'B':

Area: Biodiversity and conservation

Sl. No.	PI Name	Institute Name	City /State
1.	Nagarjun Vijay	Indian Institute of Science Education and Research	Bhopal, Madhya Pradesh
2.	Ishtapran Sahoo	Dayananda Sagar College of Engineering	Bangalore, Karnataka
3.	Dr. Arun K. Agrawal	Government Post Graduate College	Uttarkashi, Uttaranchal
4.	Dr. Jagdish Rai	Institute of Forensic Science and Criminology	Chandigarh, Punjab
5.	Dr. J. Pandiyan	A.V.C. College	Mayiladuthurai, Tamil Nadu
6.	Dr. K. M. Nitnaware	Hutatma Rajguru Mahavidyalaya	Rajgurunagar, Maharashtra
7.	Gurdeep Rastogi	Chilika Development Authority	Bhubaneswar, Odisha
8.	Mahima Jaini	Dakshin Foundation	Bangalore, Karnataka
9.	Dr. Sunita Gupta	Shivaji College	New Delhi
10.	Dr. Rahul K. Singh	HNB Garhwal University	Srinagar, Uttarakhand
11.	Dr. Mukund Ramakrishnan	IISER Berhampur	Berhampur, Odisha
12.	Dr. Hina F. Bhat	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K)	Alestang, Jammu & Kashmir
13.	Dr. K. Panneer Selvam	M.R. Government Arts College	Mannargudi, Tamil Nadu
14.	Ms. Uzma baig	St. Ann's College for Women	Hyderabad, Andhra Pradesh
15.	Dr. M. Johnson	St. Xavier's College	Palayamkottai, Tamil Nadu
16.	Dr. Mrs. Anupma Harshal	Kishinchand Chellaram College	Mumbai, Maharashtra
17.	Vikas Jha	National Facility for Biopharmaceuticals, Guru Nanak Khalsa College of Arts, Science & Commerce	Mumbai, Maharashtra
18.	Dr. Maya Murdeshwar	St. Xavier's College	Mumbai, Maharashtra
19.	Jaai Pandit	G.N.Khalsa College	Mumbai, Maharashtra
20.	Dr. D Sirisha	Jawaharlal Nehru Institute of Advanced Studies, JNU	Secunderabad, Telangana
21.	Mr. Nitin Wahi	GLA University	Mathura, Uttar Pradesh
22.	Akanksha Kulshreshtha	Netaji Subhash Institute of Technology	Dwarka, New Delhi
23.	Dr. Ekramul Islam	University of Kalyani	Kalyani, West Bengal
24.	Dr. Tushar H. Borse	Vidya Pratishthan's Arts Science and Commerce College	Pune, Maharashtra
25.	Piya Roy Choudhury	Karnatak Arts, Science, Commerce College	Bidar, Karnataka
26.	Dr. B. Christudhas Williams	William Research Centre	Nagercoil, Tamil Nadu
27.	Dr. M. Wasima	B. S. Abdur Rahman University	Chennai, Tamil Nadu
28.	Dr. S. B. Anand	Madurai Kamaraj University	Madurai, Tamil Nadu
29.	Dr. Gulab D. Khedkar	Dr. Babasaheb Ambedkar Marathwada University	Aurangabad, Maharashtra
30.	Shikha Jain	Manipal University	Jaipur, Rajasthan
31.	Dr. S. Sharmila	Vellalar College for Women	Erode, Tamil Nadu
32.	Dr. H. S. Sudhira	Gubbi Labs LLP	Gubbi, Karnataka
33.	Dr. Jyotsna Das	Alipurduar College	Alipurduar, West Bengal
34.	Dr. Dharmesh Harwani	Maharaja Ganga Singh University	Bikaner, Rajasthan
35.	Dr. V. Thangapandian	Ayya Nadar Janaki Ammal College	Sivakasi, Tamil Nadu
36.	Prof. G. Ayyappadasan	K.S.Rangasamy College of Technology	Tiruchengode, Tamil Nadu
37.	Dr. Jayateertha. R. Diwan	University of Agricultural Sciences	Raichur, Karnataka



ST. XAVIER'S COLLEGE

(AUTONOMOUS)

**5, Mahapalika Marg, Mumbai - 400 001,
INDIA.**

☎ 2262 0661/65

2016 – 2017



विश्वविद्यालय अनुदान आयोग
University Grants Commission
मानव संसाधन विकास मंत्रालय, भारत सरकार
Ministry of Human Resource Development, Govt. of India
पश्चिम विभागीय कार्यालय गणेशखिंड, पुणे- ४११००७
Western Regional Office, Ganeshkhind, Pune - 411007

Ph: 020 - 25696896, 25696897
Tele.Fax:- (020-25691477
Website- www.ugc.ac.in
Email: mrpugcwro@gmail.com

No. F. 47-985/14 (General/ 37/ WRO) XII Plan

Date: 10 MAR 2017

The Drawing and Disbursing Officer,
University Grants Commission,
Pune - 411007.

Subject: RELEASE OF GRANTS TO ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI, PIN - 400001 FOR THE YEAR 2016-2017 UNDER PLAN FINANCIAL ASSISTANCE TO TEACHER IN COLLEGES FOR UNDERTAKING MINOR RESEARCH PROJECTS - RELEASE OF FIRST INSTALLMENT.

Sir/Madam,

I am directed to convey the sanction of the Commission. The UGC on the recommendations of the Expert Committee has approved the Minor Research Project in the subject of **Life Science** entitled "Effect of bioaccumulation of heavy metals on growth, oxidative stress and DNA damage in zebrafish" to be undertaken by **Dr. Das Seema**, of **ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI-400001**. The financial assistance of the UGC would be limited to Rs. 418000/- (Rupees Four Lakh Eighteen Thousand only) for a period of two years. An amount of Rs. 278000/- (Rupees Two Lakh Seventy Eight Thousand only) is presently being sanctioned as the first installment Plan expenditure to be incurred during 2016-2017.

(In Rupees)

Non-Recurring Grant for Two years	Amount (Rs)	Recurring grant	1 st Year Amount	2 nd Year Amount	(Comp- General) Grant to be approved as Ist Inst.
Books & Journals	18000	Contingency	15000	15000	NR 100% Rec. 1 st Year
Equipment	120000	Special Need	25000	25000	
		Travel/Field work	0	0	
		Chemicals & Glassware	75000	75000	
		Others	25000	25000	
Total (Rs.)	138000		140000	140000	278000

Total amount for the project: Rs. 418000/-

NOTE:

- For remittance of refund to UGC (WRO), Bank details may be seen at point - 9.
- The grants should be utilized within the time period as specified under the GFR, 2005.
- "The University/College/Institution is registered/ mapped with PFMS portal" and settled.

