

**EMEA COLLEGE OF ARTS & SCIENCE
KONDOTTI**



DETAILED PROJECT REPORT

(REVISED)

Submitted to

**THE STATE PROJECT DIRECTORATE
RUSA**

THIRUVANANTHAPURAM

JULY 2019

Project Monitoring Committee

EMEA College of Arts & Science

Dr.C.P Ayoob	Principal
Dr. Zacaria T.V	Institutional Level Coordinator, RUSA
Dr M.P Abdulla	Member, Technical Support Group, RUSA
Dr.Krishna Kumar. T	Purchase
Dr. Riyad A.M	Renovation
Mr Askarali A	Construction
Mr Muthukoya Thnagal	Junior Superintendent
Mr. K Muhammedali	Clerk
Mr. Zahir Ali	Chairperson, College Union

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 with all the stake holders 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 2 Crore.

Kondotti

16-07-2019

Dr. Ayoob.C.P

Principal

DECLARATION

We, the Project Monitoring Committee (PMC) members of RUSA, EMEA College of Arts & Science, Kondotti 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. C.P Ayoob	Principal
Dr. Zacaria T.V	Institutional Level Coordinator, RUSA
Dr M.P Abdulla	Member, Technical Support Group, RUSA
Mr Askarali A	Construction
Dr.Krishna Kumar.K	Purchase
Dr. Riyad A.M	Renovation
Mr. Muthukoya Thnagal	Junior Superintendent
Mr. K Muhammedali	Clerk
Mr. Zahir Ali K	Chairperson, College Union

EXECUTIVE SUMMARY

EMEA College of Arts & Science, Kondotti is founded in the year 1982. The college is affiliated to University of Calicut and is included under sections 2(f) and 12B of the University Grants Commission (UGC). The college was graded *A* by the National Assessment and Accreditation Council (NAAC) after the second cycle of the reaccreditation held in 2015. At present, the college offers ten undergraduate and five post graduate programmes. The post graduate department of Economics is approved as research centre.

The present proposal has been formulated by strictly 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. Attention has been paid to improve the academic performance, research output and overall quality of the college.

The proposal is structured in three chapters. Chapter 1 provides an introduction of the college. The vision and the mission of the college is 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 three titles viz. Proposal I: Construction, Proposal II: Renovation and Proposal III: Purchase.

The first Proposal is for the construction of a Humanities Block to provide separate infrastructure facility to three major departments (PG Department of Economics and Research Centre, PG Department of History and West Asian Studies and finally PG department of English) which are presently working in the Main Block. This construction is essential due to two reasons. The class rooms in the Main Block are for programmes with a maximum intake of 40. Secondly, there are around 1000 students accommodated in the main block and this seems to be the main reason for sound pollution in the area. The construction of new Humanities Block would help the institution to resolve this problem. Proposal II presents various projects which fall under the category of Renovation or up-gradation of existing facilities. These proposals address a variety of requisites for improving the quality of higher education. Here, the main project proposal is for renovation of the central library. There are also project proposals for up gradation of road facilities, Bamboo Lake (rain fed tank), Rain Water harvesting, Solar Power supply, Herbal Garden renovation, Museum renovation, Project Lab renovation and a ten point Fitness park for improving the facilities at Fitness Centre.

The prime objective of proposal III is to purchase sophisticated equipment for the setting up of research oriented laboratories in all the Science departments. In addition to this there is proposal for purchasing new books and journal for further strengthening the central library

CHAPTER I

INTRODUCTION

ABOUT EMEA

EMEA College of Arts and Science, Kondotti is an embodiment of a long cherished dream of people of Ernad, a backward region in erstwhile Malabar district of British India. The college is situated in a village Kuminiparamaba, within earshot from Calicut International Airport. It is run by Ernad Muslim Educational Association, a registered society formed by a group of social reformers to establish educational institutions to uplift the socially and economically backward populace of this region.

Started in 1982 as a humble institution offering pre-degree programmes in commerce and humanities it was upgraded to a degree college in the year 1991. Currently, it has five PG and ten UG programmes apart from five UGC funded Add-on courses. The post graduate programmes are in Economics, Commerce, English, Microbiology, and History and the subjects like Economics, Commerce, English, West Asian Studies, Microbiology, Biochemistry, Computer Science, Biotechnology and Business Administration are offered as core subjects for UG programmes. There are 1500 and more students on the rolls of which majority hails from a relatively poor socio-economic background. According to a report prepared by IQAC, almost 95% of students are from rural areas which includes 15% SC/ST categories, and 83% other backward castes (OBC). Women constitute 60% of the total enrollment.

The institution has discharged its Institutional social responsibility in an exemplary manner. Kuminiparamaba, the village where this college is situated, has been declared as the adopted village. Various constituent units of the institution have been enlightened to focus on this area while planning extension and community service programmes. The Shelter for the Needy programme, implemented in connection with the Compulsory Social Service Scheme of the University of Calicut has become an icon of community service. The last four years witnessed the construction of three houses to destitute in the adopted village. The work for the fourth house is expected to start shortly.

The institution is accredited by National Assessment and Accreditation Council (NAAC), Bangalore with 'A' Grade.

VISION

To be a centre of excellence in higher education, affordable to common man.

MISSION

Identifying and developing the talent of the youth and moulding them into useful citizens with due emphasize on right character formation is the avowed mission of EMEA College. The fulfillment of this lofty goal is the basis of educational programmes formulated and pursued by the institution.

THE EMBLEM



The college emblem symbolizes knowledge, the world in its abundance, the panoramic beauty of Kerala and the values of life.

On the top of the emblem is a verse from the Holy Qur'an which means "He taught man that which he knew not" (96:5).

The ocean represents life in its totality through which each person journeys, until he reaches his destination under the guidance of the beacon light of EMEA. The coconut tree stands for the scenic ambience, the ideal location the campus provides for educational pursuits. Flanking the emblem is the full name of the organization that runs the institution.

