

**Mary Matha Arts and Science College,  
Mananthavady**



# **DETAILED PROJECT REPORT**

Revised Version Submitted to

**THE STATE PROJECT  
DIRECTORATE  
RUSA**

**June 2018**

**Project Monitoring Committee**  
**Mary Matha Arts and Science College,**  
**Mananthavady**

Dr Savio James V	-	Principal
Dr Maria Martin Joseph	-	Institutional Level Coordinator, RUSA
Dr Geetha Antony	-	Institutional Level Assistant Coordinator
Dr Joseph K J	-	Renovation
Dr Rajeev Thomas	-	Purchase
Dr Thomas Monoth	-	Construction
Ms Rajitha Xaviour	-	Member
Mr Joy Joseph	-	Office Superintendent
Rev Fr George Myladoor	-	Manager

## **CERTIFICATE**

This is to certify that the Detailed Project Report (DPR) submitted to the State Project Directorate, RUSA, Thiruvananthapuram, has been prepared by the Project Monitoring Committee (PMC) of the College, after discussing the details with all the stakeholders and assessing the future development needs in terms of the Master Plan of the College, in accordance with the allocation as specified for purchase, renovation and new construction with a total outlay of Two Crore.

18-06-2018  
Mananthavady

**Dr Savio James V**  
**Principal**

## DECLARATION

We, the Project Monitoring Committee (PMC) members of RUSA, Mary Matha Arts and Science College, Mananthavady, hereby declare that the Detailed Project Report (DPR) for the Institution is prepared strictly in accordance with the guidelines prescribed by RUSA for the utilization of development grant for Colleges.

Dr Savio James V	-	Principal
Dr Maria Martin Joseph	-	Institutional Level Coordinator, RUSA
Dr Geetha Antony	-	Institutional Level Assistant Coordinator
Dr Joseph K J	-	Renovation
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## **Executive Summary of the Project**

Mary Matha Arts & Science College, Mananthavady was founded in the year 1995. It is the only government-aided Arts and Science College in the Mananthavady taluk of Wayanad district. The college is affiliated to Kannur University, Kannur, and is included under sections 2(f) and 12B of the University Grants Commission (UGC). The college was graded at level A by the National Assessment and Accreditation Council (NAAC) in the second cycle reaccreditation in the year 2014. Presently, the college offers seven undergraduate and two post graduate programmes. The post graduate departments of Mathematics and Zoology are also approved research centres.

The present proposal has been formulated strictly by following the guidelines of the RUSA and by considering several aspects including the master plan of the college and the action plan prepared by the IQAC of the college. Apart from that, emphasis has been given to the recommendations and suggestions provided by the NAAC peer team. Care has been given to improve the academic performance, research output and overall quality of the college.

The proposal is organized into three chapters. Chapter 1 provides an introduction of the college. The vision and the mission of the college are stated in this chapter followed by the important aims and objectives. Chapter 2 presents the institutional identity and academic programmes of the college. The details regarding the Principal and RUSA project monitoring committee are also given. Chapter 3 focuses on the detailed report of various proposals under Construction (Proposal 1), Renovation (Proposal 2) and Purchase (Proposal 3).

Proposal 1 deals with the construction of a new library complex that can house more volumes of books, journals and greater number of computers for digital functioning. Presently the library is on the second floor and it suffers from space constraint. During the first and second accreditation, the NAAC Peer Team recommended shifting the library to a spacious building that can hold at least 40,000 books and providing adequate working space for the smooth functioning of the library. Proposal 2 describes various items related to the renovation of the existing facilities of the college that will definitely add to the efficiency and quality of work. The main objective of the proposal 3 is to purchase sufficient number of equipment for the laboratories in all the departments. In short, the actualization of the present project may not only satisfy the critical infrastructure needs of the college, but also provide a better academic ambience for the entire institution.

## CHAPTER I

### PREAMBLE

#### Introduction

Mary Matha Arts and Science College, Mananthavady, a government-aided college affiliated to Kannur University, was founded by the Catholic Diocese of Mananthavady in the year 1995. The college seeks to impart quality higher education which will train youngsters of Wayanad to meet the challenges of academic accomplishment with social commitment integrated into it. This is the main objective of the college where education is looked upon not as a mere search for knowledge but a great mission in which both the teachers and students work together to develop human resource to be self-enriching and socially useful.

Though a minority institution, the college includes in its purview the educational aspirations of the community as a whole, irrespective of religion, caste, gender and social status. We endeavour to empower the people who have been deprived of educational opportunities because of their socio-economic backwardness.

The college offers seven degree courses – B.A. Functional English, B.Sc. Mathematics, B.Sc. Zoology, B.Sc. Computer Science, B.Com, B Sc Chemistry (Un-aided) and B Sc Physics and two P.G. courses M Sc Computer Science and M Sc Mathematics (Un-aided). The college has seven major departments, five subsidiary departments and two language departments.

The English Department has a well equipped language laboratory. Department of Zoology, Chemistry and Biological Techniques also have modern laboratories with necessary facilities. Departments of Mathematics and Zoology are recognized as Research Centers of Kannur University.

The National Service Scheme, N.C.C. and other organizations/clubs undertake community and extension services. The college has many other clubs/organizations like AICUF, Bhoomithrasena, Vimukti Club, Media Club, Save Green Club, Science Club, Literary Associations etc.

The student community of the college represents a cross section of the society. Majority of the students of the college belong to socially and economically backward sections of the society. The total student strength at present is about 762. Majority of the students of the college belong to SC, ST, OBCs, minorities and other weaker sections of the society. 65 % of the students are women students.

## **The Motto: *Education for Total Liberation***

The emblem, together with the motto 'Education for Total Liberation', is symbolic of the ideals the college stands for. The open book, the pen, and receiving hands represent the reception and assimilation of knowledge which liberates the individual from the debilitating shackles of ignorance and incapacity. But the growth and evolution of the individual through education is not seen as an end in itself. The training, both academic and extracurricular, seeks to foster in the students a keen awareness of their social role as well-integrated members of their communities armed with the skills to contribute positively to change and reconstruction where required.

## **The Vision**

Holistic Development of our Students with sound intellectual, physical, psychological, emotional and spiritual maturity that will pave the way for a truly democratic, secular and equitable society.

## **The Mission**

To make knowledge available to the students through Quality Education irrespective of their religion, caste, or sex, but keeping in view the educational needs of the Christian Community as well, thus to be an agent contributing to the socio-economic and cultural transformation of Wayanad.

## **Aims and Objectives**

- To provide affordable and high quality education to all, especially the socially and economically deprived groups.
- To offer intellectual, cultural, moral, social, emotional, physical and aesthetic training to all students to make them responsible and successful citizens with discipline, integrity, social commitment and democratic values.
- To generate skills and acquire knowledge for achieving the highest standards of personal and professional development.
- To create an environment that promotes values of courtesy, mutual respect and tolerance.
- To promote the spirit of justice and equality of opportunities by encouraging exchange of thoughts, opinions and ideas.
- To ensure a solid basis for employment and future studies by emphasizing innovative teaching-learning methods and research-oriented educational activities.