- The sanctioned amount is debitable to the Plan Head 3 (31) and is valid for payment during the financial year 2016-17 only.

Component	Head of A/c	General -In-aid (31)	Capital Assets (35)	Total
General	3(A)	140000	138000	278000/-

- The amount of the grants shall be drawn by the Drawing & Disbursing Officer, UGC (WRO), Pune on the Grants-in-aid bill and shall be disbursed to and credited to the Principal of the college through Electronic mode as per the following details:

a.	Details (Name & Address) of Accounts Holder:	ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI, PIN- 400001
b.	Account No.:	053600101000887
c.	Name & address of Bank Branch	CORPORATION BANK, MAHAPALIKA MARG
d.	MICR Code:	
e.	IFSC Code:	CORP0000536
f.	Type of Account:	Saving Account

- The grant is subject to adjustment on the basis of Utilization Certificate in the prescribed Performa submitted by the University/ College/ Institution.
- The University/ College shall maintain proper accounts of the expenditure out of the grants, which shall be utilized, only on approved items of expenditure.
- The University/ Institution may follow the General Financial Rules, 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provision of GFRs, 2005 and instruction/ guideline there under from time to time.
- The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.

7. The assets acquired wholly or substantially out of UGC's grant, shall not be disposed of or encumbered or utilized for purposes other than those for which the grant was given, without proper sanction of the UGC, and should at any time the College cease to function, such assets shall revert to the University Grants Commission.
8. A Register of the assets acquired wholly or substantially out of the grant shall be maintained by the University/ College in the prescribed proforma.
9. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned/ paid. In case non-utilization / part utilization, the simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provision contained in General Financial Rules of Govt. of India will be charged.

In case of unspent balance/refund may be remitted to UGC (WRO) through RTGS as per the following bank details.

Account Name	Name of Bank and branch name	IFSC Code	Component	Bank Account No.
Joint Secretary UGC(WRO), Pune	Canara Bank Model Colony, Pune	CNRB0000262	General	262101020153

10. Interest earned by the College/Institution against UGC grants, if any, will be treated as an additional grant and must be specifically incorporated in the statement of expenditure while submitting it to UGC (WRO).
11. The Univ./College shall follow strictly the Government of India/ UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal [for persons with disability etc.]] in teaching and non-teaching posts.
12. The University/ College shall fully implement to Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the Union) Rules, 1976 etc.
13. The sanction issues in exercise of the delegation of powers vide UGC office order No. 69/2014 [F. No. 10-11/12 (Admn. IA & B)] dated 26/3/2014.
14. "The University/ Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009" and amendments thereof.
15. The University/ Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC). NBA/authorised accreditation body.
16. The accounts of the University/ Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
17. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
18. An amount of Rs. _____/- out of Rs. _____/- has been utilized against this office sanction letter of even dated _____ by the university/Institute/College vide Ref No. _____ dated _____ for the purpose for which it was sanctioned and noted in grant in aid/ BCR register at Pg. No. 1 & S. No. _____
19. Future grant will be released on receipt of Statement of Expenditure Utilization Certificate (Item-wise).
20. Funds to the extent are available under the Scheme.
21. This issues with the concurrence of IFD vide Diary No. _____ (IFD) dated _____ (N. A.)
22. This issues with the approval of Head of Office.
23. Entry has been made in BCR at Pg. No. 1 & S. No. 37.

Yours faithfully

(Dr. G. Srinivas)
Joint Secretary

Copies forwarded for information and necessary action to:

1. ✓ THE PRINCIPAL
ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI,
MUMBAI, PIN-400001.
2. DR. DAS SEEMA, ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG,
MUMBAI, MUMBAI, PIN - 400001
3. DIRECTOR (BCUD), MUMBAI UNIVERSITY, MG ROAD, FORT
MUMBAI, PIN- 400032
4. DIRECTOR, HIGHER EDUCATION, CENTRAL BUILDING, NEAR PUNE
RAILWAY STATION, PUNE, PIN- 411001
5. ACCOUNTANT GENERAL, MAHARASHTRA STATE, 101, MAHARSHI KARVE
MARG, MUMBAI- 400020
6. GUARD FILE.

R. Manoj Kumar

(Dr. R. Manoj Kumar)
Deputy Secretary



विश्वविद्यालय अनुदान आयोग
University Grants Commission
मानव संसाधन विकास मंत्रालय, भारत सरकार
Ministry of Human Resource Development, Govt. of India
पश्चिम विभागीय कार्यालय गणेशखिंड, पुणे- ४११००७
Western Regional Office, Ganeshkhind, Pune - 411007.

Ph: 020 - 25696896, 25696897

Fax: 020 - 25691477

Website- www.ugc.ac.in

Email: wrougc@gmail.com

File No: 47-985/14(WRO)

20 FEB 2015

THE PRINCIPAL,
ST. XAVIER'S COLLEGE, 5, MAHAPALIKA
MARG, MUMBAI, MUMBAI-400001.

Subject: Approval for Minor Research Project during XII Plan.

Sir/Madam,

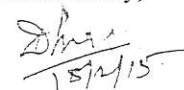
I am directed to convey the approval of the UGC for a Minor Research Project in the subject of **Life Science** entitled "Effect of bioaccumulation of heavy metals on growth, oxidative stress and DNA damage in zebrafish" to be undertaken by Dr. Das Seema of ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI-400001.

Non-Recurring Grant (For Two years)	Amount (Rs.)	Recurring grant (For Two years)	1st Year Amount	2nd Year Amount
Books & Journals	18000	Contingency	15000	15000
Equipment	120000	Special Need	25000	25000
		Travel/Field work	0	0
		Chemicals & Glassware	75000	75000
		Others	25000	25000
Total (Rs.)	138000		140000	140000

Total allocation amount for the project: Rs. 418000/-

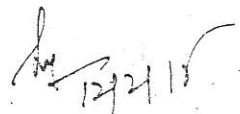
You may send the Acceptance Certificate as per Annexure-II (Copy enclosed) duly forwarded by the Principal of the College alongwith acceptance of the conditions governing the research project to this office and through email at wrougc@gmail.com immediately.