GROWTH

- 2013 M.A. History
- 2013 M.A. English
- 2013 M.Com (Finance)
- 2013 B.Com with Computer Application
- 2004 Bachelor of Business Administration (B.B.A)
- 2004 B.Sc. Biochemistry
- 2002 M.Sc. Microbiology
- 2002 B.Sc. Biotechnology
- 2001 B.Sc. Computer Science
- 2001 B.A. West Asian Studies
- 1999 B.Sc. Microbiology
- 1998 B.A. English
- 1995 M.A. Economics
- 1993 B.Com
- 1991 B.A. Economics
- 1982 Pre-degree III & IV Groups



CHAPTER II

**INSTITUTIONAL IDENTITY AND
ACADEMIC PROGRAMMES**

INSTITUTIONAL IDENTITY AND ACADEMIC PROGRAMMES

Sl No	Particulars	Details
1	Name of the College	EMEA College of Arts & Science
2	Category (Govt./Aided/Private)	Aided
3	NAAC Accreditation	Reaccredited with A Grade at 3.02 CGPA(Cycle II)
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	Hill
6	Campus area in acres	20
7	Year of establishment	1982
8	Number of students enrolled	1534
9	SC	216
10	ST	8
11	OBC	1284
12	Women students	1009

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. C.P Ayoob	0483-2712030	9447108960	91 483-2713530	ayoobkeyi@emeacollege.ac.in
RUSA Institutional Coordinator	Dr Zacaria T.V Associate Professor of Political Science	04902302734	9995042688	91 483-2713530	zacariatv@yahoo.com

Nodal Officers	Name	Phone Number	Mobile Number	Fax Number	E-mail Address
Purchase	Dr.Krishna Kumar.K	0483-2712030	9495607426	91 483-2713530	krishmea@gmail.com
Renovation	Dr. Riyad A.M	0483-2712030	9447100632	91 483-2713530	amriyad@yahoo.com
Construction	Mr. Askarali A	0483-2712030	9744407084	91 483-2713530	askaraliareekan@gmail.com

Academic Programmes

<i>Programme Level</i>	<i>Name of the Programme/ Course</i>	<i>Duration in Years</i>	<i>Sanctioned /approved Student strength</i>
Under- Graduate	B A Economics	3	60
	B Com	3	60
	B. Com. with Computer	3	40
	B.A English	3	40
	B.A West Asian Studies	3	60
	B.Sc. Computer Science	3	36
	B.Sc. Microbiology	3	36
	B.Sc. Biotechnology	3	30
	B.Sc. Biochemistry	3	30
Bachelor of Business Administration	3	50	
Post Graduate	M.A Economics	2	20
	M.A English	2	20
	M.A History	2	20
	M.Com	2	20
	M.Sc. Microbiology	2	12
Ph. D	Economics	5	10

CHAPTER III

PROPOSALS

PROJECT SUMMARY FOR UTILISATION

Proposal	Item	Estimated Cost (Rs in lakhs)	RUSA Share (Rs. in lakhs)
I	Construction	99.47821	99.47821
II.	Renovation	48.75958	48.75958
III.	Purchase	51.76221	51.76221
Total		200 (Rupees two hundred lakhs only)	200 (Rupees two hundred lakhs only)

PROPOSAL I: CONSTRUCTION

Sl. No	Item	Estimated Cost (in lakhs)	RUSA Share (in lakhs)
1	New Humanities Block	99.47821 (Rupees ninety nine Lakh forty seven thousand eight hundred and twenty one only)	99.47821 (Rupees ninety nine Lakh forty seven thousand eight hundred and twenty one only)

PROPOSAL II: RENOVATION

Sl. No	Item	Estimated Cost (Rs. in lakhs)	RUSA Share (Rs. in lakhs)
1	Renovation of Central Library	22.79583	22.79583
2	Renovation of Road Facilities	25.96375	25.96375
	Total	48.75958 (Forty eight lakh seventy five thousand nine hundred and fifty eight only)	48.75958 (Forty eight lakh seventy five thousand nine hundred and fifty eight only)

PROPOSAL III: PURCHASE

Sl. No	Item	Estimated Cost (Rs. in lakhs)	RUSA Share (Rs. in lakhs)
1	Equipment to Laboratory	10.0	10.0
2	Books , Journals and Racks	11.5	11.5
3	Computers and accessories	13.5	13.5
4	Equipment to Digital Class Rooms and Solar Street Light	11.75	11.75
5	Equipment to Fitness Centre	5.0	5.0
6	Stationary	.01221	.01221
		51.76221 (Fifty one lakh and seventy six thousand two hundred and twenty one only)	51.76221 (Fifty one lakh and seventy six thousand two hundred and twenty one only)

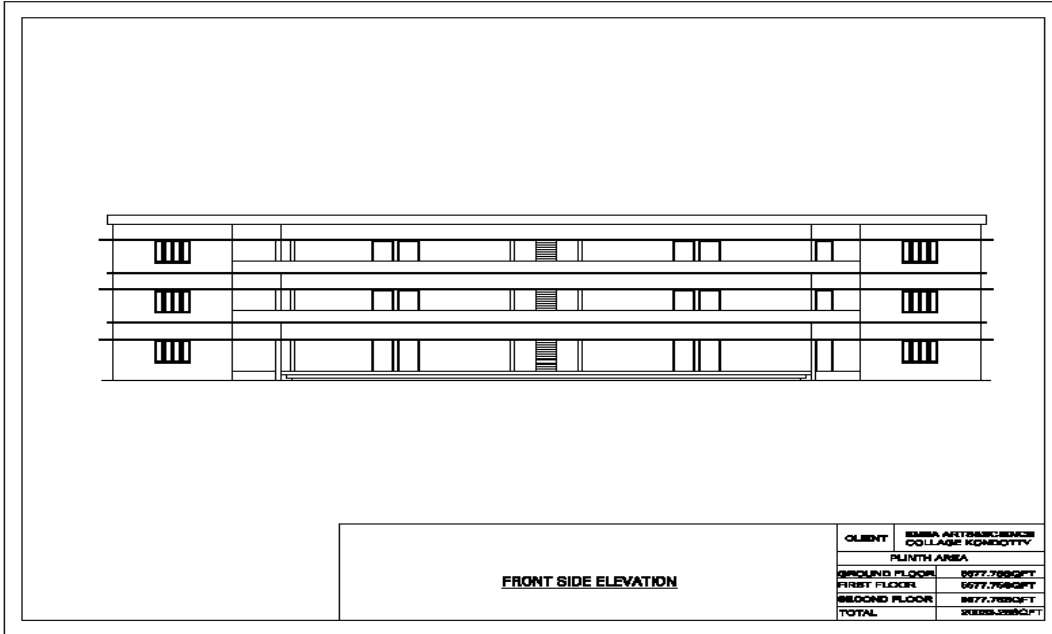
CONSTRUCTION

1. NEW HUMANITIES BLOCK

The crowded environment seems to be the main inconvenience in the Main Block of this college. This is mainly because of the presence of three major departments with a relatively larger intake accommodated in classrooms which were actually constructed for an intake of 40. There are around 1000 students in the main Block whereas its sixty percentages is from the departments of Economics, History and English (see the table given below). Really these class rooms are best suited for science departments as their intake is below 40. In order to overcome the problems of sound pollution and overcrowd in the main block, the college IQAC submitted a proposal for a new separate Humanities Block exclusively for the departments of Economics, English and History. The area occupied by these departments could be used for improving the infrastructure facilities of Science departments