## CHAPTER 2

### INSTITUTIONAL IDENTITY AND ACADEMIC PROGRAMMES

#### Base Line Data

SI No	Particulars	Details
1	Name of the College	Mary Matha Arts and Science College, Mananthavady
2	Category (Govt./Aided/Private)	Aided
	NAAC Accreditation	Re-accredited with A Grade at 3.02 CGPA
4	Whether included under 12B of UGC Act	Yes, Recognized under section 2f and 12 (B) of UGC Act
5	Area of the proposed College fall under	Tribal, Hilly, Backward
6	Campus area in acres	18
7	Year of establishment	1995
8	Number of students enrolled	786 (as on 31/03/2018)
9	SC	29
10	ST	63
11	OBC	164
12	Women students	519

#### Name of Head of Institution and Project Nodal Officers

Head and Nodal Officers	Name	Phone Number	Mobile Number	Fax Number	E-mail Address
Head of the Institution	Dr. Savio James V Principal	0493-5243087	9961139916	0493-5241087	<a href="mailto:principalmmc95@gmail.com">principalmmc95@gmail.com</a> <a href="mailto:sjames09@gmail.com">sjames09@gmail.com</a>
RUSA Institutional Coordinator	Dr Maria Martin Joseph Associate Professor	0493 5244309	9447277990		<a href="mailto:mariamartin6@gmail.com">mariamartin6@gmail.com</a>



### Project Nodal Officers

Nodal Officer's	Name	Mobile Number	Fax Number	E-mail Address
Purchase	Dr Rajeev Thomas Associate Professor	9847424900		Rajeev21567@yahoo.co.in
Renovation	Dr Joseph K J Associate Professor	9447682387		Josephkj4u@gmail.com
Construction	Dr Thomas Monoth Assistant Professor	9400759752		tmonoth@yahoo.com

### Academic Programmes

Programme Level	Name of the Programme/ Course	Duration in Years	Sanctioned Student strength/marginal increase	Total
Under-graduate	B A Functional English	3	35+7	42
	B Com	3	40+15	55
	B Sc Chemistry	3	24+16	40
	B Sc Mathematics	3	35+7	42
	B Sc Physics	3	24+5	29
	B Sc Zoology	3	35+5	40
	B Sc Computer Science	3	30+5	35
Post Graduate	M Sc Mathematics	2	20	
	M Sc Computer Science	2	20	
Ph D	Mathematics	5		
	Zoology	5		

## **Profile of the Departments**

### **1. Department of English**

The Department of English is a versatile major Department which offers BA Functional English Programme in addition to the onerous responsibility to equip all the students with functional efficiency in the use of English. The teachers of the Department strive to prepare the students for careers in English Language Teaching, Journalism, Law, Business Communication, Front-office Management etc. In short, the Department caters to developing skills required for jobs that demand strong reading, writing, communication and critical thinking.

The Department offers English proficiency development and composition skills at all levels. A flexible undergraduate major programme with relevant options to cater to the needs and taste of the students in areas such as traditional or modern literature, language & linguistics, creative writing and Media Writing is the hallmark of the Department. The interdisciplinary options allow the students to take courses offered by other Departments too.

### **2. Department of Mathematics**

The Department of Mathematics gets admirably along with both advancing science and the extension of fundamental knowledge. It is recognized as a Research Centre by Kannur University and research in the department in the fundamental core subjects like Graph Theory, Algebra, Analysis, Geometry, and Topology is prolific, highly visible and internationally recognized. Our faculty maintains active research programs that have led to regular publications in mathematics.

### **3. Department of Zoology**

The Department offers a full-time BSc Degree Programme with Chemistry and Biological Techniques as Complementary Courses. The Department has a well-equipped laboratory with museum specimens and essential equipment. The Department also offers Research Programme (Ph.D) in Zoology and a Certificate Course in Organic Farming for the students and the public. Every year they are taken on a study to tour to places/institutions of scientific importance with a view to improving their scientific/research aptitude and skills. Students are provided with smart class room facility apart from the routine regular classroom learning facilities.

### **4. Department of Computer Science**

Department of Computer Science was established to offer the Complementary subject for the B Sc Mathematics Course in 1999. It started offering B Sc Computer Science as a core course with Mathematics and Statistics as complementary subjects in 2001 and has been offering Computer Science as a complementary course to III, IV, V and VI semester students of B Com with Computer Applications since 2001. It has been offering Computer Science as a complementary course to I, II, III and IV semester students of B Sc Chemistry since 2004 and started M Sc Computer Science Programme in the year 2015.

Career possibilities are numerous for the graduates in Computer Science. The fast pace of technology has created many new and exciting jobs in computing, including computer graphics, computer systems analyst, data communications analyst, database administrator, programmer analyst, software engineer, systems engineer, systems programmer, information assurance specialist, and network security engineer.

#### **5. Department of Chemistry**

Started in 1995 to offer complimentary paper for the BSc. Zoology course, the department has now been offering a BSc. Programme in Chemistry since 2005 under the self-financing mode. The Department offers small classes, individualized attention and hands-on learning using state-of-the-art instrumentation. The teachers of the Department have been rendering various types of consultancy services to people in and around the institution, and also participate as resource persons, speakers etc. in various programmes organized locally or by other institutions.

#### **6. Department of Commerce**

Established in June 2001, under Self-Financing mode, the Department of Commerce has been offering a B Com Programme with Computer Application. The Department was elevated to the Aided Status in 2011 and three permanent teachers joined the department. The entire faculty completed minor research projects funded by UGC. The Department also offers Open Courses in Financial Services and Insurance & Risk Management.

#### **7. Department of Physics**

Department of Physics, the youngest and the most recently installed department, has been functioning in the college since 2015. Though we have not been able to appoint permanent faculty yet for want of Government nod, the Ad-hoc faculty have been working very hard and produced consistently good results.

#### **8. Department of Journalism**

The program offers options in news and public relations, both of which focus on writing across communication platforms, from the traditional media, to social media and to visual media. We feature practical classes that prepare students to become professional communicators. Our graduates find work in various jobs -- wherever good writing, sound research skills, and critical thinking are valued. In the age of new media, journalistic skills are more important than ever.

#### **9. Department of Political Science**

Political science is the study of governments, public policies, and political processes and behaviours. Using a number of scientific tools, political scientists are able to examine the processes, policies, and political systems of all cultures and places. The Department conducts the following courses as complementary courses to BA Functional English: also offers open courses in Human Rights and Politics of Globalization.

#### **10. Department of Statistics**

The Department was established in the year 1995 as subsidiary department to the Mathematics department. The Department has been offering subsidiary course to the students of the Department of Computer Science since 1999. Department faculty is committed to provide students with excellent training and a base in the study of Statistics.