Yours sincerely,


(Dr. Devender Kawday)
Joint Secretary

Copy to:

- ✓ DR. DAS SEEMA,
HEAD, DEPT. OF LIFE SCIENCE,
ST. XAVIER'S COLLEGE,
5, MAHAPALIKA MARG,
MUMBAI, MUMBAI- 400001.
- DIRECTOR (BCUD),
MUMBAI UNIVERSITY, MG ROAD, FORT,
MUMBAI- 400032.
- GUARD FILE.


(L. N. Sahu)
Section Officer



विश्वविद्यालय अनुदान आयोग
University Grants Commission
मानव संसाधन विकास मंत्रालय, भारत सरकार
Ministry of Human Resource Development, Govt. of India
पश्चिम विभागीय कार्यालय गणेशखिंड, पुणे- ४११००७
Western Regional Office, Ganeshkhind, Pune – 411007

Ph: 020 – 25696896, 25696897
Tele.Fax:- (020-25691477
Website- www.ugc.ac.in
Email: mrpugcwro@gmail.com

No. F. 47-986/14 (General/ 38/ WRO) XII Plan

Date: 10 MAR 2017

The Drawing and Disbursing Officer,
University Grants Commission,
Pune – 411007.

Subject: RELEASE OF GRANTS TO ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI, PIN - 400001 FOR THE YEAR 2016-2017 UNDER PLAN FINANCIAL ASSISTANCE TO TEACHER IN COLLEGES FOR UNDERTAKING MINOR RESEARCH PROJECTS – RELEASE OF FIRST INSTALLMENT.

Sir/Madam,

I am directed to convey the sanction of the Commission. The UGC on the recommendations of the Expert Committee has approved the Minor Research Project in the subject of **Life Science** entitled "Isolation and screening for novel ethanol producers from various sources and their characterization" to be undertaken by **Dr. Sundarrajan Priya**, of **ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI-400001**. The financial assistance of the UGC would be limited to Rs. 480000/- (Rupees Four Lakh Eighty Thousand only) for a period of two years. An amount of Rs. 300000/- (Rupees Three Lakh only) is presently being sanctioned as the first installment Plan expenditure to be incurred during 2016-2017.

(In Rupees)

Non-Recurring Grant for Two years	Amount (Rs)	Recurring grant	1 st Year Amount	2 nd Year Amount	(Comp- General) Grant to be approved as Ist Inst.
Books & Journals	16000	Contingency	17500	17500	NR 100% Rec. 1 st Year
Equipment	104000	Special Need	0	0	
		Travel/Field work	10000	10000	
		Chemicals & Glassware	90000	90000	
		Others	62500	62500	
Total (Rs.)	120000		180000	180000	300000

Total amount for the project: Rs. 480000/-

NOTE:

- For remittance of refund to UGC (WRO), Bank details may be seen at point – 9.
- The grants should be utilized within the time period as specified under the GFR, 2005.
- "The University/College/Institution is registered/ mapped with PFMS portal" and settled.

1. The sanctioned amount is debitable to the Plan Head 3 (31) and is valid for payment during the financial year 2016-17 only.

Component	Head of A/c	General –In-aid (31)	Capital Assets (35)	Total
General	3(A)	180000	120000	300000/-

2. The amount of the grants shall be drawn by the Drawing & Disbursing Officer, UGC (WRO), Pune on the Grants-in-aid bill and shall be disbursed to, and credited to the Principal of the college through Electronic mode as per the following details:

a.	Details (Name & Address) of Accounts Holder:	ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI, PIN- 400001
b.	Account No.:	053600101000887
c.	Name & address of Bank Branch	CORPORATION BANK, MAHAPALIKA MARG
d.	MICR Code:	
e.	IFSC Code:	CORP0000536
f.	Type of Account:	Saving Account

3. The grant is subject to adjustment on the basis of Utilization Certificate in the prescribed Performa submitted by the University/ College/ Institution.
4. The University/ College shall maintain proper accounts of the expenditure out of the grants, which shall be utilized, only on approved items of expenditure.
5. The University/ Institution may follow the General Financial Rules, 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provision of GFRs, 2005 and instruction/ guideline there under from time to time.
6. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.

7. The assets acquired wholly or substantially out of UGC's grant, shall not be disposed of or encumbered or utilized for purposes other than those for which the grant was given, without proper sanction of the UGC, and should at any time the College cease to function, such assets shall revert to the University Grants Commission.
8. A Register of the assets acquired wholly or substantially out of the grant shall be maintained by the University/ College in the prescribed proforma.
9. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned/ paid. In case non-utilization / part utilization, the simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provision contained in General Financial Rules of Govt. of India will be charged.

In case of unspent balance/refund may be remitted to UGC (WRO) through RTGS as per the following bank details.

Account Name	Name of Bank and branch name	IFSC Code	Component	Bank Account No.
Joint Secretary UGC(WRO), Pune	Canara Bank Model Colony, Pune	CNRB0000262	General	262101020153

10. Interest earned by the College/Institution against UGC grants, if any, will be treated as an additional grant and must be specifically incorporated in the statement of expenditure while submitting it to UGC (WRO).
11. The Univ./College shall follow strictly the Government of India/ UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal [for persons with disability etc.]] in teaching and non-teaching posts.
12. The University/ College shall fully implement to Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the Union) Rules, 1976 etc.
13. The sanction issues in exercise of the delegation of powers vide UGC office order No. 69/2014 [F. No. 10-11/12 (Admn. IA & B)] dated 26/3/2014.
14. "The University/ Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009" and amendments thereof.
15. The University/ Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC). NBA/authorised accreditation body.
16. The accounts of the University/ Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
17. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
18. An amount of Rs. _____/- out of Rs. _____/- has been utilized against this office sanction letter of even dated _____ by the university/Institute/College vide Ref No. _____ dated for the purpose for which it was sanctioned and noted in grant in aid/ BCR register at Pg. No. 1 & S. No. _____
19. Future grant will be released on receipt of Statement of Expenditure Utilization Certificate (Item-wise).
20. Funds to the extent are available under the Scheme.
21. This issues with the concurrence of IFD vide Diary No. _____ (IFD) dated _____ (N. A.)
22. This issues with the approval of Head of Office.
23. Entry has been made in BCR at Pg. No. 1 & S. No. 38.