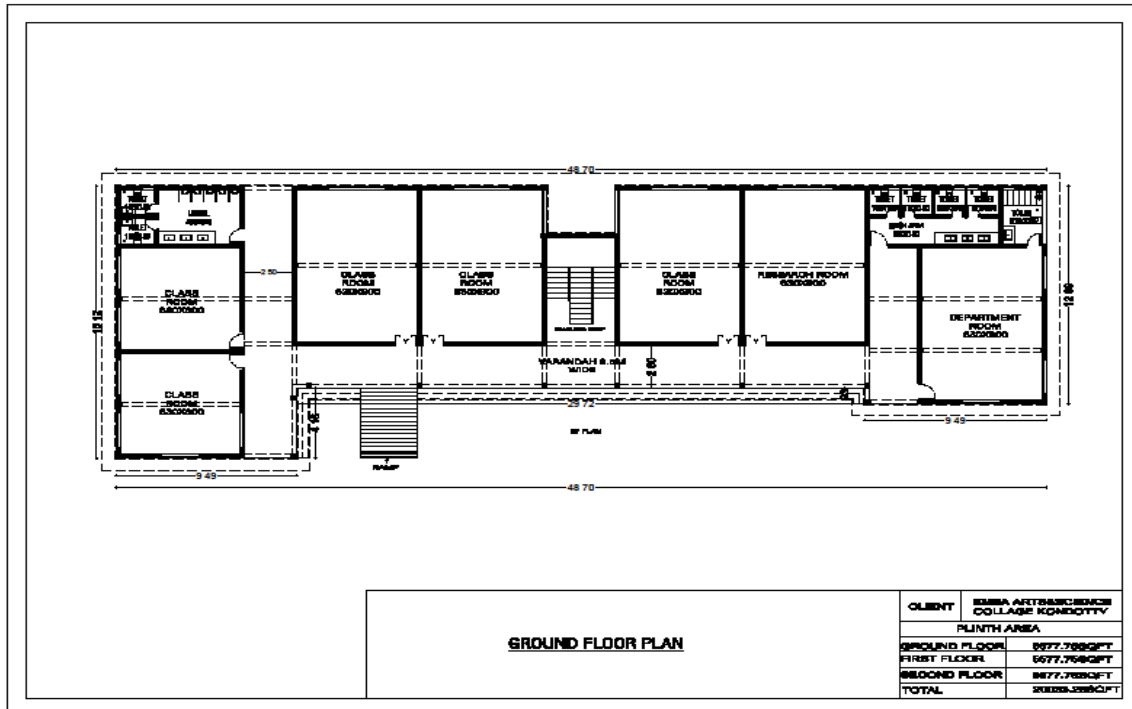
Sl No	Programme	UG/PG	Intake
1	I BA in Economics	UG	60
2	II BA in Economics	UG	60
3	III BA in Economics	UG	60
4	I MA Economics	PG	20
5	II MA Economics	PG	20
6	Ph.D	Research	8
7	I BA in West Asian Studies	UG	60
8	II BA in West Asian Studies	UG	60
9	III BA in West Asian Studies	UG	60
10	I MA History	PG	20
11	II MA History	PG	20
12	I BA in English	UG	40
13	II BA in English	UG	40
14	III BA in English	UG	40
15	I MA English	PG	20
16	II MA English	PG	20
		Total intake	608

The detailed project proposal is attached is herewith



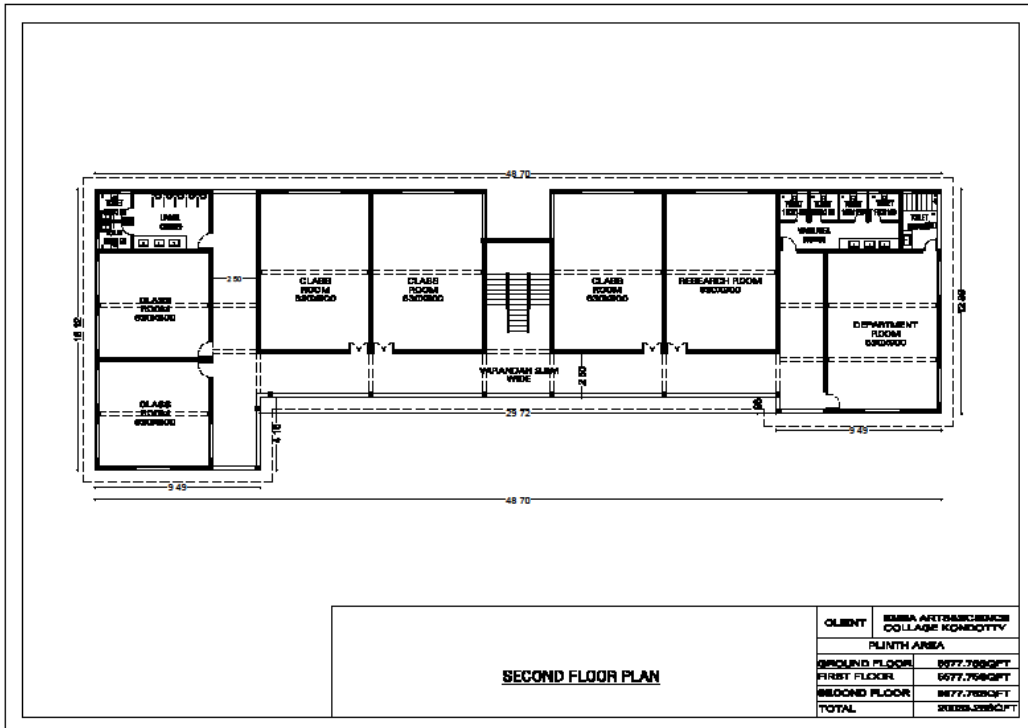
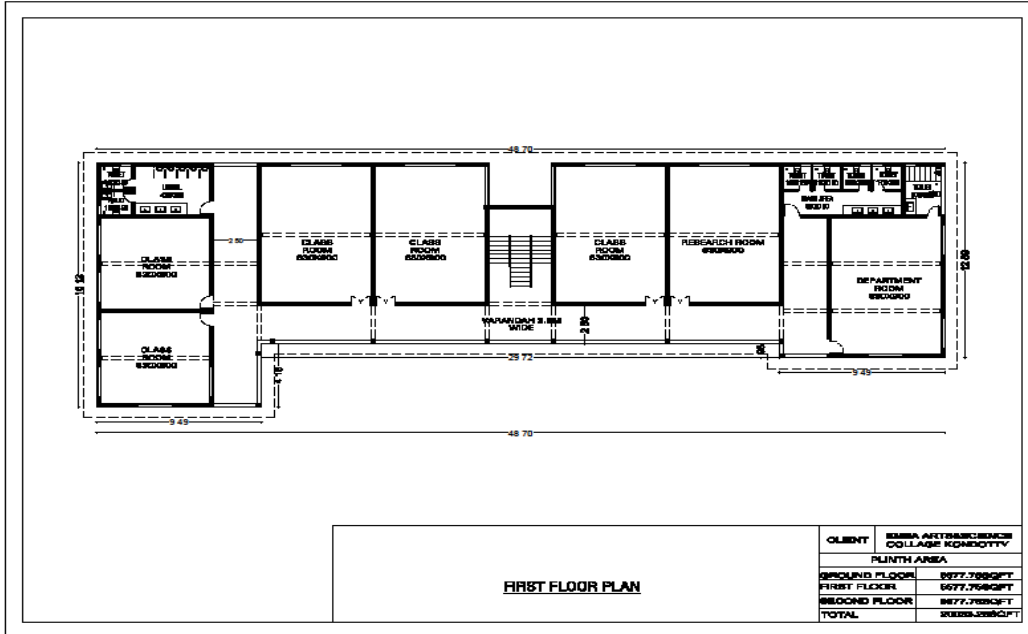
FRONT SIDE ELEVATION