#### **11. Department of Biological Techniques**

Biological Techniques, a subsidiary subject of B.Sc. Zoology main degree course, deals with various techniques employed in biological science. The main objective of the subject is to make the students of Zoology experts in biological specimen preparation, museology, taxidermy etc. and to make them aware of the emerging trends in biological sciences.

#### **12. Department of Malayalam**

Department of Malayalam has been functioning in the college since the inception of the college, and is thriving to explore the antiquity and the richness and diversity in the literature of the language. At Mary Matha, almost 75% of the students opt for Malayalam as their Part II second language as it is their mother tongue. Thus, the course content is designed in such a way that students choosing Malayalam as second language will be able to understand deeply the cultural and linguistic heritage of Kerala and to imbibe modern trends in Malayalam literature. The department also envisages that through this course, historical, sociological and cultural aspects of our rich heritage would be transmitted to students. There are separate syllabi for Part II Malayalam for BSc (Language reduced pattern) and B.Com courses.

#### **13. Department of Hindi**

The Department conducts Second Language courses for 1st and 2nd year degree students. Through various programmes and activities the Department strives to instil in the students a love for the national language. The Hindi Day is celebrated on 14th September by conducting programmes and competitions for the students of various colleges affiliated to Kannur University.

#### **14. Department of Physical Education**

The Department of Physical Education promotes interest and skills in sports and games among students. Coaching camps in various disciplines are conducted every year. There are fourteen seats reserved under sports quota for degree courses. A photocopy of the original application along with copies of sports certificates should be presented to the Department of Physical Education for admission under sports quota. Mary Matha stands second in men's and fourth in women's overall sports performance in Kannur University 2017-18

## CHAPTER 3

### Project Summary for Utilization

Proposal	Item	Estimated Cost (Rs in lakhs)
I	Construction	100
II.	Renovation	40
III.	Purchase	60
<b>Total</b>		<b>200</b> <b>(Rupees two hundred lakh only)</b>

### PROPOSAL I: CONSTRUCTION

#### PROPOSALS

Sl. No	Item	Estimated Cost (in lakhs)
I	Construction of Library building	125.00
(a)	Construction of Library building(RUSA fund)	100.00
(b)	Construction of Library building(Additional Management contribution)	25.00

## PROPOSAL II: RENOVATION

<b>Sl No</b>	<b>Item</b>	<b>Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
1	Laboratory renovation, repair and maintenance of Zoology, Chemistry, Language Lab, Computer Science Lab, Biological Technique etc of the college	7.00	1.00	6.00
2	Classroom Modernization and renovation (Including technological enabled classroom)	7.00	1.00	6.00
3	Campus development, Drainage, Paving of footpaths and walkways , Solar lighting	9.00	2.00	7.00
4	Toilets renovation (Separate for boys and girls)	3.00	0.50	2.50
5	Canteen/Cafeteria renovation	5.00	1.00	4.00
6	Common room for students renovation	2.00	0.50	1.50
7	Sports Facility renovation	4.00	1.00	3.00
8	Computer Centres Repair and maintenance of UPS, computers and printers	4.00	1.00	3.00
9	Academic Buildings renovation	6.00	1.00	5.00
10	Administrative building, Interior designing of principal office and renovation	3.00	1.00	2.00
<b>Total of Renovation</b>		<b>50.00</b>	<b>10.00</b>	<b>40.00</b>

### PROPOSAL III: PURCHASE

<b>SI No</b>	<b>Item</b>	<b>Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
1	Books/Journals			15.00
2	Purchase of Laboratory Equipment, Furniture, Public Address System, UPS & Copier Machine			20.00
3	Purchase of Computers, Software, Security Cameras, LCD Projector, Printers, Copiers			18.00
4	Sports facility, Gym Equipment, Ground Roller, Ground Cleaning Machine, Cricket Net Practice system			3.00
5	E-resources			4.00
	<b>Total</b>			<b>60.00</b>

## **PROPOSAL I: CONSTRUCTION**

### **Construction of Library Building**

Proposal I is exclusively devoted to the construction of a new library building for the college. The library has been on the second floor of the main block and has been suffering from space constraint ever since its inception.

One of the major concerns of all the stake holders of the college has been to construct a new building exclusively for housing the library and its support tools, including general reading room, digital space, carrels and reference section for research activities.

Hence, the present proposal to construct a library building is an essential requirement for quality enhancement. The college has identified an appropriate land area more easily accessible to all the stake holders including teachers and students. A team led by the Manager of our college, College Engineer and Building Committee members physically examined the site. The College Engineer prepared a detailed report for the construction of library building based on the functional requirements provided by the college. It proposes to include a Reading Room, Stacking Area for 70000 volumes of books, E-resource centre, space for Reprographic Facilities, Librarian's Room, Office Room, Store Room, Record Room, Rest and Wash Room for staff and students etc. It is also proposed to install a water harvesting and solar power generation systems utilizing the large roof-top area. Estimated cost of the construction plan for the library building is Rs 125 lakh of which Rs 100 lakh is expected as the RUSA fund and the remaining Rs 25 lakh will be the contribution of the management.

### **Problem statement and Justification**

The development of the college library has not been proportionate to the general growth of the college in terms of the number of courses and students. Since inception, the college library has been handicapped by the constraints of space and positioning. During the first and second cycles of accreditation, the NAAC Peer Teams recommended shifting the library to a more spacious and easily accessible area that can hold at least 40,000 books.

### **Power Back Up**

We have a 20 KV UPS (10 KV Solar and 10 KV Lab) which is supporting all the Labs, (Computer Lab, Language lab, Chemistry Lab, Biological Techniques Lab, Zoology Lab), 2 Research Centers, Library, NRC, Office, Audio-Visual Room



and Auditorium on a priority basis. So we can't provide power back up to all the above mentioned areas with the existing 20 KV UPS at the time of the power failure. This is a place where there is frequent power failure. Hence our first priority is to upgrade the power back-up to 20 KV, Which will help us improve our work efficiency. Hence we are submitting a proposal for the purchase of a 20 KV UPS under RUSA Scheme.

### **Improvement of Class Room Teaching**

We have six aided UG Programmes, one unaided UG Programme and two PG Programmes (Aided and Unaided 1 each) with 25 classrooms and 3 language halls in our college. We are planning to provide ICT enabled teaching facilities for 9 more class rooms. Each class room will be provided with DLP/LCD, Lap top Computer, White Screen for projection, White Board or Magnetic Green Board as teaching aids.

The amount Required for purchasing DLP/LCD is Rs 40000/per class, Computer and accessories with original software needs Rs 40000/per classroom, White screen costs Rs 7000/per classroom and Green Board costs Rs 10000/per classroom

### **New Seminar Hall**

A new Seminar Hall with a seating capacity of 150 is under construction which will be completed by September 2018. We would like to purchase LCD/TV, DLP, White Board, Sound System and White Screen to equip the Seminar Hall.

### **New Conference Hall**

A new Conference Hall is under construction which will be completed by September 2018. We are submitting a proposal for purchasing audio-visual equipment for it.