Yours faithfully

(Dr. G. Srinivas)
Joint Secretary

Copies forwarded for information and necessary action to:

1. ✓ THE PRINCIPAL
ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI,
MUMBAI, PIN-400001.
2. DR. SUNDARAJAN PRIYA, ST. XAVIER'S COLLEGE, 5, MAHAPALIKA
MARG, MUMBAI, MUMBAI, PIN - 400001.
3. DIRECTOR (BCUD), MUMBAI UNIVERSITY, MG ROAD, FORT,
MUMBAI, PIN- 400032
4. DIRECTOR, HIGHER EDUCATION, CENTRAL BUILDING, NEAR PUNE
RAILWAY STATION, PUNE, PIN- 411001
5. ACCOUNTANT GENERAL, MAHARASHTRA STATE, 101, MAHARSHI KARVE
MARG, MUMBAI- 400020
6. GUARD FILE.

(Dr. R. Manoj Kumar)
Deputy Secretary



विश्वविद्यालय अनुदान आयोग
University Grants Commission
मानव संसाधन विकास मंत्रालय, भारत सरकार
Ministry of Human Resource Development, Govt. of India
पश्चिम विभागीय कार्यालय गणेशखिंद, पुणे- ४११००७
Western Regional Office, Ganeshkhind, Pune - 411007

Ph: 020 - 25696896, 25696897

Fax: 020 - 25691477

Website- www.ugc.ac.in

Email: wrougc@gmail.com

File No: 47-986/14(WRO)

20 FEB 2015

THE PRINCIPAL,
ST. XAVIER'S COLLEGE, 5, MAHAPALIKA
MARG, MUMBAI, MUMBAI-400001.

Subject: Approval for Minor Research Project during XII Plan.

Sir/Madam,

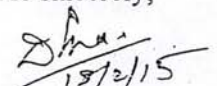
I am directed to convey the approval of the UGC for a Minor Research Project in the subject of **Life Science** entitled "Isolation and screening for novel ethanol producers from various sources and their characterization" to be undertaken by Dr. Sundarrajan Priya of ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI-400001.

Non-Recurring Grant (For Two years)	Amount (Rs.)	Recurring grant (For Two years)	1st Year Amount	2nd Year Amount
Books & Journals	16000	Contingency	17500	17500
Equipment	104000	Special Need	0	0
		Travel/Field work	10000	10000
		Chemicals & Glassware	90000	90000
		Others	62500	62500
Total (Rs.)	120000		180000	180000

Total allocation amount for the project: Rs. 480000/-

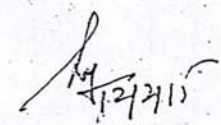
You may send the Acceptance Certificate as per Annexure-II (Copy enclosed) duly forwarded by the Principal of the College alongwith acceptance of the conditions governing the research project to this office and through email at wrougc@gmail.com immediately.

Yours sincerely,


(Dr. Devender Kawday)
Joint Secretary

Copy to:

1. DR. SUNDARRAJAN PRIYA,
HEAD, DEPT. OF LIFE SCIENCE,
ST. XAVIER'S COLLEGE,
5, MAHAPALIKA MARG,
MUMBAI, MUMBAI- 400001.
2. DIRECTOR (BCUD),
MUMBAI UNIVERSITY, MG ROAD, FORT,
MUMBAI- 400032.
3. GUARD FILE.


(L. N. Sahu)
Section Officer



विश्वविद्यालय अनुदान आयोग
University Grants Commission
मानव संसाधन विकास मंत्रालय, भारत सरकार
Ministry of Human Resource Development, Govt. of India
पश्चिम विभागीय कार्यालय गणेशखिंद, पुणे- ४११००७
Western Regional Office, Ganeshkhind, Pune - 411007

Ph: 020 - 25696896, 25696897
Tele.Fax:- (020-25691477
Website- www.ugc.ac.in
Email: mrpugcwro@gmail.com

No. F. 47-1197/14 (General/ 36/ WRO) XII Plan

Date: 16 MAR 2017

The Drawing and Disbursing Officer,
University Grants Commission,
Pune - 411007.

Subject: RELEASE OF GRANTS TO ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI, PIN - 400001 FOR THE YEAR 2016-2017 UNDER PLAN FINANCIAL ASSISTANCE TO TEACHER IN COLLEGES FOR UNDERTAKING MINOR RESEARCH PROJECTS - RELEASE OF FIRST INSTALLMENT.

Sir/Madam,

I am directed to convey the sanction of the Commission. The UGC on the recommendations of the Expert Committee has approved the Minor Research Project in the subject of **Chemistry** entitled "Size selectivity and stbility of bio-synthesized silver nanoparticles using surfactants, for antimicrobial use." to be undertaken by Mr. Ketwal Marazban, of ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI-400001. The financial assistance of the UGC would be limited to Rs. 205000/- (Rupees Two Lakh Five Thousand only) for a period of two years. An amount of Rs. 147500/- (Rupees One Lakh Fourty Seven Thousand Five Hundred only) is presently being sanctioned as the first installment Plan expenditure to be incurred during 2016-2017.

(In Rupees)					
Non-Recurring Grant for Two years	Amount (Rs)	Recurring grant	1 st Year Amount	2 nd Year Amount	(Comp- General) Grant to be approved as Ist Inst.
Books & Journals	10000	Contingency	20000	20000	NR 100% Rec. 1 st Year
Equipment	80000	Special Need	0	0	
		Travel/Field work	2500	2500	
		Chemicals & Glassware	35000	35000	
		Others	0	0	
Total (Rs.)	90000		57500	57500	147500

Total amount for the project: Rs. 205000/-

NOTE:

- For remittance of refund to UGC (WRO), Bank details may be seen at point - 9.
- The grants should be utilized within the time period as specified under the GFR, 2005.
- "The University/College/Institution is registered/ mapped with PFMS portal" and settled.

- The sanctioned amount is debitable to the Plan Head 3 (31) and is valid for payment during the financial year 2016-17 only.