CLIENT	EMEA ARTS&SCIENCE COLLEGE KANDIVVY
PLINTH AREA	
GROUND FLOOR	6977.78SQFT
FIRST FLOOR	6977.78SQFT
SECOND FLOOR	6977.78SQFT
TOTAL	20933.33SQFT



GROUND FLOOR PLAN

CLIENT	EMEA ARTS&SCIENCE COLLEGE KANDIVVY
PLINTH AREA	
GROUND FLOOR	6977.78SQFT
FIRST FLOOR	6977.78SQFT
SECOND FLOOR	6977.78SQFT
TOTAL	20933.33SQFT



PRICE

EST NO:2019/4126

Name of work : EMEA College Kondotty Proposed Humanities Block

ESTIMATE REPORT

Estimate is prepared for the new block
Grade beams are provided for plinth beams
Flooring with ceramic tiles
Flush Doors with anjali frame
Aluminum powder coated windows of 1 m x1.5 m
Finishing with white wash
The estimated amount comes to 99,47,821 including 6% centage and 18% GST



Other Engineering Organisations

PRICE

PRICE

EST NO:2019/4126

EMEA College Kondotty Proposed Humanities Block

General Abstract

(Dsr year: 2016, Cost Index Applied for this estimate is 31.06%)

SI No	Heading Description	Amount
1	Humanities Block	7953166.85
2	Centage 6%	477190.02
	GST @	18.0%
	GST Amount	1517464.24
	Total with GST Amount	9947821.24
	Lumpsum for round off	0.00
	TOTAL Rs 9947821.24	
	Rounded Total Rs 99,47,821	
	Rupees Ninety Nine Lakh Forty Seven Thousand Eight Hundred and Twenty One Only	

(Cost Index Applied for this estimate is 31.06%)



PRICE

EST NO:2019/4126

EMEA College Kondotty Proposed Humanities Block

Detailed Estimate

(Dsr year: 2016, Cost Index Applied for this estimate is 31.06%)

Sl No	Description	No	L	B	D	CF	Quantity	Remark
1 Humanities Block								
1	2.9.1 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Ordinary rock	350					350.000	
							Total Quantity	350.000 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	350.000 cum
							Say 350.000 cum @ Rs 361.53 / cum	Rs 126535.50
2	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with: Cement mortar 1:6 (1 cement : 6 coarse sand)	60					60.000	
							Total Quantity	60.000 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	60.000 cum
							Say 60.000 cum @ Rs 5197.64 / cum	Rs 311858.40
3	50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge	500					500.000	
							Total Quantity	500.000 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	500.000 cum
							Say 500.000 cum @ Rs 407.93 / cum	Rs 203965.00
4	50.6.1.3 Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x20cm or nearest available size confirming to IS 2185 Part I of 1979 for super structure above floor two level up to floor V level thickness 20cm and above in: CM 1:6 (1 cement :6 coarse sand) etc complete							

PRICE

EST NO:2019/4126

		135					135.000	
	Total Quantity						135.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						135.000 cum	
	Say 135.000 cum @ Rs 6166.80 / cum						Rs 832518.00	
5	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)							
		1	90.000				90.000	
	Total Quantity						90.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						90.000 cum	
	Say 90.000 cum @ Rs 5869.06 / cum						Rs 528215.40	
6	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size)							
	Column Footing	45					45.000	
	Coloumn and Plinth Beam	35					35.000	
	Coloumn Upto GF Slab	30					30.000	including head room
	Lintels Beams and Slabs	65					65.000	
	stair	2					2.000	
	Total Quantity						177.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						177.000 cum	
	Say 177.000 cum @ Rs 8145.84 / cum						Rs 1441813.68	
7	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform							
		34				10.0	340.000	
	Total Quantity						340.000 sqm	
	Total Deducted Quantity						0.000 sqm	

PRICE

EST NO:2019/4126

						Net Total Quantity	340.000 sqm	
						Say 340.000 sqm @ Rs 553.47 / sqm	Rs 188179.80	
8	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
		1	30+65			10.0	950.000	
						Total Quantity	950.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	950.000 sqm	
						Say 950.000 sqm @ Rs 449.40 / sqm	Rs 426930.00	
9	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
		1	35.000			10.0	350.000	
						Total Quantity	350.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	350.000 sqm	
						Say 350.000 sqm @ Rs 613.16 / sqm	Rs 214606.00	
10	5.9.7 Centering and shuttering including strutting, etc. and removal of form for:Stairs, (excluding landings) except spiral - staircases							
		5				115.0	575.000	
						Total Quantity	575.000 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	575.000 sqm	
						Say 575.000 sqm @ Rs 549.60 / sqm	Rs 316020.00	
11	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more							
	Column Footing	45				100.0	4500.000	
	Coloumn and Plinth Beam	34				120.0	4080.000	
	Coloumn Upto GF Slab	30				150.0	4500.000	inluding head room
	Lintels Beams and Slabs	65				100.0	6500.000	