### **Language Lab**

Software upgradation for 10 existing computers and installation of 10 more to raise the working capacity

### **New Commerce Lab**

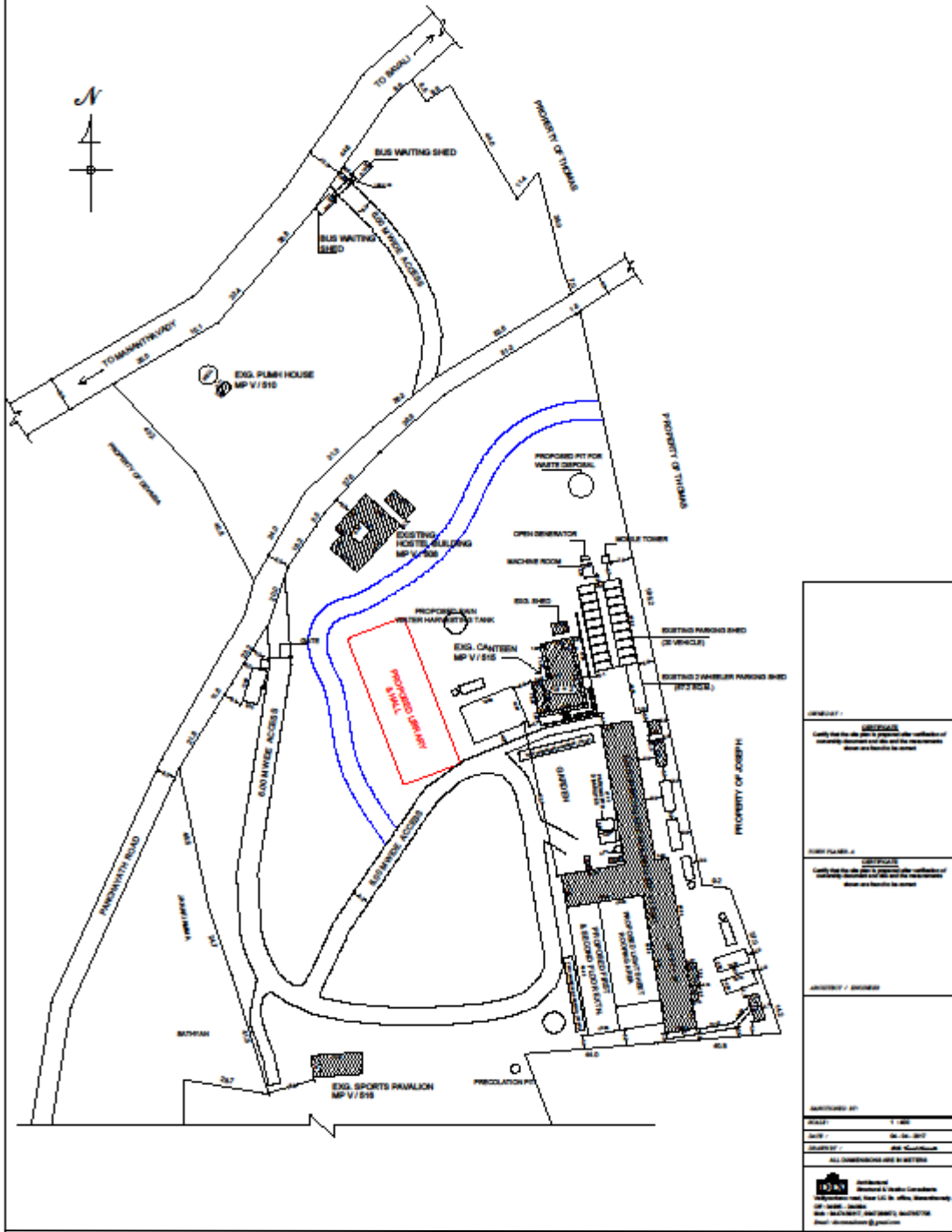
A Commerce Computer Lab exclusively for training the students of Commerce in Project Work and Tally is proposed to be set up with 15 computers, Inverter/UPS and a language room.

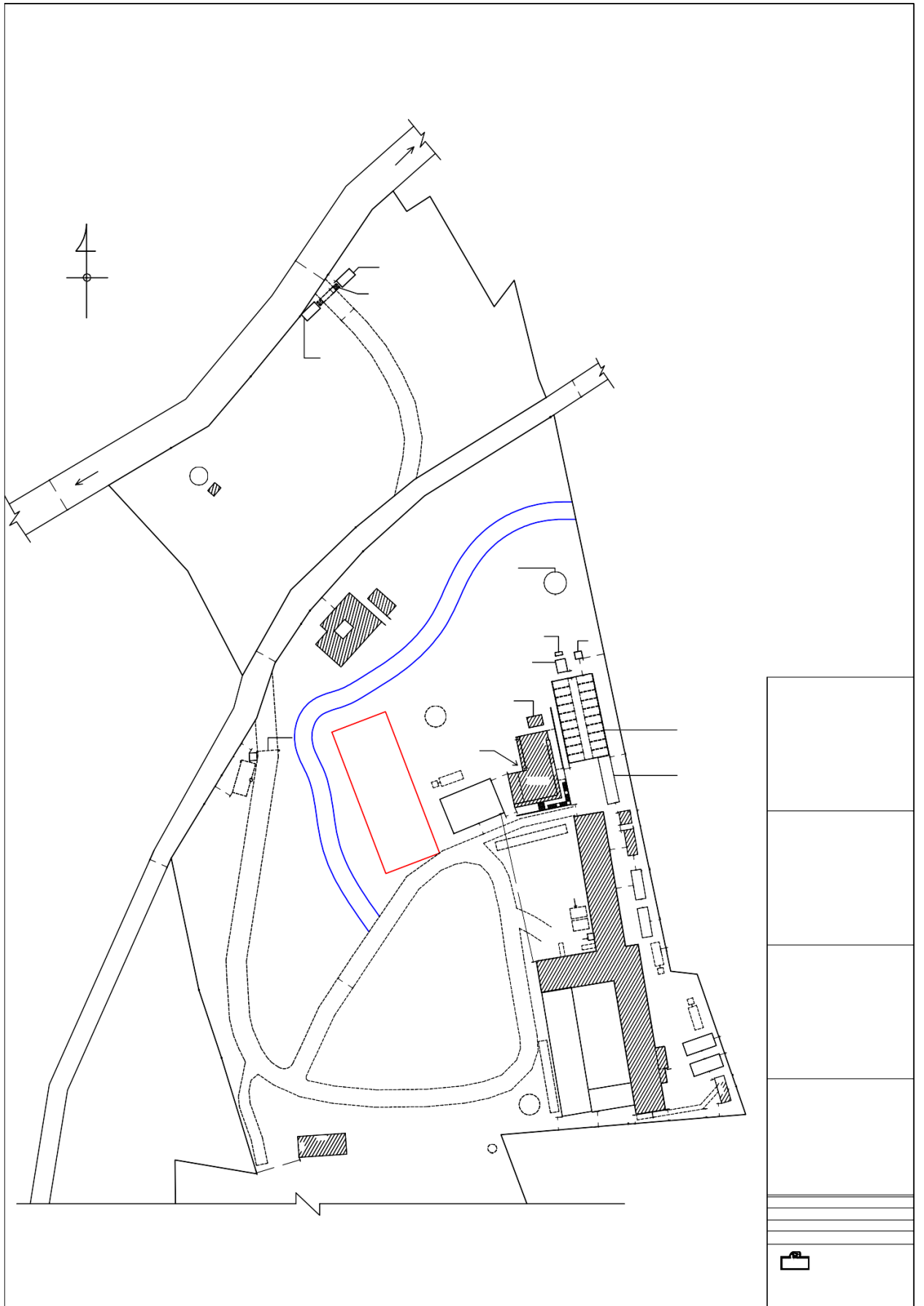
<b><u>No</u></b>	<b><u>Specific Item</u></b>	<b><u>Area in m<sup>2</sup></u></b>	<b><u>Rate</u></b>	<b><u>Amount (INR)</u></b>
I	RCC framed structure, literate masonry work, plastering working, flooring, doors and windows, plumbing ,wiring and finishing work	661/ m <sup>2</sup>	18,600/ m <sup>2</sup>	12294600.00