Component	Head of A/c	General -In-aid (31)	Capital Assets (35)	Total
General	3(A)	57500	90000	147500/-

- The amount of the grants shall be drawn by the Drawing & Disbursing Officer, UGC (WRO), Pune on the Grants-in-aid bill and shall be disbursed to and credited to the Principal of the college through Electronic mode as per the following details:

a.	Details (Name & Address) of Accounts Holder:	ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI, MUMBAI, PIN- 400001
b.	Account No.:	053600101000887
c.	Name & address of Bank Branch	CORPORATION BANK, MAHAPALIKA MARG
d.	MICR Code:	
e.	IFSC Code:	CORP0000536
f.	Type of Account:	Saving Account

- The grant is subject to adjustment on the basis of Utilization Certificate in the prescribed Performa submitted by the University/ College/ Institution.
- The University/ College shall maintain proper accounts of the expenditure out of the grants, which shall be utilized, only on approved items of expenditure.
- The University/ Institution may follow the General Financial Rules, 2005 and take urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provision of GFRs, 2005 and instruction/ guideline there under from time to time.
- The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to UGC as early as possible after the close of current financial year.

7. The assets acquired wholly or substantially out of UGC's grant, shall not be disposed of or encumbered or utilized for purposes other than those for which the grant was given, without proper sanction of the UGC, and should at any time the College cease to function, such assets shall revert to the University Grants Commission.
8. A Register of the assets acquired wholly or substantially out of the grant shall be maintained by the University/ College in the prescribed proforma.
9. The grantee institution shall ensure the utilization of grants-in-aid for which it is being sanctioned/ paid. In case non-utilization / part utilization, the simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provision contained in General Financial Rules of Govt. of India will be charged.

In case of unspent balance/refund may be remitted to UGC (WRO) through RTGS as per the following bank details.

Account Name	Name of Bank and branch name	IFSC Code	Component	Bank Account No.
Joint Secretary UGC(WRO), Pune	Canara Bank Model Colony, Pune	CNRB0000262	General	262101020153

10. Interest earned by the College/Institution against UGC grants, if any, will be treated as an additional grant and must be specifically incorporated in the statement of expenditure while submitting it to UGC (WRO).
11. The Univ./College shall follow strictly the Government of India/ UGC's guidelines regarding implementation of the reservation policy [both vertical (for SC, ST & OBC) and horizontal [for persons with disability etc.]] in teaching and non-teaching posts.
12. The University/ College shall fully implement to Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Languages (Use for Official Purposes of the Union) Rules, 1976 etc.
13. The sanction issues in exercise of the delegation of powers vide UGC office order No. 69/2014 [F. No. 10-11/12 (Admn. IA & B)] dated 26/3/2014.
14. "The University/ Institution shall strictly follow the UGC Regulations on curbing the menace of Ragging in Higher Education Institutions, 2009" and amendments thereof.
15. The University/ Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC). NBA/authorised accreditation body.
16. The accounts of the University/ Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
17. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and payments are to be prepared strictly in accordance with the Uniform Format of Accounting prescribed by Government.
18. An amount of Rs. _____/- out of Rs. _____/- has been utilized against this office sanction letter of even dated _____ by the university/Institute/College vide Ref No. _____ dated for the purpose for which it was sanctioned and noted in grant in aid/ BCR register at Pg. No. 1 & S. No. _____
19. Future grant will be released on receipt of Statement of Expenditure Utilization Certificate (Item-wise).
20. Funds to the extent are available under the Scheme.
21. This issues with the concurrence of IFD vide Diary No. _____ (IFD) dated _____ (N. A.)
22. This issues with the approval of Head of Office.
23. Entry has been made in BCR at Pg. No. 1 & S. No. 38.

Yours faithfully

(Dr. G. Srinivas)
Joint Secretary

Copies forwarded for information and necessary action to:

1. ✓ THE PRINCIPAL
ST. XAVIER'S COLLEGE, 5, MAHAPALIKA MARG, MUMBAI,
MUMBAI, PIN-400001.
2. DR. SUNDARAJAN PRIYA, ST. XAVIER'S COLLEGE, 5, MAHAPALIKA
MARG, MUMBAI, MUMBAI, PIN - 400001.
3. DIRECTOR (BCUD), MUMBAI UNIVERSITY, MG ROAD, FORT,
MUMBAI, PIN- 400032
4. DIRECTOR, HIGHER EDUCATION, CENTRAL BUILDING, NEAR PUNE
RAILWAY STATION, PUNE, PIN- 411001
5. ACCOUNTANT GENERAL, MAHARASHTRA STATE, 101, MAHARSHI KARVE
MARG, MUMBAI- 400020
6. GUARD FILE.

(Dr. R. Manoj Kumar)
Deputy Secretary

PF: 2121

University of Mumbai

Research Project No: 208

NAME OF THE RESEARCHER: Mr. Ajay R. Yadav

LECTURE IN physics

AMOUNT SANCTIONED: Rs. 25,000/-

Ref No. APD/2371429 of 2017

16th January, 2017

To,
The Principal,

St. Xavier's College (Autonomous)
S, Mahapalika Marg, Mumbai - 400001

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum Mr. Ajay R. Yadav, I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS Form (copy enclosed) from the researcher.

The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original on or before 31st March, 2017 failing of which the advance amount granted will be recovered from researcher which please note.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2017 and submit original bills/vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai - 400 032.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July, 2017.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly.

INWARD No. 193/11-17

DATE REC ON. 23/1/17

Accepted By

Received From. Principal's Desk

Filed In. PF-2121

Submitted to: Mr. Ajay R. Yadav

Yours faithfully,


For REGISTRAR

PF: 2144

University of Mumbai

Research Project No: 282

NAME OF THE RESEARCHER: Dr. Prahlad V. Rega

LECTURE IN Chemistry

AMOUNT SANCTIONED: Rs. 25,000

Ref No. APD/237/429 of 2017

16 January, 2017

To,
The Principal,

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

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum Prahlad V. Rega, I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS Form (copy enclosed) from the researcher.

The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original on or before 31st March, 2017 failing of which the advance amount granted will be recovered from researcher which please note.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2017 and submit original bills/vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai - 400 032.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July, 2017.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly.

INWARD No. 193 (16-17)

DATE REC. ON: 23/1/17

Accepted By

Received From: Principal Dush

Filed In. PF - 2144

Submitted to: Rega / Dr. Prahlad

23/1/17

Yours faithfully,



For REGISTRAR

PF: 2058

University of Mumbai

Research Project No: 283

NAME OF THE RESEARCHER: Dr. Ashma Aggarwal
LECTURE IN Chemistry
AMOUNT SANCTIONED: Rs. 30,000

Ref No. APD/237/429 of 2017
6 January, 2017

To,
The Principal,

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

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum Ashma Aggarwal, I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS Form (copy enclosed) from the researcher.