PRICE

EST NO:2019/4126

	stair	5				100.0	500.000	
	Total Quantity						20080.000 kilogram	
	Total Deducted Quantity						0.000 kilogram	
	Net Total Quantity						20080.000 kilogram	
	Say 20080.000 kilogram @ Rs 74.18 / kilogram						Rs 1489534.40	
12	13.7.2 12 mm cement plaster finished with a floating coat of neat cement of mix:1:4 (1 cement : 4 fine sand)							
		1100					1100.000	
	Total Quantity						1100.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						1100.000 sqm	
	Say 1100.000 sqm @ Rs 280.73 / sqm						Rs 308803.00	
13	13.16.1 6 mm cement plaster of mix:1:3 (1 cement : 3 fine sand)							
		800					800.000	
	Total Quantity						800.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						800.000 sqm	
	Say 800.000 sqm @ Rs 188.46 / sqm						Rs 150768.00	
14	11.39 Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS: 15622, of approved make in colours White, Ivory, Grey, fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 cement : 4 Coarse sand), including grouting the joints with white cement and matching pigments etc., complete.							
		1	720.000				720.000	
	Total Quantity						720.000 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						720.000 sqm	
	Say 720.000 sqm @ Rs 1077.90 / sqm						Rs 776088.00	
15	11.36 Providing and fixing I st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.							
		85					85.000	

PRICE

EST NO:2019/4126

		Total Quantity						85.000 sqm
		Total Deducted Quantity						0.000 sqm
		Net Total Quantity						85.000 sqm
		Say 85.000 sqm @ Rs 976.13 / sqm						Rs 82971.05
16	50.9.1.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood						
	door	10*2	1+2.1	0.100	0.120		0.745	
		Total Quantity						0.745 cum
		Total Deducted Quantity						0.000 cum
		Net Total Quantity						0.745 cum
		Say 0.745 cum @ Rs 101129.03 / cum						Rs 75341.13
17	9.20.1	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of I st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws						
		10	1.000	2.100			21.000	
		Total Quantity						21.000 sqm
		Total Deducted Quantity						0.000 sqm
		Net Total Quantity						21.000 sqm
		Say 21.000 sqm @ Rs 3262.02 / sqm						Rs 68502.42
18	9.118.1	Providing and fixing to existing door frames24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge(For W.C. and bathroom door shutter).						
		9	0.800	2.100			15.121	
		Total Quantity						15.121 sqm

PRICE

EST NO:2019/4126

		Total Deducted Quantity				0.000 sqm	
		Net Total Quantity				15.121 sqm	
		Say 15.121 sqm @ Rs 2359.74 / sqm				Rs 35681.63	
19	<p>9.119 Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door fame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in Charge.</p>						
		18	.8+2.1				52.200
		Total Quantity				52.200 metre	
		Total Deducted Quantity				0.000 metre	
		Net Total Quantity				52.200 metre	
		Say 52.200 metre @ Rs 575.03 / metre				Rs 30016.57	
20	<p>od2166/2019_2020 Supplying and fixing of aluminium powder coated glazed windows and ventilators using 5 mm or above thick glazing including cost of all material and labour etc complete using Jindal or equivalent sections</p>						
		8	0.600	0.450			2.160
windows		39	1.000	1.500			58.500
		1	0.500	1.000			0.500
		Total Quantity				61.160 sqm	
		Total Deducted Quantity				0.000 sqm	
		Net Total Quantity				61.160 sqm	
		Say 61.160 sqm @ Rs 3069.12 / sqm				Rs 187707.38	
21	<p>13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer</p>						
		1850					1850.000
		Total Quantity				1850.000 sqm	
		Total Deducted Quantity				0.000 sqm	
		Net Total Quantity				1850.000 sqm	
		Say 1850.000 sqm @ Rs 48.43 / sqm				Rs 89595.50	
22	<p>13.37.1 White washing with lime to give an even shade:New work (three or more coats)</p>						
		1850					1850.000

PRICE

EST NO:2019/4126

								Total Quantity	1850.000 sqm
								Total Deducted Quantity	0.000 sqm
								Net Total Quantity	1850.000 sqm
								Say 1850.000 sqm @ Rs 22.61 / sqm	Rs 41828.50
23	13.61.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work							
		250						250.000	
								Total Quantity	250.000 sqm
								Total Deducted Quantity	0.000 sqm
								Net Total Quantity	250.000 sqm
								Say 250.000 sqm @ Rs 102.75 / sqm	Rs 25687.50
SI No	Description	No	L	B	D	CF	Quantity	Remark	
2 Centage 6%									
Lump-Sum Total								Rs 477190.02	
								GST @	18.0%
GST Amount								1517464.24	
Total with GST Amount								9947821.24	
Lumpsum for round off								0.00	
TOTAL								Rs 9947821.24	
PRICE								Rounded Total Rs 99,47,821	
Rupees Ninety Nine Lakh Forty Seven Thousand Eight Hundred and Twenty One Only									

(Cost Index Applied for this estimate is 31.06%)

RENOVATION/UPGRADATION

1. LIBRARY RENOVATION

In institutions of higher learning, the core objective of the library is to support the academic programmes offered. It may evolve its collection and services mainly to reflect the curriculum requirements of its users. Besides, the library needs to design a system to deliver its products and services to attract more users. Ultimately it should also aim at bringing all its target users to the library and ensure its optimum usage. The carpet area of present library seems to be insufficient to fulfill these purposes. Hence the college wanted to upgrade the infrastructure facilities of the central library by providing additional space for stalk room and reference.

**Library services
(As per Annual Quality Assurance Report 2017)**

	Existing		Newly added		Total	
	No.	Value	No.	Value	No.	Value
Text Books	22380	7756955	266	113952	22646	7870907
Reference Books	2856	2774851	33	26502	2889	2801353
e-Books	N-LIST					
Journals	13	29250	2	1400	15	30150
e-Journals	N-LIST					
Digital Database	N-LIST					
CD & Video	277		3		280	
Others (Periodicals)	36	30882	10	3980	46	34862

The Proposal

The estimate for the proposal for library renovation under financial assistance from RUSA is given below.

PRICE

EST NO:2019/4127

Name of work : EMEA College of Arts and Sciences, Kondotty, Extension of Library Building

ESTIMATE REPORT

Estimate prepared for tarring of the existing mud road over the formed road. Estimate cost including 6% centage and GST @ 18% of centage is Rs.22,79,583/-



Other Engineering Organisations

PRICE

PRICE

EST NO:2019/4127

EMEA College of Arts and Sciences, Kondotty, Extension of Library Building

General Abstract

(Dsor year: 2016, Cost Index Applied for this estimate is 31.06%)

SI No	Heading Description	Amount
1	Library Building extension	1822500.27
2	Centage 6%	109350.00
	GST @	18.0%
	GST Amount	347733.05
	Total with GST Amount	2279583.05
	Lumpsum for round off	0.00
	TOTAL Rs 2279583.05	
	Rounded Total Rs 22,79,583	
	Rupees Twenty Two Lakh Seventy Nine Thousand Five Hundred and Eighty Three Only	

(Cost Index Applied for this estimate is 31.06%)