2	Service Tax and Miscellaneous			205400.00
	Total			12500000.00
	<b>GRAND TOTAL</b>			<b>10000000.00</b>

The abstract of the estimate and sketch for the construction of the library building prepared by the College Engineer is given below

**SITE PLAN OF THE MARY MATHA ARTS & SCIENCE COLLEGE IN RS No: 74/3, 74/4, 74/8, 74/9, 74/10, 74/11, 75/4, 75/5, 82/3, 83/3, 83/4, 83/5, 83/6, 84/1, 84/2, 84/3, 84/4, 84/7, 84/8 & 84/10, WARD NO: V OF MANANTHAVADI MUNICIPALITY, WAYNAD DISTRICT.**





## **PROPOSAL 2: RENOVATION**

Proposal 2 has been drawn to meet the essential infrastructure needs of the college which lead to immediate quality accomplishment. The main renovation works in this proposal include relaying of flooring tiles, repair of class rooms and furniture, extension of the canteen kitchen space, provision of wash room facility to the day-scholar's dining area, repair of the washrooms for girls and boys etc. In addition, it is also proposed to refurbish the Principal's office with enough storage space to accommodate book-shelves and showcases to keep the trophies and citations won by the college teams in sports, arts and other competitions. Such repair and refurbishment will certainly be in tune with the quality statement we would like to make by bettering the physical infrastructure to support academic and supplementary activities of the college.

The Heritage Museum, established by the Department of English of the college, is one of the unique features of the college which received special mention by the NAAC Peer Teams. The Museum has a fairly good collection of socio-cultural artefacts of great antique value representing the exotic rural, tribal culture. By the renovation of such establishments, the college expects to attract academics, researchers and students and strengthen its ability to organize various programmes to supplement curricular, co-curricular and extension activities.

Fund has been set apart for the renovation of common washroom facility, paving of pathways and porches, refurbishing the interior space of the Principal's office, installing waste disposal system and solar lighting, maintaining the existing herbal garden etc. Such facilities are expected to improve the overall quality ambience of the college. Various renovation works included in the proposal and their estimated cost are given in the following table.

### Estimate for the Proposed Renovation Work

SI No	Item	Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
1	Laboratory renovation, repair and maintenance of Zoology, Chemistry, Language Lab, Computer Science Lab, Biological Techniques Lab of the college	7.00	1.00	6.00
2	Classroom Modernization and renovation (Including technologically enabled classrooms)	7.00	1.00	6.00
3	Campus development, Drainage, Paving of footpaths and walkways , Solar lighting	9.00	2.00	7.00
4	Renovation of Toilets (Separate for boys and girls)	3.00	0.50	2.50
5	Canteen/Cafeteria renovation	5.00	1.00	4.00
6	Renovation of Common Room for students	2.00	0.50	1.50
7	Sports Facility renovation	4.00	1.00	3.00
8	Repair of Computer Centres and maintenance of UPS, computers and printers	4.00	1.00	3.00
9	Renovation of Academic Buildings	6.00	1.00	5.00
10	Renovation of Administrative building, Interior re-designing of Principal's Office	3.00	1.00	2.00
<b>Total for Renovation</b>		<b>50.00</b>	<b>10.00</b>	<b>40.00</b>

### I. Laboratory Renovation, Repair and maintenance

SI No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
1	Laboratory Renovation, Repair and maintenance of Zoology Lab, Chemistry Lab, Language Lab, Computer Science Lab, Biological Techniques Lab etc.	7.00	1.00	6.00
	a) Renovation and Repair of all the laboratories			
	b) Repair of the door and windows of Classrooms			
	c) Repair of the lab/office equipment			

### 2. Classroom Modernization and Renovation

SI No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
2	Classroom Modernization and Renovation (Including technologically enabled classrooms)	7.00	1.00	6.00
	a) LCD Projectors			
	b) Smart classrooms (7 UG & 2PG)			
	c) White Boards (12 Class rooms)			
	d) Renovation of Network Cable/ Wiring			
	e) Repair of door, windows and furniture			

### 3. Campus development

SI No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
3	Campus development	9.00	2.00	7.00
	a) Sanitation & Drainage			
	b) Paving of footpaths and walkways			
	c) Solar lighting and water resource management			
	d) Tarring of the road			
	e) Renovation of the Herbal Garden			

### 4. Renovation of washrooms

SI No	Item	Approximate Estimated Cost (in Lakhs)	Management Contribution	RUSA FUND
4	Renovation of washrooms (Separate for boys and girls)	3.00	0.50	2.50
	a) Cess pits (3 Nos)			
	b) Septic tank repair			

### 5. Canteen/Cafeteria renovation

SI No	Item	Approximate Estimated Cost (in Lakhs)	Management Contribution	RUSA FUND
5	Canteen/Cafeteria renovation	5.00	1.00	4.00
	a) Flooring with Tiles			
	b) Renovation of the wash area of the Pantry			
	c) Renovation of kitchen			
	d) Renovation of the wash area			
	e) Roof repair and renovation			



#### 6. Renovation Common Room for the Students

<b>Sl No</b>	<b>Item</b>	<b>Approximate Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
6	Renovation Common Room for the Students	2.00	0.50	1.50
	a) Repair of doors and windows			
	b) Repair of beds in the Women's Common Room			
	c) Repair and renovation of the floor			

#### 7. Renovation of Sports Facility

<b>Sl No</b>	<b>Item</b>	<b>Approximate Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
7	Renovation of Sports Facility	4.00	1.00	3.00
	a) Repair of the roof of the gymkhana to prevent leakage			
	b) Renovation and modification of the room for Yoga and Meditation			