The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original on or before 31st March, 2017 failing of which the advance amount granted will be recovered from researcher which please note.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2017 and submit original bills/vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai - 400 032.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July, 2017.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly.

INWARD NO. 193/16/1P
DATE REC. 23/1/17
Acc. to P. N. Aggarwal
Recd. by P. N. Aggarwal
Filed PF-2058 - Ashma
Submitted Ashma Aggarwal

Yours faithfully,

[Signature]
For REGISTRAR

University of Mumbai

Research Project No: 390

NAME OF THE RESEARCHER: Dr. Goutam Bandyopadhyay
LECTURE IN Cyberology
AMOUNT SANCTIONED: Rs. 38,000

Ref No. APD/237/429 of 2017
16 January, 2017

To,
The Principal,

St. Xavier's College 5 Mahapalika
Marg Mumbai 40001

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum Dr. Goutam Bandyopadhyay, I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two instalments. The first instalment of 50% of the sanctioned amount will be disbursed within 15 days on receiving undertaking and RTGS Form (copy enclosed) from the researcher.

The researcher is expected to spend 50% amount initially from his/her own resources to carry out the work. Please note that 50% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original on or before 31st March, 2017 failing of which the advance amount granted will be recovered from researcher which please note.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2017 and submit original bills/vouchers of the expenditure along with Utilization Certificate (copy enclosed) duly certified by the Principal /Director /Head /Institute /University Department/College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai - 400 032.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July, 2017.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking along with RTGS Form immediately to enable this office to release first instalment of the research grant, accordingly.

INWARD No. 193 (16.17)

DATE REC ON. 23/1/17

Accepted By

Received From. Principal's Desk

Filed In. PF-2076

Submitted to. Dr. Goutam Bandyopadhyay
23/1/17

Yours faithfully,


FOR REGISTRAR



ST. XAVIER'S COLLEGE

(AUTONOMOUS)

**5, Mahapalika Marg, Mumbai - 400 001,
INDIA.**

☎ 2262 0661/65

2015 – 2016



ST. XAVIER'S COLLEGE

(AUTONOMOUS)

5, Mahapalika Marg, Mumbai - 400 001,
INDIA.

☎ 2262 0661/65

Memorandum of Understanding

between

**Harmony Organics Pvt Ltd, Pune and
St. Xavier's College (Autonomous), Mumbai for
Improvement of Santalene Synthase Activity**

This Memorandum of Understanding (MoU) has been arrived at between Harmony Organics Pvt Ltd, Pune and St. Xavier's College (Autonomous), Mumbai for a project to improve the activity of santalene synthase enzyme. The terms of this Memorandum of Understanding are as follows:

Duration and Scope of Work:

The project aims to obtain improved activity and stability profile for santalene synthase and to develop process parameters to produce santalenes from the precursor, farnesyl pyrophosphate. The duration of the project will be 12 months. The work will be done in Caius Research Laboratory, St. Xavier's College (Autonomous), Mumbai, under the guidance of Dr. Vishwas Sarangdhar.

The work will involve the following aspects:

- A. Synthesis of santalene synthase gene and its expression in *E. coli* and *S. cerevisiae*;
- B. Standardization of in-vitro quantitative assays for santalene synthase;
- C. Gene mutagenesis for improvement of enzyme activity and stability.

A. Gene synthesis and expression:

Gene sequence for santalene synthase is available in GenBank and the gene will be commercially synthesized by Harmony Organics Pvt Ltd. The clone will be provided to Caius Research Laboratory, where santalene synthase activity will be demonstrated in vitro by expressing it in *E. coli*. The gene will then be transferred to yeast vector(s) for expression in *S. cerevisiae*. In-vitro enzyme activity of yeast-expressed protein will also be demonstrated.

B. Standardization of in-vitro quantitative assays for santalene synthase:

Using farnesyl diphosphate as substrate, protocols for quantitative estimation of santalenes will be developed using methods such as thin-layer chromatography. The assay will be used to determine the substrate affinity, turn-over rate and stability of the native enzyme.



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C. Improvement of enzyme activity and stability:

After quantitative assays of santalene synthase are standardized, the gene sequence will be mutated using classical mutagenesis techniques, as well as error-prone PCR. The resultant clones will be screened for improvements in enzyme properties with regard to stability, processivity and substrate affinity.

College Infrastructure:

The College agrees to provide all the necessary equipments, such as autoclaves, biosafety class II work-stations, incubators and shakers necessary to carry out microbial work. Any equipment to be purchased for the project will be paid for separately by Harmony Organics Pvt Ltd, and it will remain the property of Harmony Organics Pvt Ltd. The College agrees to surrender the said equipment to Harmony Organics Pvt Ltd at the end of the Project Tenure. The chemicals and consumables needed for the project shall be procured by the College as and when required.

Expenditure:

The cost (in Indian Rupees) for the work to be carried out in the Caius Research Laboratory, St. Xavier's College (Autonomous), Mumbai, is as follows:

Chemicals for enzyme assays and selection of improved clones	1,40,000/-
Plasticware for the same activities	1,95,000/-
Overhead charges to St. Xavier's College, Mumbai	50,000/-
Total	3,85,000/-

(Rupees Three Lakhs Eighty-five Thousand only)

The payment for this work should be made directly to St. Xavier's College (Autonomous), Mumbai. The costs mentioned above include charges for the use of equipment, materials, electricity, water, etc., in the Caius Research Laboratory and the Central Instrumentation Facility of St. Xavier's College (Autonomous), Mumbai. There is no service tax payable by the College.

The first installment of a sum of INR 1,00,000/- shall be paid at the commencement of the project. After completion of standardization of assays and obtaining a set of bacterial and/or yeast clones (about 3 months), an installment of INR 1,00,000/- shall be paid to the College. The third installment of INR 1,00,000/- shall be paid after six months, and the balance amount of Rs. 85,000/- shall be paid at the completion of the project.

Harmony Organics Pvt Ltd Scope of Work:

Harmony Organics Pvt Ltd will get the santalene synthase gene synthesized commercially and give the clone to Caius Research Laboratory, St. Xavier's College, Mumbai.