PRICE

EST NO:2019/4127

EMEA College of Arts and Sciences, Kondotty, Extension of Library Building

Detailed Estimate

(Dsr year: 2016, Cost Index Applied for this estimate is 31.06%)

SI No	Description	No	L	B	D	CF	Quantity	Remark
1 Library Building extension								
1	16.83 Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge.							
		90					90.000	
							Total Quantity	90.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	90.000 sqm
							Say 90.000 sqm @ Rs 70.71 / sqm	Rs 6363.90
2	2.7.3 Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.Hard rock (blasting prohibited							
		40					40.000	
							Total Quantity	40.000 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	40.000 cum
							Say 40.000 cum @ Rs 812.31 / cum	Rs 32492.40
3	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)							
		14					14.000	
	flooring	120	0.100				12.000	
							Total Quantity	26.000 cum
							Total Deducted Quantity	0.000 cum
							Net Total Quantity	26.000 cum
							Say 26.000 cum @ Rs 5869.06 / cum	Rs 152595.56
4	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of							

PRICE

EST NO:2019/4127

	centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size						
	Footing	10					10.000
	Up to Plinth Level	6					6.000
	Above Plinth Upto GF Slab Level	30					30.000
	Total Quantity						46.000 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						46.000 cum
	Say 46.000 cum @ Rs 8145.84 / cum						Rs 374708.64
5	5.22.6 Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Thermo - Mechanically Treated bars of grade Fe-500D or more						
		4400					4400.000
	Total Quantity						4400.000 kilogram
	Total Deducted Quantity						0.000 kilogram
	Net Total Quantity						4400.000 kilogram
	Say 4400.000 kilogram @ Rs 74.18 / kilogram						Rs 326392.00
6	5.9.1 Centering and shuttering including strutting, etc. and removal of form for: Foundations, footings, bases of columns, etc for mass concrete						
	Footing	11					11.000
	Total Quantity						11.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						11.000 sqm
	Say 11.000 sqm @ Rs 254.19 / sqm						Rs 2796.09
7	5.9.2 Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.						
		6					6.000
	Total Quantity						6.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						6.000 sqm
	Say 6.000 sqm @ Rs 496.19 / sqm						Rs 2977.14
8	5.9.5 Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams,						

PRICE

EST NO:2019/4127

	girders bressumers and cantilevers						
	Above Plinth	30					30.000
	Total Quantity						30.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						30.000 sqm
	Say 30.000 sqm @ Rs 449.40 / sqm						Rs 13482.00
9	50.6.7.2 Laterate masonry with neatly dressed laterate stone of size 40x20x15cm or nearest size in cement mortar 1:6 for super structure above plinth level up to floor two level including all cost of materials, labour charges etc.						
	Above Plinth Level	17					17.000
	Total Quantity						17.000 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						17.000 cum
	Say 17.000 cum @ Rs 6705.70 / cum						Rs 113996.90
10	50.9.1.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood						
		1.95					1.950
	Total Quantity						1.950 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						1.950 cum
	Say 1.950 cum @ Rs 101129.03 / cum						Rs 197201.61
11	50.9.3.1 Providing and fixing paneled or paneled and glazed shutters for doors, windows and clerestory windows, 30 mm thick shutters including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding paneling which will be paid for separately, all complete as per direction Of Engineer in- charge. using Anjili/ Jack wood						
		8					8.000
	Total Quantity						8.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						8.000 sqm
	Say 8.000 sqm @ Rs 2565.43 / sqm						Rs 20523.44
12	50.9.5.2 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float						

PRICE

EST NO:2019/4127

	glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Using Pincoda wood 35 mm thick shutters						
		1	20.000				20.000
	Total Quantity						20.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						20.000 sqm
	Say 20.000 sqm @ Rs 3709.88 / sqm						Rs 74197.60
13	13.16.1 6 mm cement plaster of mix:1:3 (1 cement : 3 fine sand)						
	Ceiling Plaster						
		200					200.000
	Total Quantity						200.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						200.000 sqm
	Say 200.000 sqm @ Rs 188.46 / sqm						Rs 37692.00
14	13.8.2 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix:1: 4 (1 cement : 4 fine sand)						
		475					475.000
	Total Quantity						475.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						475.000 sqm
	Say 475.000 sqm @ Rs 316.51 / sqm						Rs 150342.25
15	11.36 Providing and fixing I st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.						
		2	10+10	0.075			3.000
	Total Quantity						3.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						3.000 sqm
	Say 3.000 sqm @ Rs 976.13 / sqm						Rs 2928.39
16	11.37 Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the						

PRICE

EST NO:2019/4127

	manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.						
	100						100.000
	Total Quantity						100.000 sqm
	Total Deducted Quantity						0.000 sqm
	Net Total Quantity						100.000 sqm
	Say 100.000 sqm @ Rs 902.15 / sqm						Rs 90215.00
17	7.1.1 Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with:Cement mortar 1:6 (1 cement : 6 coarse sand)						
	25						25.000
	Total Quantity						25.000 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						25.000 cum
	Say 25.000 cum @ Rs 5197.64 / cum						Rs 129941.00
18	2.25 Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.						
	135					0.5	67.500
	Total Quantity						67.500 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						67.500 cum
	Say 67.500 cum @ Rs 164.81 / cum						Rs 11124.68
19	50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge						
	135					0.6	81.000
	Total Quantity						81.000 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						81.000 cum
	Say 81.000 cum @ Rs 407.93 / cum						Rs 33042.33
20	13.82.2						