### 8. Computer Centres (Repair and maintenance)

SI No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
8	Computer Centres (Repair and maintenance of UPS, Computers and Printers)	4.00	1.00	3.00
	a) Laptop keyboard change			
	b) Toner refilling			
	c) RAM upgradation for desktop computers			
	d) HDD replacement (desktop)			
	e) UPS Repair			
	f) Battery maintenance			
	g) Projector repair			
	h) Printer servicing			
	i) Antivirus software			

### 9. Renovation of Academic Buildings

SI No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
9	Renovation of Academic Buildings	6.00	1.00	5.00
	a) Repair/replacement of electrical fittings			
	b) Painting work			
	c) Renovation /Repair of doors and windows			
	d) Repair of the Desks and Benches in Classrooms			
	e) Electrification and Network cabling in all smart class rooms			
	f) Repair and Maintenance of Public Address Systems in classrooms			
	g) Renovation of the Confidential/Examination Rooms			

### 10. Renovation of Administrative Building

<b>Sl No</b>	<b>Item</b>	<b>Approximate Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
10	Administrative Building: Renovation and Interior Redesigning of Principal's Office	3.00	1.00	2.00
	a) Renovation and Interior designing of Principal's Office and Visitor's Room			

## RENOVATION OF COURTYARD AND HERBAL GARDEN

### Renovation of Herbal Garden

A well maintained herbal garden consisting of over 200 species of rare, exotic and largely endangered medicinal plants are conserved on the campus for academic reference and research purposes. The college campus has forest land in its immediate neighbourhood which is well known for biodiversity and presence of highly exotic medicinal plants. The following are the requirements for the proper maintenance of the herbal garden.

Sl.No	Item description	Approximate cost (INR)
1	Procurement and transportation of Medicinal plants	10000
2	Sand and manure	10000
3	Preparation of the expanded land area	10000
4	Extension of irrigation	20000
5	Renovation of fencing	15000
7	Labeling of plants	4000
	<b>Total (Rupees sixty nine thousand only)</b>	<b>69000/-</b>

### PROPOSAL 3: PURCHASE

Proposal 3 deals with the purchase of Books, journal, E Resources and equipment for the strengthening of UG and PG Science Laboratories and to promote research activities of faculties including research oriented student projects. Therefore, major part of the fund has been allotted to the purchase of sophisticated equipment. Pertaining to this, each department submits proposals with an intention to develop a separate research oriented laboratory in their department.

The department of Physics, the newly started department, submits proposal to strengthen the existing facilities of the lab so as to reinforce the research in Nanotechnology

Department of Chemistry submits proposal to strengthen the existing facilities

The department of Zoology and Biological technique submitted the proposal to strengthen the existing facilities of their research laboratory.

Apart from this, purchase of furniture to staff rooms, procurement of printers and photocopiers for the college office, Confidential Room and examination office and the IQAC office have been included in the proposal. Purchase of power supporting systems to support sophisticated instruments in the existing common instrumentation facility, examination control office and the IQAC office Further, procurement of public address system for college Auditorium and purchase of security cameras to install at various selected locations of the college have been incorporated in the proposal. The detailed report on the purchase along with justification is given in the following section.

### **PROPOSAL III: PURCHASE**

<b>Sl No</b>	<b>Item</b>	<b>Approximate Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
1	Books/Journals			15.00
2	Purchase of Laboratory equipment, furniture, public address system, ups, copier equipment			20.00
3	Purchase of computer, software, security cameras, LCD Projector, printers, Copiers			18.00
4	Sports facility, Gym Equipment, Ground Roller, Ground Cleaning Machine, Cricket Net Practice system			3.00
5	e-Resources			4.00
	<b>Total</b>			<b>60.00</b>

**I. Books/Journals**

<b>Sl No</b>	<b>Item</b>	<b>Approximate Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
1	Books/Journals	15.00	00.00	15.00
	a) Purchase of books for all the major and Minor department	10.00	00.00	10.00
	b) Purchase of books for the research department of Zoology and Mathematic	5.00	00.00	5.00
	c) Purchase of journal for all the major and Minor department	0.50	00.00	0.50
	d) Purchase of journals for the research department of Zoology and Mathematic	0.50	00.00	0.50
	<b>Total</b>			<b>15.00</b>

**2. Purchase of Laboratory equipment**

<b>Sl No</b>	<b>Item</b>	<b>Approximate Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
2	Purchase of Laboratory equipment, furniture, public address system, ups, copier security cameras, LCD, printer, Projector etc	20.00	0.00	20.00

## PURCHASE OF LABORATORY EQUIPMENT

Department	Item	Approximate Estimated Cost (in Lakhs)
Biological Technique	Olympus HB microscope with mechanical stage and immersion oil	100000.00
Physics	Details are below	520000.00
Language Lab	Software for language lab	100000.00
Chemistry	Weighing Balance 4 digit, Calorie meter, Glass ware	230000.00
Zoology	Microscope Olympus	100000.00
<b>Total</b>	<b>Ten Lakh fifty thousand only</b>	<b>1050000.00</b>

## PURCHASE OF FURNITURE

Sl No	Item	Specification	Approximate Estimated Cost Rate		Total (lakhs)
1	Table (wooden)	with drawer, wooden 3 X 2 feet	5000		
2	Chair (wooden)	With armrest, cushion	5000		
3	Steel almirah	With lock and key, MS	10000	10	1
	With glass door	sheet 20 guage			
	<b>Total :</b>	<b>Rupees One lakh fifty thousand only</b>			<b>1.5</b>

## PURCHASE OF PRINTERS AND PHOTOCOPIERS

S N o	Item	Specification	Rate	Approximate Estimated Cost Rate	Total (lakhs )
1	High quality Duplex Printer (3 in 1)	Speed: 25-30 pages/minute, Memory:1GB, Input Capacity: 2 Trays each of capacity 500 papers+ Bypass tray, Paper size- A5, A3 and A4, Output tray capacity: more than 200 sheets	1.00	1	1.00
<b>Total : Rupees One lakhs only</b>					<b>1.00</b>

## THE PURCHASE OF UPS

S N o	Item	Specification	Approximate Estimated Cost Rate	Quantity	Total (lakh s)
1	On line UPS	5 kVA online UPS, Battery : 12V, 10NOs. 42AH Exide SMF battery with rack (3 year warranty)	90,000	1	.90
2	Copier with printer	Ups: 3 kVA (4 year Warranty) 3 Batteries: 150Ah (5 year Warranty)	80000	2	1.6
<b>Total: Rupees Two lakhs fifty thousand only</b>					<b>2.50</b>



## PURCHASE OF LCD PROJECTOR

Sl No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
2	Purchase of LCD Projectors/ Screens/ White Board for smart class room( 7 Class Room)	2.60	0.00	2.60
	Colour Mike	.20		.20
	Portable Mike	.20		.20
	<b>Total: Rupees Three lakhs only</b>			<b>3.00</b>