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Work to be carried out in the Caius Research Laboratory of St. Xavier's College (Autonomous), Mumbai:

To carry out the research activities for this project, one full-time Project Research Fellow will be appointed for the duration of the project (the payment for personnel is not included in the College expenditure and should be borne separately by Harmony Organics Pvt Ltd). The Research Fellow, under the training and guidance of Dr. Vishwas Sarangdhar, will:

- a) demonstrate in-vitro activity of santalene synthase expressed in *E. coli* and *S. cerevisiae*;
- b) standardize quantitative assays for the same enzyme;
- c) mutagenize the gene sequence and select for clones with improved enzyme performance;
- d) record, document, and compile all data.

Confidentiality:

All records of the work carried out will be kept confidential. For the purpose of this Agreement, "Confidential Information" shall mean all documents, software, databases, materials, tests, investigations conducted by Caius Research Laboratory and information disclosed by Harmony Organics Pvt Ltd to the College at any time during or for the implementation of the present project, including but not limited to trade secrets, business and technical information and data. No Confidential Information in the Scope of Work shall be disclosed to any third party without the prior written consent of Harmony Organics Pvt Ltd. The College agrees that it will not make commercial use of the said Confidential Information received.

Intellectual Property Rights:

No results can be published without a prior written consent from Harmony Organics Pvt Ltd. The Intellectual Property Rights (IPR), if any are derived, will remain solely with Harmony Organics Pvt Ltd.

Timeline:

After the agreement with Harmony Organics Pvt Ltd, the work will be carried out as per the following schedule:

Months 1-3 : Cloning and in-vitro demonstration of enzyme activity.

Months 2-5 : Standardization of quantitative assays, and enzyme expression in yeast.

Months 4-12: Mutagenesis and selection of clones with improved enzyme activity.

Deliverables:

Month 3 : Establishment of in-vitro assay for santalene synthase.

Month 6 : Quantitative assays for santalene synthase; clones with improved enzyme activity for process development.

Month 12 : Selected clones with desirable enzyme properties for high yield of santalene.



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Final report will be submitted to Harmony Organics Pvt Ltd along with the clones identified for further process development. All relevant reference material and standards will be shared with Harmony Organics Pvt Ltd.

Termination of the Project

Should either side wish to terminate the agreement earlier, notice of one calendar month must be given in writing to the Director, Harmony Organics Pvt Ltd or the Principal, St. Xavier's College (Autonomous), Mumbai, as the case may be.

In the event of any dispute arising out of this Agreement, Mumbai Courts will have the jurisdiction to entertain such disputes.

Mr Ravi Nangia
Director,
Harmony Organics Pvt Ltd,
Pune

31 MAY 2016



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

PRINCIPAL
ST. XAVIER'S COLLEGE
MUMBAI - 400 001.

University of Mumbai

Research Project No: 177

NAME OF THE RESEARCHER Smt. Sangeeta R. Shetty

LECTURER IN Life Science

AMOUNT SANCTIONED : Rs 28,000/-

Ref No. APD/237/ 419 of 2016

February 2016

To,
The Principal,
St. Xavier's College,
5, Mahapalika Marg,
Mumbai - 400 001.

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Smt/Smt/Kum. Sangeeta R. Shetty, I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 80% of the sanctioned amount will be disbursed within 15 days on receiving undertaking (copy enclosed) from the researcher. The remaining 20% amount will be disbursed upto 31st March, 2016.

The researcher is expected to spend 20% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2016 and submit original bills/vouchers of the expenditure along with Utilization Certificate duly certified by the Principal/ Director/ Head / Institute / University Department /College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai - 400 032

Please note that 20% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July 2016.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant, accordingly.

Yours faithfully

University of Mumbai

Research Project No: 178

NAME OF THE RESEARCHER Dr. Poojhika Tendulkare

LECTURER IN Life Science

AMOUNT SANCTIONED : Rs 26,000/-

Ref No. APD/237/ 419 of 2016
9th February 2016

To,
The Principal,
St. Xavier's College
S, Mahapaliker Road,
Mumbai - 400 001,

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum...~~Dr. Poojhika Tendulkare~~ I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two installments. The first instalment of 80% of the sanctioned amount will be disbursed within 15 days ~~on receiving undertaking~~ (copy enclosed) from the researcher. The remaining 20% amount will be disbursed upto 31st March, 2016.

The researcher is expected to spend 20% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2016 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head / Institute / University Department /College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai - 400 032

Please note that 20% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July 2016.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant, accordingly.

Yours faithfully

P. S. Dhurmat

for REGISTRAR

University of Mumbai

Research Project No: 204

NAME OF THE RESEARCHER Dr. Bobby P. Mathew
LECTURER IN Geology
AMOUNT SANCTIONED : Rs 25,000/-

Ref No. APD/237/ 419 of 2016
8th February 2016

To,
The Principal,
St. Xavier's College,
5, Mahapalika Marg,
Mumbai - 400 001.

Sir/Madam,

With reference to the Research Proposal forwarded by you in respect of Shri/Smt/Kum... Dr. Bobby P. Mathew, I am directed to inform you that the said proposal has been considered by the University and the Committee has recommended research grant as quoted above to the researcher.

The sanctioned amount will be disbursed in two installments. The first installment of 80% of the sanctioned amount will be disbursed within 15 days on receiving undertaking (copy enclosed) from the researcher. The remaining 20% amount will be disbursed upto 31st March, 2016.

The researcher is expected to spend 20% amount initially from his/her own resources to carry out the work.

Further, I am to inform you that the researcher will have to utilize the sanctioned amount before 31st March, 2016 and submit original bills/vouchers of the expenditure alongwith Utilization Certificate duly certified by the Principal/ Director/ Head / Institute / University Department /College, to the A.P.D. Section, after verification through the Accounts Section, Gr. Floor, Room No. 13, Fort, Mumbai - 400 032

Please note that 20% balance amount, out of sanctioned grant will be released on the submission of utilization certificate including bills/vouchers/receipts in original.

The report of the research work carried out by the concerned researcher will have to be submitted to the University on or before 31st July 2016.

The Principal/Head of the Institute are requested to inform the researcher accordingly and arrange to forward his/her undertaking immediately to enable this office to release first installment of the research grant, accordingly.

Yours faithfully

P. S. Jhumar

for REGISTRAR



UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110002

14

F. No. - 43-18/2014(SR)

Dated :- July, 2015

MRP-MAJOR-AGRI-2013-30851
(GENERAL)

27 JUL 2015

The Under Secretary (FDIII),
University Grants Commission,
Bahadur Shah Zafar Marg,
New Delhi-110002.