PRICE

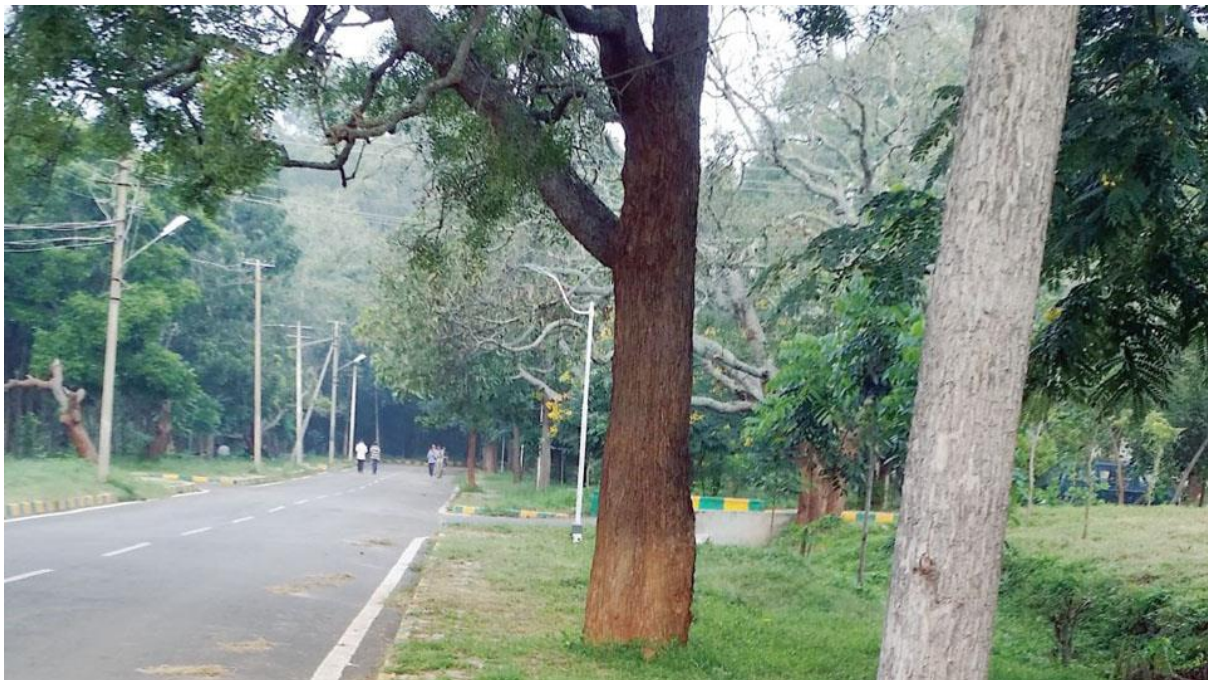
EST NO:2019/4127

	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture including applying additional coats wherever required, to achieve even shade and colour.Two coats							
		475						475.000
	Total Quantity							475.000 sqm
	Total Deducted Quantity							0.000 sqm
	Net Total Quantity							475.000 sqm
	Say 475.000 sqm @ Rs 96.85 / sqm							Rs 46003.75
21	13.48.2 Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture							
		30						30.000
	Total Quantity							30.000 sqm
	Total Deducted Quantity							0.000 sqm
	Net Total Quantity							30.000 sqm
	Say 30.000 sqm @ Rs 116.12 / sqm							Rs 3483.60
SI No	Description	No	L	B	D	CF	Quantity	Remark
Other Engin 2 Centage 6%rganisations								
Lump-Sum Total							Rs 109350.00	
							GST @	18.0%
GST Amount							347733.05	
Total with GST Amount							2279583.05	
Lumpsum for round off							0.00	
							TOTAL Rs 2279583.05	
							Rounded Total Rs 22,79,583	
Rupees Twenty Two Lakh Seventy Nine Thousand Five Hundred and Eighty Three Only								

(Cost Index Applied for this estimate is 31.06%)

2. ROAD RENOVATION

The road facility to the newly constructed college auditorium, sports hostel, basketball court, badminton courts and college canteen is insufficient. The college IQAC has submitted a proposal to construct new road facility these amenities before the next accreditation. The new proposal for renovation of road facilities, it is expected that would help the institution to utilize the vast area of land available in the western side of the campus for future developments.



The approximate estimate of the proposal is given below.

PRICE

EST NO:2019/4193

Name of work : Road Renovation and Tarring work for EMEA college of Arts and Science

ESTIMATE REPORT

The estimate was Prepared for the construction of a bituminous pavement of length 546.5 meters and a width of 5m and Providing wet mix macadam of 75 mm thickness. The estimated amount comes to Rs 25,96,375/- including 6% centage and 18% GST as per Dsor-2016 at an applied cost index of 31.06% (Calicut).



Other Engineering Organisations

PRICE

PRICE

EST NO:2019/4193

Road Renovation and Tarring work for EMEA college of Arts and Science

General Abstract

(Dsr year: 2016, Cost Index Applied for this estimate is 31.06%)

SI No	Heading Description	Amount
1	Appendix-A Surface Preperation	54840.00
2	Appendix- B Tarring	2020932.13
3	Centage 6%	124546.32
	GST @	18.0%
	GST Amount	396057.32
	Total with GST Amount	2596375.32
	Lumpsum for round off	0.00
	TOTAL Rs 2596375.32	
	Rounded Total Rs 25,96,375	
	Rupees Twenty Five Lakh Ninety Six Thousand Three Hundred and Seventy Five Only	

(Cost Index Applied for this estimate is 31.06%)

Other Engineering Organisations
PRICE

PRICE

EST NO:2019/4193

Road Renovation and Tarring work for EMEA college of Arts and Science

Detailed Estimate

(Dsor year: 2016, Cost Index Applied for this estimate is 31.06%)

SI No	Description	No	L	B	D	CF	Quantity	Remark	
1 Appendix-A Surface Preperation									
1	2.28.1 Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.All kinds of soil								
		1	600.000	5.000			3000.000		
		Total Quantity						3000.000 sqm	
		Total Deducted Quantity						0.000 sqm	
		Net Total Quantity						3000.000 sqm	
		Say 3000.000 sqm @ Rs 18.28 / sqm						Rs 54840.00	
SI No	Description	No	L	B	D	CF	Quantity	Remark	
2 Appendix- B Tarring									
1	4.9 Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead								
		2	600.000	4.700	0.075		423.000		
		1	30.000	4.700	0.075		10.575		
		Total Quantity						433.575 cum	
		Total Deducted Quantity						0.000 cum	
		Net Total Quantity						433.575 cum	
		Say 433.575 cum @ Rs 2852.96 / cum						Rs 1236972.13	
2	5.1.1a Prime Coat :-Low porosity Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502								
		1	600.000	4.700			2820.000		
		Total Quantity						2820.000 sqm	
		Total Deducted Quantity						0.000 sqm	