## PUBLIC ADDRESS SYSTEM FOR COLLEGE AUDITORIUM

No.	Item	Details	Unit price (Rs)	Qty	Total (Rs)
1	Microphone	Dynamic	3000	4	12000
2	Microphone	Cordless	1500	2	3000
3	Microphone	Condenser	1000	2	2000
4	Speaker	Surround Sound Speaker- 1000Watts	15000	2	30000
5	Amplifier with Mixer	10 input stereo	28000	1	28000
6	Mic stands	Long	1500	2	4000
7	Mic stands	Small	1000	2	3000
8	Cabinet/Rack /Locker	Partitioned with key (Rooms for amplifier, mixer, mics etc.)	8000	1	8000
	<b>Total</b>	<b>(Rupees ninety thousand only)</b>			<b>90000.00</b>

## PURCHASE OF SECURITY CAMERAS

Sl. No	Item	unit price	Qty	Amount (INR)
1	8CH DVR	4700	1	4700
2	2mpV/F 50m IR camera	4010	4	16040
3	2mpV/F 20m IR camera	1880	4	7520
4	Cable (m)	55	300	16500
5	Pin and socket	40	35	1400
6	HDD	10010	1	10040
7	Labour charge	3800	1	3800
<b>Total (Rupees sixty thousand only)</b>				<b>60000</b>

### 3. Purchase of computer, software

Sl No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
3	Purchase of computer, software,	18.00	0.00	18.00
	a) Commerce Lab (15 computers)			
	b) Mathematics Lab (5 Computers)			
	c) Computer Science Lab(20 Computers)			
	d) 7 Computer for Main Departments			
	e) Computers for office			
	f) 3 UPS			
	g) Software for language lab and other computers			
		Total		1800000.00

**PURCHASE OF COMPUTER/LCD/ UPS/ SOFTWARE DETAILS**

<b>Sl No</b>	<b>Item</b>	<b>Approximate Estimated Cost (in Lakhs)</b>	<b>Additional Management Contribution</b>	<b>RUSA FUND</b>
	Emerson S400D 10kva ups- Ups 1yr warranty	487786	0.00	
	12V 100AH SMF battery 26 no's . battery 2yr warranty			
	Battery rack and cable			
	Core i3 / 4GB/ 1TB/18 " Monitor /Kbd / Mouse /DVDRw / wireless dongle / Lenovo	30000/-		
	Projector - Epson	29, 300/-		
	Printer HP All in one 1050	12000/-		
	projector Epson Eb - S41	30000/-		
	12v 100 ah smf battery	10500/- per		
	Acer desktop i3 7th gen 4gb/1tb/dvd/18. 5/3yr	30, 800		
	Acer dualcore desktoo 4gb ram/1tb hdd/dvd/18. 5/3yr	26, 000/-		
	Epson s41 projector	29, 300/-		
	Printer all in one ink tank epson L380	12,000/-		
	6*4 ceramic white board	10, 400		
	6*4 normal board- 6000/-	6000		
	<b>Total</b>			<b>1800000.00</b>

#### 4. Sports facility

SI No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
4	Sports facility	3.00	0.00	3.00
	a) Gym Equipment	1.00		
	b) Ground Roller	.50		
	c) Indoor court Cleaning Machine	.50		
	d) Facility for Cricket Net Practice / Cricket Full mat and Nets	1.0		
	<b>Total</b>	<b>Three Lakh only</b>		<b>3.00</b>

#### 5. e-Resources

SI No	Item	Approximate Estimated Cost (in Lakhs)	Additional Management Contribution	RUSA FUND
5	e-Resources	5.00	2.00	3.00
	a) all the major and minor department			

### DEPARTMENT OF PHYSICS

Department of Physics is required following lab equipment to establish as high tech. It is only four year old Department.

PHYSICS LABORATORY EQUIPMENT LIST-DEPARTMENT OF PHYSICS				
SI NO	ITEM	AMOUNT	QTY.	TOTAL AMOUNT
1	Heavy Travelling Microscope	2,500.00	2	5,000.00

<b>PHYSICS LABORATORY EQUIPMENT LIST-DEPARTMENT OF PHYSICS</b>				
<b>SI NO</b>	<b>ITEM</b>	<b>AMOUNT</b>	<b>QTY.</b>	<b>TOTAL AMOUNT</b>
2	CRO	19900	4	79,600.00
3	45Deg Inclined Plane and Newtons Ring Lens Set	750.00	2	1,500.00
4	7" Imin. Spectrometer High quality LABTRA	5,000.00	2	10,000.00
5	Airwedge Plate Set	450.00	2	900.00
6	Ammeter 100micro A for B Configuration	480	8	3,840.00
7	Ammeter 50mA for CC Configuration	480.00	8	3,840.00
8	BC 107 Transistors	25	8	200.00
9	Beaker 1 litre Good quality Borosilicate	60.00	6	360.00
10	Beaker 500ml Good quality Borosilicate	100.00	6	600.00
11	Bread Board good quality	250.00	5	1,250.00
12	Capacitors Different Values	10.00	70	700.00
13	Carey Foster's bridge High quality By Labtra in Teak Wood	2,500.00	1	2,500.00
14	Charge and Discharge Keys high quality	1,080.00	4	4,320.00
15	Circular Coil Apparatus Good quality Labtra	3,300.00	2	6,600.00
16	Commutator Good quality-Reversing Key	480.00	2	960.00
17	Compass Box Good quality -Durable type	310.00	6	1,860.00
18	Daniel Cell	570.00	2	1,140.00
19	Decade Capacitance Box Four Dial High Quality	5,380.00	2	10,760.00
20	Decade Inductance Box High Quality Four Dial	3,900.00	2	7,800.00
21	Decade Resistance Box Four Dial High quality	2,500.00	8	20,000.00
22	Deflection Magnetometer good quality	950.00	4	3,800.00
26	Diffraction Grating Good quality for Better Result	980.00	3	2,940.00