Sub:- Release of Grants-in-aid to **St. Xavier's College (Autonomous), Mumbai, 05, Mahapalika Marg, Dhobi Talao, Mumbai-400001** for the year **2015-16** under Plan in respect of Major Research Project entitled "**India's competitiveness in Cotton Production under WTO Regime: Issues and concerns**" awarded to **DR. ADITI PARAG SAWANT**, Department of **Economics**, Tenure of project for **3 year(s)** w.e.f. **01/07/2015**.

Agriculture *ju*

Sir/Madam,

I am directed to convey the approval sanction of the University Grants Commission for payment of grant of **Rs. 7,30,000/-** (Rupees: **SEVEN LAKHS THIRTY THOUSAND ONLY**) as **1st instalment** for the years **2015-16** towards Major Research Project to the **PRINCIPAL**, **St. Xavier's College (Autonomous), Mumbai, 05, Mahapalika Marg, Dhobi Talao, Mumbai-400001** for the Plan expenditure to be incurred during **2015-16**.

S. No.	Items	Head of Account	Amount Approved(Rs.)	Grant being Released as 1st Installment(Rs.)	Grant Already Released(Rs.)	Total Grant(Rs.)
A.	Non-Recurring					
1.	Books & Journals	3(A).49(a).35	Rs. 1,00,000/-	Rs. 1,00,000/-	-	Rs. 1,00,000/-
2.	Equipment		Rs. 50,000/-	Rs. 50,000/-	-	Rs. 50,000/-
B.	Recurring					
1.	Honorium to Retd. Teacher @ Rs. 18,000/- p.m.	3(A).49(a).31	Rs. 0/-	Rs. 0/-	-	Rs. 0/-
2.	a. Project Fellow (Non-Gate/Non NET) @ Rs. 14,000/- p.m. b. Project Fellow (Gate/NET/GPAT) @ Rs. 16,000/- p.m. Tenure - 3 year(s)		Rs. 6,00,000/-	Rs. 3,00,000/-	-	Rs. 3,00,000/-
3.	Chemical/Glassware/Consumable (Raw Material & Packaging Material etc.)		Rs. 0/-	Rs. 0/-		Rs. 0/-
4.	Contingency		Rs. 1,00,000/-	Rs. 50,000/-	-	Rs. 50,000/-
5.	Hiring Services		Rs. 1,00,000/-	Rs. 50,000/-	-	Rs. 50,000/-
6.	Travel / Field Work		Rs. 2,00,000/-	Rs. 1,00,000/-	-	Rs. 1,00,000/-
7.	Any Other		Rs. 0/-	Rs. 0/-		Rs. 0/-
8.	Overhead Charges 10% of approved recurring Grant (Except Travel & Field Work)		Rs. 80,000/-	Rs. 80,000/-	-	Rs. 80,000/-
	Total (A + B)		Rs. 12,30,000/-	Rs. 7,30,000/-		Rs. 7,30,000/-

1. The sanctioned amount is debitable to the Major **Head 3(A).49(a).31 Rs. 5,80,000/- & Head 3(A).49(a).35 Rs. 1,50,000/-** and is valid for payment during financial year **2015-16**.
2. The amount of the Grant shall be drawn by the Under Secretary (Drawing and Distributing Officer), University Grants Commission on the Grants-in-aid Bill and shall be disbursed to and credited to the **PRINCIPAL, St Xavier's College (Autonomous), Mumbai, 05, Mahapalika Marg, Dhobi Talao, Mumbai-400001** through Electronic mode as per the following details.

	Payment Details	
(a)	Bank Name & Address of Branch	Corporation Bank, Mahapalika Marg Branch, Personal Banking Branch, St. Xaviers College Campus, 5, Mahapalika Marg, Mumbai-400001
(b)	Account No.	053600101000887
(c)	Type of Account (SB/Current/Cash Credit)	Saving
(d)	IFSC Code	CORP0000536
(e)	MICR Code of Branch	400017043
(f)	Whether Bank Branch is RTGS or NEFT enabled? :	Yes (RTGS/NEFT/Both)
(g)	Name & Address of Account Holder	principal, St. Xaviers College Society, 5, Mahapalika Marg, Mumbai-400001

3. The Grant is subject to the adjustment of the basis of Utilization Certificate in the prescribed performa submitted by the University/Colleges/Institution.
4. The University/College/Institution shall maintain proper accounts of the expenditure out of the grants which shall be utilized only on approved items of expenditure.
5. The University/Institution may follow the General Financial Rules, 2005 and take Urgent necessary action to amend their manuals of financial procedures to bring them in conformity with GFRs, 2005 and those don't have their own approved manuals on financial procedures may adopt the provisions of GFR's 2005 and instructions/guideline there under from time to time.
6. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the University Grants Commission as early as possible after the close of the current financial year.
7. The assets acquired wholly or substantially out of University Grant Commission's grant shall not be disposed or encumbered or utilized for the purposes other than those for which the grant was given, without proper sanction of the University Grants Commission and should, at any time the College/University ceased in function such assets shall revert to the University Grants Commission.
8. A register of assets acquired wholly or substantially out of the grant shall be maintained by the University/College in the prescribed proforma.
9. The grantee institution shall ensure the utilization of grant-in-aid for which it is being **sanction/paid**. In case non-utilization/part utilization, thereof simple interest @ 10% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.
10. The University/College/Institute shall follow strictly the Government of India / University Grants Commission guidelines regarding implementation of the reservation policy [**both vertical (for SC, ST & OBC) and horizontal (for persons with disability etc.)**] in teaching and non-teaching posts.
11. The University/College shall fully implement the Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Languages (Use for Official purposes of the Union) Rules, 1976 etc.
12. The sanction is issued in exercise of the delegation of powers vide University Grants Commission Office Order No. **69/2014 F.No.10-11/12 (Admn. IA & B) dated 26/03/2014**.
13. The University/Institution shall strictly follow the University Grants Commission Regulations on curbing the menace of Ragging in Higher Educational Institutions, 2009.
14. The University/Institution shall take immediate action for its accreditation by National Assessment & Accreditation Council (NAAC).
15. The accounts of the University/Institution will be open for audit by the Comptroller & Auditor General of India in accordance with the provisions of General Financial Rules, 2005.
16. The annual accounts i.e. balance sheet, income and expenditure statement and statement of receipts and