PRICE

EST NO:2019/4193

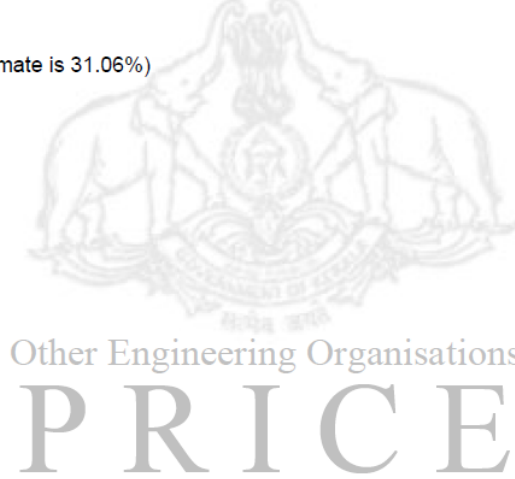
							Net Total Quantity	2820.000 sqm
							Say 2820.000 sqm @ Rs 54.76 / sqm	Rs 154423.20
3	5.2.3a Tack Coat Providing and applying tack coat with Bitumen emulsion (RS-1) using emulsion distributor at the rate of 0.25 to 0.30 kg per sqm on the prepared granular surfaces treated with primer & cleaned with Hydraulic broom as per Technical Specification Clause 503.							
		1	600.000	4.700				2820.000
							Total Quantity	2820.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	2820.000 sqm
							Say 2820.000 sqm @ Rs 11.68 / sqm	Rs 32937.60
4	5.9.1.2a 20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508. Case - I By Manual Means (II)Bitumen (S-65)							
		1	600.000	4.700				2820.000
							Total Quantity	2820.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	2820.000 sqm
							Say 2820.000 sqm @ Rs 151.50 / sqm	Rs 427230.00
5	5.12.A.3.2a Seal Coat - Manual Means - Type C - Bitumen S-65 Providing and laying seal coat sealing the voids in a bituminous surface laid to the specified levels, grade and cross fall using Type A, Type B and Type C as per Technical Specification Clause 510 A.By Manual Means:-Case - III : Type C (II)Bitumen (S-65)							
		1	600.000	4.700				2820.000
							Total Quantity	2820.000 sqm
							Total Deducted Quantity	0.000 sqm
							Net Total Quantity	2820.000 sqm
							Say 2820.000 sqm @ Rs 60.06 / sqm	Rs 169369.20

PRICE

EST NO:2019/4193

Sl No	Description	No	L	B	D	CF	Quantity	Remark
3 Centage 6%								
Lump-Sum Total							Rs 124546.32	
							GST @	18.0%
GST Amount							396057.32	
Total with GST Amount							2596375.32	
Lumpsum for round off							0.00	
TOTAL Rs 2596375.32								
Rounded Total Rs 25,96,375								
Rupees Twenty Five Lakh Ninety Six Thousand Three Hundred and Seventy Five Only								

(Cost Index Applied for this estimate is 31.06%)



PURCHASE

1. APPROXIMATE ESTIMATE FOR THE PURCHASE OF LAB EQUIPMENTS

S. No.	Name of Equipment	Amount in Rupees(lakhs)
1	PCR (Gradient) 96 well	2.50
2	Gel documentation system	6.50
3	Microbalance 0.1mg sensitivity	1.0
	Total	10.0

2. **ESTIMATE FOR THE PURCHASE OF BOOKS AND RACKS TO CENTRAL LIBRARY**

ESTIMATE(Approximate)

Sl.no.	Department	Amount in Rupees(Lakhs)
1.	Economics	75.00
2.	Microbiology	75.00
3.	Commerce	75.00
4.	Computer Science	75.00
5.	English	75.00
6.	West Asian Studies	75.00
7.	Mathematics	0.25
8.	Statistics	0.25
9.	Political Science	0.25
10.	Journalism	0.25
11.	Malayalam	0.25
12.	Arabic	0.15
13.	Hindi	0.10
	Racks	5.5
	Total	11.50

3. COMPUTERS AND ACCESSORIES

The proposal for a project lab for UG programme in Computer Science was firstly suggested by NAAC Peer team which visited the campus in 2014. It is exclusively meant for doing Project works. The IQAC has also recommended the provisions for a project lab before the third cycle.

The approximate estimate of the same is given below.

Sl No	Particulars	Amount
1	Hardware requirements 20 Systems(@ 45 000/-) with the following specifications 1. Processor: 4 th generation Intel Core i5 2. Memory: 8 GB RAM or above 3. HDD: 2TB 4. Graphics card: 2 GB ddr5 5. Mother board:i5 87 Chipset 6. Server: case with Server SMPS 7. Monitor: 18.5 inch 8. Logitech Mouse and Keyboard	900000.00
2	Basic Software requirements Microsoft Windows 7 Professional 64 bit paper license for 20 systems	225000
3	Power back up(for 20 systems) 5KVA online UPS with isolation transformer,130 AH Exide EL Battery (5 Nos)	200000
4	Network Cable for 10 Systems : Cable 22 meters,24 port switch, Facing & capping, patch panel, patch box,60 jacks ,cabling charges etc.	15000
	Total	1350000

4. APPROXIMATE ESTIMATE FOR THE PURCHASE OF EQUIPMENTS TO DIGITAL CLASS ROOMS AND SOLAR STREET LIGHTS

Information and communication technologies (ICT) have become commonplace entities in all aspects of life. Across the past twenty years the use of ICT has fundamentally changed the practices and procedures of nearly all forms of endeavor within business and governance. Within education, ICT has begun to have a presence but the impact has not been as extensive as in other fields. Education is a very socially oriented activity and quality education has traditionally been associated with strong teachers having high degrees of personal contact with learners. The use of ICT in education lends itself to more student-centred learning settings and often this creates some tensions for some teachers and students. But with the world moving rapidly into digital media and information, the role of ICT in education is becoming more and more important and this importance will continue to grow and develop in the 21st century.

There are so many benefits when it comes to transforming a classroom into a digital classroom. One of the greatest advantages of going digital is that the possibilities of what you can do are endless. There are so many different websites, extensions, add-ons, and apps that teachers can use to enhance their teaching and connect with students. Digital classrooms prepare students for life in college and the real world by providing them with a technology-based education. Digital classrooms are also great for the environment because paper use is either eliminated or significantly reduced.

The present proposal is for making 10 class rooms quipped with digital facilities. The estimate on expenditure is given below.

ESTIMATE (For 20 Class Rooms)

Sl No	Particulars	Amount required (Amount in Rupees)
1.	LCD Projectors (20)	7.0
2.	Installation charges (20 Class rooms)	1.0
3.	Networking expenses	1.0
4.	Solar street Lights	2.75
	Total	11.75

5. PURCHASE OF EQUIPMENT TO FITNESS CENTRE



EMEA COLLEGE OF ARTS & SCIENCE

DEPARTMENT OF PHYSICAL EDUCATION

KONDOTTI, P. O., KUMMINIPARAMBA,

MALAPPURAM (DIST), PIN 673 638

shihabudheen@emeacollege.ac.in

Mob: 9846990313

**ESTIMATE (Approximate)
10 POINT OUTDOOR FITNESS PARK**

SL NO	PARTICULARS	QUANTITY	RATE
1	BACK EXTENSION	1	25500
2	CHEST PRESS/ LAT PULL	1	80400
4	PUSH UP BARS	1	20280
5	SELF WEIGHTED ROWER	1	45720
6	SIT-UP BENCH	1	49260
7	SKI WALKER-DOUBLE	1	80400
8	STRENGTH AND STRETCH BARS	1	68840
9	TWO SIDED ROTATOR	1	43500
10	UNEVEN BARS	1	86100
	TOTAL		500000