<b>PHYSICS LABORATORY EQUIPMENT LIST-DEPARTMENT OF PHYSICS</b>				
<b>SI NO</b>	<b>ITEM</b>	<b>AMOUNT</b>	<b>QTY.</b>	<b>TOTAL AMOUNT</b>
27	Digital And Analog IC Trainer	10200	1	10,200.00
28	Digital IC s NAND, JK , RS, AND, OR,NOR, X-OR, NOT	30.00	80	2,400.00
29	Digital Stop Watch Good quality	950.00	6	5,700.00
30	Diodes IN 4007	2.00	40	80.00
32	Electric Heater for Heating the Coil	1,800.00	1	1,800.00
33	Experiment Board Rectifiers	140.00	8	1,120.00
34	Experiment Board for Op-Amp Experiments	140.00	8	1,120.00
35	Fixed Condensor 5MFD Fixed in Bakelite Case	560.00	6	3,360.00
36	Function Generator 5MHz	8500	6	51,000.00
38	Galvanometer High quality Wide Dial ASICO Make	490.00	6	2,940.00
39	High Quality Ballistic Galvano Meter ASICO Make	3,000.00	1	3,000.00
40	High quality box type vibration magnetometer	2,100.00	2	4,200.00
42	High quality Meldies String apparatus Labtra make Heavy pattern	4,100.00	2	8,200.00
44	high quality Serals Vibration magnetometer in quality Glass jar	550.00	2	1,100.00
45	High Quality Stead Make Rheostat Suitable Range 50R	2,200.00	8	17,600.00
46	High Quality Stead Make Rheostat Suitable Range 50R	2,200.00	8	17,600.00
47	High Quality Wide Dial Ammeter 10mA range ASICO	490.00	8	3,920.00
48	High Quality Wide Dial Ammeter 200mA range ASICO	490.00	6	2,940.00
49	High Quality Wide Dial Ammeter 2A range ASICO	490.00	6	2,940.00
50	High Quality Wide Dial Ammeter 2A range ASICO	490.00	8	3,920.00
51	High Quality Wide Dial Ammeter milli range ASICO	490.00	8	3,920.00
52	High quality Wide Dial Voltmeter	490.00	8	3,920.00
53	High Quality Wide Dial Voltmeter 2V	490.00	8	3,920.00

<b>PHYSICS LABORATORY EQUIPMENT LIST-DEPARTMENT OF PHYSICS</b>				
<b>SI NO</b>	<b>ITEM</b>	<b>AMOUNT</b>	<b>QTY.</b>	<b>TOTAL AMOUNT</b>
	range ASICO			
54	High quality Wide Dial Voltmeter milli Range	490.00	8	3,920.00
55	High quality Wide Dial Voltmeter Suitable Range 3V	490.00	6	2,940.00
56	High Resistance 1k	450.00	6	2,700.00
57	High Resistance 2k	450.00	6	2,700.00
58	LASER Source Good quality with Two Year warranty	1,900.00	2	3,800.00
60	Light Source Monocromatic Na Vapour Lamp Complete	5,900.00	2	11,800.00
61	Liquid Lens arrangement with Glass Mirror, Lens, Retort Stand with Pointer, Meter Scale Etc	810.00	2	1,620.00
62	Low Resistance Box 0.1 to 1000R Manganin Coil	3,510.00	6	21,060.00
63	Mercury 100g	1,480.00	1	1,480.00
64	Meter Scale Superior Quality	126.00	8	1,008.00
65	Mirror with G Clamp	180.00	8	1,440.00
66	Newton's Ring Special Microscope	3,000.00	3	9,000.00
67	Normal Digital Multimeter	850.00	4	3,400.00
68	Op Amp IC 741	15	20	300.00
69	Optic Lever Good quality	170.00	6	1,020.00
70	Planck's constant using LED equipment	2200	1	2200
71	Resistance Box 1 to 10K High quality Manganin coil type	2,335.00	6	14,010.00
73	Resistance Box 1 to 1000R High quality Manganin type	3,500.00	6	21,000.00
74	Resistance Coil for Temp. Coefficient of Resistance	800.00	2	1,600.00
75	Resistances Different Standard Values	0.75	500	375.00
76	Retort Stand with Universal Clamp - Heavy type	850.00	2	1,700.00
77	Reversing Key	480.00	6	2,880.00
78	Rheostat 100R Stead make high quality	2,200.00	6	13,200.00
79	Rheostat 20R Stead Make High quality	2,200.00	8	17,600.00
80	Rheostat Good quality Stead Make	2,200.00	4	8,800.00

<b>PHYSICS LABORATORY EQUIPMENT LIST-DEPARTMENT OF PHYSICS</b>				
<b>SI NO</b>	<b>ITEM</b>	<b>AMOUNT</b>	<b>QTY.</b>	<b>TOTAL AMOUNT</b>
	10K ,1K Etc			
81	Screw gauge	360.00	4	1,440.00
83	Slotted Weight 5x50g good quality	135.00	8	1,080.00
84	Slotted Weight 5x 100gm Iron CP (Mentioned Two set for Uniform Bending experiment also)	250.00	8	2,000.00
85	Slotted Weight 5x200gm Good quality set	495.00	2	990.00
86	Standard Resistor 2 Ohm High quality	245.00	8	1,960.00
87	Standard Resistor 3 Ohm High quality	245.00	8	1,960.00
88	Standard Resistor 5Ohm High quality	245.00	8	1,960.00
89	Static Torsion 1/2 Meter Good quality Labtra make	2,500.00	2	5,000.00
90	Surface Tension apparatus Labtra Dedicated Setup with Adjustable Stand Including Capillary Tube set	1,800.00	3	5,400.00
91	Tangent Galvanometer Good quality	1,700.00	3	5,100.00
92	Thermometers Precision 1/10 Accurate	220.00	6	1,320.00
93	Transformer Fixed with Terminals	480.00	4	1,920.00
94	Two Way Key high quality	280.00	2	560.00
95	Voltmeter High Quality 1V and 30 V	480.00	8	3,840.00
97	White Light Source - Mercury Vapour Lamp complete set	3,180.00	2	6,360.00
98	Zender Diodes Different Voltages	3.00	20	60.00
99		<b>TOTAL</b>		<b>519873.00</b>



## Conclusion

Mary Matha Arts and Science College, Mananthavady provides an excellent and salubrious environment for the students to get the best in Wayanad with outstanding opportunities to make the most of their intellectual potentials. As a Christian Minority Institution, we strive to inculcate in them human values and social commitment as envisaged by Jesus Christ. It considers education not just as a search for knowledge, but as a great mission in which both the teachers and students participate in the process of developing human resources for the benefit of the society and the nation. The College seeks to instill in the students an awareness of their social rootedness and encourage them to be active agents in the construction of a just social order after its stated Motto, Vision, and Mission. Though a minority institution, the College includes in its purview the educational aspirations of the community as a whole, irrespective of religion, caste, and social status. We are dedicated to achieving the highest possible standards in every area: academic attainment, research through societal interventions, cultural and sporting activities etc. We provide a supportive environment, where students from all backgrounds can make the best of their innate potential. We offer prospective students a chance to mould their future by providing individual attention through the Mentoring System and allowing them to form close working relationships with their teachers. The College stands conspicuous for State of the Art Logistics provided by the Management, the cooperation extended by the Parents, the dedicated service offered by the Teaching and Administrative Teams, and the vibrant Campus kept by the Student Community, which is a model to behold. Mary Matha Arts and Science College has completed 23 years' service to the youth of Wayanad and neighbouring districts, and we seek the continued blessings of Providence in the years to come. The academic community has been inspired by the Mahatma's words: *A small body of determined spirits, fired by an unquenchable faith in their mission can alter the course of history.* The proposal for the fund utilization of RUSA is prepared with a view to transform the campus to a higher level of learning centre by bringing in new infrastructure and technology for the transformation of the educational process. Due importance has been given to the overall development of the students by providing them with better facilities and amenities.

18-06-2018  
Mananthavady

**Dr Savio James V**  
**Principal**